

Ceiling Diffusers



BUILDING VALUE IN AIR.

GREENHECK
Building Value in Air.

November
2021

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The Greenheck line of ceiling diffusers is designed for flexibility in application. This series covers a full range of ceiling diffusers which include square face cone, louvered face, concentric supply/return, modular, perforated, round and VAV diffusers.



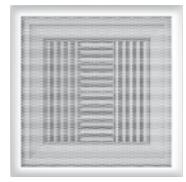
Square face cone diffusers are the most popular and efficient of the ceiling diffusers. The square cone diffuser provides a true 360° radial horizontal air flow pattern.

PAGE 3



Louvered face diffusers provide an aesthetically pleasing solution for applications requiring large volumes of air at low sound levels and low pressure drops. These units are available in 1, 2, 3 and 4-way air pattern variations that are virtually limitless due to the unique assembly of these diffusers.

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Perforated ceiling diffusers are designed to provide a smooth, even appearance that blends into the ceiling. Perforated supply diffusers are available with adjustable pattern controllers on either the face or neck or modular cores which provide an excellent air pattern.

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Round ceiling diffusers are available in a broad range of sizes and models from the economical to industrial and architectural. These units are typically installed in sheet rock or exposed duct and are available with adjustable deflectors that allow the option for either horizontal or vertical flow. An excellent choice for gyms, industrial facilities and large retail outlets.

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Ceiling diffuser accessories are primarily designed to improve the overall air handling performance of the system. Proper application of duct and outlet accessories aide in the control of the air distribution system.

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SQUARE CEILING DIFFUSERS

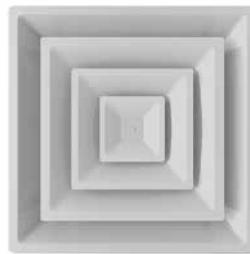
CEILING
DIFFUSERS

SQUARE CEILING DIFFUSERS

MODELS XG-5700 / XG-5700A



MODELS XG-5800 / XG-5800A



MODEL XG-5750



MODEL XG-PHENOMENATOR



Models XG-5700 / XG-5700A 2 Cone diffusers are designed to efficiently handle cooling temperature differentials of 18-20°F at ceiling heights of 8' to 10'. The round neck to square face design provides a uniform 360° fixed horizontal air diffusion pattern. For applications requiring a vertical air flow, the XG-5700A adjustable model employs movable air deflecting vanes which will provide vertical downward airflow.

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Models XG-5800 / XG-5800A 3 Cone diffusers are designed to efficiently handle cooling temperature differentials of 18-20°F at ceiling heights of 8' to 10'. The round neck to square face design provides a uniform 360° fixed horizontal air diffusion pattern. For applications requiring a vertical air flow, the XG-5800A adjustable model employs movable air deflecting vanes which will provide vertical downward airflow.

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Model XG-5750 offers the architect the often preferred appearance of a single air diffusion panel. The diffuser is designed to efficiently handle cooling temperature differentials of 18-20°F at ceiling heights of 8' to 10'.

PAGE 16

Model XG-Phenomenator has the highest induction ratio of any commercial air diffuser available. It is an excellent selection for providing exceptional comfort, especially in executive offices, conference rooms and board rooms. The XG-Phenomenator is designed for applications calling for minimal temperature differences in a space.

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MODEL XG-5700

Two Cone Square Face Diffuser with Round Neck

XG-5700-1 - Surface Mount XG-5700-6 - T-bar Lay-in

XG-5700-7 - Concealed Spline XG-5700-9 - Donn Fineline Lay-in

Non-Adjustable, Horizontal Discharge Pattern

Air inlets shall be model XG-5700 manufactured by GREENHECK shall be constructed of steel.



Air inlets shall be model XG-5700 AS manufactured by GREENHECK shall be constructed of aluminized steel. Air inlets shall be model XG-5700 AL manufactured by GREENHECK shall be constructed of aluminum.

Units shall be square with a formed backpan and two inner cones. Outlet shall have the same appearance from the face regardless of inlet size. The units shall be the size and quantity as outlined in the plans and specifications.

Inlets shall be drawn into the backpan of the diffuser. Welded inlets are not acceptable. Diffusers shall include seismic tabs drawn into the backpan. Inner cone assemble shall be removable without the aid of tools to access the optional damper and for installation if needed. Units requiring tools such as screwdrivers or hex keys to remove the inner cones are not acceptable.

The bottom cone shall have a removable plug in the center to allow access to adjust an optional damper. Units shall include the option to allow a field installed third optional cone accessory model Snap-58. Optional third cone shall be installed into the bottom of the 5700 diffuser without the use of tools.

Units shall be designed to integrate into the specified ceiling system.

Optional for Adjustable Pattern

Outlet shall include adjustable deflector blades located within the cones of the device. Deflectors shall allow the discharge air to be adjusted to obtain a vertical or horizontal air pattern.

XG-5700A-1 - Surface Mount

XG-5700A-6 - T-bar Lay-in

XG-5700A-7 - Concealed Spline

XG-5700A-9 - Donn Fineline Lay-in

Adjustable Discharge Pattern

Air inlets shall be model XG-5700A manufactured by GREENHECK shall be constructed of steel.

Air inlets shall be model XG-5700A AS manufactured by GREENHECK shall be constructed of aluminized steel. Air inlets shall be model XG-5700A AL manufactured by GREENHECK shall be constructed of aluminum.

Optional Dampers and Accessories

Butterfly Damper

GREENHECK model XG-BDS aluminum round butterfly type dampers shall be provided. Damper shall consist of two butterfly style blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screwdriver slot that can be assessed through the face of the diffuser.

Radial Shutter Damper

GREENHECK model XG-RSD steel round radial shutter damper shall be provided. Damper shall consist of gang operated radial blades that slide perpendicular to air flow direction. The damper shall be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Equalizing Grid

GREENHECK model XG-G3 aluminum round equalizing grid shall be provided. Equalizing grid shall consist of 1/2" x 1/2" x 1/2" aluminum cubed core mounting in an aluminum frame.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

Paint Specification

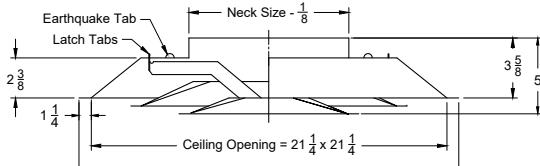
Process shall be anodic electrodeposition using an anodic acrylic paint. Units shall undergo pre-treatment including a pressurized spray stage using an alkaline cleaner and a de-ionized water rinse.

MODEL XG-5700

Square Face Diffusers 2 Cone - Round Neck

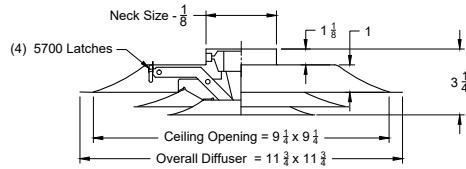
Models:	Steel	Aluminized Steel	Aluminum	
XG-5700-1	XG-5700-1 AS	XG-5700-1 AL	Surface Mount	
XG-5700-6	XG-5700-6 AS	XG-5700-6 AL	Lay in T-Bar	
XG-5700-6P	XG-5700-6P AL	XG-5700-6P AL	Lay in T-Bar Panel	
XG-5700-7	XG-5700-7 AS		Concealed T-Bar	
XG-5700-9	XG-5700-9 AS	XG-5700-9 AL	Bolt Slot / Donn Fineline (USG) Ceiling Grid	

Models: XG-5700-1 (Steel - Surface Mount - 24 x 24)
 XG-5700-1 AS (Aluminized Steel Surface Mount - 24 x 24)
 XG-5700-1 AL (Aluminum - Surface Mount - 24 x 24)



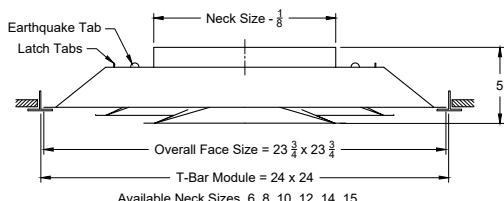
For surface mount installations, use of plaster frame is recommended.
 Available Neck Sizes 6, 8, 10, 12, 14, 15

Models: XG-5700-1 (Steel - Surface Mount - 12 x 12)
 XG-5700-1 AS (Aluminized Steel Surface Mount - 12 x 12)
 XG-5700-1 AL (Aluminum - Surface Mount - 12 x 12)



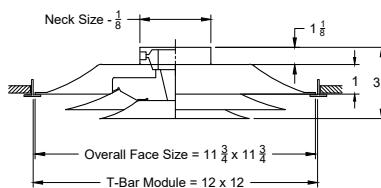
For surface mount installations, use of plaster frame is recommended.
 Available Neck Sizes 6 & 8

Models: XG-5700-6 (Steel - Lay in T-Bar - 24 x 24)
 XG-5700-6 AS (Aluminized Steel Lay in T-Bar - 24 x 24)
 XG-5700-6 AL (Aluminum - Lay in T-Bar - 24 x 24)



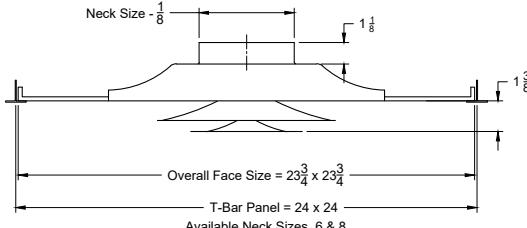
Available Neck Sizes 6, 8, 10, 12, 14, 15

Models: XG-5700-6 (Steel - Lay in T-Bar - 12 x 12)
 XG-5700-6 AS (Aluminized Steel Lay in T-Bar - 12 x 12)
 XG-5700-6 AL (Aluminum - Lay in T-Bar - 12 x 12)



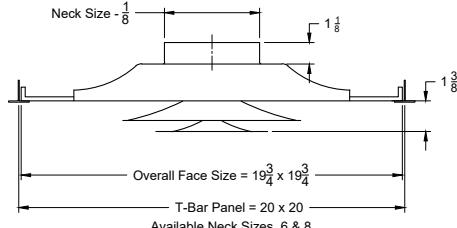
Available Neck Sizes 6 & 8

Model: XG-5700-6P (Steel - Lay in T-Bar Panel)
 XG-5700-6P AL (Aluminum - Lay in T-Bar Panel)



Available Neck Sizes 6 & 8

Model: XG-5700-6P (Steel - Lay in T-Bar Panel)
 XG-5700-6P AL (Aluminum - Lay in T-Bar Panel)



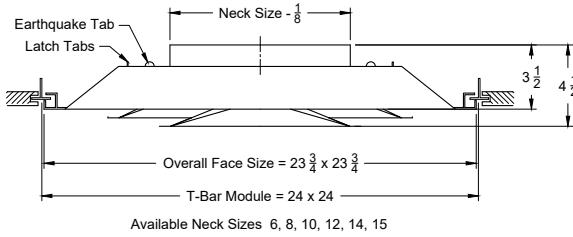
Available Neck Sizes 6 & 8

MODEL XG-5700

Square Face Diffusers 2 Cone - Round Neck

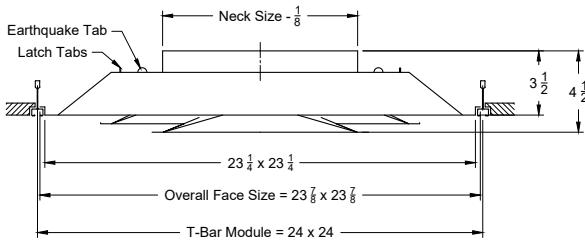
Models:	Steel	Aluminized Steel	Aluminum	
	XG-5700-1	XG-5700-1 AS	XG-5700-1 AL	Surface Mount
	XG-5700-6	XG-5700-6 AS	XG-5700-6 AL	Lay in T-Bar
	XG-5700-6P	XG-5700-6P AL	XG-5700-6P AL	Lay in T-Bar Panel
	XG-5700-7	XG-5700-7 AS		Concealed T-Bar
	XG-5700-9	XG-5700-9 AS	XG-5700-9 AL	Bolt Slot / Donn Fineline (USG) Ceiling Grid

Models: XG-5700-7 (Steel - Lay in T-Bar - 24 x 24)
 XG-5700-7 AS (Aluminized Steel - Lay in T-Bar - 24 x 24)



Available Neck Sizes 6, 8, 10, 12, 14, 15

Models: XG-5700-9 (Steel - Lay in T-Bar - 24 x 24)
 XG-5700-9 AS (Aluminized Steel - Lay in T-Bar - 24 x 24)
 XG-5700-9 AL (Aluminum - Lay in T-Bar - 24 x 24)



Available Neck Sizes 6, 8, 10, 12, 14, 15

Notes: (check if provided)

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
Standard Finish: 01 White Optional Finish (extra charge): 02 Satin Silver 03 Black 28 Custom Color / Setup Charge	Accessories Shipped Unattached XG-G3 Equalizing Grid XG-BDS Butterfly Damper XG-RSD Radial Shutter Damper XG-BAF Directional Baffles Accessories Shipped Factory Installed XG-FGBP Factory Installed R6 Insulation on Select Sizes and Models	<ul style="list-style-type: none"> Concealed Mount FMCC 	<ul style="list-style-type: none"> Available Sizes Only as Listed Available Neck Sizes as Listed

SERIES XG-5700 PERFORMANCE DATA
MODEL XG-5700/XG-5700A

Listed Size	Neck Size	fpm Vn	400	500	600	700	800	900	1000	1200	1400	2000
		Pv	0.01	0.016	0.022	0.031	0.04	0.05	0.062	0.09	0.122	0.249
12x12	6	CFM	80	100	120	135	155	175	195	235	275	395
		Ps	.021	.033	.048	.061	.080	.102	.127	.184	.253	.521
		Pt	.031	.049	.071	.091	.120	.153	.189	.274	.375	.770
		Throw*	2-3-6	3-4-7	3-5-7	3-5-8	4-6-8	4-6-9	5-7-9	6-7-10	6-8-11	8-9-13
		Throw	3-4-6	3-5-7	4-5-7	4-6-8	5-6-8	5-6-9	5-7-9	6-7-10	6-8-11	8-10-13
		NC	-	<15	18	20	23	26	28	33	36	44
24x24	8	CFM	140	175	210	245	280	315	350	420	490	700
		Ps	.029	.046	.066	.090	.118	.149	.184	.265	.360	.735
		Pt	.039	.062	.089	.121	.158	.199	.246	.354	.482	.984
		Throw*	3-4-8	3-5-9	4-6-10	5-7-11	5-8-11	6-8-12	7-9-13	8-10-14	9-11-15	10-13-18
		Throw	3-5-8	4-6-9	5-7-10	6-7-11	7-8-11	7-8-12	7-9-13	8-10-14	9-11-15	10-13-18
		NC	-	<15	19	22	25	28	31	36	40	46
24x24	6	CFM	80	100	120	135	155	175	195	235	275	395
		Ps	.014	.021	.031	.039	.051	.065	.081	.118	.161	.332
		Pt	.024	.037	.053	.069	.091	.116	.143	.207	.283	.582
		Throw*	2-2-5	2-3-5	2-4-6	3-4-6	3-4-6	4-5-7	4-5-7	5-6-8	5-6-8	6-7-10
		Throw	2-4-7	3-5-8	4-6-9	4-6-10	5-7-10	5-8-11	6-8-12	7-9-13	8-10-14	10-12-17
		NC	-	-	-	-	<15	16	18	23	27	43
24x24	8	CFM	140	175	210	245	280	315	350	420	490	700
		Ps	.016	.025	.036	.048	.063	.080	.099	.142	.194	.395
		Pt	.026	.040	.058	.079	.103	.131	.161	.232	.316	.645
		Throw*	2-3-6	3-4-7	3-5-7	4-6-8	4-6-9	5-6-9	5-7-10	6-7-10	7-8-11	8-10-13
		Throw	3-5-10	4-6-11	5-7-12	6-9-13	6-10-14	7-10-15	8-11-16	10-12-17	11-13-18	13-16-22
		NC	-	-	-	-	<15	18	21	26	30	55

SERIES XG-5700 PERFORMANCE DATA
MODEL XG-5700/XG-5700A

Listed Size	Neck Size	fpm Vn	400	500	600	700	800	900	1000	1200	1400	2000
		Pv	0.01	0.016	0.022	0.031	0.04	0.05	0.062	0.09	0.122	0.249
24 x 24	10	CFM	220	275	325	380	435	490	545	655	765	1090
		Ps	.019	.030	.042	.057	.075	.096	.118	.171	.233	.473
		Pt	.029	.046	.064	.088	.115	.146	.181	.261	.355	.722
		Throw*	3-4-8	3-5-8	4-6-9	5-7-10	5-8-11	6-8-11	7-8-12	8-9-13	8-10-14	10-12-17
		Throw	4-6-12	5-8-14	6-9-15	7-11-16	8-12-17	9-13-18	10-14-19	12-15-21	13-16-23	16-19-28
		NC	-	-	-	<15	16	20	24	30	35	63
24 x 24	12	CFM	315	395	470	550	630	705	785	940	1100	1570
		Ps	.021	.033	.046	.063	.083	.104	.129	.185	.253	.515
		Pt	.031	.048	.069	.094	.123	.154	.191	.274	.375	.765
		Throw*	3-5-9	4-6-10	5-7-11	6-8-12	7-9-13	7-10-14	8-10-14	9-11-16	10-12-17	12-14-20
		Throw	5-7-15	6-9-17	7-11-18	8-13-20	10-15-21	11-16-22	12-17-23	14-18-26	16-20-28	19-23-33
		NC	-	-	-	<15	19	23	27	33	39	68
24 x 24	14	CFM	430	535	640	750	855	960	1070	1285	1495	2140
		Ps	.026	.041	.058	.080	.104	.131	.163	.234	.377	.650
		Pt	.036	.056	.081	.110	.144	.181	.225	.324	.440	.900
		Throw*	4-6-11	5-7-12	6-9-13	7-10-14	8-11-15	9-11-16	10-12-17	11-13-18	11-14-20	14-17-24
		Throw	6-9-17	7-11-19	8-13-21	10-15-23	11-17-24	13-18-26	14-19-27	17-21-30	19-23-32	22-27-39
		NC	-	*	<15	<15	18	23	28	35	40	57
24 x 24	15	CFM	490	615	735	860	980	1105	1225	1475	1720	2455
		Ps	.032	.051	.072	.099	.129	.164	.201	.292	.396	.808
		Pt	.042	.066	.095	.130	.169	.214	.263	.381	.519	1.057
		Throw*	4-6-11	5-8-13	6-9-14	7-11-15	8-11-16	9-12-17	10-13-18	11-14-20	12-15-21	15-18-25
		Throw	6-9-18	8-11-21	9-14-23	11-16-24	12-18-26	14-20-28	15-21-29	18-23-32	20-24-35	24-29-41
		NC	-	-	<15	16	22	27	31	39	46	68

PERFORMANCE NOTES FOR SERIES XG-5700

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

fpm Velocity of air stream in Feet per Minute

Pv Velocity pressure (inches of water column)

Pt Total pressure (inches of water column)

Ps Static pressure = Pt-Pv (inches of water column)

Throw* Non-isothermal horizontal throw (supply air temperature 15°F colder than average room temperature); values are for 150, 100 and 50fpm velocities

Throw Isothermal throw (supply air temperature the same as average room temperature); values are for 150, 100 and 50fpm velocities

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10⁻¹² watts minus a 10dB room attenuation in all octave bands

Vn Neck Velocity

MODEL XG-5800

Three Cone Square Face Diffuser with Round Neck

XG-5800-1 - Surface Mount

XG-5800-6 - T-bar Lay-in

XG-5800-7 - Concealed Spline

XG-5800-9 - Donn Fineline Lay-in

Non-Adjustable, Horizontal Discharge Pattern

Air inlets shall be model XG-5800 manufactured by GREENHECK shall be constructed of steel.

Air inlets shall be model XG-5800 AS manufactured by GREENHECK shall be constructed of aluminized steel. Air inlets shall be model XG-5800 AL manufactured by GREENHECK shall be constructed of aluminum.

Units shall be square with a formed backpan and three inner cones. Outlet shall have the same appearance from the face regardless of inlet size. The units shall be the size and quantity as outlined in the plans and specifications.

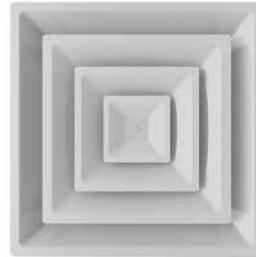
Inlets shall be drawn into the backpan of the diffuser. Welded inlets are not acceptable. Diffusers shall include seismic tabs drawn into the backpan. Inner cone assemble shall be removable without the aid of tools to access the optional damper and for installation if needed. Units requiring tools such as screwdrivers or hex keys to remove the inner cones are not acceptable.

The bottom cone shall have a removable plug in the center to allow access to adjust an optional damper.

Units shall be designed to integrate into the specified ceiling system.

Optional for Adjustable Pattern

Outlet shall include adjustable deflector blades located within the cones of the device. Deflectors shall allow the discharge air to be adjusted to obtain a vertical or horizontal air pattern.



CEILING
DIFFUSERS

SQUARE CEILING DIFFUSERS

XG-5800

XG-5800A-1 - Surface Mount
XG-5800A-6 - T-bar Lay-in
XG-5800A-7 - Concealed Spline
XG-5800A-9 - Donn Fineline Lay-in**Adjustable Discharge Pattern**

Air inlets shall be model XG-5800A manufactured by GREENHECK shall be constructed of steel.

Air inlets shall be model XG-5800A AS manufactured by GREENHECK shall be constructed of aluminized steel. Air inlets shall be model 5800A AL manufactured by GREENHECK shall be constructed of aluminum.

Optional Dampers and Accessories**Butterfly Damper**

GREENHECK model XG-BDS aluminum round butterfly type dampers shall be provided. Damper shall consist of three butterfly style blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screwdriver slot that can be assessed through the face of the diffuser.

Radial Shutter Damper

GREENHECK model XG-RSD steel round radial shutter damper shall be provided. Damper shall consist of gang operated radial blades that slide perpendicular to air flow direction. The damper shall be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Equalizing Grid

GREENHECK model XG-G3 aluminum round equalizing grid shall be provided. Equalizing grid shall consist of 1/2" x 1/2" x 1/2" aluminum cubed core mounting in an aluminum frame.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

Paint Specification

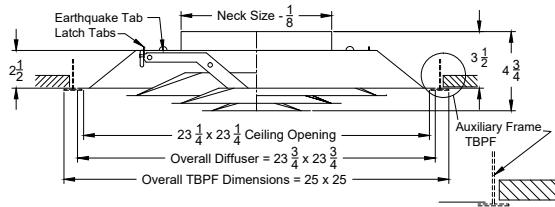
Process shall be anodic electrodeposition using an anodic acrylic paint. Units shall undergo pre-treatment including a pressurized spray stage using an alkaline cleaner and a de-ionized water rinse.

MODEL XG-5800

Square Face Diffusers 3 Cone - Round Neck

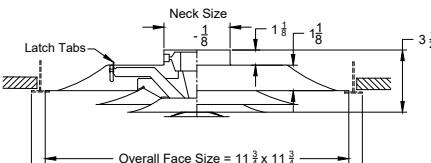
Models:	Steel	Aluminized Steel	Aluminum	
	<input type="checkbox"/> XG-5800-1	<input type="checkbox"/> XG-5800-1 AS	<input type="checkbox"/> XG-5800-1 AL	Surface Mount
	<input type="checkbox"/> XG-5800-6	<input type="checkbox"/> XG-5800-6 AS	<input type="checkbox"/> XG-5800-6 AL	Lay in T-Bar
	<input type="checkbox"/> XG-5800-6P		<input type="checkbox"/> XG-5800-6P AL	Lay in T-Bar Panel

Models: XG-5800-1 (Steel - Surface Mount - 24 x 24)
 XG-5800-1 AS (Aluminized Steel - Surface Mount - 24 x 24)
 XG-5800-1 AL (Aluminum - Surface Mount - 24 x 24)



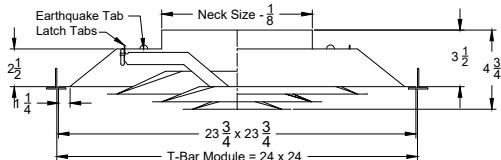
Available Neck Sizes 6, 8, 10, 12, 14, 15

Models: XG-5800-1 (Steel - Surface Mount - 12 x 12)
 XG-5800-1 AS (Aluminized Steel - Surface Mount - 12 x 12)
 XG-5800-1 AL (Aluminum - Surface Mount - 12 x 12)



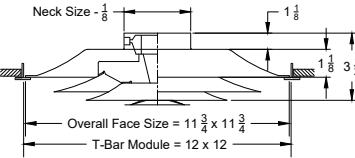
Available Neck Sizes 6, 8

Models: XG-5800-6 (Steel - Lay in T-Bar - 24 x 24)
 XG-5800-6 AS (Aluminized Steel - Lay in T-Bar - 24 x 24)
 XG-5800-6 AL (Aluminum - Lay in T-Bar - 24 x 24)



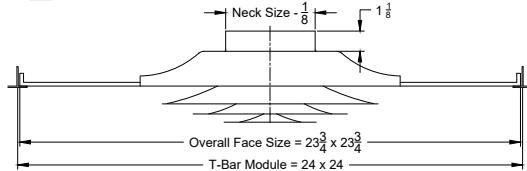
Available Neck Sizes 6, 8, 10, 12, 14, 15

Models: XG-5800-6 (Steel - Lay in T-Bar - 12 x 12)
 XG-5800-6 AS (Aluminized Steel - Lay in T-Bar - 12 x 12)
 XG-5800-6 AL (Aluminum - Lay in T-Bar - 12 x 12)



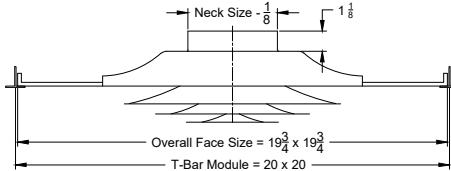
Available Neck Sizes 6, 8

Models: XG-5800-6P (Steel - Lay in T-Bar Panel - 24 x 24) 6" or 8" Inlets Only
 XG-5800-6P AL (Aluminum - Lay in T-Bar Panel - 24 x 24) 6" or 8" Inlets Only



Available Neck Sizes: 6 & 8

Models: XG-5800-6P (Steel - Lay in T-Bar Panel - 20 x 20) 6" or 8" Inlets Only
 XG-5800-6P AL (Aluminum - Lay in T-Bar Panel - 20 x 20) 6" or 8" Inlets Only



Available Neck Sizes: 6 & 8

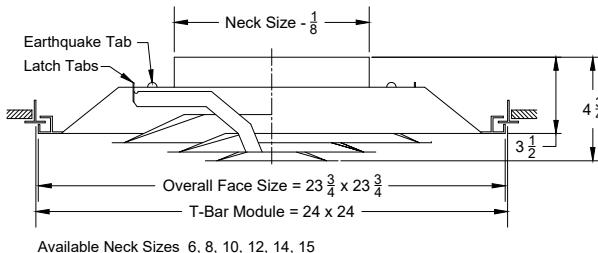
MODEL XG-5800

Square Face Diffusers 3 Cone - Round Neck

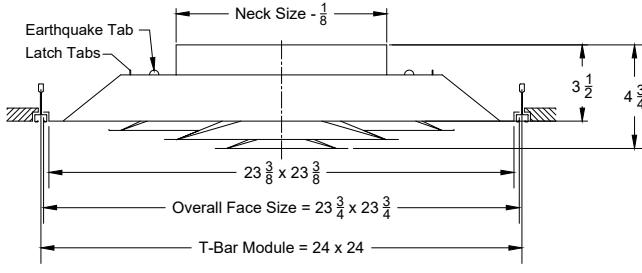
Models: Steel Aluminized Steel Aluminum

- | | | | |
|------------------------------------|---------------------------------------|---------------------------------------|--|
| <input type="checkbox"/> XG-5800-7 | <input type="checkbox"/> XG-5800-7 AS | <input type="checkbox"/> XG-5800-7 AL | Concealed T-Bar |
| <input type="checkbox"/> XG-5800-9 | <input type="checkbox"/> XG-5800-9 AS | <input type="checkbox"/> XG-5800-9 AL | Bolt Slot / Donn Fineline (USG) Ceiling Grid |

- Models: XG-5800-7 (Steel - Lay in T-Bar - 24 x 24)
 XG-5800-7 AS (Aluminized Steel - Lay in T-Bar - 24 x 24)
 XG-5800-7 AL (Aluminum) - Lay in T-Bar - 24 x 24)



- Models: XG-5800-9 (Steel - Bolt Slot / Donn Fineline - 24 x 24)
 XG-5800-9 AS (Aluminized Steel - Bolt Slot / Donn Fineline - 24 x 24)
 XG-5800-9 AL (Aluminum - Bolt Slot / Donn Fineline - 24 x 24)



Notes: (check if provided)

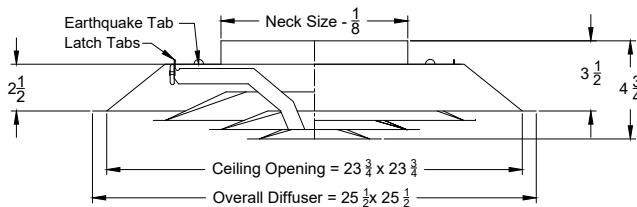
1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
Standard Finish: <input type="checkbox"/> 01 White Optional Finish (extra charge): <input type="checkbox"/> 02 Satin Silver <input type="checkbox"/> 03 Black <input type="checkbox"/> 28 Custom Color / Setup charge	Accessories Shipped Unattached <input type="checkbox"/> XG-G3 - Equalizing Grid <input type="checkbox"/> XG-BDS - Butterfly Damper <input type="checkbox"/> XG-RSD - Radial Shutter Damper <input type="checkbox"/> XG-BAF - Directional Baffles Accessories Shipped Factory Installed <input type="checkbox"/> XG-FGBP - Factory Installed R6 Insulation on Select Sizes and Models		<ul style="list-style-type: none"> • Available Sizes Only as Listed • Available Neck Sizes as Listed

MODEL XG-5800A

Square Face Diffusers - Adjustable 3 Cone - Round Neck

Models: Steel Aluminized Steel Aluminum
 XG-5800A-1 XG-5800A-1AS XG-5800A-1 AL Surface Mount
 XG-5800A-6 XG-5800A-6 AS XG-5800A-6 AL Lay in T-Bar

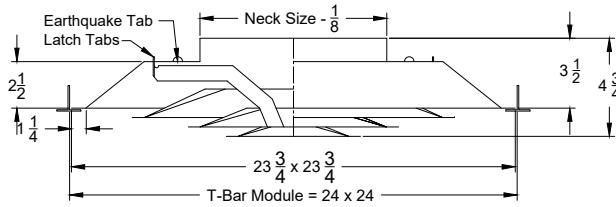
Models: XG-5800A-1 (Steel - Surface Mount)
 XG-5800A-1 AS (Aluminized Steel - Surface Mount)
 XG-5800A-1 AL (Aluminum - Surface Mount)



For surface mount installations, use of plaster frame is recommended.

Available Neck Sizes 6, 8, 10, 12, 14, 15

Models: XG-5800A-6 (Steel - Lay in T-Bar)
 XG-5800A-6 AS (Aluminized Steel - Lay in T-Bar)
 XG-5800A-6 AL (Aluminum - Lay in T-Bar)



Available Neck Sizes 6, 8, 10, 12, 14, 15

Notes: (check if provided)

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
Standard Finish: <input type="checkbox"/> 01 White Optional Finish (extra charge): <input type="checkbox"/> 02 Satin Silver <input type="checkbox"/> 03 Black <input type="checkbox"/> 28 Custom Color / Setup charge	Accessories Shipped Unattached <input type="checkbox"/> XG-G3 - Equalizing Grid <input type="checkbox"/> XG-BDS - Butterfly Damper <input type="checkbox"/> XG-RSD - Radial Shutter Damper <input type="checkbox"/> XG-BAF - Directional Baffles Accessories Shipped Factory Installed <input type="checkbox"/> XG-FGBP - Factory Installed R6 Insulation on Select Sizes and Models		<ul style="list-style-type: none"> • Available Sizes Only as Listed • Available Neck Sizes: 6, 8, 10, 12, 14 and 15

SERIES XG-5800 PERFORMANCE DATA
MODEL XG-5800/XG-5800A

Listed Size	Neck Size	fpm Vn	400	500	600	700	800	900	1000	1200	1400	1600
		Pv	0.01	0.016	0.022	0.031	0.04	0.05	0.062	0.09	0.122	0.249
12 x 12	6	CFM	80	100	120	135	155	175	195	235	275	315
		Ps	.026	.040	.058	.073	.097	.123	.153	.223	.305	.400
		Pt	.036	.056	.080	.104	.137	.174	.216	.312	.427	.559
		Throw*	3-4-6	3-5-7	4-5-7	4-6-8	5-6-8	5-6-9	5-7-9	6-7-10	6-8-11	7-9-12
		Throw	2-4-6	3-5-7	4-5-7	4-6-8	5-6-8	5-6-9	5-7-9	6-7-10	6-8-11	7-9-12
		NC	-	<15	18	21	24	26	29	33	35	37
	8	CFM	140	175	210	245	280	315	350	420	490	560
		Ps	.026	.041	.059	.080	.104	.132	.163	.235	.319	.417
		Pt	.036	.056	.081	.110	.144	.182	.225	.324	.442	.577
		Throw*	3-5-8	4-6-9	5-7-10	6-8-11	7-8-11	7-9-12	7-9-13	8-10-14	9-11-15	9-11-16
		Throw	3-5-8	4-6-9	5-7-10	6-8-11	6-8-11	7-9-12	7-9-13	8-10-14	9-11-15	9-11-16
		NC	-	<15	19	22	25	28	30	34	37	40
24 x 24	6	CFM	80	100	120	135	155	175	195	235	275	315
		Ps	.013	.020	.029	.037	.048	.061	.076	.111	.152	.199
		Pt	.023	.036	.051	.067	.088	.112	.139	.201	.274	.359
		Throw*	3-4-5	3-4-6	4-5-7	4-5-7	4-5-7	5-6-8	5-6-8	5-6-9	6-7-10	6-7-11
		Throw	3-4-7	3-5-8	4-6-9	5-7-10	5-7-10	6-8-11	7-8-11	7-9-13	8-10-14	8-10-15
		NC	-	-	-	<15	<15	18	21	25	28	31
	8	CFM	140	175	210	245	280	315	350	420	490	560
		Ps	.014	.022	.032	.043	.056	.071	.088	.126	.172	.225
		Pt	.024	.038	.054	.074	.096	.122	.150	.216	.294	.384
		Throw*	4-5-7	5-6-8	5-6-9	5-7-9	6-7-10	6-7-11	6-8-11	7-9-12	8-9-13	8-10-14
		Throw	4-5-10	4-7-11	5-8-12	6-9-13	7-10-14	8-10-15	9-11-15	10-12-17	10-13-18	11-14-19
		NC	-	-	-	<15	17	21	24	30	34	35
	10	CFM	220	275	325	380	435	490	545	655	765	875
		Ps	.018	.028	.039	.053	.070	.088	.109	.158	.215	.282
		Pt	.028	.043	.061	.084	.110	.139	.172	.248	.337	.441
		Throw*	5-6-9	6-7-10	6-8-11	7-8-12	7-9-12	8-9-13	8-10-14	9-11-15	9-12-16	10-12-18
		Throw	4-7-12	6-8-14	7-10-15	8-11-16	9-12-17	10-13-18	11-14-19	12-15-21	13-16-23	14-17-24
		NC	-	-	-	<15	19	23	27	33	38	40
	12	CFM	315	395	470	550	630	705	785	940	1100	1255
		Ps	.022	.035	.049	.067	.088	.111	.137	.197	.270	.351
		Pt	.032	.050	.072	.098	.128	.161	.200	.287	.392	.511
		Throw*	6-7-11	7-8-12	7-9-13	8-10-14	9-11-15	9-11-16	10-12-17	11-13-18	11-14-20	12-15-21
		Throw	5-8-15	7-10-16	8-12-18	9-14-19	11-15-21	12-15-22	13-16-23	15-18-25	16-19-27	17-21-29
		NC	-	-	<15	16	21	26	30	36	41	43
	14	CFM	430	535	640	750	855	960	1070	1285	1495	1710
		Ps	.032	.049	.071	.097	.126	.159	.198	.285	.386	.505
		Pt	.042	.065	.093	.128	.166	.210	.260	.375	.508	.665
		Throw*	7-9-12	8-10-14	9-11-15	9-12-16	10-12-17	11-13-18	11-14-19	12-15-21	13-16-23	14-17-25
		Throw	6-9-17	8-12-19	9-14-21	11-16-22	12-17-24	14-18-25	15-19-27	17-21-29	18-22-32	20-24-34
		NC	-	-	<15	17	22	27	32	39	44	47
	15	CFM	490	615	735	860	980	1105	1225	1475	1720	1965
		Ps	.036	.056	.080	.109	.142	.181	.222	.322	.438	.571
		Pt	.046	.072	.102	.140	.182	.231	.284	.412	.560	.731
		Throw*	7-9-13	9-10-15	9-11-16	10-12-17	11-13-19	11-14-20	12-15-21	13-16-23	14-17-25	15-19-26
		Throw	7-10-18	8-12-20	10-15-22	12-17-24	13-18-26	15-19-27	17-20-29	18-22-32	20-24-34	21-26-36
		NC	-	-	<15	18	23	29	33	41	46	49

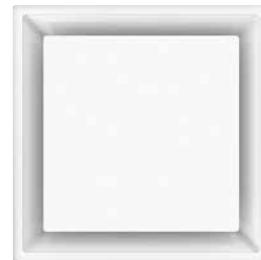
PERFORMANCE NOTES FOR SERIES XG-5800

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM	Cubic Feet per Minute (air)
fpm	Velocity of air stream in Feet per Minute
Pv	Velocity pressure (inches of water column)
Pt	Total pressure (inches of water column)
Ps	Static pressure = Pt-Pv (inches of water column)
Throw*	Non-isothermal horizontal throw (supply air temperature 15°F colder than average room temperature); values are for 150, 100 and 50fpm velocities
Throw	Isothermal throw (supply air temperature the same as average room temperature); values are for 150, 100 and 50fpm velocities
NC	Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10 ⁻¹² watts minus a 10dB room attenuation in all octave bands
Vn	Neck Velocity

MODEL XG-5750



Square Face Plaque Diffuser with Round Neck

XG-5750-1 - Surface Mount

XG-5750-6 - T-bar Lay-in

XG-5750-7 - Concealed Spline

XG-5750-9 - Donn Fineline Lay-in

Air inlets shall be model XG-5750 manufactured by GREENHECK and shall be constructed of steel.

Air inlets shall be model XG-5750 AS manufactured by GREENHECK and shall be constructed of aluminized steel. Air inlets shall be model XG-5750 AL manufactured by GREENHECK and shall be constructed of aluminum.

Units shall be square with a formed backpan and a flat face panel. Face panel shall project no more than 1/4" below the ceiling grid or surface. Outlet shall have the same appearance from the face regardless of inlet size. The units shall be the size and quantity as outlined in the plans and specifications.

Inlets shall be drawn into the backpan of the diffuser. Welded inlets are not acceptable. Diffusers shall include seismic tabs drawn into the backpan. Face panel shall be removable without the aid of tools to access optional damper and if needed for installation. Units requiring tools to remove the face panel are not acceptable.

Units shall be designed to integrate into the specified ceiling system.

Optional Dampers and Accessories

Butterfly Damper

GREENHECK model XG-BDS aluminum, round butterfly type dampers shall be provided. Damper shall consist of two butterfly style blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Radial Shutter Damper

GREENHECK model XG-RSD steel round radial shutter damper shall be provided. Damper shall consist of gang operated radial blades that slide perpendicular to air flow direction. The damper shall be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Opposed Blade Damper

GREENHECK model XG-D3 aluminum or XG-SD3 Steel round opposed blade type dampers shall be provided. Damper shall consist of gang operated blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Equalizing Grid

GREENHECK model XG-G3 aluminum, round equalizing grid shall be provided. Equalizing grid shall consist of 1/2" x 1/2" x 1/2" aluminum cubed core mounting in an aluminum frame.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

Paint Specification

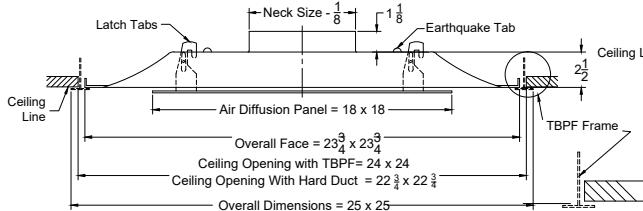
Process shall be anodic electrodeposition using an anodic acrylic paint. Units shall undergo pre-treatment including a pressurized spray stage using an alkaline cleaner and a de-ionized water rinse.

MODEL XG-5750

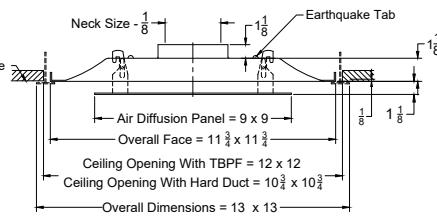
Square Face Diffusers Round Neck - Uni-Flow Panel Face

Models: Steel Aluminized Steel Aluminum
 XG-5750-1 XG-5750-1 AS XG-5750-1 AL Surface Mount
 XG-5750-6 XG-5750-6 AS XG-5750-6 AL Lay in T-Bar

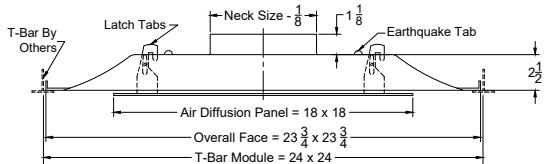
Models: XG-5750-1 (Steel - Surface Mount - 24 x 24)
 XG-5750-1 AS (Aluminized Steel - Surface Mount - 24 x 24)
 XG-5750-1 AL (Aluminum - Surface Mount - 24 x 24)



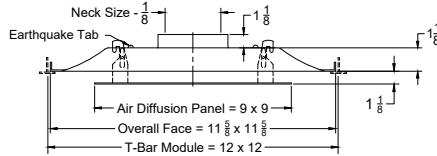
Models: XG-5750-1 (Steel - Surface Mount - 12 x 12)
 XG-5750-1 AS (Aluminized Steel - Surface Mount - 12 x 12)
 XG-5750-1 AL (Aluminum - Surface Mount - 12 x 12)



Models: XG-5750-6 (Steel - Lay In T-Bar - 24 x 24)
 XG-5750-6 AS (Aluminized Steel - Lay In T-Bar - 24 x 24)
 XG-5750-6 AL (Aluminum - Lay In T-Bar - 24 x 24)



Models: XG-5750-6 (Steel - Lay In T-Bar - 12 x 12)
 XG-5750-6 AS (Aluminized Steel - Lay In T-Bar - 12 x 12)
 XG-5750-6 AL (Aluminum - Lay In T-Bar - 12 x 12)

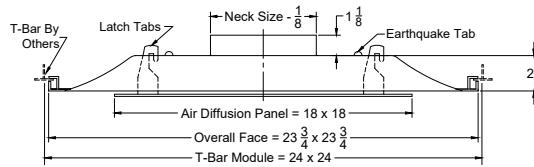


MODEL XG-5750

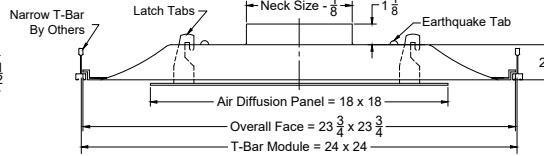
Square Face Diffusers Round Neck - Uni-Flow Panel Face

Models:	Steel	Aluminized Steel	Aluminum	
	<input type="checkbox"/> XG-5750-7	<input type="checkbox"/> XG-5750-7 AS	<input type="checkbox"/> XG-5750-7 ALLL	Concealed T-Bar
	<input type="checkbox"/> XG-5750-9	<input type="checkbox"/> XG-5750-9 AS	<input type="checkbox"/> XG-5750-9 ALLL	Donn (USG) Ceiling Grid
	<input type="checkbox"/> XG-5750-6P	<input type="checkbox"/> XG-5750-6P AS	<input type="checkbox"/> XG-5750-6P ALL	Lay In T-Bar Panel (20x20, 24x24 & 30x30)

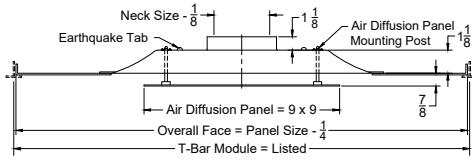
Models: XG-5750-7 (Steel - Concealed T-Bar - 24 x 24)
 XG-5750-7 AS (Aluminized Steel - Concealed T-Bar - 24 x 24)
 XG-5750-7 AL (Aluminum - Concealed T-Bar - 24 x 24)



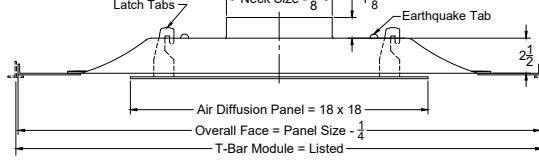
Models: XG-5750-9 (Steel - Donn Ceiling Grid - 24 x 24)
 XG-5750-9 AS (Aluminized Steel - Donn Ceiling Grid - 24 x 24)
 XG-5750-9 AL (Aluminum - Donn Ceiling Grid - 24 x 24)



Models: XG-5750-6P (Steel - Lay In T-Bar Panel - 20x20, 24x24)
 XG-5750-6P AS (Aluminized Steel - Lay In T-Bar Panel - 20x20, 24x24)
 XG-5750-6P AL (Aluminum - Lay In T-Bar Panel - 20x20, 24x24)



Models: XG-5750-6P (Steel - Lay In T-Bar Panel - 30x30)
 XG-5750-6P AS (Aluminized Steel - Lay In T-Bar Panel - 30x30)
 XG-5750-6P AL (Aluminum - Lay In T-Bar Panel - 30x30)



Notes: (check if provided)

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
Standard Finish: <input type="checkbox"/> 01 White. Optional Finishes (additional charge): <input type="checkbox"/> 02 Satin Silver <input type="checkbox"/> 03 Black. <input type="checkbox"/> 28 Custom Color.	<input type="checkbox"/> XG-G3 - Equalizing Grid. <input type="checkbox"/> XG-BDS - Butterfly Damper. <input type="checkbox"/> XG-RSD - Radial Shutter Damper. <input type="checkbox"/> XG-BAF - Directional Baffles. <input type="checkbox"/> XG-BO - Blank off for 5750 <input type="checkbox"/> XG-FGB - Factory Installed R6 Insulation On Select Sizes And Models. Note: All Accessories Shipped Unattached.	TBPF - T - Bar Plaster Frame	<ul style="list-style-type: none"> • Sizes only as listed. • Available Neck Sizes: 6 and 8 for 12 x 12 Module, 6, 8 ,10, 12, 14 and 15 for 24 x 24 Module.

SERIES XG-5750 PERFORMANCE DATA
MODEL XG-5750

Listed Size	Neck Size	fpm Vn	400	500	600	700	800	900	1000	1200	1400	1600
		Pv	.01	.016	.022	.031	.04	.05	.062	.09	.122	.249
12x12	6	CFM	80	100	120	135	155	175	195	235	275	315
		Ps	.009	.014	.021	.024	.032	.041	.051	.075	.104	.137
		Pt	.019	.030	.043	.054	.072	.092	.114	.165	.226	.297
		Throw*	3-4-7	3-5-7	4-6-8	4-6-9	5-6-9	6-7-10	6-7-10	6-8-11	7-9-12	8-9-13
		Throw	3-4-7	4-5-7	4-6-8	5-6-9	5-7-9	6-7-10	6-7-10	7-8-11	7-9-12	8-9-13
		NC	<15	<15	<15	16	18	21	23	27	31	34
	8	CFM	140	175	210	245	280	315	350	420	490	560
		Ps	.017	.027	.039	.053	.069	.087	.108	.155	.212	.276
		Pt	.027	.043	.061	.083	.109	.138	.170	.245	.334	.436
		Throw*	3-5-9	4-7-10	5-8-11	6-8-11	7-9-12	8-9-13	8-10-14	9-11-15	9-11-16	10-12-17
		Throw	4-6-9	5-7-10	6-8-11	7-8-12	7-9-13	8-9-13	8-10-14	9-11-15	10-12-17	10-13-18
		NC	<15	<15	17	20	22	25	27	31	34	37
24x24	6	CFM	80	100	120	135	155	175	195	235	275	315
		Ps	.003	.004	.006	.006	.008	.011	.014	.021	.029	.039
		Pt	.013	.020	.029	.036	.048	.061	.076	.110	.151	.198
		Throw*	0-1-4	1-2-6	1-2-7	1-3-8	2-4-8	2-5-9	3-5-9	4-7-10	5-8-11	6-9-12
		Throw	1-2-5	1-3-6	2-4-7	2-4-8	3-5-9	4-5-9	4-6-10	5-7-11	6-8-12	6-9-13
		NC	<15	<15	<15	<15	15	18	21	26	31	35
	8	CFM	140	175	210	245	280	315	350	420	490	560
		Ps	.007	.012	.017	.023	.030	.038	.047	.067	.091	.119
		Pt	.017	.027	.039	.053	.070	.088	.109	.157	.213	.279
		Throw*	1-1-6	1-2-7	1-3-9	2-4-10	3-6-11	3-7-12	4-7-13	6-9-14	7-10-15	8-11-16
		Throw	1-2-6	2-4-8	2-5-10	3-6-11	4-6-12	5-7-13	5-8-13	6-10-14	7-11-16	9-12-17
		NC	<15	<15	<15	17	21	25	28	34	39	42
	10	CFM	220	275	325	380	435	490	545	655	765	875
		Ps	.016	.025	.034	.047	.061	.078	.096	.139	.190	.249
		Pt	.026	.040	.056	.077	.101	.128	.159	.229	.313	.409
		Throw*	1-2-7	1-3-9	2-4-11	2-5-13	3-7-14	4-8-15	5-9-16	7-11-17	9-13-19	10-14-20
		Throw	1-3-8	2-5-10	3-6-12	4-7-14	5-8-15	6-9-16	7-10-17	8-12-18	9-14-20	11-15-21
		NC	<15	15	15	21	26	30	33	37	41	43

SERIES XG-5750 PERFORMANCE DATA

MODEL XG-5750

Listed Size	Neck Size	fpm Vn	400	500	600	700	800	900	1000	1200	1400	1600
		Pv	0.01	0.016	0.022	0.031	0.04	0.05	0.062	0.09	0.122	0.249
24 x 24	12	CFM	315	395	470	550	630	705	785	940	1100	1255
		Ps	.027	.042	.059	.081	.107	.133	.165	.236	.324	.422
		Pt	.037	.058	.082	.112	.146	.183	.227	.326	.446	.581
		Throw*	1-2-9	1-3-11	2-5-13	3-7-15	4-9-17	5-10-18	6-11-19	8-13-21	10-15-23	12-17-24
		Throw	2-4-10	2-6-12	4-7-14	5-8-17	6-10-18	7-11-19	8-12-20	10-14-22	11-17-23	13-18-25
		NC	<15	<15	17	22	27	30	33	38	42	45
24 x 24	14	CFM	430	535	640	750	855	960	1070	1285	1495	1710
		Ps	.031	.049	.069	.095	.124	.156	.194	.280	.378	.495
		Pt	.041	.064	.092	.126	.164	.206	.256	.370	.501	.655
		Throw*	1-3-10	2-4-13	2-6-15	3-8-18	4-10-20	6-12-21	7-13-22	10-15-24	12-18-26	14-20-28
		Throw	2-4-11	3-6-14	4-8-17	6-10-19	7-11-21	8-13-22	9-14-23	11-17-25	13-19-27	15-21-29
		NC	<15	<15	20	25	30	33	36	40	43	46
24 x 24	15	CFM	490	615	735	860	980	1105	1225	1475	1720	1965
		Ps	.038	.060	.086	.117	.152	.194	.238	.345	.469	.613
		Pt	.048	.076	.108	.148	.192	.244	.300	.435	.592	.772
		Throw*	1-3-11	2-4-14	3-6-16	4-8-19	5-11-21	6-12-23	7-14-24	11-17-26	13-19-28	15-21-30
		Throw	2-4-12	3-7-15	4-9-18	6-10-21	8-12-22	9-13-24	10-15-25	12-18-27	14-21-29	16-22-31
		NC	<15	<15	20	27	32	35	37	41	44	47

PERFORMANCE NOTES FOR SERIES XG-5750

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

fpm Velocity of air stream in Feet per Minute

Pv Velocity pressure (inches of water column)

Pt Total pressure (inches of water column)

Ps Static pressure = Pt-Pv (inches of water column)

Throw* Non-isothermal horizontal throw (supply air temperature 15°F colder than average room temperature); values are for 150, 100 and 50fpm velocities

Throw Isothermal throw (supply air temperature the same as average room temperature); values are for 150, 100 and 50fpm velocities

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10⁻¹² watts minus a 10dB room attenuation in all octave bands

Vn Neck Velocity

MODEL **XG-Phenomenator**

Air Outlets shall be model:

XG-Phenom-1 - Surface Mount

XG-Phenom-6 - T-bar Lay-in

XG-Phenom-7 - Concealed Spline

XG-Phenom-9 - Donn Fineline Lay-in



XG-Phenom manufactured by GREENHECK. Units shall be constructed of steel.

XG-Phenom AS manufactured by GREENHECK. Units shall be constructed of aluminized steel.

Units shall be square with a formed backpan, flat panel face, and a high induction inner high induction core assembly. The face panel of the outlet shall project no more than 1/4" below the ceiling grid. The units shall be the size and quantity as outline in the plans and specifications.

Inlets shall be drawn into the backpan of the diffuser. Welded inlets are not acceptable. Diffusers shall include seismic tabs drawn into the backpan.

Face panel shall be held in place with hooks are secured through the backpan and be removable without the aid of tools. Units with face panels held in place with springs or clips are not acceptable.

Inner core assembly shall be steel and include a gasket between the core and the backpan.

The high induction core assembly shall produce a four way discharge pattern through a series of nozzles to maximize induction and comfort. ADPI for the diffuser shall be a minimum of 97 in typical applications.

Units shall be designed to integrate into the specified ceiling system.

Paint Specification

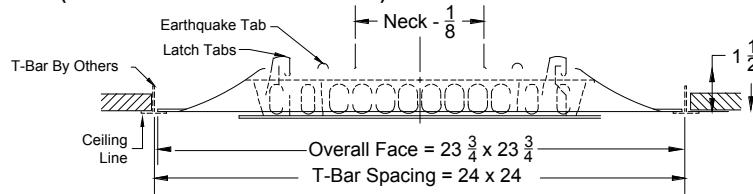
Process shall be anodic electrodeposition using an anodic acrylic paint. Units shall undergo pre-treatment including a pressurized spray stage using an alkaline cleaner and a de-ionized water rinse.

MODEL XG-Phenomenator

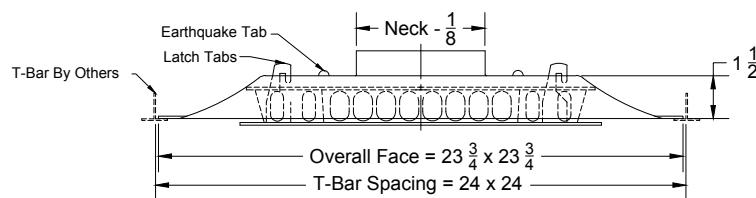
Ultra High Performance

Models:	Steel	Aluminized Steel	
	XG-Phenom-1	XG-Phenom-1 AS	Surface Mount
	XG-Phenom-6	XG-Phenom-6 AS	T-Bar Lay in
	XG-Phenom-7	XG-Phenom-7 AS	Concealed T-Bar
	XG-Phenom-9	XG-Phenom-9 AS	Donn (USG) Ceiling Grid

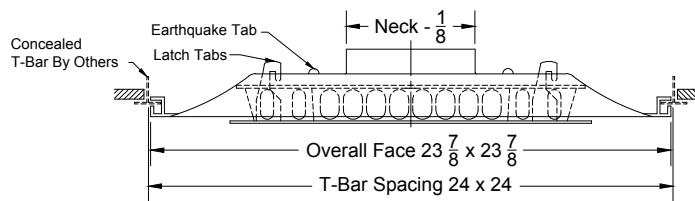
- Models: XG-Phenom-1 (Steel - Surface Mount)
 XG-Phenom-1 AS (Aluminized Steel - Surface Mount)



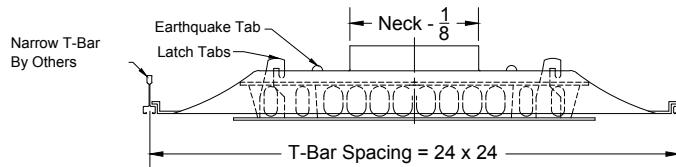
- Models: XG-Phenom-6 (Steel - T-Bar Lay in)
 XG-Phenom-6 AS (Aluminized Steel - T-Bar Lay in)



- Models: XG-Phenom-7 (Steel - Concealed T-Bar)
 XG-Phenom-7 AS (Aluminized Steel - Concealed T-Bar)



- Models: XG-Phenom-9 (Steel - Donn Ceiling Grid)
 XG-Phenom-9 AS (Aluminized Steel - Donn Ceiling Grid)



Notes: (check if provided)

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
Standard Finish: <input type="checkbox"/> 01 White. Optional Finishes (additional charge): <input type="checkbox"/> 02 Satin Silver <input type="checkbox"/> 03 Black. <input type="checkbox"/> 28 Custom Color / Set-up	<input type="checkbox"/> XG-BDS - Butterfly Damper. <input type="checkbox"/> XG-RSD - Radial Shutter Damper. <input type="checkbox"/> XG-BO - Blank off for XG-5750 Note: All Accessories Shipped Unattached.		<ul style="list-style-type: none"> • Sizes only as listed.

XG-PHENOMENATOR MODEL NUMBER SPECIFICATION
SQUARE FACE DIFFUSER — PLAQUE FACE — HIGH PERFORMANCE

Model		Neck Size	Module	Available Finishes	
XG-Phenom-1	Surface Mount - Steel	6 8 10 12 14 15	24 x 24	Standard Finish	
XG-Phenom-1 AS	Surface Mount - Aluminized Steel			01	White
XG-Phenom-1 AL	Surface Mount - Aluminum			Optional Finishes	
				02	Satin Silver
				03	Black
				28	Custom Color

Available Accessories	
XG-G3	Equalizing Grid
XG-BDS	Butterfly Damper
XG-RSD	Radial Damper
XG-BO-1	3-Way Blank Off
XG-BO-2	2-Way Blank Off
XG-BO-3	1-Way Blank Off
XG-LIPF	Lay-in Plaster Frame

XG-PHENOMENATOR MODEL NUMBER SPECIFICATION
SQUARE FACE DIFFUSER — PLAQUE FACE

Model		Neck Size	Module	Available Finishes	
XG-Phenom-6	T-bar Lay-in - Steel	6	24 x 24	Standard Finish	
XG-Phenom-6 AS	T-bar Lay-in - Aluminized Steel	8		01	White
XG-Phenom AL	T-bar Lay-in - Aluminum	10		Optional Finishes	
XG-Phenom-7	Concealed Spline - Steel	12		02	Satin Silver
XG-Phenom-7 AS	Concealed Spline - Aluminized Steel	14		03	Black
XG-Phenom-9	Donn Fineline / Bolt Slot - Steel	15		28	Custom Color
XG-Phenom-9 AS	Donn Fineline / Bolt Slot - Aluminized Steel				

Available Accessories	
XG-G3	Equalizing Grid
XG-BDS	Butterfly Damper
XG-RSD	Radial Damper
XG-BO-1	3-Way Blank Off
XG-BO-2	2-Way Blank Off
XG-BO-3	1-Way Blank Off
XG-TBPF	T-Bar Plaster Frame (-6 Only)

Model		Neck Size	Module	Available Finishes	
MXG-Phenom-6	Metric T-bar Lay-in - Steel	6	600mm x 600mm	Standard Finish	
MXG-Phenom-6 AS	Metric T-bar Lay-in - Aluminized Steel	8		01	White
		10		Optional Finishes	
		12		02	Satin Silver
		14		03	Black
		15		28	Custom Color

Available Accessories	
XG-G3	Equalizing Grid
XG-BDS	Butterfly Damper
XG-RSD	Radial Damper
XG-BO-1	3-Way Blank Off
XG-BO-2	2-Way Blank Off
XG-BO-3	1-Way Blank Off
XG-TBPF	T-Bar Plaster Frame

SERIES XG-PHENOMENATOR PERFORMANCE DATA
MODEL XG-PHENOMENATOR

Nominal Neck Size	fpm Vn	400	500	600	700	800	900	1000	1200
	Pv	0.01	0.016	0.022	0.031	0.04	0.05	0.062	0.09
6	CFM	-	-	120	135	155	175	195	215
	Ps	-	-	.020	.026	.034	.044	.054	.066
	Pt	-	-	.042	.057	.074	.094	.116	.141
	Throw*	-	-	1-1-2	1-2-3	2-2-4	2-3-5	3-4-6	3-5-7
	Throw	-	-	1-1-1	1-1-2	1-1-3	1-2-4	2-3-5	3-4-6
	NC	-	-	<20	20	21	24	26	29
8	CFM	140	175	210	245	280	315	350	385
	Ps	.020	.031	.045	.061	.080	.101	.125	.152
	Pt	.030	.047	.067	.092	.114	.151	.187	.218
	Throw*	1-2-3	2-3-5	2-5-6	3-6-7	4-6-8	57-10	6-8-12	7-9-13
	Throw	1-1-2	1-2-4	1-4-5	2-5-6	3-5-7	4-6-9	5-7-10	6-7-11
	NC	<20	21	25	29	32	35	37	40
10	CFM	220	275	325	380	435	490	545	600
	Ps	.036	.080	.090	.108	.142	.180	.223	.27
	Pt	.046	.096	.110	.139	.182	300	.285	.345
	Throw*	4-6-9	6-8-10	7-9-12	8-10-13	8-10-14	9-12-16	11-14-17	12-15-18
	Throw	3-5-7	5-7-9	5-8-11	6-9-12	7-9-13	8-11-15	10-13-15	11-13-17
	NC	20	24	27	31	35	38	41	44
12	CFM	315	395	470	550	630	705	785	870
	Ps	.061	.096	.136	.186	.24	.306	.38	.423
	Pt	.071	.112	.156	.217	.28	.356	.442	.495
	Throw*	4-7-11	7-10-13	9-11-14	11-13-16	13-15-18	15-18-20	16-20-22	18-21-24
	Throw	3-6-10	6-9-12	7-10-13	9-11-14	11-14-16	12-15-18	13-17-20	15-19-22
	NC	22	27	32	36	40	43	46	52
14	CFM	430	535	640	750	860	975	1095	1220
	Ps	.089	.138	.166	.271	.284	.293	.306	.336
	Pt	.099	.154	.188	.297	.318	.343	.360	.441
	Throw*	9-10-13	11-14-15	13-15-18	14-17-21	16-19-23	17-21-25	19-23-27	23-26-29
	Throw	6-7-11	7-11-13	11-14-15	12-15-17	16-18-20	18-20-22	20-22-24	21-23-26
	NC	30	35	40	44	50	56	62	68
15	CFM	490	615	735	875	1020	1165	-	-
	Ps	.112	.177	.253	.337	.355	.364	-	-
	Pt	.122	.193	.275	.368	.395	.414	-	-
	Throw*	10-12-14	13-15-17	13-16-20	16-19-22	19-21-25	21-23-27	-	-
	Throw	8-10-12	10-12-14	11-14-17	12-16-19	15-19-22	17-21-23	-	-
	NC	33	39	44	50	56	62	-	-

PERFORMANCE NOTES FOR SERIES XG-PHENOMENATOR

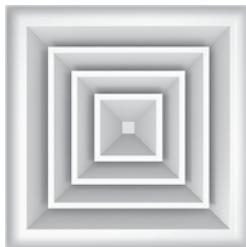
All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM	Cubic Feet per Minute (air)
fpm	Velocity of air stream in Feet per Minute
Pv	Velocity pressure (inches of water column)
Pt	Total pressure (inches of water column)
Ps	Static pressure = Pt-Pv (inches of water column)
Throw*	Non-isothermal horizontal throw (supply air temperature 15°F colder than average room temperature); values are for 150, 100 and 50fpm velocities
Throw	Isothermal throw (supply air temperature the same as average room temperature); values are for 150, 100 and 50fpm velocities
NC	Noise criterion, sound pressure level NC ratings are based on sound power level (L_w) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands
Vn	Neck Velocity

LOUVERED FACE DIFFUSERS

MODEL XG-5000



MODELS XG-5500 & XG-5000S



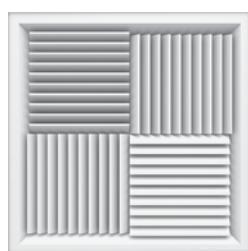
MODEL XG-5200



MODEL XG-5500DD



MODEL XG-9000



Model XG-5000 deflector blades are straight and do not include a horizontal lip, which makes it an excellent choice for high capacity applications. The high induction feature ensures draft free conditions in high ceiling applications.

PAGE 28

Models XG-5500 and XG-5500S incorporate a horizontal lip to create a high induction rate for rapid mixing of room air and primary air. The high induction feature ensures draft free conditions in low ceiling applications.

PAGE 48

Model XG-5500DD is designed to allow an optional ceiling tile (by others) to be installed from the face of the diffuser without having to remove the plenum. The unique horizontal lip on all sides of the diffuser face provides a horizontal air pattern that is tight to the ceiling.

PAGE 60

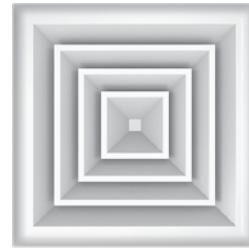
Model XG-5200 is designed for industrial, commercial and light commercial applications requiring only square diffuser sizes up to 24" x 24".

PAGE 65

Model XG-9000 is a modular adjustable air diffuser engineered for supply air distribution. It is designed for ceiling installation and can be adjusted quickly and easily by rearranging the air pattern cores.

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MODEL XG-5000



XG-5000-1 – Surface Mount

XG-5000-4 – Drop Face

XG-5000-46 – Drop Face – T-Bar Lay-in

XG-5000-6 – T-bar Lay-in

XG-5000-7 – Concealed Spline

XG-5000-8 – Tegular Lay-in

XG-5000-9 – Donn Fineline

Air Outlets shall be aluminum model XG-5000 manufactured by GREENHECK. Units shall consist of a fixed pattern louvered core fastened into a border with spring loaded latches. Core shall be removable without the use of tools. Outlets shall be engineered for high capacity applications and include straight deflector blades (without a horizontal lip). Units with a horizontal lip at the ends of the deflector blades are not acceptable. The units shall be the size and quantity as outlined in the plans and specifications.

Outlets shall be available in 1, 2 way opposite, 2 way corner, 3, and 4 way directional air patterns. Units shall be designed to integrate into the specified ceiling system.

Options

Adjustable Pattern (horizontal to vertical)

Outlets shall include adjustable air pattern deflector blades that allows the air pattern to be set from vertical to horizontal (Optional APD Air Pattern Deflectors). Air pattern deflector blades shall be accessible from the face and the diffuser and adjustable without the use of tools.

IV Induction Vanes

Units shall include IV induction vanes factory mounted onto the back side of the deflector vanes. IV vanes shall increase the induction rate of the diffuser.

Accessories

Optional Dampers

Aluminum XG-D5A or Steel XG-D5 opposed blade dampers shall be provided. Damper shall be adjusted using a handle accessible through the face of the diffuser.

Screwdriver slot operators are not allowed.

Performance Specification

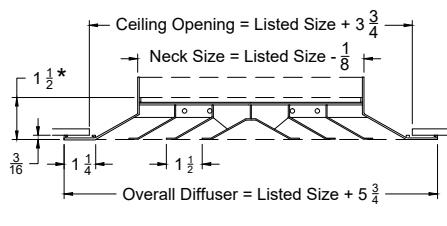
The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006.

MODEL XG-5000

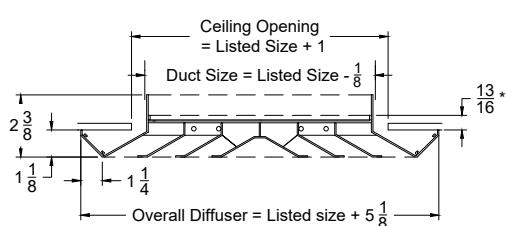
Extruded Aluminum - Removable Core

- Models:
- XG-5500-1** Flush Surface Mounting
 - XG-5500-2** V-Beveled Drop Surface Mounting
 - XG-5500-6** Lay in T-Bar
 - XG-5500-7** Concealed T-Bar

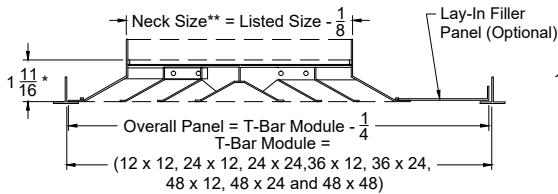
Model: XG-5500-1 (Flush Surface Mounting)



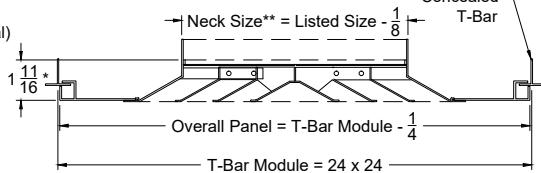
Model: XG-5500-2 (V-Beveled Drop Surface Mounting)



Model: XG-5500-6 (Lay in T-Bar)



Model: XG-5500-7 (Concealed T-Bar)



* Dimension indicates the distance needed for Clearance from the bottom of the duct to the ceiling line and must be maintained for proper fit.

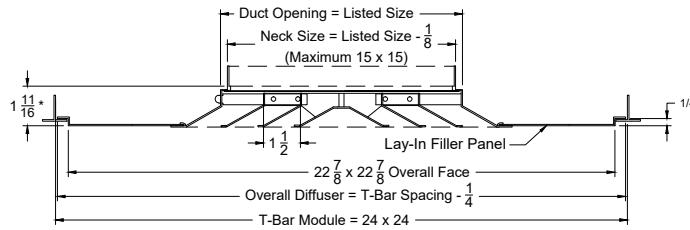
** Filler panel included for neck sizes under 18 x 18 to fit in 24 x 23, 24 x 24 T-bar grid, (6 x 6, 9 x 9, 12 x 12 and 15 x 15 include filler panel).

MODEL XG-5000

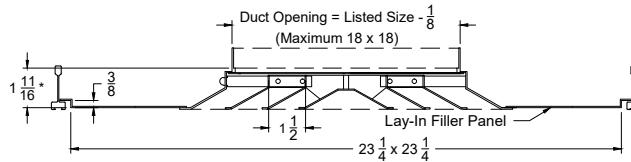
Extruded Aluminum - Removable Core

- Models: XG-5500-8 Tegular T-Bar (24X24 Module)
 XG-5500-9 Bolt Slot / Donn Fineline (24X24 Module)

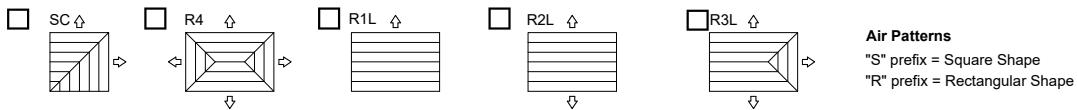
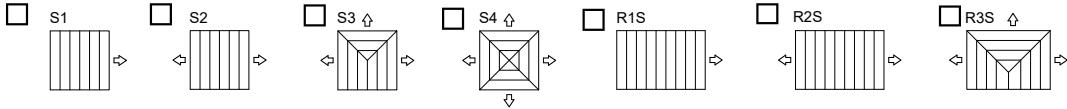
Model: XG-5500-8 (Tegular T-Bar)



Model: XG-5500-9 (Bolt Slot / Donn Fineline)



* Dimension indicates the distance needed for Clearance from the bottom of the duct to the ceiling line and must be maintained for proper fit.



Air Patterns

"S" prefix = Square Shape

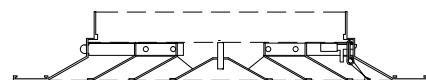
"R" prefix = Rectangular Shape

MODEL XG-5000

Extruded Aluminum - Removable Core

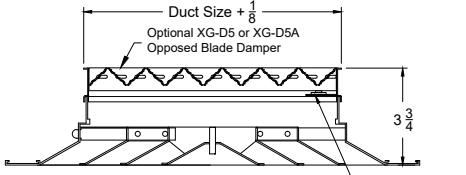
- Option: XG-APD Air Pattern Deflector
 XG-D5 Steel Opposed Blade Damper
 XG-D5A Aluminum Opposed Blade Damper
 XG-IV Induction Vanes

Option: XG-APD Air Pattern Deflector

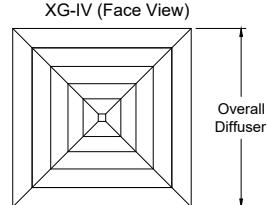
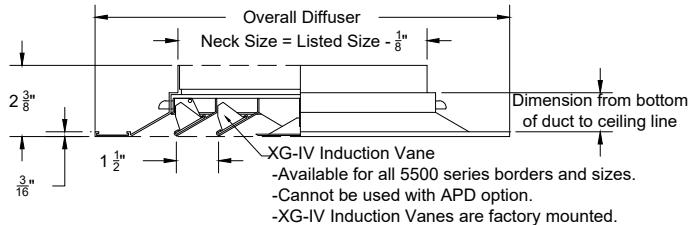


Optional XG-APD Adjustable Pattern Deflector Vane
 - Available for all 5500 series borders and sizes,
 - Cannot be used with XG-IV Induction Vanes option.
 - XG-APDs are factory mounted.

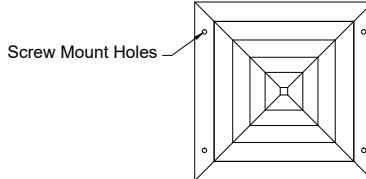
- Option: XG-D5 Steel Opposed Blade Damper.
 XG-D5A Aluminum Opposed Blade Damper.



Option: XG-IV Induction Vanes



XG-FSM (Face Screw Mount)



Notes: (check if provided)

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
<p>Standard Finish:</p> <p><input type="checkbox"/> 01 White</p> <p>Optional Finish (no extra charge):</p> <p><input type="checkbox"/> 24 Mill finish</p> <p>Optional Finish (extra charge):</p> <p><input type="checkbox"/> 02 Satin Silver</p> <p><input type="checkbox"/> 03 Black.</p> <p><input type="checkbox"/> 28 Custom Color / Setup Charge</p> <p>Note: Anodized Finish not available.</p>	<p>Square and Rectangular Neck:</p> <p><input type="checkbox"/> XG-D5 - Steel Opposed Blade Damper</p> <p><input type="checkbox"/> XG-D5A - Aluminum Opposed Blade Damper</p> <p><input type="checkbox"/> XG-L9 - Equalizing Grid</p> <p><input type="checkbox"/> XG-TR - Square to Round</p> <p><input type="checkbox"/> XG-TR - Deep</p> <p>Round Neck:</p> <p><input type="checkbox"/> XG-G3 - Equalizing Grid</p> <p><input type="checkbox"/> XG-BDS - Butterfly Damper</p> <p><input type="checkbox"/> XG-RSD - Radial Shutter Damper</p>	<p>XG-FSM:</p> <p><input type="checkbox"/> Face Screw Mount (-1 only)</p> <p>Factory Mounted:</p> <p><input type="checkbox"/> XG-IV Induction Vanes.</p> <p><input type="checkbox"/> XG-APD Air Pattern Deflectors</p> <p>XG-FGBP - Factory Installed R6</p> <p><input type="checkbox"/> Fiberglass Insulation (24X24 only)</p>	<p>Sizes only as listed.</p> <ul style="list-style-type: none"> Available air patterns: S1, S2, S3, S4, R1S, R1L, R2S, R2L, R3S, R3L, R4 and SC. For 5500-6 (D5) Models Only: 21 x 21 Neck in 24 x 24 Module is available in S4 Pattern only.

XG-5000 MODEL NUMBER SPECIFICATION
LOUVERED FACE CEILING DIFFUSER

Model		Neck												
		6	9	12	15	18	21	24	27	30	33	36	42	45
XG-5000-1	Surface Mount - Extruded Aluminum	6	X											
XG-5000-2	Beveled Drop Surface Mount - Extruded Aluminum	9	X	X										
XG-5000-4	5000-4 Drop Face Surface Mount - Extruded Aluminum	12	X	X	X									
		15	X	X	X	X								
		18	X	X	X	X	X							
		21	X	X	X	X	X	X						
		24	X	X	X	X	X	X	X					
		27	X	X	X	X	X	X	X	X				
		30	X	X	X	X	X	X	X	X	X			
		33	X	X	X	X	X	X	X	X	X	X		
		36	X	X	X	X	X	X	X	X	X	X		
		39	X	X	X	X	X	X	X	X	X	X	X	
		42	X	X	X	X	X	X	X	X	X	X	X	
		45	X	X	X	X	X	X	X	X	X	X	X	X
		48	X	X	X	X	X	X	X	X	X	X	X	X

Air Pattern		Available Accessories			Available Finishes			
Standard		XG-D5			Steel Opposed Blade Damper			
S4	Sq 4-Way	XG-D5A		Aluminum Opposed Blade Damper		01	White	
Optional		XG-L9			Square / Rectangular Equalizing Grid			
S1	Sq 1-Way	XG-TR		Square to Round Transition			02	Satin Silver
S2	Sq 2-Way	XG-TR Deep (Used with Damper)		Deep Square to Round Transition			03	Black
S3	Sq 3-Way	XG-G3		Round Equalizing Grid			24	Mill
SC	Sq 2-Way corner	XG-BDS		Butterfly Damper			28	Custom Color
R1S	Rct 1-Way short	XG-RSD		Radial Shutter Damper				
R1L	Rct 1-Way long							
R2S	Rct 2-Way short	Available Options						
R2L	Rct 2-Way long	IV		Induction Vanes				
R3S	Rct 3-Way short	APD		Air Pattern Deflectors				
R3L	Rct 3-Way long	FSM		Facescrew Mount -1 only				
R4	Rct 4-Way							

XG-5000 MODEL NUMBER SPECIFICATION
LOUVERED FACE CEILING DIFFUSER

Model		Panel	Neck													
				6	9	12	15	18	21	24	27	30	33	36	39	42
XG-5000-6	T-bar Lay-in - Extruded Aluminum	12 x 12	6	X												
			9		X											
XG-5000-6	T-bar Lay-in - Extruded Aluminum	24 x 24	6	X												
XG-5000-7	Concealed Spline - Extruded Aluminum		9	X	X											
XG-5000-8	Tegeular T-bar - Extruded Aluminum		12	X	X	X										
XG-5000-9	Donn Fineline - Extruded Aluminum		15	X	X	X	X									
			18						X							
		36 x 24	21							X						
XG-5000-6	T-bar Lay-in - Extruded Aluminum		6	X												
			9	X	X											
			12	X	X	X										
			15	X	X	X	X									
			18	X	X	X	X									
			21	X	X	X	X									
			24	X	X	X	X									
			27	X	X	X	X									
			30	X	X	X	X									
		48 x 24	33	X	X	X	X									
XG-5000-6	T-bar Lay-in - Extruded Aluminum		6	X												
			9	X	X											
			12	X	X	X										
			15	X	X	X	X									
			18	X	X	X	X									
			21	X	X	X	X									
			24	X	X	X	X									
			27	X	X	X	X									
			30	X	X	X	X									
			33	X	X	X	X									
			36	X	X	X	X									
			39	X	X	X	X									
			42						X							
			45							X						
		48 x 48	6	X												
XG-5000-6	T-bar Lay-in - Extruded Aluminum		9	X	X											
			12	X	X	X										
			15	X	X	X	X									
			18	X	X	X	X	X								
			21	X	X	X	X	X	X							
			24	X	X	X	X	X	X	X						
			27	X	X	X	X	X	X	X	X					
			30	X	X	X	X	X	X	X	X	X				
			33	X	X	X	X	X	X	X	X	X	X			
			36	X	X	X	X	X	X	X	X	X	X	X		
			39	X	X	X	X	X	X	X	X	X	X	X		
			42											X		
			45												X	

XG-5000 MODEL NUMBER SPECIFICATION
LOUVERED FACE CEILING DIFFUSER

Air Pattern		Available Accessories		Available Finishes	
Standard		XG-D5	Steel Opposed Blade Damper	Standard	
S4	Sq 4-Way	XG-D5A	Aluminum Opposed Blade Damper	01	White
Optional		XG-L9	Square / Rectangular Equalizing Grid	Optional	
S1	Sq 1-Way	XG-TR	Square to Round Transition	02	Satin Silver
S2	Sq 2-Way	XG-TR Deep (Used with Damper)	Deep Square to Round Transition	03	Black
S3	Sq 3-Way	XG-G3	Round Equalizing Grid	24	Mill
SC	Sq 2-Way corner	XG-BDS	Butterfly Damper	28	Custom Color
R1S	Rct 1-Way short	XG-RSD	Radial Shutter Damper		
R1L	Rct 1-Way long				
R2S	Rct 2-Way short	Available Options			
R2L	Rct 2-Way long	IV	Induction Vanes		
R3S	Rct 3-Way short	APD	Air Pattern Deflectors		
R3L	Rct 3-Way long				
R4	Rct 4-Way				

SERIES XG-5000 PERFORMANCE DATA/4-WAY SQUARE PATTERN (S4)
MODEL XG-5000

Neck Size		Neck Velocity					
		200	300	400	500	600	700
	Ps	0.006	0.013	0.022	0.035	0.05	0.068
6 x 6	Pt	0.008	0.018	0.032	0.05	0.072	0.099
	Total CFM	50	75	100	125	150	175
	CFM/Side	13	19	25	31	38	44
	Throw	2-4	4-8	7-11	9-13	11-16	13-17
9 x 9	NC	-	-	-	-	20	25
	Total CFM	113	169	225	281	335	394
	CFM/Side	28	42	56	70	84	98
	Throw	3-5	5-9	8-12	10-15	12-17	14-18
12 x 12	NC	-	-	-	21	26	31
	Total CFM	200	300	400	500	600	700
	CFM/Side	50	75	100	125	150	175
	Throw	3-7	6-10	9-14	11-16	13-18	15-20
15 x 15	NC	-	-	-	24	29	34
	Total CFM	313	469	625	781	938	1094
	CFM/Side	78	117	156	195	234	273
	Throw	4-8	7-12	10-15	12-18	15-20	17-22
18 x 18	NC	-	-	21	26	31	36
	Total CFM	450	675	900	1125	1350	1575
	CFM/Side	113	169	225	281	338	394
	Throw	5-10	8-14	11-17	14-20	16-22	18-23
21 x 21	NC	-	-	22	27	32	37
	Total CFM	613	919	1225	1531	1837	2144
	CFM/Side	153	230	306	383	459	536
	Throw	6-12	9-16	12-19	15-21	17-23	19-25
24 x 24	NC	-	-	23	28	33	38
	Total CFM	800	1200	1600	2000	2400	2800
	CFM/Side	200	300	400	5000	600	700
	Throw	7-14	10-17	12-20	16-23	18-25	21-27
27 x 27	NC	-	-	24	29	34	39
	Total CFM	1013	1519	2025	2531	3037	3544
	CFM/Side	253	380	506	633	759	886
	Throw	7-15	11-19	14-22	17-25	20-27	22-28
33 x 33	NC	-	20	25	30	35	4
	Total CFM	1513	2269	3025	3781	4537	5294
	CFM/Side	378	567	756	945	1134	1323
	Throw	9-18	13-22	16-25	19-27	22-30	24-31
	NC	-	21	26	31	36	41

SERIES XG-5000 PERFORMANCE DATA/4-WAY RECTANGULAR PATTERN (R4)
MODEL XG-5000

Neck Size		Neck Velocity											
		200		300		400		500		600		700	
	Ps	.006		.013		.022		.035		.050		.068	
	Pt	.008		.018		.032		.050		.072		.099	
Side Designation	A	B	A	B	A	B	A	B	A	B	A	B	A
6 x 9	Total CFM	75		113		150		185		225		263	
	CFM/Side	13		25	19	38	25	50	31	63	38	75	43
	Throw	2-4		2-5	4-8	5-9	7-11	8-12	9-13	10-14	11-16	12-17	13-17
	NC	-		-	-	-	-	-	-	-	-	-	-
6 x 12	Total CFM	100		150		200		250		300		350	
	CFM/Side	13		38	19	56	25	75	31	94	38	113	44
	Throw	2-4		3-6	4-8	6-10	7-11	8-13	9-13	11-15	11-16	13-17	13-17
	NC	-		-	-	-	-	20		25		30	
9 x 12	Total CFM	150		225		300		375		450		525	
	CFM/Side	28		47	42	70	56	94	70	117	84	141	98
	Throw	3-5		3-7	5-9	6-10	8-12	9-13	10-15	11-16	12-17	13-18	14-18
	NC	-		-	-	-	-	22		27		32	
9 x 15	Total CFM	188		281		375		469		563		656	
	CFM/Side	28		66	42	98	56	131	70	164	84	197	98
	Throw	3-5		4-8	5-9	7-11	8-12	9-14	10-15	12-17	12-17	14-19	14-18
	NC	-		-	-	-	-	23		28		33	
9 x 18	Total CFM	225		338		450		563		675		788	
	CFM/Side	28		84	42	127	56	169	70	211	84	253	98
	Throw	3-5		4-9	5-9	7-12	8-12	10-16	10-15	13-18	12-17	15-20	14-18
	NC	-		-	-	-	-	24		29		34	
9 x 21	Total CFM	263		394		525		656		788		919	
	CFM/Side	28		103	42	155	56	206	70	258	84	309	98
	Throw	3-5		5-10	5-9	8-13	8-12	11-17	10-15	13-19	12-17	16-21	14-18
	NC	-		-	-	20		25		30		35	
12 x 15	Total CFM	250		375		500		625		750		875	
	CFM/Side	50		75	75	113	100	150	125	188	150	225	175
	Throw	3-7		4-8	6-10	7-12	9-14	10-15	11-16	12-18	13-18	14-20	15-20
	NC	-		-	-	20		25		30		35	
12 x 18	Total CFM	300		450		600		750		900		1050	
	CFM/Side	50		100	75	150	100	200	125	250	150	300	175
	Throw	3-7		5-10	6-10	8-13	9-14	11-16	11-16	13-19	13-18	15-21	15-20
	NC	-		-	-	20		25		30		35	

SERIES XG-5000 PERFORMANCE DATA/4-WAY RECTANGULAR PATTERN (R4)
MODEL XG-5000

Neck Size		Neck Velocity												
		200		300		400		500		600		700		
	Ps	.006		.013		.022		.035		.050		.060		
	Pt	.008		.018		.032		.050		.072		.099		
Side Designation	A	B	A	B	A	B	A	B	A	B	A	B	A	B
12 x 21	Total CFM	350		525		700		875		1050		1225		
	CFM/Side	50	125	75	188	100	250	125	313	150	375	175	438	
	Throw	3-7	5-11	6-10	8-14	9-14	11-18	11-16	14-20	13-18	16-22	15-20	18-24	
	NC	-		-		21		26		31		36		
12 x 24	Total CFM	400		600		800		1000		1200		1400		
	CFM/Side	50	150	75	225	100	300	125	375	150	450	175	525	
	Throw	3-7	6-12	6-10	9-15	9-14	12-19	11-16	15-21	13-18	17-23	15-20	1-25	
	NC	-		-		22		27		32		37		
15 x 18	Total CFM	375		563		750		938		1125		1313		
	CFM/Side	78	109	117	164	156	219	195	273	234	328	273	383	
	Throw	4-8	5-10	7-12	8-14	10-15	11-17	12-18	14-19	15-20	16-22	17-22	18-23	
	NC	-		-		21		26		31		36		
15 x 24	Total CFM	500		750		1000		1250		1500		1750		
	CFM/Side	78	172	117	258	156	344	195	430	234	516	273	602	
	Throw	4-8	6-13	7-12	9-16	10-15	13-19	12-18	15-22	15-20	18-24	17-22	20-26	
	NC	-		-		22		27		32		37		
18 x 24	Total CFM	600		900		1200		1500		1800		2100		
	CFM/Side	113	188	160	281	225	375	281	469	338	563	394	656	
	Throw	5-10	6-13	8-14	10-17	11-17	13-20	14-20	16-23	16-22	18-25	18-23	20-26	
	NC	-		-		23		28		33		38		
21 x 33	Total CFM	963		1444		1925		2406		2888		3369		
	CFM/Side	153	328	230	492	306	656	383	820	459	984	536	1148	
	Throw	6-12	8-17	9-16	12-21	12-19	15-24	15-21	18-26	17-23	21-29	19-25	23-30	
	NC	-		20		25		30		35		40		
24 x 30	Total CFM	1000		1500		2000		2500		3000		3500		
	CFM/Side	200	300	300	1500	400	600	500	750	600	900	700	1050	
	Throw	7-14	8-16	10-17	12-20	13-20	15-23	16-23	18-26	18-25	21-28	21-27	23-30	
	NC	-		20		25		30		35		40		

SERIES XG-5000 PERFORMANCE DATA/3-WAY SQUARE PATTERN (S3)
MODEL XG-5000

Neck Size		Neck Velocity					
		200	300	400	500	600	700
	Ps	0.006	0.013	0.022	0.035	0.05	0.068
Neck Size	Pt	0.008	0.018	0.032	0.05	0.072	0.099
6 x 6	Total CFM	50	75	100	125	150	175
	CFM/Side	13	19	25	31	38	44
	Throw	2-4	4-8	7-11	9-13	11-16	13-17
	NC	-	-	-	-	20	25
9 x 9	Total CFM	113	169	225	281	335	394
	CFM/Side	28	42	56	70	84	98
	Throw	3-5	5-9	8-12	10-15	12-17	14-18
	NC	-	-	-	21	26	31
12 x 12	Total CFM	200	300	400	500	600	700
	CFM/Side	50	75	100	125	150	175
	Throw	3-7	6-10	9-14	11-16	13-18	15-20
	NC	-	-	-	24	29	34
15 x 15	Total CFM	313	469	625	781	938	1094
	CFM/Side	78	117	156	195	234	273
	Throw	4-8	7-12	10-15	12-18	15-20	17-22
	NC	-	-	21	26	31	36
18 x 18	Total CFM	450	675	900	1125	1350	1575
	CFM/Side	113	169	225	281	338	394
	Throw	5-10	8-14	11-17	14-20	16-22	18-23
	NC	-	-	22	27	32	37
21 x 21	Total CFM	613	919	1225	1531	1837	2144
	CFM/Side	153	230	306	383	459	536
	Throw	6-12	9-16	12-19	15-21	17-23	19-25
	NC	-	-	23	28	33	38
24 x 24	Total CFM	800	1200	1600	2000	2400	2800
	CFM/Side	200	300	400	5000	600	700
	Throw	7-14	10-17	12-20	16-23	18-25	21-27
	NC	-	-	24	29	34	39
27 x 27	Total CFM	1013	1519	2025	2531	3037	3544
	CFM/Side	253	380	506	633	759	886
	Throw	7-15	11-19	14-22	17-25	20-27	22-28
	NC	-	20	25	30	35	4

SERIES XG-5000 PERFORMANCE DATA/3-WAY RECTANGULAR PATTERN (R3S)
MODEL XG-5000

Neck Size		Neck Velocity															
		200		300		400		500		600		700					
	Ps	.006		.013		.022		.035		.050		.068					
	Pt	.008		.018		.032		.050		.072		.099					
Side Destination	A	B	A	B	A	B	A	B	A	B	A	B	A				
6x9	Total CFM		75			113			150			188		225		263	
	CFM/Side	28		23	42		35	56		47	70	59	84		70	98	82
	Throw	3-6		3-6	7-12		7-11	11-18		11-17	16-23	16-23	21-29		20-28	24-32	24-34
	NC	-		-			-			21		26			31		
6x12	Total CFM		100			150			200			250		300		350	
	CFM/Side	50		25	75		38	100		50	125	63	150		75	175	88
	Throw	5-9		3-6	8-15		7-12	13-20		11-17	18-26	16-23	22-31		20-28	26-37	24-34
	NC	-		-			-			23		28			33		
9x12	Total CFM		150			225			300			375		450		525	
	CFM/Side	50		50	75		75	100		100	125	125	150		150	175	175
	Throw	5-9		5-9	8-15		8-15	13-20		13-20	18-26	18-26	22-31		22-31	26-37	26-37
	NC	-		-			-			20		25		30		35	
9x15	Total CFM		188			281			375			469		563		656	
	CFM/Side	78		55	117		82	156		109	195	137	234		164	273	191
	Throw	4-8		3-7	7-12		6-11	10-15		9-14	12-18	11-16	15-20		14-19	17-22	15-20
	NC	20			20			20			23		28		33		
12x15	Total CFM		250			375			500			625		750		875	
	CFM/Side	78		86	117		129	156		172	195	215	234		258	273	301
	Throw	4-8		4-9	7-12		7-12	10-15		10-16	12-18	13-18	15-20		15-20	17-22	17-22
	NC	20			20			20			25		30		35		
12x18	Total CFM		300			450			600			750		900		1050	
	CFM/Side	113		94	169		141	225		188	281	234	338		281	394	328
	Throw	5-10		4-9	8-14		7-13	11-17		10-16	14-20	13-19	16-22		15-21	18-23	17-22
	NC	20			20			20			25		30		35		
15x18	Total CFM		375			563			750			938		1125		1313	
	CFM/Side	113		131	169		197	225		263	281	238	338		394	394	459
	Throw	5-10		5-11	8-14		8-15	11-17		12-18	14-20	14-20	16-22		17-23	18-23	19-24
	NC	20			20			21			26		31		36		
15x21	Total CFM		438			656			875			1094		1313		1531	
	CFM/Side	153		142	230		213	306		284	383	355	459		427	536	498
	Throw	6-12		5-11	9-16		9-15	12-19		12-18	15-21	15-21	17-23		17-23	19-25	19-25
	NC	20			20			22			27		32		37		
18x24	Total CFM		600			900			1200			1500		1800		2100	
	CFM/Side	200		200	300		300	400		400	500	500	600		600	700	700
	Throw	7-14		7-14	10-17		10-17	13-20		13-20	16-23	16-23	18-25		18-25	21-27	21-27
	NC	20			20			23			28		33		38		
21x27	Total CFM		788			1181			1575			1969		2362		2756	
	CFM/Side	253		267	380		401	506		534	633	668	759		802	886	935
	Throw	7-15		7-15	11-19		11-19	14-22		15-22	17-25	17-25	20-27		20-27	22-28	22-29
	NC	20			20			24			29		34		39		
24x30	Total CFM		1000			1500			2000			2500		3000		3500	
	CFM/Side	313		344	469		516	625		688	781	859	938		1031	1094	1203
	Throw	8-17		8-17	12-20		12-11	15-23		1624	18-26	19-27	21-28		21-29	23-30	23-31
	NC	20			20			25			30		35		40		

SERIES XG-5000 PERFORMANCE DATA/3-WAY RECTANGULAR PATTERN (R3L)
MODEL XG-5000

Neck Size		Neck Velocity											
		200		300		400		500		600		700	
	Ps	.006		.013		.022		.035		.050		.068	
	Pt	.008		.018		.032		.050		.072		.099	
6 x 9	Side Designation	A	B	A	B	A	B	A	B	A	B	A	B
	Total CFM		75		113		150		185		225		263
	CFM/Side	13		25	19	38	25	50	31	63	38	75	43
	Throw	2-4		2-5	4-8	5-9	7-11	8-12	9-13	10-14	11-16	12-17	13-17
6 x 12	NC	-		-	-	-	-	-	-	-	-	-	-
	Total CFM		100		150		200		250		300		350
	CFM/Side	13		38	19	56	25	75	31	94	38	113	44
	Throw	2-4		3-6	4-8	6-10	7-11	8-13	9-13	11-15	11-16	13-17	13-17
9 x 12	NC	-		-	-	-	-	20		25		30	
	Total CFM		150		225		300		375		450		525
	CFM/Side	28		47	42	70	56	94	70	117	84	141	98
	Throw	3-5		3-7	5-9	6-10	8-12	9-13	10-15	11-16	12-17	13-18	14-18
9 x 15	NC	-		-	-	-	-	22		27		32	
	Total CFM		188		281		375		469		563		656
	CFM/Side	28		66	42	98	56	131	70	164	84	197	98
	Throw	3-5		4-8	5-9	7-11	8-12	9-14	10-15	12-17	12-17	14-19	14-18
9 x 18	NC	-		-	-	-	-	23		28		33	
	Total CFM		225		338		450		563		675		788
	CFM/Side	28		84	42	127	56	169	70	211	84	253	98
	Throw	3-5	-	4-9	5-9	7-12	8-12	10-16	10-15	13-18	12-17	15-20	14-18
9 x 21	NC				-	-	-	24		29		34	
	Total CFM		263		394		525		656		788		919
	CFM/Side	28		103	42	155	56	206	70	258	84	309	98
	Throw	3-5		5-10	5-9	8-13	8-12	11-17	10-15	13-19	12-17	16-21	14-18
12 x 15	NC	-		-	-	20		25		30		35	
	Total CFM		250		375		500		625		750		875
	CFM/Side	50		75	75	113	100	150	125	188	150	225	175
	Throw	3-7		4-8	6-10	7-12	9-14	10-15	11-16	12-18	13-18	14-20	15-20
	NC	-		-	-	20		25		30		35	

SERIES XG-5000 PERFORMANCE DATA/3-WAY RECTANGULAR PATTERN (R3L)
MODEL XG-5000

Neck Size		Neck Velocity											
		200		300		400		500		600		700	
	Ps	.006		.013		.022		.035		.050		.068	
	Pt	.008		.018		.032		.050		.072		.099	
12x18	Side Designation	A	B	A	B	A	B	A	B	A	B	A	B
	Total CFM		300		450		600		750		900		1050
	CFM/Side	50		100	75	150	100	200	125	250	150	300	175
	Throw	3-7		5-10	6-10	8-13	9-14	11-16	11-16	13-19	13-18	15-21	15-20
12x21	NC	-		-		20		25		30		35	
	Total CFM		375		563		750		938		1125		1313
	CFM/Side	148		78	223	117	297	156	371	195	445	234	520
	Throw	6-12		4-8	9-15	7-12	12-19	10-15	15-21	12-18	17-23	15-20	19-25
12x24	NC	20		20		21		26		31		36	
	Total CFM		438		656		875		1094		1313		1531
	CFM/Side	180		78	270	117	359	156	449	195	539	234	629
	Throw	6-13		4-8	10-17	7-12	13-20	10-15	16-22	12-18	18-27	16-22	20-26
15x18	NC	20		20		22		27		32		37	
	Total CFM		525		788		1050		1313		1575		1837
	CFM/Side	206		113	309	169	413	225	516	281	619	338	722
	Throw	7-14		5-10	10-17	8-14	13-21	11-17	16-23	14-20	19-25	16-22	21-27
15x24	NC	20		20		23		28		33		38	
	Total CFM		600		900		1200		1500		1800		2100
	CFM/Side	244		113	366	169	488	225	609	281	731	338	853
	Throw	7-15		5-10	11-19	8-14	14-22	11-17	17-24	14-20	19-26	17-23	22-28
18x24	NC	20		20		23		28		33		38	
	Total CFM		788		1181		1575		1969		2362		2756
	CFM/Side	317		153	476	230	634	306	793	383	952	459	1110
	Throw	8-17		6-12	12-20	9-16	15-24	12-19	18-26	15-21	21-28	18-23	23-30
	NC	20		20		24		29		34		39	

SERIES XG-5000 PERFORMANCE DATA/2-WAY SQUARE PATTERN (S2 – SC)
MODEL XG-5000

Neck Size		Neck Velocity					
		200	300	400	500	600	700
	Ps	0.006	0.013	0.022	0.035	0.05	0.068
Neck Size	Pt	0.008	0.018	0.032	0.05	0.072	0.099
6 x 6	Total CFM	50	75	100	125	150	175
	CFM/Side	25	38	50	63	75	88
	Throw	2-5	5-9	8-12	10-14	12-17	14-18
	NC	20	20	20	20	20	25
9 x 9	Total CFM	113	169	225	281	338	394
	CFM/Side	56	84	113	141	169	197
	Throw	3-7	6-11	9-14	12-17	14-19	16-20
	NC	20	20	20	21	26	31
12 x 12	Total CFM	200	300	400	500	600	700
	CFM/Side	100	150	200	250	300	350
	Throw	5-10	8-13	11-16	13-19	15-21	17-23
	NC	20	20	20	24	29	34
15 x 15	Total CFM	313	469	625	781	938	1094
	CFM/Side	156	234	313	391	469	547
	Throw	6-12	9-16	12-19	15-21	17-24	19-25
	NC	20	20	21	26	31	36
18 x 18	Total CFM	450	675	900	1125	1350	1575
	CFM/Side	225	338	450	563	675	788
	Throw	7-14	10-18	14-21	17-24	19-26	21-28
	NC	20	20	22	27	32	37
21 x 21	Total CFM	613	919	1225	1531	1837	2144
	CFM/Side	306	459	613	766	979	1072
	Throw	8-17	12-20	15-23	18-26	21-28	23-30
	NC	20	20	23	28	33	38
24 x 24	Total CFM	800	1200	1600	2000	2400	2800
	CFM/Side	400	600	800	1000	1200	1400
	Throw	9-18	13-22	16-25	19-28	22-30	24-30
	NC	20	20	24	29	34	39
27 x 27	Total CFM	1013	1519	2025	2531	3037	3544
	CFM/Side	506	759	1013	1266	1519	1772
	Throw	10-20	14-24	17-27	21-29	23-32	25-33
	NC	20	20	25	30	35	40

SERIES XG-5000 PERFORMANCE DATA/1-WAY SQUARE PATTERN (S1)
MODEL XG-5000

Neck Size		Neck Velocity					
		200	300	400	500	600	700
	Ps	0.006	0.013	0.022	0.035	0.05	0.068
Neck Size	Pt	0.008	0.018	0.032	0.05	0.072	0.099
6 x 6	Total CFM	50	75	100	125	150	175
	Throw	3-7	6-10	9-14	11-16	13-18	15-20
	NC	20	20	20	20	20	25
9 x 9	Total CFM	113	169	225	281	338	394
	Throw	5-10	8-14	11-17	14-20	16-22	18-23
	NC	20	20	20	21	26	31
12 x 12	Total CFM	200	300	400	500	600	700
	Throw	7-14	10-17	13-20	16-23	18-25	21-27
	NC	20	20	20	24	29	34
15 x 15	Total CFM	313	469	625	781	938	1094
	Throw	8-17	12-20	15-23	18-26	21-28	23-30
	NC	20	20	21	26	31	36
18 x 18	Total CFM	450	675	900	1125	1350	1575
	Throw	9-19	13-23	17-26	20-29	23-31	25-32
	NC	20	20	22	27	32	37
21 x 21	Total CFM	615	919	1225	1531	1837	2144
	Throw	10-21	14-25	18-28	21-31	24-33	26-35
	NC	20	20	23	28	33	38
24 x 24	Total CFM	800	1200	1600	2000	2400	2800
	Throw	11-23	15-27	19-30	23-32	25-34	28-36
	NC	20	20	24	29	34	39
27 x 27	Total CFM	1013	1519	2025	2531	3037	3544
	Throw	12-24	16-28	20-31	23-34	26-36	29-38
	NC	20	20	25	30	35	40

**SERIES XG-5000 PERFORMANCE DATA/
2-WAY RECTANGULAR PATTERN (R2L – R2S)
MODEL XG-5000**

Neck Size		Neck Velocity					
		200	300	400	500	600	700
		Ps	0.006	0.013	0.022	0.035	0.05
6 x 9	Pt	0.008	0.018	0.032	0.05	0.072	0.099
	Total CFM	75	113	150	188	225	263
	CFM/Side	38	56	75	94	113	131
	Throw	3-6	6-10	8-13	11-15	13-17	15-19
6 x 12	NC	20	20	20	20	23	28
	Total CFM	100	150	200	250	300	350
	CFM/Side	50	75	100	125	150	175
	Throw	3-7	6-10	9-14	11-16	13-18	15-20
6 x 15	NC	20	20	20	20	25	30
	Total CFM	125	188	250	313	375	438
	CFM/Side	63	94	125	156	188	219
	Throw	4-7	6-11	9-14	12-17	14-19	16-21
6 x 18	NC	20	20	20	21	26	31
	Total CFM	150	225	300	375	450	525
	CFM/Side	75	113	150	188	225	263
	Throw	4-8	7-12	10-15	12-18	14-20	16-21
9 x 15	NC	20	20	20	22	27	32
	Total CFM	188	281	375	469	563	656
	CFM/Side	94	141	188	234	281	328
	Throw	4-9	7-13	10-16	13-19	15-21	17-22
9 x 18	NC	20	20	20	23	28	33
	Total CFM	225	338	450	563	675	788
	CFM/Side	113	169	225	281	338	394
	Throw	5-10	8-14	11-17	14-20	16-22	18-23
9 x 21	NC	20	20	20	24	29	34
	Total CFM	263	394	525	656	788	919
	CFM/Side	131	197	263	328	394	459
	Throw	5-11	8-15	12-18	14-20	17-23	19-24
12 x 15	NC	20	20	20	25	30	35
	Total CFM	250	375	500	625	750	875
	CFM/Side	125	188	250	313	375	438
	Throw	5-11	8-14	11-18	14-20	16-22	18-24
	NC	20	20	20	25	30	35

**SERIES XG-5000 PERFORMANCE DATA/
 2-WAY RECTANGULAR PATTERN (R2L – R2S)
 MODEL XG-5000**

Neck Size		Neck Velocity					
		200	300	400	500	600	700
		Ps	0.006	0.013	0.022	0.035	0.05
12 x 18	Pt	0.008	0.018	0.032	0.05	0.072	0.099
	Total CFM	300	450	600	750	900	1050
	CFM/Side	150	225	300	375	450	525
	Throw	6-12	9-15	12-19	15-21	17-23	19-25
12 x 21	NC	20	20	20	25	30	35
	Total CFM	350	525	700	875	1050	1225
	CFM/Side	175	263	350	438	525	613
	Throw	6-13	9-16	13-20	15-22	18-24	20-26
15 x 21	NC	20	20	21	26	31	36
	Total CFM	438	656	875	1094	1313	1531
	CFM/Side	219	328	438	547	656	766
	Throw	7-14	10-18	14-21	16-24	19-26	21-27
15 x 24	NC	20	20	22	27	32	37
	Total CFM	500	750	1000	1250	1500	1750
	CFM/Side	250	375	500	625	750	875
	Throw	7-15	11-19	14-22	17-25	20-27	22-28
18 x 21	NC	20	20	22	27	32	37
	Total CFM	525	788	1050	1313	1575	1837
	CFM/Side	263	394	525	656	788	919
	Throw	7-15	11-19	14-22	17-25	20-27	22-29
18 x 24	NC	20	20	23	28	33	38
	Total CFM	600	900	1200	1500	1800	2100
	CFM/Side	300	450	600	750	900	1050
	Throw	8-16	12-20	15-23	18-26	21-28	23-30
21 x 27	NC	20	20	23	28	33	38
	Total CFM	788	1181	1575	1969	2362	2756
	CFM/Side	394	591	788	984	1181	1378
	Throw	9-18	13-22	16-25	19-28	22-30	24-32
	NC	20	20	24	20	34	39

**SERIES XG-5000 PERFORMANCE DATA/
1-WAY RECTANGULAR PATTERN (R1L – R1S)
MODEL XG-5000**

Neck Size		Neck Velocity					
		200	300	400	500	600	700
		Ps	0.006	0.013	0.022	0.035	0.05
6 x 9	Pt	0.008	0.018	0.032	0.05	0.072	0.099
	Total CFM	75	113	150	188	225	263
	Throw	4-8	7-12	10-15	12-18	14-20	16-21
6 x 12	NC	20	20	20	20	23	28
	Total CFM	100	150	200	250	300	350
	Throw	5-10	8-13	11-16	13-19	15-21	17-23
6 x 15	NC	20	20	20	20	25	30
	Total CFM	125	188	250	313	375	438
	Throw	5-11	8-14	11-18	14-20	16-22	18-24
6 x 18	NC	20	20	20	21	26	31
	Total CFM	150	225	300	300	450	525
	Throw	6-12	9-15	12-19	12-19	17-23	19-25
6 x 21	NC	20	20	20	20	27	32
	Total CFM	175	263	350	438	525	613
	Throw	6-13	9-16	13-20	15-22	18-24	20-26
9 x 15	NC	20	20	20	23	28	33
	Total CFM	188	281	375	469	563	656
	Throw	6-13	10-17	13-20	16-23	18-25	20-26
9 x 18	NC	20	20	20	23	28	33
	Total CFM	225	338	450	563	675	788
	Throw	7-14	10-18	14-21	17-24	19-26	21-28
12 x 15	NC	20	20	20	24	29	34
	Total CFM	250	375	500	625	750	875
	Throw	7-15	11-19	14-22	17-25	20-27	22-28
12 x 18	NC	20	20	20	25	30	35
	Total CFM	300	450	600	750	900	1050
	Throw	8-16	12-20	15-23	18-26	21-28	23-30
15 x 21	NC	20	20	20	25	30	35
	Total CFM	438	656	875	1094	1313	1531
	Throw	9-19	13-23	17-26	20-28	22-31	25-32
15 x 24	NC	20	20	22	27	32	37
	Total CFM	500	750	1000	1250	1500	1750
	Throw	10-20	14-24	17-27	20-29	23-31	25-33
18 x 21	NC	20	20	22	27	32	37
	Total CFM	525	788	1050	1313	1575	1837
	Throw	10-20	14-24	18-27	21-30	23-32	26-34
18 x 24	NC	20	20	23	28	33	38
	Total CFM	600	900	1200	1500	1800	2100
	Throw	10-21	14-25	18-28	21-31	24-33	26-34
21 x 27	NC	20	20	23	28	33	38
	Total CFM	788	1181	1575	1969	2362	2756
	Throw	11-23	15-26	19-30	23-32	25-34	28-36
	NC	20	20	24	29	34	39

PERFORMANCE NOTES FOR SERIES XG-5000

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM	Cubic Feet Per Minute (air)
Horizontal Throw	Throw distance in feet at terminal velocities of 150fpm, 100fpm and 50fpm
NC	noise criteria, sound pressure level. NC ratings are based on sound power level (Lw) Re 10-12 watts minus a 10dB room attenuation in all octave bands
Ps	Static pressure. Diffuser only
Pt	Total pressure. Includes plenum and inlet size listed and is the sum of velocity and static pressure
Pv	Velocity pressure
fpm	Velocity of air stream in Feet Per Minute
Ps-H	Static pressure horizontal
Ps-V	Static pressure vertical
Pt-V	Total pressure vertical
Throw H C	Throw horizontal cooling
Throw V C	Throw vertical cooling
Throw V H	Vertical heating

MODEL XG-5500

Louvered Face Aluminum Supply Diffuser

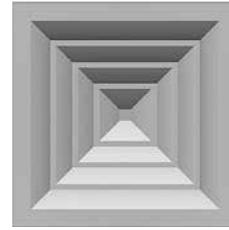
XG-5500-1 – Surface Mount

XG-5500-6 – T-bar Lay-in

XG-5500-7 – Concealed Spline

XG-5500-8 – Tegular Lay-in

XG-5500-9 – Donn Fineline Lay-in



Air Outlets shall be aluminum model XG-5500 manufactured by GREENHECK. Units shall consist of a fixed pattern louvered core fastened into a border with spring loaded latches. Core shall be removable without the use of tools. Outlets shall be engineered to perform in variable volume systems and include deflector blades with a horizontal lip to provide longer throw distances.

Outlets shall be available in 1, 2-way opposite, 2-way corner, 3, and 4-way directional air patterns.

The units shall be the size and quantity as outlined in the plans and specifications.

MODEL XG-5500S

Louvered Face Steel Supply Diffuser

XG-5500S-1 – Surface Mount

XG-5500S-6 – T-bar Lay-in

XG-5500S-8 – Tegular Lay-in

XG-5500S-9 – Donn Fineline Lay-in

Air Outlets shall be steel model XG-5500S manufactured by GREENHECK. Units shall consist of a fixed pattern louvered core fastened into a border with spring loaded latches. Core shall be removable without the use of tools. Outlets shall be engineered to perform in variable volume systems and include deflector blades with a horizontal lip to provide longer throw distances.

Outlets shall be available in 1, 2-way opposite, 2-way corner, 3, and 4-way directional air patterns.

The units shall be the size and quantity as outlined in the plans and specifications.

For Surface mounting:

Units shall be designed for surface mounting applications and be provided with counter sunk screw holes on the face of the device.

For T-Bar Lay-in:

Units shall be designed to integrate into the specified ceiling system.

Options:

Adjustable Pattern (horizontal to vertical)

Outlets shall include adjustable air pattern deflector blades that allows the air pattern to be set from vertical to horizontal (Optional XG-APD Air Pattern Deflectors). Air pattern deflector blades shall be accessible from the face and the diffuser and adjustable without the use of tools.

IV Induction Vanes

Units shall include IV induction vanes factory mounted onto the back side of the deflector vanes. IV vanes shall increase the induction rate of the diffuser.

Accessories

Optional Dampers

Aluminum XG-D5A or Steel XG-D5 opposed blade dampers shall be provided. Damper shall be adjusted using a handle accessible through the face of the diffuser. Screwdriver slot operators are not allowed.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

Paint Specification

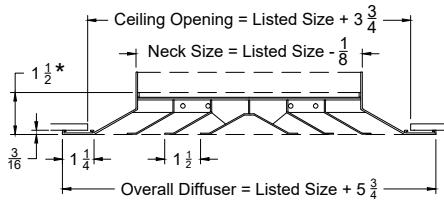
Process shall be anodic electrodeposition using an anodic acrylic paint. Units shall undergo pre-treatment including a pressurized spray stage using an alkaline cleaner and a de-ionized water rinse.

MODEL XG-5500

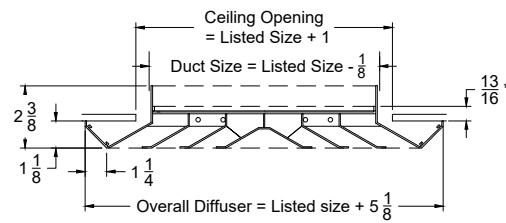
Square / Rectangular Louver Face Ceiling Diffusers Extruded Aluminum - Removable Core

- Models:
- XG-5000-1** Flush Surface Mounting
 - XG-5000-2** V-Beveled Drop Surface Mounting
 - XG-5000-6** Lay in T-Bar
 - XG-5000-7** Concealed T-Bar

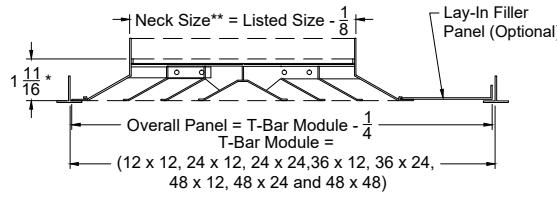
Model: XG-5000-1 (Flush Surface Mounting)



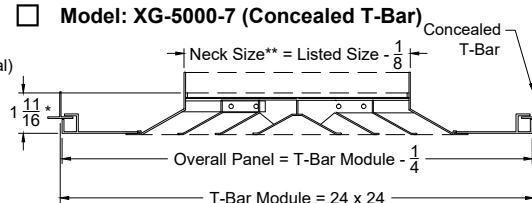
Model: XG-5000-2 (V-Beveled Drop Surface Mounting)



Model: XG-5000-6 (Lay in T-Bar)



Model: XG-5000-7 (Concealed T-Bar)



* Dimension indicates the distance needed for Clearance from the bottom of the duct to the ceiling line and must be maintained for proper fit.

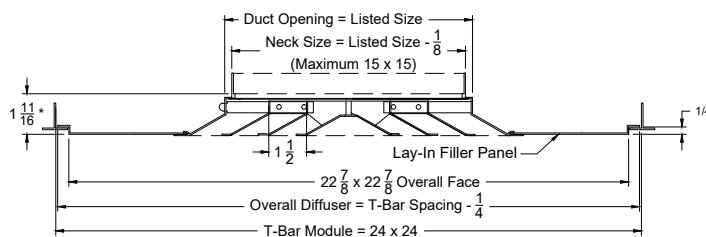
** Filler panel included for neck sizes under 18 x 18 to fit in 24 x 23, 24 x 24 T-bar grid, (6 x 6, 9 x 9, 12 x 12 and 15 x 15 include filler panel).

MODEL XG-5500

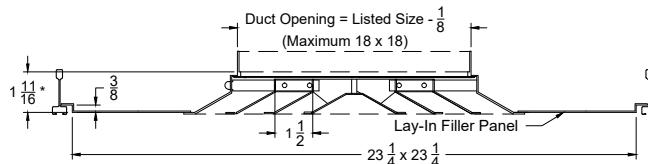
Square / Rectangular Louver Face Ceiling Diffusers Extruded Aluminum - Removable Core

Models: **XG-5000-8** Tegular T-Bar (24X24 Module)
 XG-5000-9 Bolt Slot / Donn Fineline (24X24 Module)

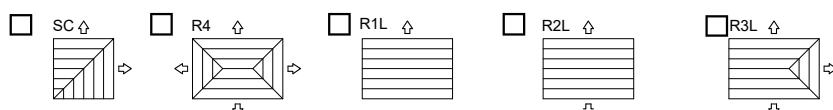
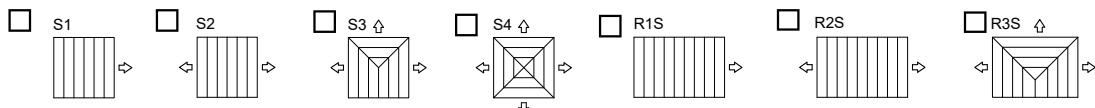
Model: XG-5000-8 (Tegular T-Bar)



Model: XG-5000-9 (Bolt Slot / Donn Fineline)



* Dimension indicates the distance needed for Clearance from the bottom of the duct to the ceiling line and must be maintained for proper fit.



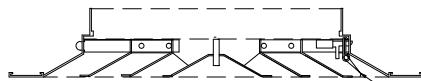
Air Patterns
 "S" prefix = Square Shape
 "R" prefix = Rectangular Shape

MODEL XG-5500

Options for Square / Rectangular Louver Face Ceiling Diffusers Extruded Aluminum - Removable Core

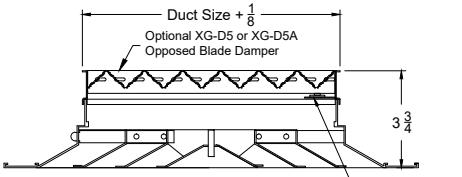
Option: XG-APD	Air Pattern Deflector
XG-D5	Steel Opposed Blade Damper
XG-D5A	Aluminum Opposed Blade Damper
XG-IV	Induction Vanes

Option: XG-APD Air Pattern Deflector

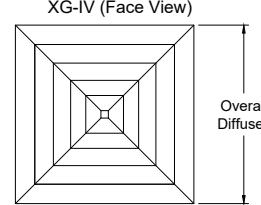
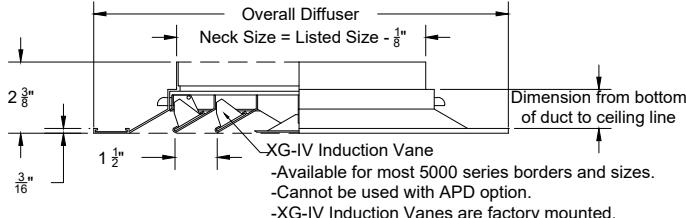


Optional XG-APD Adjustable Pattern Deflector Vane
 - Available for most 5000 series borders and sizes,
 - Cannot be used with XG-IV Induction Vanes option,
 - XG-APDs are factory mounted.

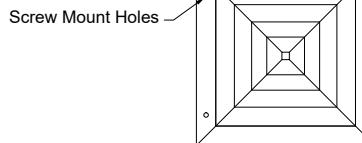
XG-D5 Steel Opposed Blade Damper.
 DXG-5A Aluminum Opposed Blade Damper.



Option: XG-IV Induction Vanes



XG-FSM (Face Screw Mount)



Notes: (check if provided)

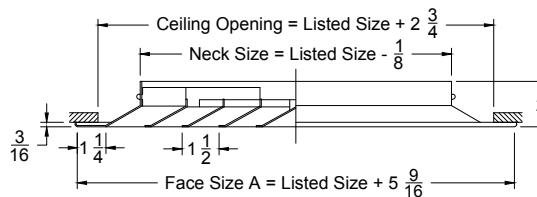
1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
Standard Finish: <input type="checkbox"/> 01 White Optional Finish (no extra charge): <input type="checkbox"/> 24 Mill Finish Optional Finish (extra charge): <input type="checkbox"/> 02 Satin Silver <input type="checkbox"/> 03 Black. <input type="checkbox"/> 28 Custom Color / Setup Charge Note: Anodized Finish not available.	Square and Rectangular Neck: <input type="checkbox"/> XG-D5 - Steel Opposed Blade Damper <input type="checkbox"/> XG-D5A - Aluminum Opposed Blade Damper <input type="checkbox"/> XG-L9 - Equalizing Grid <input type="checkbox"/> XG-TR - Square to Round <input type="checkbox"/> XG-TR - Deep Round Neck: <input type="checkbox"/> XG-G3 - Equalizing Grid <input type="checkbox"/> XG-BDS - Butterfly Damper XG-RSD - Radial Shutter Damper	XG-FSM: <input type="checkbox"/> Face Screw Mount (-1 only) Factory Mounted: <input type="checkbox"/> XG-IV Induction Vanes. <input type="checkbox"/> XG-APD Air Pattern Deflectors <input type="checkbox"/> XG-FGBP - Factory Installed R6 <input type="checkbox"/> Fiberglass Insulation (24X24 only)	Sizes only as listed. <ul style="list-style-type: none"> • Available air patterns: • S1, S2, S3, S4, R1S, R1L, R2S, R2L, R3S, R3L, R4 and SC. • For 5000-6 (D5) Models Only: 21 x 21 Neck in 24 x 24 Module is available in S4 Pattern only.

MODEL XG-5500S

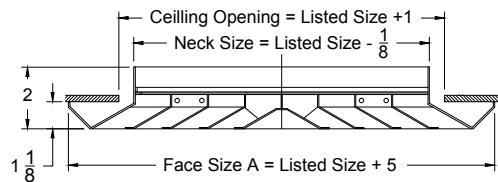
Square / Rectangular Louver Diffusers Steel

- Models: **XG-5500S-1** Flush Surface Mount - Square or Rectangular Neck
XG-5500S-2 V-Beveled Drop Surface Mount - Square or Rectangular Neck
XG-5500S-6 Lay in T-Bar (12x12 and 24x24 Module) - Square or Rectangular Neck
XG-5500S-8 Lay in T-Bar - 24 x 24 Module - Square or Rectangular Neck
XG-5500S-9 Donn Fineline - 24 x 24 Module - Square or Rectangular Neck

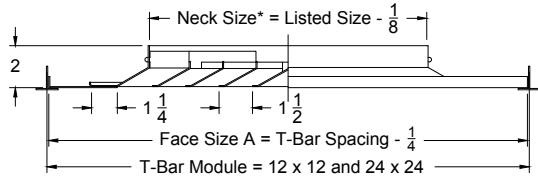
Model: **XG-5500S-1 (Flush Surface Mount)**



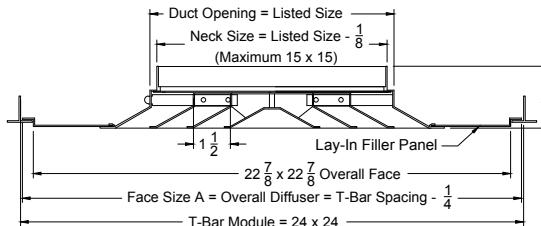
Model: **XG-5500S-2 (V-Beveled Drop Surface Mount)**



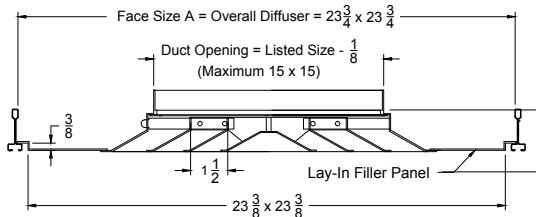
Model: **XG-5500S-6 (Lay in T-Bar)**



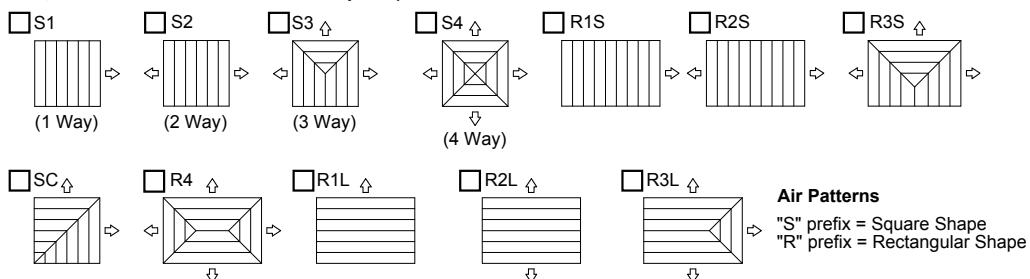
Model: **XG-5500S-8 (Tegular T-Bar)**



Model: **XG-5500S-9 (Donn Fineline)**



* Filler panel included for neck sizes under 18 x 18 to fit in 24 x 24 T-bar grid,
 (6 x 6, 9 x 9, 12 x 12 and 15 x 15 include filler panel).



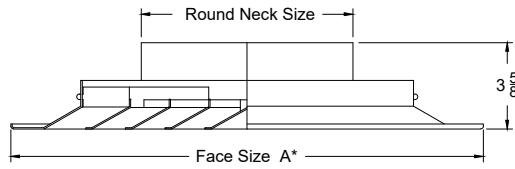
MODEL XG-5500S

Options For Square / Rectangular Louver Ceiling Diffusers Steel

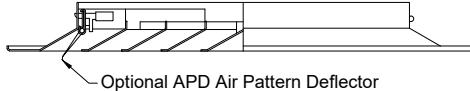
Option: XG-Round Neck

- XG-D5** Steel Opposed Blade Damper
XG-D5A Aluminum Opposed Blade Damper
XG-APD Air Pattern Deflector
XG-IV Induction Vanes

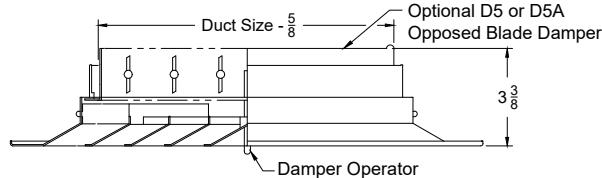
Option: XG-Round Neck



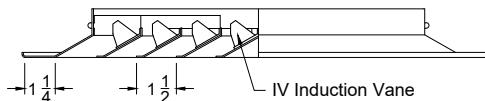
Option: XG-APD Air Pattern Deflector



- Options:** **XG-D5 Steel Opposed Blade Damper.**
XG-D5A Aluminum Opposed Blade Damper



Option: XG-IV Induction Vanes



Neck Size	Ceiling Opening Size		Face Size A					
	5500S-1	5500S-2	5500S-1	5500S-2	5500S-6	5500S-8	5500S-9	
6 x 6	8 3/4 x 8 3/4	7 x 7	11 9/16 x 11 9/16	11 x 11	23 3/4 x 23 3/4	23 3/4 x 23 3/4	23 3/4 x 23 3/4	
9 x 6	11 3/4 x 8 3/4	10 x 7	14 9/16 x 11 9/16	14 x 11	23 3/4 x 23 3/4	23 3/4 x 23 3/4	23 3/4 x 23 3/4	
9 x 9	11 3/4 x 11 3/4	10 x 10	14 9/16 x 14 9/16	14 x 14	23 3/4 x 23 3/4	23 3/4 x 23 3/4	23 3/4 x 23 3/4	
12 x 6	14 3/4 x 8 3/4	13 x 7	17 9/16 x 11 9/16	17 x 11	23 3/4 x 23 3/4	23 3/4 x 23 3/4	23 3/4 x 23 3/4	
12 x 9	14 3/4 x 11 3/4	13 x 10	17 9/16 x 14 9/16	17 x 14	23 3/4 x 23 3/4	23 3/4 x 23 3/4	23 3/4 x 23 3/4	
12 x 12	14 3/4 x 14 3/4	13 x 13	17 9/16 x 17 9/16	17 x 17	23 3/4 x 23 3/4	23 3/4 x 23 3/4	23 3/4 x 23 3/4	
15 x 6	17 3/4 x 8 3/4	16 x 7	20 9/16 x 11 9/16	20 x 11	23 3/4 x 23 3/4	23 3/4 x 23 3/4	23 3/4 x 23 3/4	
15 x 9	17 3/4 x 11 3/4	16 x 10	20 9/16 x 14 9/16	20 x 14	23 3/4 x 23 3/4	23 3/4 x 23 3/4	23 3/4 x 23 3/4	
15 x 12	17 3/4 x 14 3/4	16 x 13	20 9/16 x 17 9/16	20 x 17	23 3/4 x 23 3/4	23 3/4 x 23 3/4	23 3/4 x 23 3/4	
15 x 15	17 3/4 x 17 3/4	16 x 16	20 9/16 x 20 9/16	20 x 20	23 3/4 x 23 3/4	23 3/4 x 23 3/4	23 3/4 x 23 3/4	
18 x 18	20 3/4 x 20 3/4	19 x 19	23 9/16 x 23 9/16	23 x 23	23 3/4 x 23 3/4	- x -	- x -	
21 x 21	23 3/4 x 23 3/4	22 x 22	26 9/16 x 26 9/16	26 x 26	23 3/4 x 23 3/4	- x -	- x -	
24 x 12	26 3/4 x 14 3/4	25 x 13	29 9/16 x 17 9/16	29 x 17	- x -	- x -	- x -	
24 x 24	26 3/4 x 26 3/4	25 x 25	29 9/16 x 29 9/16	29 x 29	- x -	- x -	- x -	

Notes: (check if provided)

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
Standard Finish: 01 White. Optional Finish (extra charge): 02 Satin Silver. 03 Black. 28 Custom Color / Setup Charge	(Shipped Unattached) Square and Rectangular Necks: XG-D5 - Steel Rectangular Opposed Blade Damper. XG-D5A - Aluminum Rectangular Opposed Blade Damper. XG-L9 - Rectangular Equalizing Grid. XG-TR - Square to Round Transition. XG-TR - Deep. Round Necks: XG-G3 - Equalizing Grid XG-BDS - Butterfly Damper XG-RSD - Radial Shutter Damper	IV - Induction Vanes. APD - Air Pattern Deflectors. Border Only Core Only Round Necks With TR Deep	Available air patterns: S1, S2, S3, S4, R1S, R1L, R2S, R2L, R3S, R3L, R4, SC. For 5500S-6 Models Only: 21 x 21 neck in 24 x 24 Module is available in S4 pattern only. XG-D5 - Damper not available with integral Round Neck

SERIES XG-5500 PERFORMANCE DATA/1-WAY SQUARE PATTERN (S1)
MODEL XG-5500/XG-5500S

Neck Size		Neck Velocity					
		200	300	400	500	600	700
	Ps	0.018	0.040	0.071	0.111	0.160	0.218
6 x 6	Pt	0.020	0.046	0.081	0.127	0.182	0.248
	Total CFM	50	75	100	125	150	175
	Throw	5-9	8-15	13-20	18-26	22-31	26-37
9 x 9	NC	-	-	-	-	23	28
	Total CFM	113	169	225	281	338	394
	Throw	8-16	12-21	17-27	22-32	27-38	31-44
12 x 12	NC	-	-	-	24	29	37
	Total CFM	200	300	400	500	600	700
	Throw	11-22	16-27	21-33	26-38	31-44	35-50
15 x 15	NC	-	-	22	27	32	37
	Total CFM	313	469	625	781	938	1094
	Throw	12-24	17-30	23-35	28-41	33-47	37-52
18 x 18	NC	-	-	24	29	34	39
	Total CFM	450	675	900	1125	1350	1575
	Throw	14-26	22-32	33-45	36-48	38-52	40-56
21 x 21	NC	-	20	25	30	35	40
	Total CFM	613	919	1225	1531	1837	2144
	Throw	16-28	26-34	33-43	37-51	40-55	42-58
24 x 24	NC	-	21	26	31	36	41
	Total CFM	800	1200	1600	2000	2400	2800
	Throw	19-29	28-36	39-45	40-53	41-59	44-61
27 x 27	NC	-	22	27	32	37	42
	Total CFM	1013	1519	2025	2531	3037	3544
	Throw	21-31	30-39	35-49	41-55	43-60	46-64
	NC	-	23	28	33	38	43

SERIES XG-5500 PERFORMANCE DATA/2-WAY SQUARE PATTERN (S2 – SC)
MODEL XG-5500/XG-5500S

Neck Size		Neck Velocity					
		200	300	400	500	600	700
	<i>P_t</i>	0.020	0.046	0.081	0.127	0.182	0.248
<i>6 x 6</i>	Total CFM	50	75	100	125	150	175
	CFM/Side	25	38	50	63	75	88
	Throw	3-6	7-2	11-17	16-23	20-28	24-34
	NC	-	-	-	-	23	28
<i>9 x 9</i>	Total CFM	113	169	225	281	338	394
	CFM/Side	56	84	113	141	169	197
	Throw	5-10	9-15	13-21	18-27	23-32	27-38
	NC	-	-	-	24	29	34
<i>12 x 12</i>	Total CFM	200	300	400	500	600	700
	CFM/Side	100	150	200	250	300	350
	Throw	7-14	12-20	16-26	21-31	26-37	30-42
	NC	-	-	22	27	32	37
<i>15 x 15</i>	Total CFM	313	469	625	781	938	1094
	CFM/Side	156	234	313	391	469	547
	Throw	10-19	14-25	19-30	25-36	30-41	33-47
	NC	-	-	24	29	34	39
<i>18 x 18</i>	Total CFM	450	675	900	1125	1350	1575
	CFM/Side	225	338	450	563	675	788
	Throw	12-23	16-28	22-34	27-39	32-45	36-51
	NC	-	20	25	30	35	40
<i>21 x 21</i>	Total CFM	613	919	1225	1531	1837	2144
	CFM/Side	306	459	613	766	919	1072
	Throw	12-24	17-30	23-35	28-41	33-47	37-52
	NC	-	21	26	31	36	41
<i>24 x 24</i>	Total CFM	800	1200	1600	2000	2400	2800
	CFM/Side	400	600	800	1000	1200	1400
	Throw	12-22	16-28	21-34	27-39	32-45	36-50
	NC	-	22	27	32	37	42
<i>27 x 27</i>	Total CFM	1013	1519	2025	2531	3037	3544
	CFM/Side	506	759	1013	1206	1519	1772
	Throw	8-15	12-21	17-27	22-32	27-38	31-43
	NC	-	23	28	33	38	43

SERIES XG-5500 PERFORMANCE DATA/3-WAY RECTANGULAR PATTERN (S3)
MODEL XG-5500/XG-5500S

Neck Size		Neck Velocity											
		200		300		400		500		600		700	
	Ps	0.013		0.030		0.053		0.083		0.120		0.163	
	Pt	0.016		0.036		0.063		0.099		0.142		0.194	
6x6	SD	A	B	A	B	A	B	A	B	A	B	A	B
	Total CFM		50		75		100		125		150		175
	CFM/Side	19		13	28	19	38	25	47	31	56	38	66
	Throw	3-5		2-4	6-11	6-10	10-16	10-16	15-22	15-21	20-28	19-27	24-33
9x9	NC	-		-	-	-	-	-	-	23			28
	Total CFM		113		169		225		281		338		394
	CFM/Side	42		28	63	42	84	56	105	70	127	84	148
	Throw	4-8		3-6	8-14	7-12	12-19	11-18	17-25	16-23	22-31	21-29	26-36
12x12	NC	-		-	-	-	-	24		29			34
	Total CFM		200		300		400		500		600		700
	CFM/Side	75		50	113	75	150	100	188	125	225	150	263
	Throw	6-12		5-9	10-17	8-15	15-23	13-20	20-29	18-26	24-34	22-31	28-40
15x15	NC	-		-	-	22		27		32			37
	Total CFM		313		469		625		781		938		1094
	CFM/Side	75		50	176	117	234	156	293	195	352	234	410
	Throw	6-12		5-9	12-22	10-18	17-27	15-23	23-33	20-29	27-38	25-35	31-44
18x18	NC	-		-	-	24		29		34			39
	Total CFM		450		675		900		1125		1350		1575
	CFM/Side	169		113	253	169	338	225	422	281	506	338	591
	Throw	10-20		8-16	15-25	12-21	20-31	17-27	25-37	22-32	30-42	27-38	34-48
21x21	NC	-		20		25		30		35			40
	Total CFM		613		919		1225		1531		1837		2144
	CFM/Side	230		153	345	230	459	306	574	383	689	459	804
	Throw	12-23		10-19	16-28	14-24	22-34	19-30	27-40	24-36	32-45	29-41	36-51
24x24	NC	-		21		16		31		36			41
	Total CFM		800		1200		1600		2000		2400		2800
	CFM/Side	300		200	450	300	600	400	750	500	900	600	1050
	Throw	12-24		11-22	17-30	16-27	23-35	21-33	28-41	26-38	33-47	31-44	37-52
27x27	NC	-		22		27		32		37			42
	Total CFM		1013		1519		2025		2531		3037		3544
	CFM/Side	380		253	570	380	759	506	949	633	1139	759	1329
	Throw	12-23		12-24	17-29	17-19	22-34	22-35	27-40	28-40	32-46	33-46	36-51
	NC	-		23		28		33		38			43

SERIES XG-5500 PERFORMANCE DATA/4-WAY SQUARE PATTERN (S4)
MODEL XG-5500/XG-5500S

Neck Size		Neck Velocity					
		200	300	400	500	600	700
	<i>P_t</i>	0.016	0.036	0.063	0.099	0.142	0.194
<i>6 x 6</i>	Total CFM	50	75	100	125	150	175
	CFM/Side	13	19	25	31	38	44
	Throw	2-4	6-10	10-16	15-21	19-27	23-32
	NC	-	-	-	-	23	28
<i>9 x 9</i>	Total CFM	113	169	225	281	338	394
	CFM/Side	28	42	56	70	84	98
	Throw	3-6	7-12	11-18	16-23	21-29	24-34
	NC	-	-	-	24	29	34
<i>12 x 12</i>	Total CFM	200	300	400	500	600	700
	CFM/Side	50	75	100	125	150	175
	Throw	5-9	8-15	13-20	18-26	22-31	26-37
	NC	-	-	22	27	32	37
<i>15 x 15</i>	Total CFM	313	469	625	781	938	1094
	CFM/Side	78	117	156	195	234	273
	Throw	6-12	10-18	15-23	20-29	25-35	29-40
	NC	-	-	24	29	34	39
<i>18 x 18</i>	Total CFM	450	675	900	1225	1350	1575
	CFM/Side	113	169	225	306	338	394
	Throw	8-16	12-21	17-27	22-32	27-38	31-44
	NC	-	20	25	30	35	40
<i>21 x 21</i>	Total CFM	613	919	1225	1531	1837	2144
	CFM/Side	153	230	306	383	459	536
	Throw	10-19	14-24	19-30	24-36	29-41	33-47
	NC	-	21	26	31	36	41
<i>24 x 24</i>	Total CFM	800	1200	1600	2000	2400	2800
	CFM/Side	200	300	400	500	600	700
	Throw	11-22	16-27	21-33	26-38	31-44	35-50
	NC	-	22	27	32	37	42
<i>27 x 27</i>	Total CFM	1013	1519	2025	2531	3037	3544
	CFM/Side	253	380	506	633	759	886
	Throw	12-24	17-29	22-35	28-40	33-46	37-52
	NC	-	23	28	33	38	43
<i>33 x 33</i>	Total CFM	1513	2269	3025	3781	4537	5294
	CFM/Side	378	567	756	945	1134	1323
	Throw	12-23	17-29	22-34	27-40	33-46	36-51
	NC	-	24	29	34	39	44

PERFORMANCE NOTES FOR SERIES XG-5500/XG-5500S

All data is tested in accordance with ANSI/ASHRAE 70-2006

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

Horizontal Throw Throw distance in feet at terminal velocities of 150fpm and 50fpm.

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands

Ps Static pressure = Pt-Pv (inches of water column)

Pt Total pressure (inches of water column)

Pv Velocity pressure (inches of water column)

fpm Velocity of air stream in Feet per Minute

MODEL XG-5500DD



Supply Square and Rectangular Louvered Face - Aluminum/Series XG-5500DD (DDI)

Insulated Non-Insulated

XG-5500DDI-6 - T-bar Lay-in

XG-5500DD-6 - T-bar Lay-in

XG-5500DDI-9 - Donn Fineline

XG-5500DD-9 - Donn Fineline

Air Outlets shall be model XG-5500DDI (insulated) or XG-5500DD (non-insulated) manufactured by GREENHECK. Units shall be square face ceiling supply diffusers and shall have a factory attached back. Back pan must be of sufficient height to allow center tile (by the ceiling system manufacturer) to be installed from the diffuser face without dissembling the face from the back pan. Devices without back pan attached to the diffuser face will not be allowed.

The units shall be the size and quantity as outline in the plans and specifications. Diffuser shall be one through four slots. The diffuser shall be designed to integrate with the ceiling type. It shall have horizontal deflection surfaces on the fixed pattern control blades which provide a horizontal ceiling pattern with a twenty degree cooling temperature differential at twenty percent of design volume.

Return Square and Rectangular Louvered Face - Aluminum/ Series XG-5500 DDR

Non-Insulated

XG-5500 DDR-6 - T-bar Lay-in

XG-5500 DDR-9 - Donn Fineline

Air Inlets shall be model XG-5500DD manufactured by GREENHECK. Units shall be square face ceiling return or exhaust diffusers and shall have a factory attached light shield. Light shield must be of sufficient height to allow center tile (by the ceiling system manufacturer) to be installed from the diffuser face without dissembling the face from the back pan. Devices without light shield attached to the diffuser face will not be allowed. The units shall be the size and quantity as outline in the plans and specifications. Diffuser shall be one through four slots. The diffuser shall be designed to integrate with the ceiling type. Face shall have fixed louvers designed to match the appearance of the supply unit.

Round Neck Optional Dampers and Accessories

Butterfly Damper

GREENHECK model XG-BDS aluminum round butterfly type dampers shall be provided. Damper shall consist of two butterfly style blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Radial Shutter Damper

GREENHECK model XG-RSD steel round radial shutter damper shall be provided. Damper shall consist of gang operated radial blades that slide perpendicular to air flow direction. The damper shall be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Opposed Blade Damper

GREENHECK model XG-D3 aluminum or XG-SD3 Steel round opposed blade type dampers shall be provided. Damper shall consist of gang operated blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Equalizing Grid

GREENHECK model XG-G3 aluminum round equalizing grid shall be provided. Equalizing grid shall consist of 1/2" x 1/2" x 1/2" aluminum cubed core mounting in an aluminum frame.

Performance Specification

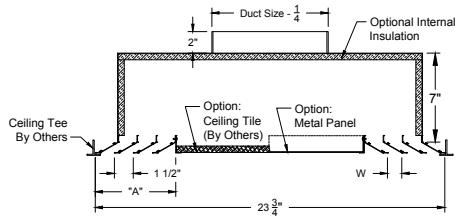
The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006.

MODEL XG-5500DD

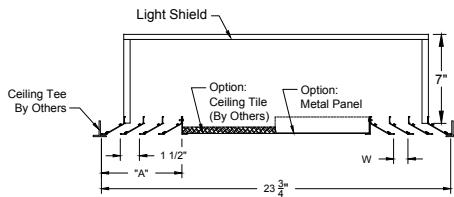
Architectural Deflection Diffusers Aluminum - Fixed Louvered Face

Models: XG-5500DD (DDI)-6 Supply - Non Insulated (Insulated) - T-Bar Lay in
 XG-5500DD (DDI)-8 Supply - Non Insulated (Insulated) - Tegular T-Bar
 XG-5500DD (DDI)-9 Supply - Non Insulated (Insulated) - 24x24 Donn (USG) Ceiling Grid
 XG-5500 DDR-6 Return - Non Insulated - T-Bar Lay in
 XG-5500 DDR-8 Return - Non Insulated - Tegular T-Bar
 XG-5500 DDR-9 Return - Non Insulated - 24x24 Donn (USG) Ceiling Grid

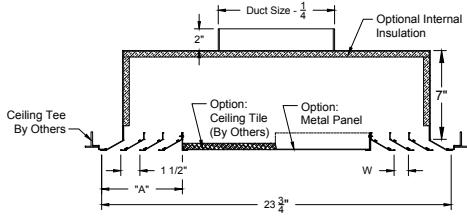
Model: XG-5500DD-6 = Lay in T-Bar Non Insulated
 Model: XG-5500DDI-6 = Lay in T-Bar Insulated



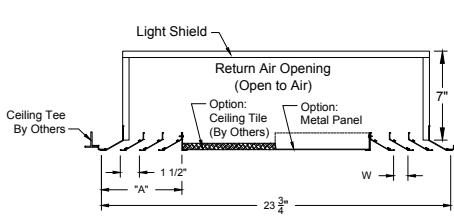
Model: XG-5500DDR-6 = Lay in T-Bar



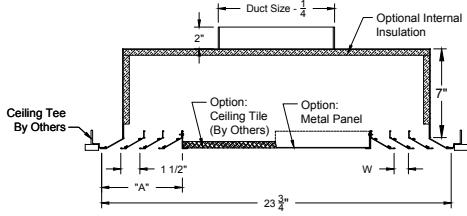
Model: XG-5500DD-8 = Tegular T-Bar Non Insulated
 Model: XG-5500DDI-8 = Tegular T-Bar Insulated



Model: XG-5500DDR-8 = Tegular T-Bar



Model: XG-5500DD-9 = 24x24 Donn (USG) Ceiling Grid Non Insulated
 Model: XG-5500DDI-9 = 24x24 Donn (USG) Ceiling Grid Insulated

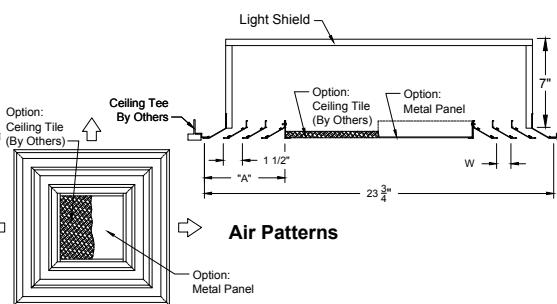


XG-5500DDR-9 = 24x24 Donn (USG) Ceiling Grid

MODEL	Dim. W	1 Slot	2 Slot	3 Slot	4 Slot
XG-5500DD	1 1/8	3 5/16	4 13/16	6 5/16	7 13/16

Available with 1, 2, 3 and 4 Slots.

(XG-5500DD 3 SLOT UNIT SHOWN)



Notes: (check if provided)

1. Available Finishes	2. Available Accessories	4. Construction Details
Standard Finish <input type="checkbox"/> 01 White with Black Plenum. Optional Finishes (additional charge): <input type="checkbox"/> 03 Black.	Aluminum Radial Opposed Blade Damper. <input type="checkbox"/> XG-BDS - Round Damper. <input type="checkbox"/> XG-RSD - Radial Shutter Round Damper. <input type="checkbox"/> XG-TBPF - T-Bar Plaster Frame.	<ul style="list-style-type: none"> Insulated units have 1/2" Tuffskin insulation. Center Ceiling Tile supplied by others, field installed. Return units are non-ducted, with light shields. Available in 1 1/2" spacers with 1,2,3 and 4 slots (3 slot units shown above).

XG-5500DD MODEL NUMBER SPECIFICATION
SUPPLY FIXED LOUVERED FACE ARCHITECTURAL DIFFUSER

Model		# Slots	Inlet Size	Module	Available Finishes	
XG-5500DD-6	T-Bar Lay-in	1 2 3 4	6	24 x 24	Standard	
XG-5500DDI-6	T-Bar Lay-in Insulated		8		01	White
XG-5500DD-8	Tegular T-Bar		10		Optional	
XG-5500DDI-8	Tegular T-Bar Insulated		12		02	Satin Silver
XG-5500DD-9	Donn Fineline		14		03	Black
XG-5500DDI-9	Donn Fineline Insulated		16		28	Custom Color

Available Accessories	
XG-D3	Aluminum Radial Opposed Blade Damper
XG-SD3	Steel Radial Opposed Blade Damper
XG-BDS	Butterfly Damper
XG-RSD	Radial Shutter Damper
XG-TBPF	T-Bar Plaster Frame
XG-CP	Center Metal Panel Loose
XG-CPW	Center Metal Panel Welded

Available Options	
CC	Closed Cell foam insulation
EI	External foil back insulation

XG-5500DDR MODEL NUMBER SPECIFICATION
RETURN FIXED LOUVERED FACE ARCHITECTURAL DIFFUSER
MODEL XG-5500DDR

Model		# Slots	Module	Available Finishes	
XG-5500DDR-6	T-Bar Lay-in	1 2 3 4	24 x 24	Standard	
XG-5500DDR-8	Tegular T-Bar			01	White
XG-5500DDR-9	Donn Fineline			Optional	
				02	Satin Silver
				03	Black
				28	Custom Color

SERIES XG-5500DD PERFORMANCE DATA
MODEL XG-5500DD, XG-5500DDI SUPPLY

	CFM	50	100	150	200	250	300	350
1 Slot 24 x 1 8 Inlet	Pt	0.01	0.03	0.07	0.13	0.20	0.30	0.40
	Ps	0.007	0.024	0.058	0.109	0.168	0.254	0.337
	NC	<20	<20	22	28	33	38	41
	Throw	2-3-5	4-5-7	5-6-9	6-8-10	7-9-12	8-11-14	9-12-16
	CFM	100	150	200	250	300	350	400
2 Slot 24 x 2 8 Inlet	Pt	0.02	0.05	0.08	0.12	0.18	0.24	0.31
	Ps	0.014	0.038	0.059	0.088	0.134	0.177	0.227
	NC	<20	<20	22	28	33	38	41
	Throw	2-3-5	3-5-7	4-6-8	4-7-9	5-8-11	6-9-12	7-10-13
	CFM	150	200	250	300	350	400	450
3 Slot 24 x 3 8 Inlet	Pt	0.03	0.06	0.09	0.13	0.18	0.23	0.30
	Ps	0.018	0.039	0.058	0.084	0.117	0.147	0.194
	NC	<20	<20	25	30	34	38	41
	Throw	3-4-6	4-5-7	4-6-8	5-7-9	5-8-10	6-9-12	7-10-14
	CFM	200	250	300	350	400	450	500
4 Slot 24 x 4 8 Inlet	Pt	0.05	0.08	0.11	0.16	0.20	0.26	0.32
	Ps	0.029	0.048	0.064	0.097	0.117	0.154	0.195
	NC	<20	23	28	32	36	39	42
	Throw	3-4-9	3-5-7	4-6-8	5-7-10	5-8-11	6-9-12	6-10-13
	CFM	250	300	350	400	450	500	550
4 Slot 24 x 4 10 Inlet	Pt	0.061	0.085	0.123	0.151	0.196	0.247	0.298
	Ps	0.48	0.085	0.123	0.151	0.196	0.247	0.298
	NC	20	25	29	33	36	39	41
	Throw	3-5-7	4-6-8	5-7-10	5-8-11	6-9-12	6-10-13	7-10-14

PERFORMANCE NOTES FOR SERIES XG-5500DD

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM	Cubic Feet per Minute (air)
Throw	Throw distance in feet at terminal velocities of 150fpm, 100fpm and 50fpm
NC	Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands
Ps	Static pressure = Pt-Pv (inches of water column)
Pt	Total pressure (inches of water column)
Pv	Velocity pressure (inches of water column)
fpm	Velocity of air stream in Feet per Minute. To determine total pressure for other inlet sizes, divide the CFM by the sq footage of the inlet size (chart above). The result is the duct velocity in fpm. From the Pv chart, determine the Pv and add it to the Ps shown in the performance chart to determine the Pt

SERIES XG-5500DDR PERFORMANCE DATA
MODEL XG-5500DDR RETURN

	CFM	100	125	165	200	225	275
1 Slot	NC	<20	20	27	25	30	35
	-Ps	-.020	-.030	-.060	-.080	-.100	-.150
	CFM	155	190	250	310	345	425
2 Slot	NC	<20	22	24	27	32	37
	-Ps	-.020	-.030	-.060	-.080	-.100	-.150
	CFM	225	275	360	450	505	620
3 Slot	NC	21	24	25	29	34	38
	-Ps	-.020	-.030	-.060	-.080	-.100	-.150
	CFM	295	350	430	590	660	810
4 Slot	NC	22	25	27	30	35	40
	-Ps	-.020	-.030	-.060	-.080	-.100	-.150

PERFORMANCE NOTES FOR SERIES XG-5500DDR

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10⁻¹² watts minus a 10dB room attenuation in all octave bands

Ps Static pressure = Pt-Pv (inches of water column)

MODEL XG-5200

XG-5200-1 - Surface Mount

XG-5200-2 - V-Beveled

XG-5200-6 - T-bar Lay-in

Air Outlets shall be aluminum model XG-5200 manufactured by GREENHECK. Units shall consist of a fixed pattern louvered core fastened into a border with spring loaded latches. Core shall be removable without the use of tools. The units shall be the size and quantity as outline in the plans and specifications.

Outlets shall be available in 1, 2-way opposite, 2-way corner, 3, and 4-way directional air patterns. Units shall be designed to integrate into the specified ceiling system.

Accessories

Optional Dampers:

Aluminum XG-DA opposed blade dampers shall be provided. Damper shall be adjusted using a handle accessible through the face of the diffuser. Screwdriver slot operators are not allowed.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006



CEILING
DIFFUSERS

LOUVERED FACE DIFFUSERS

XG-5200

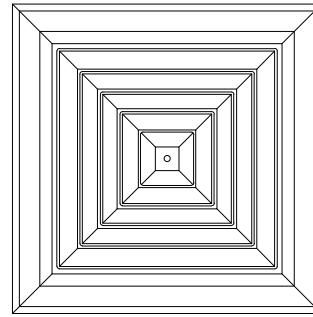
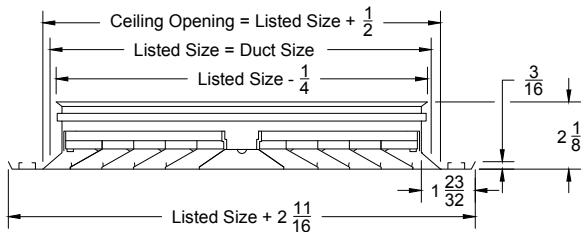
MODEL XG-5200

Square Diffusers

Aluminum - Economical Square Diffusers

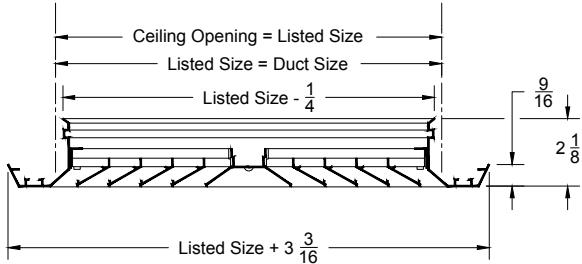
Models: XG-5200-1 Flush Surface Mount
 XG-5200-2 Beveled Drop Surface Mount
 XG-5200-6 T-Bar Panel

Model: XG-5200-1 (Flush Surface Mount)



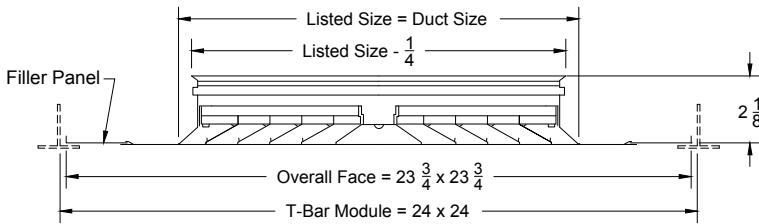
Face view - Shown S4 Pattern

Model: XG-5200-2 (Beveled Drop Surface Mount)

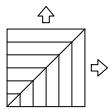


Available Neck Sizes	
-1 & -2 Frame	-6 Frame
6 x 6	6 x 6
8 x 8	8 x 8
10 x 10	10 x 10
12 x 12	12 x 12
14 x 14	14 x 14
16 x 16	16 x 16
18 x 18	18 x 18
20 x 20 4-WAY ONLY	
20 x 20	20 x 20

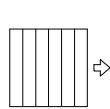
Model: XG-5200-6 (T-Bar Mount)



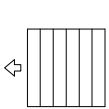
Available Directional Blow Patterns



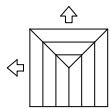
SC



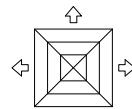
S1



S2



S3



S4

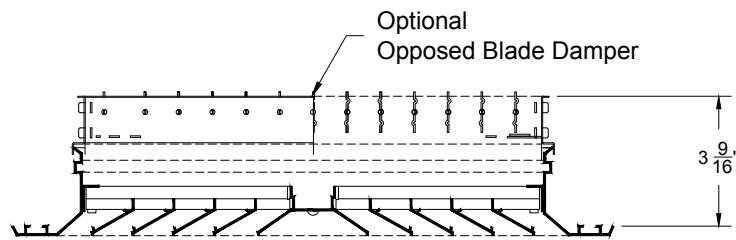
MODEL XG-5200

Square Diffusers

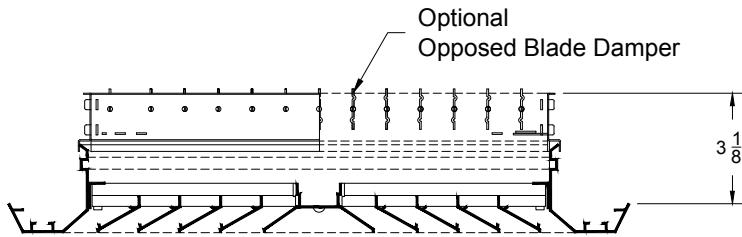
Aluminum - Economical Square Diffusers

Models: XG-5200-1DA Flush Surface Mount with Optional Damper
 XG-5200-2DA Beveled Drop Surface Mount with Optional Damper
 XG-5200-6DA T-Bar Panel with Optional Damper

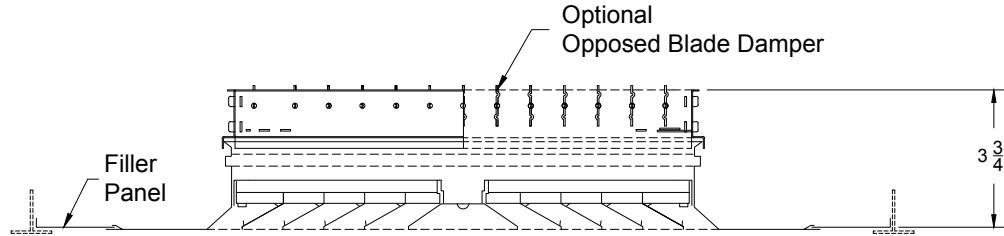
Model: XG-5200-1 Flush Surface Mount With D5A Damper



Model: XG-5200-2 Beveled Drop Frame Surface Mount With D5A Damper



Model: XG-5200-6 T-Bar Lay-In Panel Mount With D5A Damper



Notes: (check if provided)

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
Standard Finish: <input type="checkbox"/> 01 White. Optional Finishes (Extra charge): <input type="checkbox"/> 02 Satin Silver	<input type="checkbox"/> XG-D5A - Aluminum Opposed Blade Damper <input type="checkbox"/> XG-SH - Screw Holes <input type="checkbox"/> XG-TBPF - T-Bar Lay Plaster Frame		<ul style="list-style-type: none"> Sizes only as listed. Available Air Patterns: S1,S2,S3,S4 and SC. Units are shipped without screw holes as standard.

XG-5200 MODEL NUMBER SPECIFICATION
LOUVERED FACE CEILING DIFFUSER SQUARE/ALUMINUM

Model		Width	Height	Air Pattern		Available Finishes	
XG-5200-1	Surface Mount	6 8 10 12 14 16 18	6 8 10 12 14 16 18	Standard			
XG-5200-2	Beveled Drop Surface Mount			S4	Sq 4-Way	01	White
				Optional			
				S1	1-Way	02	Satin Silver
				S2	Sq 2-Way	03	Black
				S3	Sq 3-Way	24	Mill
				SC	Sq 2-Way corner	28	Custom Color

Available Accessories	
XG-DA	Aluminum Opposed Blade Damper

Available Options	
NSH	No Screw Holes
SH	Screw Holes

Model		Panel	Width	Height	Air Pattern		Available Finishes	
XG-5200-6	T-bar Lay-in	24 x 24	6 8 10 12 14 16 18	6 8 10 12 14 16 18	Standard			
					S4	Sq 4-Way	01	White
					Optional			
					S1	Sq 1-Way	02	Satin Silver
					S2	Sq 2-Way	03	Black
					S3	Sq 3-Way	24	Mill
					SC	Sq 2-Way corner	28	Custom Color

Available Accessories	
XG-DA	Aluminum Opposed Blade Damper

Available Options	
NSH	No Screw Holes
SH	Screw Holes

SERIES XG-5200 PERFORMANCE DATA
MODEL XG-5200

CFM	Outlet Size	6 x 6	8 x 8	10 x 10	12 x 12	14 x 14	16 x 16	20 x 20	22 x 22	24 x 24
100	Vn	400	225	114	100					
	Ps	0.004	0.001	0.001	0.001					
	Throw	12-17-14-12	17-14-12-10	14-12-10-9	12-10-8-7					
200	Vn	800	450	288	200	147				
	Ps	0.014	0.004	0.002	0.001	0.001				
	Throw	33-27-23-20	27-22-19-16	23-19-16-14	21-17-14-12	18-15-13-11				
300	Vn		675	432	300	220				
	Ps		0.008	0.004	0.002	0.001				
	Throw		35-30-25-22	35-30-25-22	27-22-19-15	24-20-17-15				
400	Vn		900	576	400	294				
	Ps		0.019	0.008	0.004	0.002				
	Throw		47-39-32-29	40-34-28-24	35-30-25-22	32-27-22-19				
600	Vn			864	600	441	216			
	Ps			0.017	0.008	0.003	0.001			
	Throw			52-43-36-32	43-36-30-26	41-34-28-25	30-25-21-19			
800	Vn				800	588	450	288	238	200
	Ps				0.018	0.008	0.005	0.002	0.001	0.001
	Throw				57-48-40-35	51-43-36-31	47-39-32-29	40-34-28-24	35-29-24-21	33-27-23-20
1000	Vn					735	563	360	298	250
	Ps					0.014	0.009	0.003	0.002	0.001
	Throw					63-52-43-38	57-48-40-35	49-41-34-30	40-34-28-25	38-32-26-23
1200	Vn					882	675	432	357	300
	Ps					0.019	0.012	0.004	0.002	0.001
	Throw					70-58-48-42	64-53-44-39	55-46-38-33	46-38-32-28	43-36-30-26
1400	Vn						787	504	417	350
	Ps						0.014	0.005	0.003	0.002
	Throw						63-52-43-38	60-50-41-36	51-43-35-31	48-40-33-29
1600	Vn						900	576	476	400
	Ps						0.02	0.006	0.005	0.003
	Throw						76-63-52-46	65-54-45-40	61-51-42-37	57-48-40-35
1800	Vn							648	536	450
	Ps							0.006	0.011	0.006
	Throw							65-54-45-40	78-65-54-48	76-61-51-45
2000	Vn							720	595	500
	Ps							0.007	0.008	0.004
	Throw							70-58-48-42	70-58-48-42	66-55-45-40
2200	Vn							792	655	550
	Ps							0.014	0.009	0.005
	Throw							79-66-55-48	47-62-51-45	70-58-48-42

PERFORMANCE NOTES FOR SERIES XG-5200

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

fpm Velocity of air stream in Feet per Minute

Ps Static pressure = $P_t - P_v$ (inches of water column)

Throw Cataloged Throw is horizontal distances in feet to the terminal velocities of 50fpm with supply air temp 20° F below room air temp. Numbers reported in chart are from left to right for 1, 2, 3 and 4 way throw patterns.

Vn Neck Velocity

MODEL XG-9000

XG-9000-1 - Surface Mounted

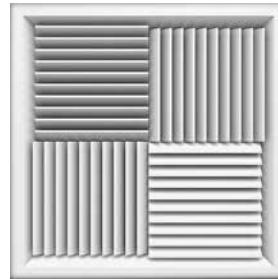
XG- 9000-2 - Beveled

XG-9000-6 - T-bar Lay-in

XG-9000-7 - Concealed Spline

XG- 9000-8 - Tegular Lay-in

XG-9000-9 - Donn Fineline Lay-in



Air Outlets shall be model XG-9000 manufactured by GREENHECK. Units shall consist of an adjustable set of modular core pattern controllers that are removable from the face of the outlet without the use of tools. Outlets shall be extruded aluminum construction. Steel border or cores are not acceptable.

The units shall be the size and quantity as outline in the plans and specifications.

Outlets shall field adjustable to obtain 1, 2-way opposite, 2-way corner, 3, and 4-way directional air patterns. Units shall be designed to integrate into the specified ceiling system.

Accessories

Optional Dampers

Aluminum opposed blade dampers shall be provided. Damper shall be adjusted using a handle accessible through the face of the diffuser.

Screwdriver slot operators are not allowed.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

CEILING
DIFFUSERS

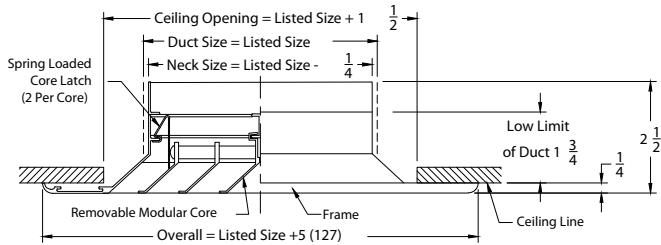
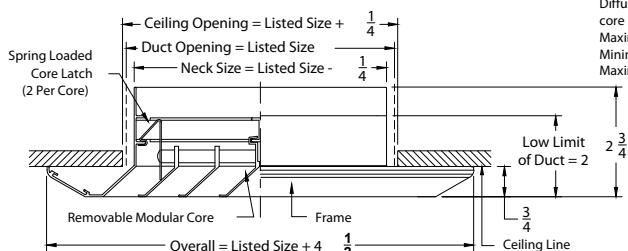
LOUVERED FACE DIFFUSERS

XG-9000

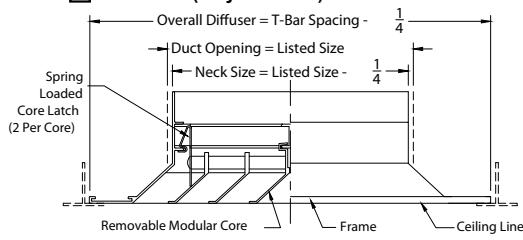
MODEL XG-9000

Square / Rectangular Modular Core Diffusers Extruded Aluminum - 1, 2 , 3 or 4 Cores

- Models: **XG-9000-1** Surface Mount
XG-9000-2 Beveled Surface Mount
XG-9000-6 Lay in T-Bar
XG-9000-6P Lay in T-Bar Panel

Model: XG-9000-1 (Surface Mount)

Model: XG-9000-2 (Beveled Surface Mount)


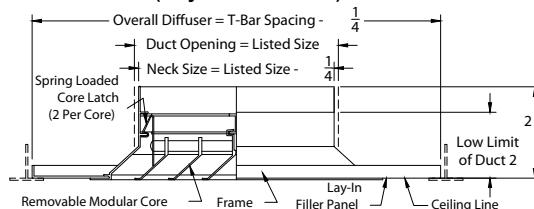
Note For XG-9000-1 and XG-9000-2 Models:
 Diffuser Listed Neck Sizes - In even multiples of core sizes. Minimum square listed neck size is 4 x 4. Maximum square listed neck size is 36 x 36. Minimum rectangular listed sizes 8 x 4. Maximum rectangular listed neck size is 36 x 24.

Model: XG-9000-6 (Lay in T-Bar)


Note For XG-9000-6 Model:
 Diffuser Listed Neck Sizes - In even multiples of core sizes. Neck Dimensions must be 8 x 8, 20 x 8 or 20 x 20 and 4 inches less than T-Bar grid size. For other neck sizes, use model XG-9000-6P.

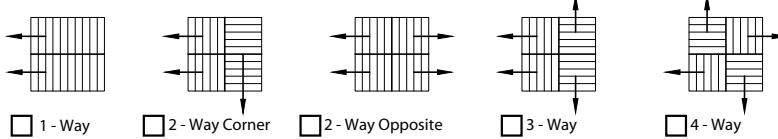
Neck Sizes Available For Models: 9000-6 and 9000-6D (with Damper)

T-Bar Spacing	Listed Neck Size	Overall Diffuser	No. Cores
12 x 12	8 x 8	11 3/4 x 11 3/4	4
24 x 12	20 x 8	23 3/4 x 23 3/4	10
24 x 24	20 x 20	23 3/4 x 23 3/4	4

Model: XG-9000-6P (Lay in T-Bar Panel)


Note For XG-9000-6P Model:
 Diffuser Listed Neck Sizes - In even multiples of core sizes. Minimum square listed neck sizes 4 x 4. Maximum square listed neck size is 36 x 36. Minimum Rectangular listed size is 8 x 4. Maximum rectangular listed neck size is 36 x 24. Listed neck size must be at least 4" less than T-Bar module.

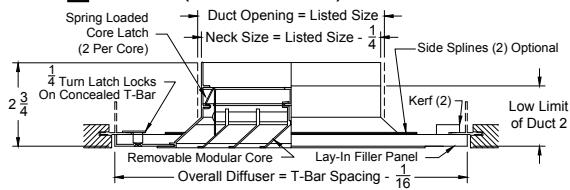
Field Adjustable Air Deflection Patterns
 Obtained By Removing and Rearranging Modular Cores in Frames.



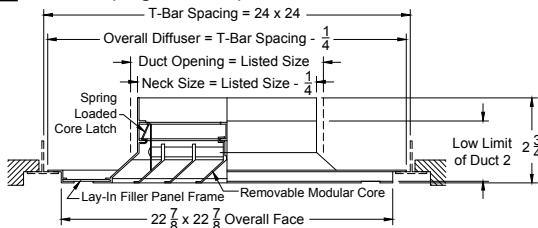
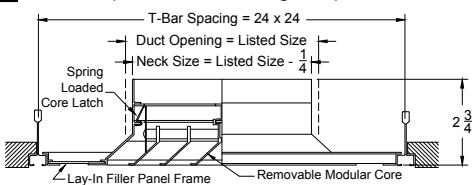
MODEL XG-9000

Square / Rectangular Modular Core Diffusers Extruded Aluminum - 1, 2, 3 or 4 Cores

- Models: XG-9000-7 Concealed T-Bar
 XG-9000-8 Tegular T-Bar
 XG-9000-9 24 x 24 Donn (USG) Ceiling Grid
- Options: XG-OBD Steel Opposed Blade Damper
 XG-OBDA Aluminum Opposed Blade Damper

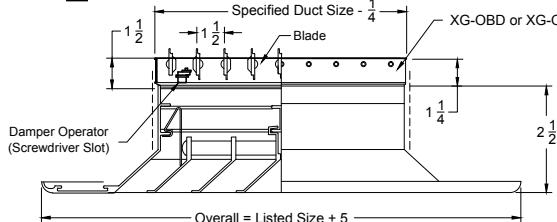
Model: XG-9000-7 (Concealed T-Bar)


Note For XG-9000-7 Model:
 Diffuser Listed Neck Sizes - In even multiples of core sizes. Minimum square listed neck size is 4 x 4. Maximum square listed neck size is 36 x 36. Minimum rectangular listed sizes 8 x 4. Maximum rectangular listed neck size is 36 x 24. Maximum diffuser listed neck size must be at least 6" less than T-Bar module.

Model: XG-9000-8 (Tegular T-Bar)

Model: XG-9000-9 (24 x 24 Donn Ceiling Grid)


Note For XG-9000-8 and XG-9000-9 Models:
 Diffuser listed neck sizes even multiples of core sizes square or rectangular at least below table. Model XG-9000-8 maximum diffuser listed size must be at least 6" less than T-Bar Module.

4 x 4	6 x 18	10 x 15
4 x 8	7 x 7	11 x 11
4 x 12	7 x 14	12 x 12
5 x 5	8 x 8	12 x 16
5 x 10	8 x 16	14 x 14
5 x 15	9 x 9	15 x 15
6 x 6	9 x 18	16 x 16
6 x 12	10 x 10	18 x 18

Options XG-OBD Steel Opposed Blade Damper
 XG-OBDA Aluminum Opposed Blade Damper


Notes: (check if provided)

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
<input type="checkbox"/> Standard Finish: 01 White Optional Finishes (additional charge): <input type="checkbox"/> 02 Satin Silver <input type="checkbox"/> 03 Black <input type="checkbox"/> 28 Custom Color	(Shipped Unattached) <input type="checkbox"/> XG-OBD - Steel Opposed Blade Damper. <input type="checkbox"/> XG-OBDA - Aluminum Opposed Blade Damper. <input type="checkbox"/> XG-L9 - Rectangular Equalizing Grid. <input type="checkbox"/> XG-TR - DEEP Square to Round Transition.		<ul style="list-style-type: none"> Sizes are only as listed.

XG-9000 MODEL NUMBER SPECIFICATION
MODULAR CORE CEILING DIFFUSER

Model		Neck											
		1 Core											
		6	8	10									
XG-9000-1	Surface Mount	6	X										
XG-9000-2	Beveled Drop Surface Mount	8		X									
		10			X								
Model		4 Core											
		6	8	10	12	14	16	18	20	22	24		
		6	X										
		8		X									
		10			X								
		12				X							
		14					X						
		16						X					
		18							X				
		20								X			
		22									X		
		24										X	

Available Accessories		Available Finishes	
XG-OBD	Steel Opposed Blade Damper	Standard	
XG-OBDA	Aluminum Opposed Blade Damper	01	White
XG-L9		Optional	
XG-TR Deep	Deep Square to Round Transition	02	Satin Silver
		03	Black
		24	Mill
		28	Custom Color

XG-9000 MODEL NUMBER SPECIFICATION
MODULAR CORE CEILING DIFFUSER

Model		Module	Neck								
				6	8	10	12	14	16	18	20
XG-9000-6	T-bar Lay-in	24 x 24	12 x 12	8		X					
				6	X						
				8		X					
				10			X				
				12				X			
				14					X		
				16						X	
				18							X
				20							X
XG-9000-7	Concealed Spline	24 x 24		6	X						
				8		X					
				10			X				
XG-9000-8	Tegular			12				X			
				14					X		
XG-9000-9	Donn Fineline			16						X	
				18							X

Available Accessories		Available Finishes	
XG-OBD	Steel Opposed Blade Damper	Standard	
XG-OBDA	Aluminum Opposed Blade Damper	01	White
XG-L9		Optional	
XG-TR Deep	Deep Square to Round Transition	02	Satin Silver
		03	Black
		24	Mill
		28	Custom Color

SERIES XG-9000 PERFORMANCE DATA
MODEL XG-9000 (SINGLE CORE)

	Neck Vel	200	300	400	500	600	700	800
Single Core Size	Outlet Vel	450	675	900	1125	1350	1575	1800
	Pt	0.013	0.028	0.50	0.079	0.114	0.155	0.202
3 x 3	CFM	13	19	25	32	38	44	50
	Throw	2-3	3-4	4-5	4-6	5-7	6-8	6-9
	NC	<20	<20	<20	<20	20	25	27
4 x 4	CFM	22	33	44	56	67	78	89
	Throw	3-4	4-5	5-7	6-8	6-9	7-10	8-11
	NC	<20	<20	<20	<20	22	27	31
5 x 5	CFM	35	52	70	87	104	122	139
	Throw	4-5	5-7	6-9	7-10	8-12	9-13	10-14
	NC	<20	<20	<20	<20	22	27	31
6 x 6	CFM	50	75	100	125	150	175	200
	Throw	4-6	6-8	7-10	8-12	9-14	10-15	11-16
	NC	<20	<20	<20	<20	25	30	34
7 x 7	CFM	68	102	136	170	204	238	272
	Throw	5-7	7-10	8-12	10-14	11-17	12-18	13-19
	NC	<20	<20	<20	21	27	32	35
8 x 8	CFM	89	133	178	222	267	311	355
	Throw	5-8	8-11	9-14	11-16	12-19	13-20	15-22
	NC	<20	<20	<20	22	27	32	36
9 x 9	CFM	112	169	225	281	337	393	459
	Throw	6-9	9-12	10-15	12-18	13-21	15-23	16-24
	NC	<20	<20	<20	23	28	33	37
10 x 10	CFM	139	208	278	347	416	486	555
	Throw	7-10	10-13	12-16	13-20	15-23	16-24	18-26
	NC	<20	<20	<20	24	29	34	38

SERIES XG-9000 PERFORMANCE DATA
MODEL XG-9000 (4 CORE)

Listed Size	Neck Vel	200			300			400			500			600			700		
	Outlet Vel	450			675			900			1125			1350			1575		
	Pt	.013			.028			.05			.079			.114			.155		
	Side	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
6 x 6	CFM		50			75			100			125			150			175	
	0.25		<20			<20			<20			20			26			31	
	4-Way Throw		2-3			3-4			4-5			4-6			5-7			6-8	
	3-Way Throw	2-3		3-4	3-4	4-6	4-5		6-7	4-6		6-8	5-7		7-10	6-8		8-11	
	2-Way Throw		3-4			4-6			6-7			6-8			7-10			8-11	
	1-Way Throw		4-6			6-8			8-10			8-12			10-14			12-16	
8 x 8	CFM		90			130			175			220			265			310	
	0.44		<20			<20			<20			23			28			33	
	4-Way Throw		3-4			4-5			5-7			6-8			6-9			7-10	
	3-Way Throw	3-4		4-6	4-5	6-7	5-7		7-10	6-8		8-11	6-9		8-13	7-10		10-14	
	2-Way Throw		4-6			6-7			7-10			8-11			8-13			10-14	
	1-Way Throw		6-8			8-10			10-14			12-16			12-18			14-20	
10 x 10	CFM		140			205			275			345			415			485	
	0.69		<20			<20			<20			23			28			33	
	4-Way Throw		4-5			5-7			6-9			7-10			8-12			9-13	
	3-Way Throw	4-5		6-7	5-7	7-10	6-9		8-13	7-10		10-14	8-12		11-17	9-13		13-18	
	2-Way Throw		6-7			7-10			8-13			10-14			11-17			13-18	
	1-Way Throw		8-10			10-14			12-18			14-20			16-24			18-26	
12 x 12	CFM		200			300			400			500			600			700	
	1.0		<20			<20			<20			25			31			36	
	4-Way Throw		4-6			6-8			7-10			8-12			9-14			10-15	
	3-Way Throw	4-6		6-8	6-8	8-11	7-10		10-14	8-12		11-17	9-14		13-20	10-15		14-21	
	2-Way Throw		6-8			8-11			10-14			11-17			13-20			14-21	
	1-Way Throw		8-12			12-16			14-20			16-24			18-28			20-30	
14 x 14	CFM		270			405			545			680			815			950	
	1.36		<20			<20			21			27			33			38	
	4-Way Throw		5-7			7-10			8-12			10-14			11-17			12-18	
	3-Way Throw	5-7		7-10	7-10	10-14	8-12		11-17	10-14		14-20	11-17		16-24	12-18		17-25	
	2-Way Throw		7-10			10-14			11-17			14-20			16-24			17-25	
	1-Way Throw		10-14			14-20			16-24			20-28			22-34			24-36	
16 x 16	CFM		355			530			710			885			1070			1245	
	1.78		<20			<20			21			28			33			38	
	4-Way Throw		5-8			8-11			9-14			11-16			12-19			13-20	
	3-Way Throw	5-8		7-11	8-11	11-16	9-14		13-20	11-16		16-22	12-19		17-27	13-20		18-28	
	2-Way Throw		7-11			11-16			13-20			16-22			17-27			18-28	
	1-Way Throw		10-16			16-22			18-28			22-32			24-38			26-40	

SERIES XG-9000 PERFORMANCE DATA
MODEL XG-9000 (4 CORE)

Listed Size	Neck Vel	200		300		400		500		600		700	
	Outlet Vel	450		675		900		1125		1350		1575	
	Pt	.013		.028		.05		.079		.114		.155	
	Side	A	B	A	B	A	B	A	B	A	B	A	B
18 x 18	CFM	450		670		900		1120		1345		1570	
	2.25	<20		<20		22		29		34		39	
	4-Way Throw	6-9		9-12		10-15		12-18		13-21		15-23	
	3-Way Throw	6-9	8-13	9-12	13-17	10-15	14-21	12-18	17-25	13-21	18-30	15-23	21-32
	2-Way Throw		8-13		13-17		14-21		17-25		18-30		21-32
	1-Way Throw		12-18		18-24		20-30		24-36		26-42		30-46
20 x 20	CFM	555		830		1110		1390		1670		1945	
	2.78	<20		<20		23		30		35		40	
	4-Way Throw	7-10		10-13		12-16		13-20		15-23		16-24	
	3-Way Throw	7-10	10-14	10-13	14-18	12-16	17-22	13-20	18-28	15-23	21-32	16-24	22-34
	2-Way Throw		10-14		14-18		17-22		18-28		21-32		22-34
	1-Way Throw		14-20		20-26		24-32		26-40		30-46		32-48
22 x 22	CFM	670		1010		1345		1680		2015		2350	
	NC	<20		<20		23		31		36		41	
	4-Way Throw	7-11		11-15		13-18		15-22		16-25		18-27	
	3-Way Throw	7-11	10-16	11-15	16-21	13-18	18-25	15-22	21-31	16-25	22-35	18-27	25-38
	2-Way Throw		10-16		16-21		18-25		21-31		22-35		25-38
	1-Way Throw		14-22		22-30		26-36		30-44		32-50		36-54
24 x 24	CFM	800		1200		1600		2000		2400		2800	
	NC	<20		<20		26		32		38		42	
	4-Way Throw	8-12		12-16		14-20		16-24		18-28		20-30	
	3-Way Throw	8-12	11-17	16-16	17-22	14-20	20-28	16-24	22-34	18-28	25-39	20-30	28-42
	2-Way Throw		11-17		17-22		20-28		22-34		25-39		28-42
	1-Way Throw		16-24		24-32		28-40		32-48		36-56		40-60

PERFORMANCE NOTES FOR SERIES XG-9000

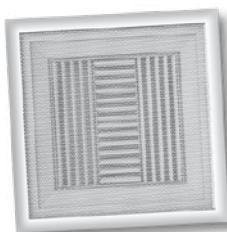
All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM	Cubic Feet per Minute
fpm	Velocity of air stream in Feet per Minute
Pv	Velocity pressure (inches of water column)
Pt	Total pressure (inches of water column)
Ps	Static pressure = Pt-Pv (inches of water column)
Throw	Horizontal distances in feet to the terminal vel of 150 and 100fpm with supply air temp 20°F below room air temp
NC	Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10 ⁻¹² watts minus a 10dB room attenuation in all octave bands

PERFORATED CEILING DIFFUSERS

MODEL XG-7000



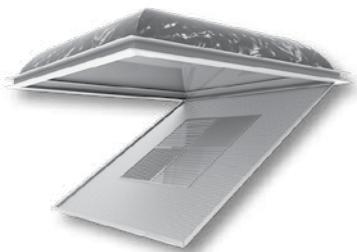
MODEL XG-PRTB AND XG-SPRTB



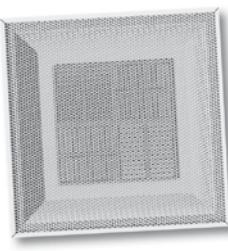
MODEL XG-7300



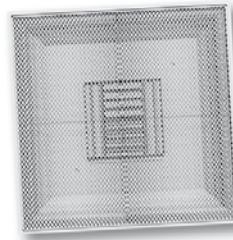
MODEL XG-7350



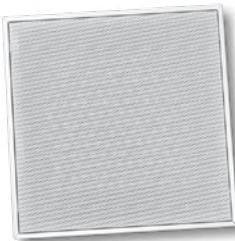
MODEL XG-7500 AND XG-7550



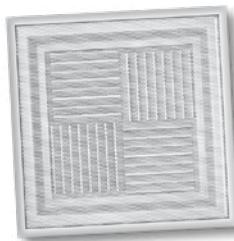
MODEL XG-7600 AND XG-7650



MODEL XG-7550R-F AND XG-7650R-F



MODEL XG-7900 AND XG-7950



Model XG-7000 is designed for use in most types of ceilings for efficient, draft free air distribution. It is ideal for applications requiring a variety of air diffusion configurations, corrosion resistant construction, and square or rectangular face and neck size combinations. Five interchangeable air pattern controllers with individually adjustable curved blades provide full vertical to horizontal air pattern capability. Six frame styles and a large selection of square and rectangular frames and neck sizes make the XG-7000 easy to specify for new or existing buildings. Matching returns are available (Model XG-7000R).

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Model XG-PRTB and XG-SPRTB are an economical choice for non-ducted plenum return application. They are shipped without pattern controllers and are for a T-Bar Grid System.

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Model XG-7300 has a round black air pattern control disc permanently attached to the inside center of a steel perforated face and a 1" thick plenum of molded fiberglass with an external layer of aluminum foil. The disc provides a 360° horizontal air pattern. The 7300 is recommended in locations where more specific air patterns are not required and the room configuration is not likely to change.

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Model XG-7350 is furnished with an extruded aluminum frame to accommodate hinging of the steel perforated face. Four air pattern controllers are centrally pivoted to the inside of the face. Each pattern controller can be rotated 360° to achieve 1, 2, 3 or 4-way air pattern even after the diffuser is installed. The diffuser also features a 1" thick plenum of molded fiberglass with an external layer of aluminum foil.

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Model XG-7500 and XG-7550 are designed for use in ceiling applications which call for air pattern adjustability in the field. The perforated face is hinged to swing open to permit easy access to four air pattern controllers centrally pivoted on the inside face surface. These units are available in both steel and aluminum construction and are also available in round neck, XG-7500, or square neck, 7550. Matching returns are available (Model XG-7500R and Model XG-7550R).

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Model XG-7600 and XG-7650 are available in both steel and aluminum construction. The hinged fully removable face allows access to the curve blade pattern controllers mounted in the neck of the diffuser. These units are available in both round neck, XG-7600, and square neck, XG-7650. Matching returns are available (Model XG-7600R and Model XG-7650R).

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Model XG-7550R-F and XG-7650R-F are perforated return filter diffusers designed to be installed in standard T-Bar ceiling grids. The hinged perforated face allows access to the filter (by others). These units are available with a 1" or 2" filter rack.

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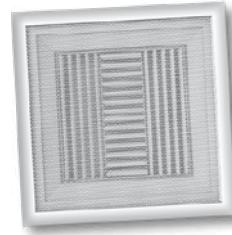
Model XG-7900 and XG-7950 are designed for supply air distribution in applications where air pattern adjustment is desired. The perforated face of the diffuser is secured with spring clips, which allows for easy removal and access to the cores. The modular cores are spring loaded and can be arranged in the diffuser frame before or after installation without the use of tools and without removing the diffuser from the ceiling. These units are available in round neck (Model XG-900) or square neck (Model XG-7950).

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MODEL XG-7000/XG-7000R

Supply – Perforated Face – Square Neck - Curved Pattern Controllers/Series XG-7000

- XG-7000-1 - Surface Mounted
- XG-7000-6 - T-bar Lay-in
- XG-7000-7 - Concealed Spline
- XG-7000-8 - Tegular T-bar
- XG-7500-9 - Donn Fineline



Air Outlets shall be aluminum model XG-7000 manufactured by GREENHECK. Units shall consist of aluminum 51% free area perforated face and an aluminum border and backpan. Perforated holes shall be 3/16" diameter on 1/4" staggered centers.

Outer border of units shall be extruded aluminum construction. The perforated face shall be removable allowing access to aluminum curved blade pattern controller mounted into the neck of the diffusers. Face shall be secured in place with tension spring clips.

Pattern controller blades shall be individually adjustable and allow the discharge pattern to be adjustable from vertical to horizontal. Pattern controller blades shall pivot in friction mounted retainers. Retainers shall hold the deflector blade position throughout the specified operating range of the device. Metal friction wires are not acceptable.

Outlets shall be available in 1, 2-way opposite, 2-way corner, 3, and 4-way directional air patterns. Units shall have square inlets. The units shall be the size and quantity as outline in the plans and specifications.

Units shall be designed to integrate into the specified ceiling system.

Return/Exhaust – Perforated Face – Square Neck/Series XG-7000

- XG-7000R-1 - Surface Mounted
- XG-7000R-6 - T-bar Lay-in
- XG-7000R-7 - Concealed Spline
- XG-7000R-8 - Tegular T-bar
- XG-7500R-9 - Donn Fineline

Air Inlets shall be aluminum model XG-7000R manufactured by GREENHECK. Units shall consist of aluminum 51% free area perforated face and an aluminum border and backpan. Perforated holes shall be 3/16" diameter on 1/4" staggered centers. Units shall be designed for use in ducted return or exhaust applications.

Outer border of units shall be extruded aluminum construction. The perforated face shall be removable allowing access to interior of diffuser. Face shall be secured in place with tension spring clips.

The units shall be the size and quantity as outline in the plans and specifications. Units shall be designed to integrate into the specified ceiling system.

Square Neck Options and Accessories:

Round Neck Optional Dampers and Accessories:

Square to Round Transitions

Units to have square to round transitions allowing installation with round ductwork.

Butterfly Damper

GREENHECK model XG-BDS aluminum round butterfly type dampers shall be provided. Damper shall consist of two butterfly style blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be accessed through the face of the diffuser.

Radial Shutter Damper

GREENHECK model XG-RSD steel round radial shutter damper shall be provided. Damper shall consist of gang operated radial blades that slide perpendicular to air flow direction. The damper shall be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be accessed through the face of the diffuser.

Opposed Blade Damper

GREENHECK model XG-D3 aluminum or XG-SD3 steel round opposed blade type dampers shall be provided. Damper shall consist of gang operated blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be accessed through the face of the diffuser.

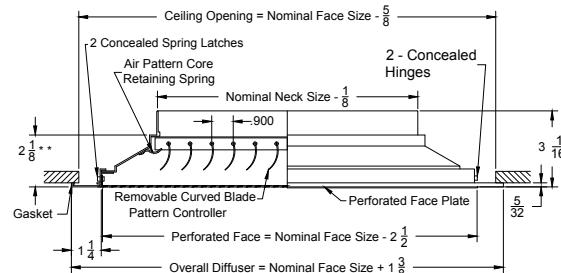
Equalizing Grid

GREENHECK model XG-G3 aluminum round equalizing grid shall be provided. Equalizing grid shall consist of 1/2" x 1/2" x 1/2" aluminum cubed core mounting in an aluminum frame.

Performance Specification

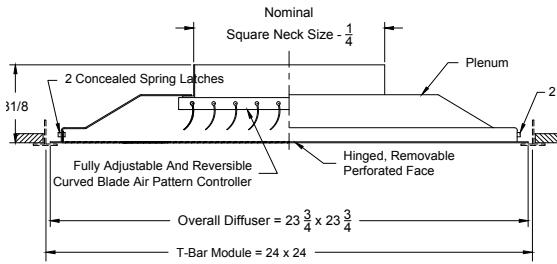
The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

Model: XG-7000-1 (Flush Ceiling Mount)

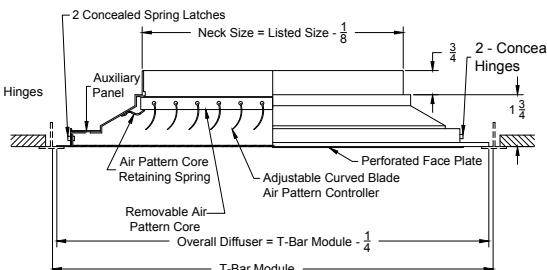


** Distance To Bottom Of Duct Should Be Maintained As Closely As Possible
 * Dimension indicates distance to bottom of duct which should be maintained as closely as possible.

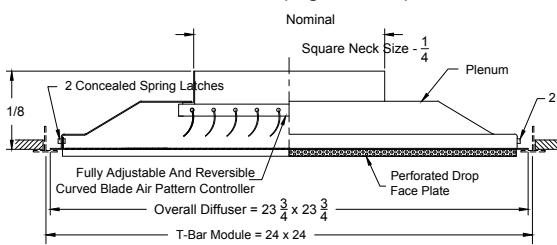
Model: XG-7000-6* (Lay in T-Bar 24x24 Grid Size)



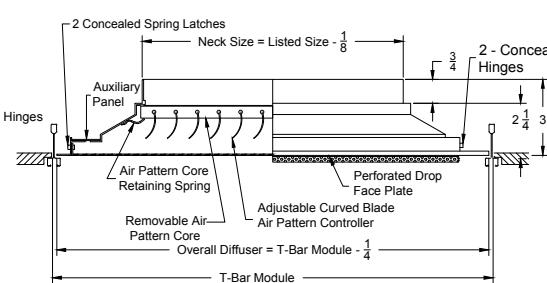
Model: XG-7000-6 Lay in T-Bar (All sizes except 24x24)

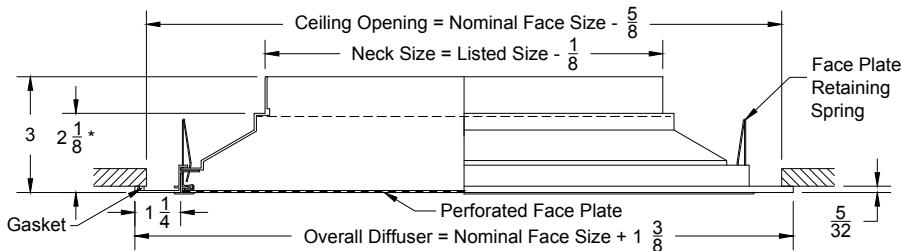
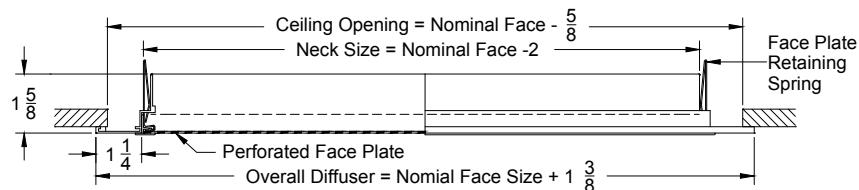
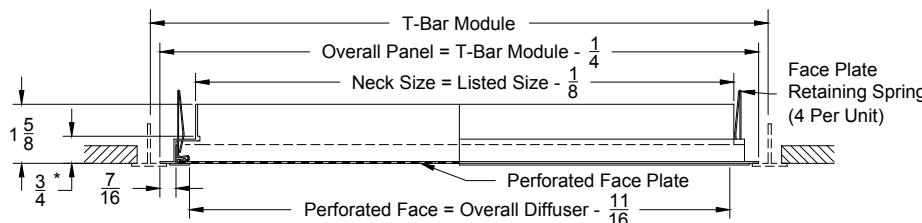


Model: XG-7000-8 (Tegular T-Bar)



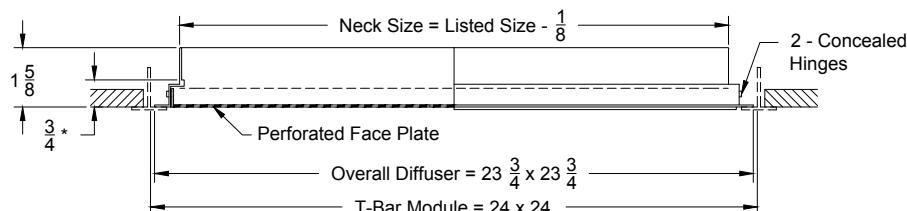
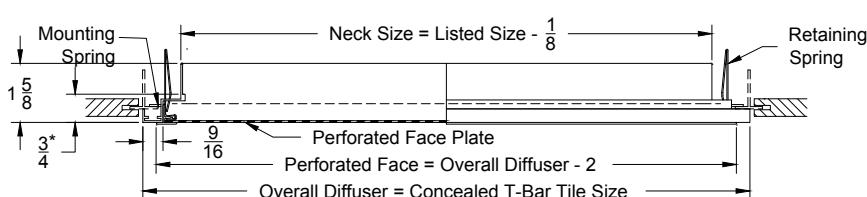
Model: XG-7000-9 (Donn Fineline Ceiling Grid)



Model: XG-7000R-1 (Surface Mount - Flat Border)

Model: XG-7000R-1 * (Surface Mount - Low Profile)

Model: XG-7000R-6 (Lay in T-Bar All sizes except 24 x 24)


Max. Listed Size For Each Module Size Shown.

Module Size	Listed Size
12 x 12	10 x 10
24 x 12	22 x 10
20 x 20	18 x 18
48 x 12	46 x 10
48 x 24	46 x 22

Model: XG-7000R-6 * (Lay in T-Bar - 24x24 Grid Size Only)

Model: XG-7000R-7 (Concealed Spline)


Max. Listed Size For Each Tile Size Shown.

Tile Size	Listed Size
12 x 12	10 x 10
24 x 12	22 x 10
24 x 24	22 x 22

Smaller Listed Sizes Are Available For Each Tile Size

* Distance To Bottom Of Duct Should Be Maintained as Closely As Possible

XG-7000 MODEL NUMBER SPECIFICATION
PERFORATED CEILING DIFFUSER – EXTRUDED ALUMINUM

Model	Neck									Module
	6	8	9	10	12	14	15	16	18	
XG-7000-1 Supply Surface Mount	6	X								12 x 12
XG-7000R-1 Return Surface Mount	6	X								14 x 14
	8		X							15 x 15
	6	X								16 x 16
	8		X							18 x 18
	9			X						20 x 20
	10				X					21 x 21
	6	X								24 x 12
	8		X							24 x 24
	9			X						36 x 12
	10				X					36 x 24
	12					X				
	14						X			
	15							X		
	16								X	
	18									
	6	X	X	X	X	X	X	X	X	48 x 12
	6	X								48 x 24
	8		X							
	9			X						
	10				X					
	12					X				
	14						X			
	15							X		
	16								X	
	18									

XG-7000 MODEL NUMBER SPECIFICATION

PERFORATED CEILING DIFFUSER — EXTRUDED ALUMINUM

Air Pattern	Available Accessories		Available Finishes	
Standard	XG-D7	Steel Opposed Blade Damper	Standard	
4W	XG-D7A	Aluminum Opposed Blade Damper	01	White
Optional	XG-L9	Equalizing Grid	Optional	
1W	XG-TR	Square to Round Transition	02	Satin Silver
2W	XG-TR Deep	Deep Square to Round Transition	03	Black
2WC	XG-G3	Round Equalizing Grid	22	Black Back Pan
3W	XG-BDS	Butterfly Damper	28	Custom Color
	XG-RSD	Radial Shutter Damper		
	XG-D3	Aluminum Round Opposed Blade Damper		
	XG-SD3	Steel Round Opposed Blade Damper		

XG-7000 MODEL NUMBER SPECIFICATION
PERFORATED CEILING DIFFUSER – EXTRUDED ALUMINUM

Model		Neck										Module
		6	8	9	10	12	14	15	16	18		
XG-7000-6	Supply T-Bar Lay-in	6	X									12 X 12
XG-7000R-6	Return T-Bar Lay-in	6	X	X	X	X	X	X	X	X		24 X 12
		6	X									
		8		X								
		9			X							
		10				X						
		12					X					
		14						X				
		15							X			
		16								X		
		18									X	
		6	X									
		8		X								
		9			X							
		10				X						
		12					X					
		14						X				
		15							X			
		16								X		
		18									X	
		6	X	X	X	X	X	X	X	X		48 X 12
		6	X									
		8		X								
		9			X							
		10				X						
		12					X					
		14						X				
		15							X			
		16								X		
		18									X	

Air Pattern	Available Accessories			Available Finishes	
Standard	XG-D7	Steel Opposed Blade Damper		Standard	
4W	XG-D7A	Aluminum Opposed Blade Damper		01	White
Optional	XG-L9	Equalizing Grid		Optional	
1W	XG-TR	Square to Round Transition		02	Satin Silver
2W	XG-TR Deep	Deep Square to Round Transition		03	Black
2WC	XG-G3	Round Equalizing Grid		22	Black Back Pan
3W	XG-BDS	Butterfly Damper		28	Custom Color
	XG-RSD	Radial Shutter Damper			
	XG-D3	Aluminum Round Opposed Blade Damper			
	XG-SD3	Steel Round Opposed Blade Damper			

XG-7000 MODEL NUMBER SPECIFICATION
PERFORATED CEILING DIFFUSER — EXTRUDED ALUMINUM

Model		Neck							Module
		6	8	9	10	12	14	15	
XG-7000-7	Concealed Spline	6	X						12 X 12 (-7 Frame Only)
XG-7000-8	Tegular Ceiling	6	X						
XG-7000-9	Donn Fineline	8		X					
		9			X				
		10				X			
		12					X		
		14						X	
		15						X	

Air Pattern	Available Accessories			Available Finishes	
Standard	XG-D7			Standard	
4W	XG-D7A		Aluminum Opposed Blade Damper		01 White
Optional	XG-L9			Optional	
1W	XG-TR		Square to Round Transition		02 Satin Silver
2W	XG-TR Deep		Deep Square to Round Transition		03 Black
2WC	XG-G3		Round Equalizing Grid		22 Black Back Pan
3W	XG-BDS		Butterfly Damper		28 Custom Color
	XG-RSD				
	XG-D3				
	XG-SD3				

SERIES XG-7000 PERFORMANCE DATA
MODEL XG-7000

Nominal Neck Size	fpm Neck Velocity Pv	200	300	400	500	600	700	800	900	
		.003	.006	.010	.016	.022	.030	.040	.050	
18 x 6	CFM	150	225	300	375	450	525	600	675	
	Pt	.016	.050	.060	.100	.140	.190	.250	.310	
	NC	<	<	20	25	30	35	40	40	
	Throw	4-Way	3-4-5	3-5-6	4-6-8	6-8-11	7-10-13	8-12-15	9-14-18	10-15-20
		3-Way	3-4-5	4-6-8	6-8-11	7-10-13	8-12-16	9-14-18	11-16-21	12-18-24
		2-Way	4-6-8	6-8-11	7-11-14	9-13-17	11-16-21	12-18-24	14-21-28	18-27-33
		1-Way	5-7-9	6-9-12	8-12-16	11-16-21	13-19-25	15-22-29	17-25-33	19-28-38
12 x 12	CFM	200	300	400	500	600	700	800	900	
	Pt	.016	.045	.066	.100	.150	.200	.260	.330	
	NC	<	20	25	25	30	35	40	40	
	Throw	4-Way	3-5-6	4-6-8	5-7-10	6-9-12	8-12-15	9-13-17	10-15-20	12-17-23
		3-Way	3-5-6	5-7-9	6-9-12	8-12-15	9-14-18	11-16-22	13-19-25	14-20-27
		2-Way	5-7-9	6-9-12	8-12-16	11-16-21	12-18-24	15-22-29	17-25-33	18-27-36
		1-Way	6-9-12	8-12-16	10-15-20	12-18-24	15-22-29	17-25-33	18-27-36	21-31-42
14 x 14	CFM	270	410	545	680	815	950	1090	1225	
	Pt	.018	.040	.070	.110	.160	.220	.280	.360	
	NC	<	20	25	28	33	37	40	43	
	Throw	4-Way	4-5-7	4-6-9	6-9-12	7-11-14	9-14-18	10-15-20	12-18-24	14-21-28
		3-Way	4-5-9	5-8-11	6-10-13	8-13-16	10-15-20	11-17-23	13-19-27	16-23-31
		2-Way	5-7-10	6-9-13	8-12-18	11-17-22	12-19-26	16-23-31	18-26-36	19-29-39
		1-Way	6-9-12	8-12-18	10-15-22	13-19-26	15-23-30	17-25-35	19-28-39	21-31-43
15 x 15	CFM	310	470	625	780	935	1090	1250	1405	
	Pt	.018	.050	.070	.110	.160	.210	.280	.350	
	NC	<	20	25	30	35	40	40	45	
	Throw	4-Way	4-6-8	5-7-10	7-10-13	8-12-16	10-15-20	12-17-23	13-19-26	15-23-30
		3-Way	5-7-9	6-9-12	8-12-15	9-14-18	11-16-22	13-19-26	15-23-30	18-26-35
		2-Way	6-9-12	9-14-15	12-17-20	13-19-26	16-22-31	18-27-36	20-30-40	23-33-43
		1-Way	7-11-14	9-14-18	11-18-22	14-21-28	16-24-32	19-28-38	21-31-42	23-34-45
16 x 16	CFM	355	590	710	885	1060	1240	1415	1595	
	Pt	.018	.047	.070	.109	.155	.212	.280	.350	
	NC	<	20	25	30	35	40	40	45	
	Throw	4-Way	5-7-9	6-8-11	8-10-14	9-13-18	10-15-21	13-18-27	14-20-28	16-22-31
		3-Way	5-7-11	6-9-13	8-13-17	10-15-22	13-19-26	15-22-30	18-25-36	19-29-39
		2-Way	6-10-12	9-14-16	11-17-24	14-21-28	17-25-32	19-26-34	21-34-40	24-34-44
		1-Way	7-10-16	9-15-18	12-18-26	15-22-32	18-27-36	19-28-37	24-35-42	26-36-46
18 x 18	CFM	450	675	900	1125	1350	1575	1800	2025	
	Pt	.019	.050	.070	.110	.160	.220	.290	.360	
	NC	<	20	25	30	35	40	40	45	
	Throw	4-Way	5-7-10	6-9-12	8-12-16	10-15-20	12-18-24	14-21-28	16-24-32	18-27-36
		3-Way	5-7-12	7-11-14	9-14-18	11-16-22	13-19-26	16-24-31	18-27-36	21-31-41
		2-Way	8-12-18	10-15-20	13-19-26	16-24-32	20-29-39	23-34-45	26-39-52	29-43-58
		1-Way	9-14-22	11-16-24	15-23-30	18-27-36	22-32-43	25-37-49	28-42-56	30-45-60

SERIES XG-7000 PERFORMANCE DATA
MODEL XG-7000R

Nominal Neck Size	fpm Neck Velocity	200	300	400	500	600	700	800
	Pv	.013	.030	.050	.080	.110	.150	.200
6 x 6	CFM	50	75	100	125	150	175	200
	NC	<	<	<	<	20	25	30
8 x 6	CFM	65	100	130	165	200	230	265
	NC	<	<	<	<	20	25	30
8 x 8	CFM	90	130	175	220	265	310	350
	NC	<	<	<	20	25	30	35
9 x 9	CFM	110	170	225	280	335	390	450
	NC	<	<	<	20	25	30	35
10 x 6	CFM	80	125	165	205	245	290	330
	NC	<	<	<	20	25	30	35
10 x 10	CFM	140	210	275	345	415	485	550
	NC	<	<	<	20	25	30	35
12 x 6	CFM	100	150	200	250	300	350	400
	NC	<	<	<	20	25	30	35
12 x 12	CFM	200	300	400	500	600	700	800
	NC	<	<	<	20	25	30	35
15 x 15	CFM	310	470	625	780	935	1090	1250
	NC	<	<	20	25	30	35	40
18 x 18	CFM	450	675	900	1125	1350	1575	1800
	NC	<	<	20	25	30	35	40
20 x 20	CFM	555	830	1110	1385	1660	1940	2215
	NC	<	<	20	28	33	38	42
22 x 10	CFM	305	455	610	760	910	1065	1215
	NC	<	<	20	25	30	35	40
22 x 22	CFM	670	1010	1345	1680	2015	2350	2690
	NC	<	<	20	28	33	38	42
34 x 22	CFM	1040	1555	2075	2595	3115	3635	4150
	NC	<	<	20	28	35	40	45
46 x 22	CFM	1405	2105	2810	3510	4210	4915	5615
	NC	<	<	23	30	38	42	45

PERFORMANCE NOTES FOR SERIES XG7000

All data is tested in accordance with ANSI/ASHRAE 70-2006.

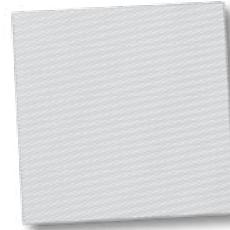
DEFINITION OF UNITS

CFM	Cubic Feet per Minute (air)
fpm	Velocity of air stream in Feet per Minute
Pv	Velocity pressure (inches of water column)
Pt	Total pressure (inches of water column)
Ps	Static pressure = Pt-Pv (inches of water column)
Throw	Cataloged throw is horizontal distances in feet to the terminal velocities of 150, 100 and 50fpm with supply air temp 20° F below room air temp
NC	Noise criteria, sound pressure level NC ratings are based on sound power level (L_w) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands

MODEL XG-PRTB/XG-SPRTB

Return or Exhaust - Perforated Face Only - Non Ducted/ Series XG-PRTB Aluminum Steel

XG-PRTB-6 - T-bar Lay-in
XG-SPRTB-6 - T-bar Lay-in
XG-PRTB-8 - Tegular T-bar
XG-SPRTB-8 - Tegular T-bar
XG-PRTB-9 - Donn Fineline
SPRTB-9 - Donn Fineline



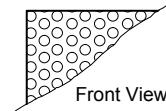
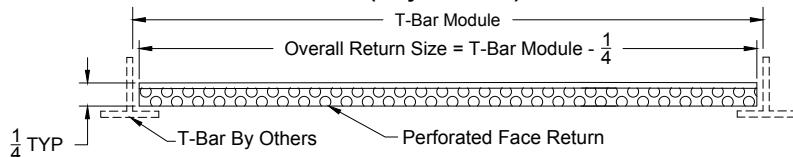
Air Inlets shall be aluminum model XG-PRTB or steel XG-SPRTB manufactured by GREENHECK. Units shall be designed for use in a non- duct return or exhaust applications. Units shall consist of a 51% free area perforated face. Perforated holes shall be 3/16" diameter on 1/4" staggered centers.

The units shall be the size and quantity as outline in the plans and specifications. Units shall be designed to integrate into the specified ceiling system.

Performance Specification

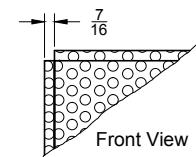
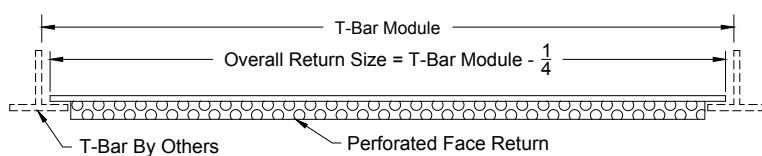
The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

Models: XG-PRTB-6 and XG-SPRTB-6 (Lay in T-Bar)



Front View

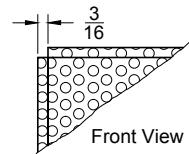
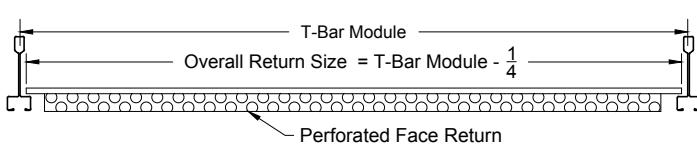
Models: XG-PRTB-8 and XG-SPRTB-8 (Tegular T-Bar)



Front View

$\frac{7}{16}$
 Perforated Face Return
 3/16 Diameter Holes ON
 1/4 Staggered Centers

Models: XG-PRTB-9 and XG-SPRTB-9 (Donn Fineline Ceiling Grid)



Front View

Available Sizes (Width x Height)

Perimeter Style	T-Bar Spacing	Actual Face Size		
		- 6	- 8	- 9
- 6	12 x 12	11 3/4 x 11 3/4		
- 6, - 8, - 9	24 x 12	23 3/4 x 11 3/4	22 7/8 x 10 7/8	23 3/8 x 11 3/8
- 6, - 8, - 9	24 x 24	23 3/4 x 23 3/4	22 7/8 x 22 7/8	23 3/8 x 23 3/8
- 6	36 x 24	35 3/4 x 23 3/4		
- 6	48 x 12	47 3/4 x 11 3/4		
- 6	48 x 24	47 3/4 x 23 3/4		

XG-PRTB / XG-SPRTB MODEL NUMBER SPECIFICATION
NON-DUCTED PERFORATED FACE ONLY ALUMINUM

Model		Module	Available Finishes	
XG-PRTB-6	T-bar Lay-in	12 x 12 24 x 12 24 x 24 36 x 24 48 x 12 48 x 24	Standard	
XG-PRTB-8	Tegular T-bar		01	White
XG-PRTB-9	Donn Fineline		Optional	
			02	Satin Silver
			03	Black
			24	MIII
			28	Custom Color

NON-DUCTED PERFORATED FACE ONLY STEEL

Model		Module	Available Finishes	
XG-SPRTB-6	T-bar Lay-in	12 x 12 24 x 12 24 x 24 36 x 24 48 x 12 48 x 24	Standard	
XG-SPRTB-8	Tegular T-bar		01	White
XG-SPRTB-9	Donn Fineline		Optional	
			02	Satin Silver
			03	Black
			28	Custom Color

SERIES XG-PRTB PERFORMANCE DATA
MODEL XG-PRTB / XG-SPRTB

Nominal Neck Size	fpm Neck Velocity	200	300	400	500	600	700	800
	Pv	0.01	0.03	0.05	0.08	0.11	0.15	0.19
12 x 12	CFM	170	250	335	420	505	590	670
	NC	<	<	<	20	25	30	35
24 x 12	CFM	350	525	700	875	1050	1225	1400
	NC	<	<	20	25	30	35	40
24 x 24	CFM	735	1100	1470	1835	2200	2570	2935
	NC	<	<	20	28	33	38	42
36 x 24	CFM	1120	1680	2235	2795	3355	3915	4470
	NC	<	<	25	30	35	40	45
48 x 12	CFM	735	1100	1470	1835	2200	2570	2935
	NC	<	<	20	28	33	38	42
48 x 24	CFM	1500	2250	3000	3750	4500	5250	6000
	NC	<	<	20	28	33	38	42

PERFORMANCE NOTES FOR SERIES XG-PRTB / XG-SPRTB

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

fpm Velocity of air stream in Feet per Minute

Pv Velocity pressure (inches of water column)

Pt Total pressure (inches of water column)

Ps Static pressure = Pt-Pv (inches of water column)

NC Noise criterion, sound pressure level NC ratings are based on sound power level (L_w) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands

MODEL XG-7300



**Supply - Perforated Face -
Integral Fiberglass Backpan -
Fixed Deflector Fixed Steel Face Fixed Aluminum Face**

XG-7300-6 - Surface Mounted

XG-7300-6 AF - Surface Mounted

Air Outlets shall be aluminum face model XG-7300 or steel face model XG-7300 AF manufactured by GREENHECK. Units shall consist of 51% free area perforated face fixed to a formed fiberglass backpan. Exposed fiberglass backpan shall have an aluminum foil liner. The outlet's backpan shall be factory scored to allow field installation of a tab lock collar or spin-in fittings.

Perforated holes shall be 3/16" diameter on 1/4" staggered centers.

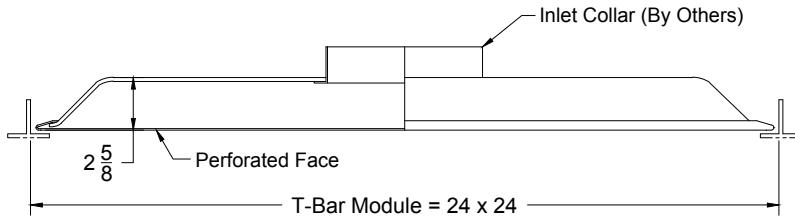
Unit shall generate a 360° horizontal pattern with a fixed round pattern disk mounted on the inside face of the perforated face. The units shall be the size and quantity as outline in the plans and specifications.

Units shall be designed to integrate into the specified ceiling system.

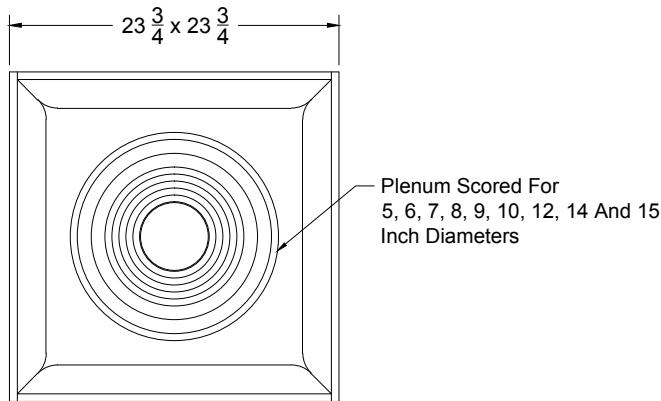
Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

Models: XG-7300R-6 (Steel Fixed Face - Lay in T-Bar - Return)
 XG-7300R-6 AF (Aluminum Fixed Face - Lay in T-Bar -Return)



Back View (All Models)



SERIES XG-7300 PERFORMANCE DATA
MODEL XG-7300

Neck Size	fpm Neck Velocity	200	300	400	500	600	700	800	900	1000
	Pv	.002	.006	.010	.016	.022	.030	.040	.050	.062
5	CFM	25	40	55	70	80	95	110	120	138
	Pt	.003	.008	.016	.025	.033	.045	.060	.076	.094
	Throw	1-1-1	1-1-1	1-1-1	1-1-3	1-1-4	1-1-4	1-1-5	1-2-6	1-3-6
	NC	<	<	<	<	<	<	21	24	27
6	CFM	40	60	80	100	115	135	155	175	196
	Pt	.004	.009	.016	.027	.035	.049	.066	.078	.105
	Throw	1-1-1	1-1-1	1-1-4	1-2-4	1-2-5	1-3-6	2-3-7	2-3-8	2-4-10
	NC	<	<	<	<	22	26	30	35	38
7	CFM	50	80	105	135	160	185	210	240	265
	Pt	.005	.013	.026	.036	.050	.068	.088	.115	.140
	Throw	1-1-1	1-1-3	1-1-4	1-2-4	1-2-5	1-3-6	2-3-7	2-3-8	2-4-10
	NC	<	<	<	20	23	26	30	34	37
8	CFM	70	105	140	175	210	245	280	315	350
	Pt	.006	.013	.026	.037	.054	.073	.096	.121	.150
	Throw	1-1-2	1-1-3	1-2-5	2-2-5	2-3-6	2-3-8	2-4-10	3-5-11	3-6-12
	NC	<	<	<	20	23	26	30	34	38
9	CFM	90	130	175	220	265	310	350	395	440
	Pt	.007	.014	.026	.042	.060	.083	.105	.134	.166
	Throw	1-1-2	1-1-3	1-2-5	2-2-5	2-3-6	2-3-8	2-4-10	3-5-11	3-6-13
	NC	-	-	-	22	26	30	34	38	41
10	CFM	110	160	215	270	325	380	435	490	545
	Pt	.008	.018	.033	.052	.075	.111	.135	.171	.212
	Throw	1-2-3	1-2-4	1-2-5	2-3-6	2-3-7	3-4-8	3-4-10	3-5-12	4-7-14
	NC	<	<	20	23	26	29	34	38	41
12	CFM	155	235	315	390	470	550	630	705	785
	Pt	.009	.021	.039	.059	.086	.118	.155	.194	.240
	Throw	1-2-4	1-2-5	1-2-7	2-3-9	2-5-11	3-6-13	4-7-14	6-9-18	7-11-21
	NC	<	20	24	27	30	34	38	42	45
14	CFM	210	320	425	535	640	750	855	960	1070
	Pt	.010	.022	.039	.063	.091	.124	.162	.210	.253
	Throw	1-2-6	1-3-9	2-5-11	3-6-13	4-8-16	5-9-18	7-11-23	9-13-27	10-16-32
	NC	<	20	24	28	32	36	40	45	48
15	CFM	245	370	490	610	735	860	980	1105	1225
	Pt	.015	.034	.060	.093	.135	.185	.240	.305	.375
	Throw	1-3-9	2-5-11	3-6-13	4-8-16	5-10-18	7-11-23	9-13-27	10-16-32	11-16-33
	NC	<	23	28	33	38	43	48	53	55

PERFORMANCE NOTES FOR SERIES XG-7300

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM	Cubic Feet per Minute (air)
fpm	Velocity of air stream in Feet per Minute
Pv	Velocity pressure (inches of water column)
Pt	Total pressure (inches of water column)
Ps	Static pressure = Pt-Pv (inches of water column)
Throw	Cataloged Throw is horizontal distances in feet to the terminal velocities of 150, 100 and 50fpm with supply air temp 20° F below room air temp
NC	Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10 ⁻¹² watts minus a 10dB room attenuation in all octave bands

XG-7300 MODEL NUMBER SPECIFICATION

FOIL LINED FIBERGLASS BACK PERFORATED SUPPLY DIFFUSER

Model		Module	Available Finishes	
XG-7300-6	T-bar Lay-in Steel	24 x 24	Standard	
XG-7300-6 AF	T-bar Lay-in Aluminum Face		01	White
XG-7300R-6	T-bar Lay-in Steel		Optional	
XG-7300R-6 AF	T-bar Lay-in Aluminum Face		02	Satin Silver
			03	Black
			28	Custom Color

MODEL XG-7350

**Supply - Perforated Face - Fiberglass Backpan -
Adjustable Pattern Controllers/
Series XG-7350 Steel Face Aluminum Face**

XG-7350-6 - T-bar Lay-in
XG-7350-8 - Tegular T-bar



Air Outlets shall be aluminum face model XG-7350 or steel face model XG-7350 AF manufactured by GREENHECK. Units shall consist of 51% free area perforated face fixed to a formed fiberglass backpan. Perforated holes shall be 3/16" diameter on 1/4" staggered centers. Exposed fiberglass backpan shall have an aluminum foil liner. The outlet's backpan shall be factory scored to allow field installation of a tab lock collar or spin-in fittings

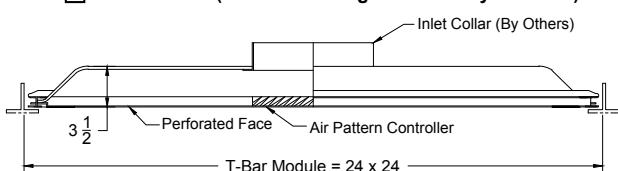
Outer border of units shall be extruded aluminum construction. The perforated face shall be hinged allowing access to four adjustable pattern controllers mounted onto the inside face of the outlet. Face shall be secured in place with tension spring clips. Pattern controller blades shall be individually adjustable and allow the discharge pattern to be adjustable from vertical to horizontal. Outlets shall be field adjustable allowing 1, 2-way opposite, 2-way corner, 3, and 4-way directional air patterns.

The units shall be the size and quantity as outline in the plans and specifications. Units shall be designed to integrate into the specified ceiling system.

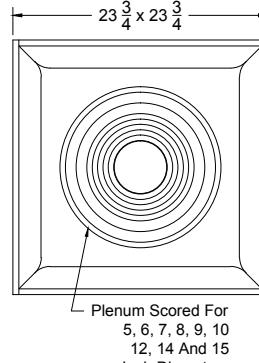
Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

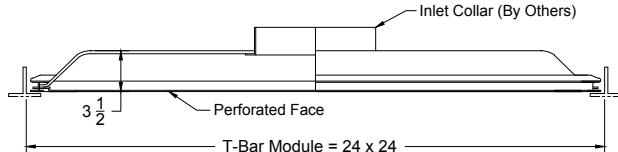
Models: XG-7350-6 (Steel Hinged Face - Lay in T-Bar)
 XG-7350-6 AF (Aluminum Hinged Face - Lay in T-Bar)



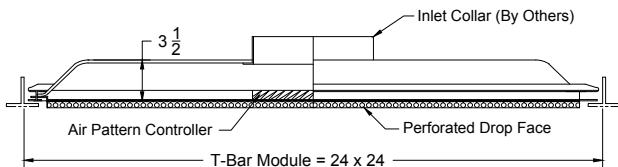
Back View (All Models)



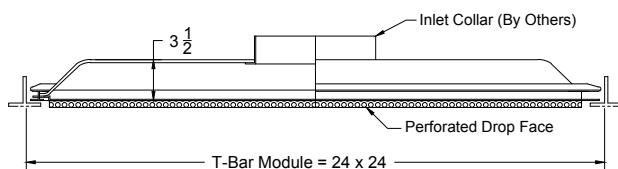
Models: XG-7350R-6 (Steel Removable Face - Lay in T-Bar)
 XG-7350R-6 AF (Aluminum Removable Face - Lay in T-Bar)



Model: XG-7350-8 (Steel - Tegular T-Bar - Hinged Drop Face)



Model: XG-7350R-8 (Steel - Tegular T-Bar - Hinged Removable Drop Face)



SERIES XG-7350 PERFORMANCE DATA

Nominal Neck Size	fpm Neck Velocity	300	400	500	600	700	800	1000	
	Pv	.006	.010	.016	.023	.031	.040	.062	
6	CFM	60	80	100	115	135	155	195	
	Pt	.012	.022	.034	.045	.062	.083	.131	
	NC	<	<	<	-	20	24	31	
	Throw	4-Way	1-1-3	1-1-4	1-2-4	1-2-5	1-3-6	2-3-7	2-3-8
		3-Way	1-1-3	1-2-4	2-2-5	2-3-6	2-3-6	2-3-8	2-4-8
		2-Way	1-2-4	1-2-5	2-3-5	2-4-6	3-4-7	3-4-9	3-4-9
		1-Way	1-2-5	1-3-5	3-4-6	3-4-7	3-4-8	3-5-9	3-5-10
8	CFM	105	140	175	210	245	280	350	
	Pt	.017	.031	.048	.070	.095	.124	.195	
	NC	<	<	<	21	26	30	36	
	Throw	4-Way	1-1-3	1-2-5	2-2-5	2-3-6	2-3-8	2-4-10	3-5-11
		3-Way	1-2-3	1-2-5	2-3-5	2-3-6	3-3-8	3-4-11	3-5-12
		2-Way	1-2-4	1-3-5	2-4-6	3-4-7	3-4-9	3-5-12	4-6-13
		1-Way	2-3-5	2-4-5	3-4-7	3-5-8	3-5-10	3-6-13	4-6-14
10	CFM	165	220	270	325	380	435	545	
	Pt	.020	.035	.053	.077	.106	.138	.218	
	NC	<	<	22	28	33	37	43	
	Throw	4-Way	1-2-4	1-2-5	2-3-6	2-3-7	3-4-8	3-4-10	3-5-12
		3-Way	1-2-4	1-3-6	2-3-7	2-4-8	3-5-9	3-5-12	3-6-13
		2-Way	1-2-5	2-3-6	3-4-8	3-4-8	3-6-10	3-6-14	4-7-15
		1-Way	2-3-6	2-4-7	3-5-8	3-5-10	4-7-11	4-7-14	5-9-16
12	CFM	235	315	390	470	550	630	785	
	Pt	.032	.059	.090	.131	.180	.236	.367	
	NC	<	<	25	29	35	40	46	
	Throw	4-Way	1-2-4	2-2-8	3-3-8	3-5-10	3-5-11	4-6-12	5-7-14
		3-Way	2-3-5	2-3-8	3-4-9	3-5-11	4-6-13	4-7-14	5-8-15
		2-Way	2-3-6	3-4-8	3-5-11	3-6-12	4-7-13	5-8-15	6-9-16
		1-Way	3-4-8	3-5-9	4-6-12	4-7-13	5-8-14	6-9-16	7-10-18
14	CFM	320	425	535	640	750	855	1070	
	Pt	.039	.068	.108	.156	.213	.277	.435	
	NC	<	23	29	34	39	44	50	
	Throw	4-Way	2-3-6	3-4-8	3-5-11	4-6-13	4-7-14	5-8-15	6-9-17
		3-Way	2-4-7	3-5-9	3-6-12	4-7-14	5-8-16	5-9-17	6-10-18
		2-Way	2-5-8	3-5-10	3-7-13	5-8-15	6-10-17	7-10-18	8-11-19
		1-Way	3-5-9	4-8-11	4-8-14	6-9-16	7-11-18	8-12-19	9-12-20

PERFORMANCE NOTES FOR SERIES XG-7350

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM	Cubic Feet per Minute (air)
fpm	Velocity of air stream in Feet per Minute
Pv	Velocity pressure (inches of water column)
Pt	Total pressure (inches of water column)
Ps	Static pressure = Pt-Pv (inches of water column)
Throw	Cataloged throw is horizontal distances in feet to the terminal velocities of 150, 100 and 50fpm with supply air temp 20°F below room air temp
NC	Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10 ⁻¹² watts minus a 10dB room attenuation in all octave bands

CEILING
DIFFUSERS

PERFORATED
CEILING DIFFUSERS

XG-7350

XG-7350 MODEL NUMBER SPECIFICATION

FOIL LINED FIBERGLASS BACK PERFORATED SUPPLY DIFFUSER – HINGED FACE

Model		Module 24 x 24	Available Finishes	
XG-7350-6	T-bar Lay-in Steel		Standard	
XG-7350-6 AF	T-bar Lay-in Aluminum Face		01	White
XG-7350-8	Tegular T-bar Steel		Optional	
XG-7350R-6	T-bar Lay-in Steel		02	Satin Silver
XG-7350R-6 AF	T-bar Lay-in Aluminum Face		03	Black
XG-7350R-8	Tegular T-bar Steel		28	Custom Color

MODEL XG-7500

**Perforated Diffuser – Round Neck -
Adjustable Face Mounted Pattern Controllers**

Supply – Model XG-7500

XG-7500-1 - Surface Mount Steel

XG-7500-1 AF - Surface Mount Aluminum Face

XG-7500-1 DF - Surface Mount Drop Face

XG-7500-6 - T-bar Lay-in Steel

XG-7500-6 AL - T-bar Lay-in Aluminum

XG-7500-6 AF - T-bar Lay-in Aluminum Face

XG-7500-8 - Tegular T-bar Steel

XG-7500-8 AL - Tegular T-bar Aluminum

XG-7500-8 AF - Tegular T-bar Aluminum Face

XG-7500-9 - Donn Fineline Steel

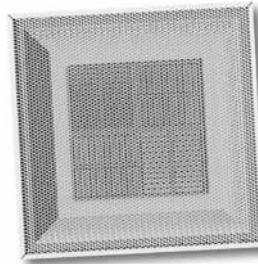
XG-7500-9 AF - Donn Fineline Aluminum Face

Air Outlets shall be model XG-7500 in steel, XG-7500-AL aluminum, XG-7500-AF with aluminum face or XG-7500-DF with a dropped face manufactured by GREENHECK.

Units shall consist of 51% free area perforated face with 3/16" diameter perforated holes on 1/4" staggered centers. The perforated face shall be hinged allowing access to four adjustable pattern controllers mounted onto the inside face of the outlet. Face shall be secured in place with tension spring clips. Pattern controller blades shall be individually adjustable and allow the discharge pattern to be adjustable from vertical to horizontal.

Outlets shall be field adjustable allowing 1, 2-way opposite, 2-way corner, 3, and 4-way directional air patterns. The units shall be the size and quantity as outlined in the plans and specifications.

Units shall be designed to integrate into the specified ceiling system.



MODEL XG-7500R

XG-7500R-1 - Surface Mounted Steel

XG-7500R-1 AF - Surface Mounted Aluminum Face

XG-7500R-1 DF - Surface Mounted Dropped Face

XG-7500R-6 - T-bar Lay-in Steel

XG-7500R-6 AL - T-bar Lay-in Aluminum

XG-7500R-6 AF - T-bar Lay-in Aluminum Face

XG-7500R-8 - Tegular T-bar Steel

XG-7500R-8 AL - Tegular T-bar Aluminum

XG-7500R-8 AF - Tegular T-bar Aluminum Face

XG-7500R-9 - Donn Fineline Steel

XG-7500R-9 AF - Donn Fineline Aluminum Face

Air Outlets shall be model XG-7500R in steel, XG-7500R-AL aluminum, XG-7500R-AF with aluminum face or XG-7500R-DF with a dropped face manufactured by GREENHECK.

Units shall consist of a 51% free area perforated face with 3/16" diameter perforated holes on 1/4" staggered centers. Units shall be designed for use in ducted return or exhaust applications.

The perforated face shall be hinged allowing access to the inside of the backpan. Face shall be secured in place with tension spring clips. The units shall be the size and quantity as outlined in the plans and specifications.

Units shall be designed to integrate into the specified ceiling system.

Optional Dampers and Accessories

Butterfly Damper

GREENHECK model XG-BDS aluminum round butterfly type dampers shall be provided. Damper shall consist of two butterfly style blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screwdriver slot that can be assessed through the face of the diffuser.

Radial Shutter Damper

GREENHECK model XG-RSD steel round radial shutter damper shall be provided. Damper shall consist of gang operated radial blades that slide perpendicular to air flow direction. The damper shall be adjusted from full open to full closed. Damper shall be adjusted with a screwdriver slot that can be assessed through the face of the diffuser.

Opposed Blade Damper

GREENHECK model XG-D3 aluminum or XG-SD3 steel round opposed blade type dampers shall be provided. Damper shall consist of gang operated blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screwdriver slot that can be assessed through the face of the diffuser.

Equalizing Grid

GREENHECK model XG-G3 aluminum, round equalizing grid shall be provided. Equalizing grid shall consist of 1/2" x 1/2" x 1/2" aluminum cubed core mounting in an aluminum frame.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

Paint Specification

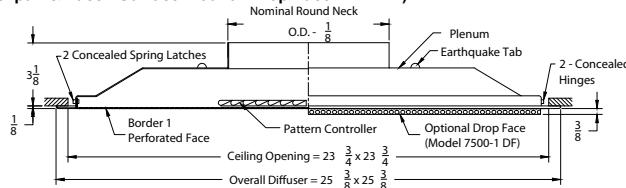
Process shall be anodic electrodeposition using an anodic acrylic paint. Units shall undergo pre-treatment including a pressurized spray stage using an alkaline cleaner and a de-ionized water rinse.

MODEL XG-7500

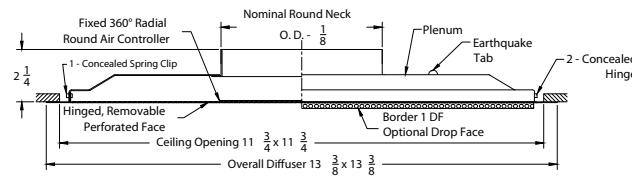
Perforated Supply Diffuser - 12 x 12 and 24 x 24 Module Round Neck - Face Mounted Adjustable Pattern Controller

- Models: XG-7500-1 Steel Backpan & Face - Surface Mount
 XG-7500-1 DF Steel Backpan & Face - Surface Mount - Drop Face
 XG-7500-1 AF Steel Backpan & Aluminum Face - Surface Mount
 XG-7500-6 Steel Backpan & Face - Lay in T-Bar
 XG-7500-6 AF Steel Backpan & Aluminum Face - Lay in T-Bar
 XG-7500-6 AL Aluminum Backpan & Face - Lay in T-Bar

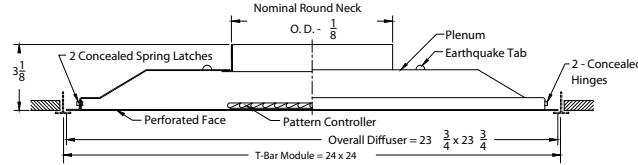
- Model: XG-7500 -1 (Steel Backpan & Face - Surface Mount - 24 x 24)
 XG-7500-1 AF (Steel Backpan & Aluminum Face - Surface Mount - 24 x 24)
 XG-7500-1 DF (Steel Backpan & Face - Surface Mount - Drop Face - 24 x 24)



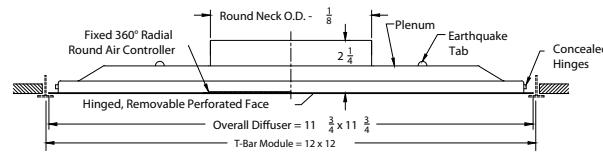
- Model: XG-7500-1 (Steel Backpan & Face - Surface Mount - 12 x 12)
 XG-7500-1 AF (Steel Backpan & Aluminum Face - Surface Mount - 12 x 12)
 XG-7500-1 DF (Steel Backpan & Face - Surface Mount - 12 x 12)



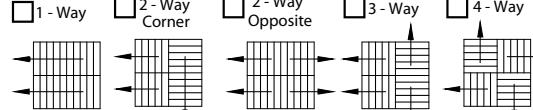
- Model: XG-7500 -6 (Steel Backpan & Face - Lay in T-Bar - 24 x 24)
 XG-7500-6AF (Steel Backpan & Aluminum Face - Lay in T-Bar - 24 x 24)
 XG-7500-6AL (Aluminum Backpan & Face - Lay in T-Bar - 24x24)



- Model: XG-7500 -6 (Steel Backpan & Face - Lay in T-Bar - 12 x 12)
 XG-7500-6AF (Steel Backpan & Aluminum Face - Lay in T-Bar - 12 x 12)
 XG-7500-6AL (Aluminum Backpan & Face - Lay in T-Bar - 12x12)



Air Deflection Patterns Obtained By Adjusting Air Pattern Controllers

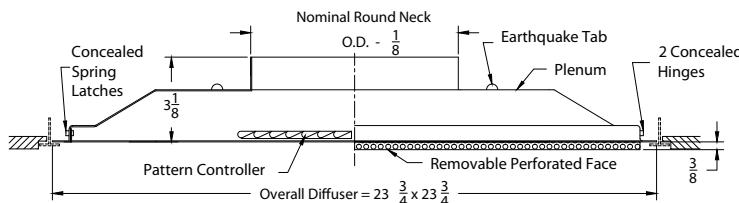


MODEL XG-7500

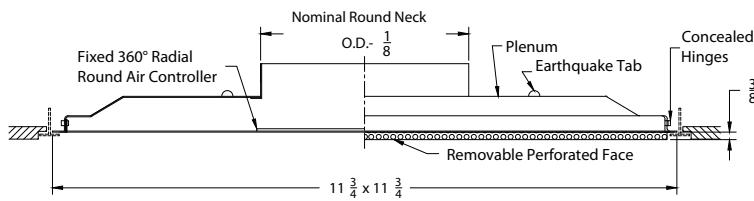
Perforated Supply Diffuser - 12 x 12 and 24 x 24 Module Round Neck - Face Mounted Adjustable Pattern Controller

Models: XG-7500-8 Steel Backpan & Face - Tegular T-Bar
 XG-7500-8 AF Steel Backpan & Aluminum Face - Tegular T-Bar
 XG-7500-8 AL Aluminum Backpan and Face - Tegular T-Bar
 XG-7500-9 Steel Backpan & Face - 24 x 24 Donn (USG) Ceiling Grid

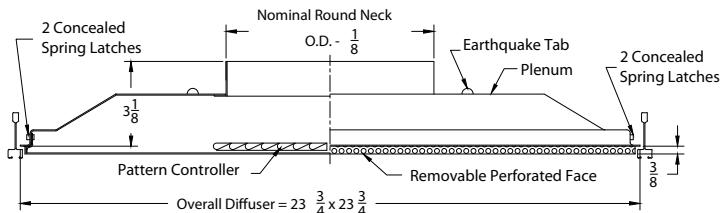
Models: XG-7500-8 (Steel Backpan & Face - Tegular T-Bar - 24 x 24)
 XG-7500-8 AF (Steel Backpan & Aluminum Face - Tegular T-Bar - 24 x 24)
 XG-7500-8 AL (Aluminum Backpan & Face - Tegular T-Bar - 24 x 24)



Models: XG-7500-8 (Steel Backpan & Face - Tegular T-Bar - 12 x 12)
 XG-7500-8 AF (Steel Backpan & Aluminum Face - Tegular T-Bar - 12 x 12)



Models: XG-7500-9 (Steel Backpan & Face - 24 x 24 Donn Ceiling Grid)
 XG-7500-9 AF (Steel Backpan & Aluminum Face - 24x24 Donn Ceiling Grid)



Notes: (check if provided)

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
Standard Finish: <input type="checkbox"/> 01 White (Border only for 7500-1 Models). Optional Finish (additional charge): <input type="checkbox"/> 02 Satin Silver <input type="checkbox"/> 03 Black. <input type="checkbox"/> 22 (BBP) Black back pan / white face & border. 28 Custom Color.	Round Necks: <input type="checkbox"/> XG-G3 - Round Equalizing Grid. <input type="checkbox"/> XG-BDS - Butterfly Damper. <input type="checkbox"/> XG-RSD - Radial Shutter Damper. Replacement Parts: <input type="checkbox"/> Replacement Face Plates. <input type="checkbox"/> Replacement Drop Face Plate. <input type="checkbox"/> Replacement Pattern Controller. Note: All Accessories Shipped Unattached		<ul style="list-style-type: none"> Available only in listed sizes. Pattern controllers are mounted on the back side of the perforated face and can be adjusted to 1, 2, 3 or 4 way pattern. Seismic tabs standard on all units. Pattern controller on 12 x 12 unit is a non adjustable disc on the perforated face.

SERIES XG-7500 PERFORMANCE DATA

Module	Neck Size	fpm Neck Velocity	300	400	500	600	700	800	1000	1200
		Pv	.006	.010	.016	.022	.031	.040	.062	.090
12 x 12	6	CFM	60	80	100	120	135	155	195	235
		Pt	.011	.019	.030	.043	.054	.072	.114	.165
		NC	<15	<15	<15	17	21	25	31	36
		4-Way*	1-2-3	1-2-5	2-3-5	2-3-6	3-4-6	3-4-6	4-5-7	5-6-8
		4-Way	1-2-4	1-2-5	2-3-6	2-4-6	3-4-7	3-5-7	4-6-8	5-6-9
		Throw	3-Way	1-2-4	1-3-5	2-3-6	3-4-6	3-5-7	4-5-7	4-6-8
		2-Way	1-2-5	2-3-5	3-4-6	3-5-6	4-5-7	4-5-7	5-6-8	5-6-9
		1-Way	1-2-5	2-3-5	3-4-6	3-5-7	4-5-7	4-5-8	5-6-8	5-7-9
	8	CFM	105	140	175	210	245	280	350	420
		Pt	.015	.027	.043	.061	.083	.109	.170	.245
		NC	<15	<15	<15	20	25	30	37	43
		4-Way*	1-2-5	2-3-6	3-4-7	3-5-7	4-5-8	4-6-9	5-7-10	6-7-11
		4-Way	1-2-5	2-3-6	3-4-7	3-5-8	4-6-9	4-6-9	5-7-11	6-8-12
		Throw	3-Way	1-2-5	2-4-7	3-5-8	4-5-8	4-6-9	5-7-10	6-8-11
		2-Way	2-3-6	3-4-7	4-5-8	4-6-9	5-7-9	6-7-10	6-8-11	7-9-12
		1-Way	2-3-6	3-4-7	4-5-8	4-6-9	5-7-9	6-7-10	7-8-11	7-9-12
24 x 24	6	CFM	60	80	100	120	135	155	195	235
		Pt	.010	.019	.029	.042	.053	.070	.110	.160
		NC	<15	<15	<15	17	21	25	31	36
		4-Way*	1-2-4	1-2-5	2-3-5	2-4-6	3-4-6	3-5-7	4-5-8	5-6-8
		4-Way	1-2-4	1-3-5	2-3-6	3-4-7	3-4-7	3-5-7	4-6-8	5-6-9
		Throw	3-Way	1-2-4	1-3-5	2-4-6	3-4-7	3-5-7	4-5-8	5-6-8
		2-Way	1-3-5	2-3-6	3-4-6	3-5-7	4-5-7	4-5-8	5-6-9	5-7-9
		1-Way	1-3-5	2-3-6	3-4-6	3-5-7	4-5-7	4-6-8	5-6-9	6-7-10
	8	CFM	105	140	175	210	245	280	350	420
		Pt	.016	.028	.043	.063	.085	.111	.174	.250
		NC	<15	<15	<15	20	25	30	37	43
		4-Way*	1-2-5	2-3-6	3-4-7	3-5-8	4-6-9	4-6-9	5-7-10	6-8-11
		4-Way	1-2-5	2-3-7	3-4-8	3-5-9	4-6-9	4-7-10	6-8-11	7-9-12
		Throw	3-Way	1-2-6	2-4-7	3-5-8	4-6-9	4-7-10	5-7-10	6-8-11
		2-Way	2-3-6	3-5-7	4-6-8	5-6-9	5-7-10	6-7-10	7-8-12	7-9-13
		1-Way	2-3-7	3-5-8	4-6-8	5-7-9	5-7-10	6-8-11	7-8-12	8-9-13

SERIES XG-7500 PERFORMANCE DATA

Module	Neck Size	fpm Neck Velocity		300	400	500	600	700	800	1000	1200
		Pv	.006	.010	.016	.022	.031	.040	.062	.090	
10	10	CFM		165	220	275	325	380	435	545	655
		Pt		.023	.041	.064	.090	.123	.161	.252	.365
		NC		<15	<15	15	22	28	33	42	48
		Throw	4-Way*	1-3-6	2-4-8	3-5-9	4-6-10	5-7-11	5-8-11	7-9-13	8-10-14
			4-Way	1-3-6	2-4-8	3-5-10	4-6-11	5-7-12	5-8-12	7-10-14	8-11-15
			3-Way	1-3-7	2-5-9	3-6-10	5-7-1	5-8-12	6-9-13	8-10-14	9-11-16
			2-Way	2-4-8	4-6-9	5-7-10	6-8-11	7-9-12	7-9-13	8-10-14	9-11-16
			1-Way	2-4-8	4-6-9	5-7-11	6-8-11	7-9-12	7-9-13	9-11-15	9-12-16
12	12	CFM		235	315	395	470	550	630	785	940
		Pt		.025	.044	.070	.099	.135	.177	.275	.395
		NC		<15	<15	17	24	31	37	45	52
		Throw	4-Way*	1-3-7	3-5-10	4-6-11	5-7-12	6-8-13	6-10-14	8-11-15	10-12-17
			4-Way	1-3-7	3-5-10	4-6-12	5-7-13	6-9-14	7-10-15	8-12-17	10-13-18
			3-Way	1-3-8	3-6-11	4-7-12	6-8-13	7-10-14	8-11-15	9-12-17	11-13-19
			2-Way	3-5-9	5-7-11	6-8-12	7-9-13	8-10-15	9-11-16	10-12-17	11-13-19
			1-Way	3-5-10	5-7-11	6-8-13	7-10-14	8-11-15	9-11-16	10-13-18	11-14-20
14	14	CFM		320	430	535	640	750	855	1070	1285
		Pt		.033	.059	.091	.131	.179	.233	.365	.527
		NC		<15	<15	18	27	34	41	50	56
		Throw	4-Way*	2-4-8	3-6-11	5-7-13	6-8-14	7-10-15	7-11-16	9-13-18	11-14-20
			4-Way	2-4-9	3-6-12	5-7-14	6-8-15	7-10-16	8-12-17	10-14-19	12-15-21
			3-Way	2-4-10	3-7-13	5-8-14	7-10-15	8-12-17	9-13-18	11-14-20	13-15-22
			2-Way	3-6-11	5-8-13	7-10-14	8-11-16	9-12-17	10-13-18	12-14-20	13-16-22
			1-Way	3-6-11	5-8-13	7-10-15	8-11-16	9-12-17	10-13-19	12-15-21	13-16-23
16	16	CFM		420	560	700	840	975	1115	1395	1675
		Pt		.040	.071	.110	.159	.214	.280	.438	.631
		NC		<15	<15	20	29	36	43	52	60
		Throw	4-Way*	2-4-10	4-6-13	5-8-14	6-10-16	7-11-17	8-13-18	11-14-20	13-16-22
			4-Way	2-4-10	3-7-13	5-8-16	7-10-17	8-12-19	9-13-20	11-16-22	13-17-24
			3-Way	2-4-11	3-8-14	5-9-16	8-11-18	9-13-19	10-14-20	13-16-23	14-18-25
			2-Way	4-7-13	6-9-15	8-11-16	9-13-18	10-14-19	12-15-21	13-16-23	15-18-25
			1-Way	4-7-13	6-9-15	8-11-17	9-13-18	10-14-20	12-15-21	14-17-24	15-18-26

24x24

**CEILING
DIFFUSERS**
**PERFORATED
CEILING DIFFUSERS**
XG-7500/XG-7550

MODEL XG-7550

Perforated Diffuser - Square Neck - Adjustable Face Mounted Pattern Controller

Supply – Model XG-7550

XG-7550-1 - Surface Mount Steel

XG-7550-1 AF - Surface Mount Aluminum Face

XG-7550-1 DF - Surface Mount Drop Face

XG-7550-6 - T-bar Lay-in Steel

XG-7550-6 AL - T-bar Lay-in Aluminum

XG-7550-6 AF - T-bar Lay-in Aluminum Face

XG-7550-8 - Tegular T-bar Steel

XG-7550-8 AL - Tegular T-bar Aluminum

XG-7550-8 AF - Tegular T-bar Aluminum Face

XG-7550-9 - Donn Fineline Steel

XG-7550-9 AF - Donn Fineline Aluminum Face

Air Outlets shall be model XG-7550 in steel, XG-7550-AL aluminum, XG-7550-AF with aluminum face or XG-7550-DF with a dropped face manufactured by GREENHECK.

Units shall consist of 51% free area perforated face with 3/16" diameter perforated holes on 1/4" staggered centers. The perforated face shall be hinged allowing access to four adjustable pattern controllers mounted onto the inside face of the outlet. Face shall be secured in place with tension spring clips. Pattern controller blades shall be individually adjustable and allow the discharge pattern to be adjustable from vertical to horizontal.

Outlets shall be field adjustable allowing 1, 2-way opposite, 2-way corner, 3, and 4-way directional air patterns. The units shall be the size and quantity as outlined in the plans and specifications.

Units shall be designed to integrate into the specified ceiling system.

SERIES XG-7550 PERFORMANCE DATA

Module	Neck Size	fpm Neck Velocity		300	400	500	600	700	800	1000	1200
		Pv	.006	.010	.016	.022	.031	.040	.062	.090	
12 x 12	6 x 6	CFM		75	100	125	150	175	200	250	300
		Pt		.013	.023	.036	.052	.071	.093	.145	.209
		NC		<15	<15	<15	19	25	29	36	41
		Throw	4-Way*	1-2-4	1-3-5	2-3-6	3-4-6	3-4-7	3-5-7	4-6-8	5-6-9
			4-Way	1-2-4	1-3-5	2-3-6	3-4-7	3-5-7	4-5-8	4-6-9	5-7-10
			3-Way	1-2-5	1-3-6	2-4-6	3-5-7	4-5-8	4-6-8	5-6-9	6-7-10
			2-Way	1-3-5	2-4-6	3-5-7	4-5-7	4-6-8	5-6-8	5-7-9	6-7-10
			1-Way	2-3-5	2-4-6	3-5-7	4-5-7	4-6-8	5-6-9	6-7-10	6-7-10
	8 x 8	CFM		135	180	220	265	310	355	445	535
		Pt		.017	.031	.046	.067	.092	.121	.190	.275
		NC		<15	<15	<15	20	27	32	39	45
		Throw	4-Way*	1-2-5	2-3-7	3-4-8	3-5-8	4-6-9	5-7-10	6-8-11	7-8-12
			4-Way	1-2-5	2-4-7	3-4-8	4-5-9	4-6-10	5-7-11	6-8-12	7-9-13
			3-Way	1-2-6	2-4-8	3-5-9	4-6-9	5-7-10	5-8-11	7-9-12	8-9-13
			2-Way	2-4-7	3-5-8	4-6-9	5-7-10	6-7-10	6-8-11	7-9-12	8-10-14
			1-Way	2-4-7	3-5-8	4-6-9	5-7-10	6-8-11	6-8-11	7-9-13	8-10-14

 CEILING
 DIFFUSERS

 PERFORATED
 CEILING DIFFUSERS

XG-7500/XG-7550

SERIES XG-7550 PERFORMANCE DATA

Module	Neck Size	fpm Neck Velocity	300	400	500	600	700	800	1000	1200
		Pv	.006	.010	.016	.022	.031	.040	.062	.090
24 x 24	6 x 6	CFM	75	100	125	150	175	200	250	300
		Pt	.013	.023	.036	.052	.071	.093	.145	.209
		NC	<15	<15	<15	19	25	29	36	41
		Throw	4-Way*	1-2-4	1-3-5	2-3-6	3-4-7	3-5-7	4-5-8	5-6-9
		4-Way	1-2-4	1-3-6	2-4-7	3-4-7	3-5-8	4-6-8	5-7-9	6-7-10
	8 x 8	3-Way	1-2-5	1-3-6	2-4-7	3-5-7	4-6-8	4-6-9	5-7-10	6-7-11
		2-Way	2-3-5	3-4-6	3-5-7	4-5-8	4-6-8	5-6-9	6-7-10	6-8-11
		1-Way	2-3-6	3-4-6	3-5-7	4-6-8	4-6-8	5-6-9	6-7-10	6-8-11
		CFM	135	180	220	265	310	355	445	535
		Pt	.017	.031	.046	.067	.092	.121	.190	.275
36 x 36	10 x 10	NC	<15	<15	<15	20	27	32	39	45
		Throw	4-Way*	1-3-5	2-4-7	3-4-8	4-5-9	4-6-10	5-7-10	5-8-11
		4-Way	1-2-6	2-4-8	3-5-9	4-6-10	4-7-10	5-7-11	6-9-13	7-10-14
		3-Way	1-2-6	2-4-8	3-5-9	4-6-10	5-7-11	6-8-11	7-9-13	8-10-14
		2-Way	2-4-7	3-5-8	4-6-9	5-7-10	6-8-11	7-8-12	8-9-13	8-10-14
		1-Way	2-4-7	3-5-9	4-6-9	5-7-10	6-8-11	7-8-12	8-9-13	8-10-15
		CFM	210	280	345	415	485	555	695	835
		Pt	.023	.040	.061	.088	.120	.158	.247	.357
		NC	<15	<15	15	22	29	34	42	47
		Throw	4-Way*	1-3-7	3-5-9	4-6-10	4-7-11	5-8-12	6-9-13	8-10-14
48 x 48	12 x 12	4-Way	1-3-7	2-5-9	4-6-11	5-7-12	5-8-13	6-9-14	8-11-16	9-12-17
		3-Way	1-3-8	2-5-10	4-7-11	5-8-12	6-9-13	7-10-14	9-11-16	10-12-18
		2-Way	3-5-9	4-6-10	5-8-12	6-9-13	7-10-14	8-10-15	9-12-16	10-13-18
		1-Way	3-5-9	4-6-11	5-8-12	6-9-13	7-10-14	8-11-15	10-12-17	11-13-18
		CFM	300	400	500	600	700	800	1000	1200
		Pt	.023	.040	.063	.090	.123	.160	.250	.360
		NC	<15	<15	15	23	30	35	44	50
		Throw	4-Way*	2-4-8	3-5-11	5-7-12	5-8-13	6-9-14	7-11-15	9-12-17
		4-Way	2-4-8	3-6-11	4-7-13	6-8-15	7-10-16	7-11-17	9-13-19	11-15-21
60 x 60	14 x 14	3-Way	2-4-10	3-6-12	4-8-14	6-10-15	7-11-16	9-12-17	11-14-19	12-15-21
		2-Way	3-6-11	5-8-12	6-10-14	8-11-15	9-12-16	10-12-18	11-14-20	12-15-21
		1-Way	3-6-11	5-8-13	6-10-14	8-11-16	9-12-17	10-13-18	12-14-20	13-16-22
		CFM	410	545	680	815	955	1090	1360	1635
		Pt	.023	.041	.064	.092	.126	.164	.255	.369
		NC	<15	<15	16	24	31	37	46	51
		Throw	4-Way*	2-4-9	3-6-13	5-8-14	6-9-16	7-11-17	8-13-18	10-14-20
		4-Way	2-4-10	3-7-13	5-8-15	7-10-17	8-11-18	9-13-20	11-15-22	13-17-24
		3-Way	2-4-11	3-7-14	5-9-16	7-11-17	9-13-19	10-14-20	12-16-22	14-17-25
		2-Way	4-7-13	6-9-14	7-11-16	9-13-18	10-14-19	12-14-20	13-16-23	14-18-25
72 x 72	16" x 16"	1-Way	4-7-13	6-9-15	7-11-17	9-13-18	10-14-20	12-1521	14-17-23	15-18-26
		CFM	535	710	890	1065	1245	1420	1780	2135
		Pt	.026	.046	.073	.104	.143	.186	.291	.419
		NC	<15	<15	16	24	33	39	49	53
		Throw	4-Way*	2-5-11	4-7-14	6-9-16	7-11-18	8-13-19	10-14-21	12-16-23
		4-Way	2-5-11	4-7-15	6-9-18	7-11-19	9-13-21	10-15-22	12-18-25	15-19-27
		3-Way	2-5-13	4-9-16	6-11-18	9-13-20	10-15-21	11-16-23	14-18-26	16-20-28
		2-Way	4-8-14	7-10-17	8-13-18	10-14-20	12-15-22	13-17-23	15-18-26	17-20-29
		1-Way	4-8-15	7-10-17	8-13-19	10-15-21	12-16-22	13-17-24	16-19-27	17-21-29

MODEL XG-7500R

Return – Model XG-7550R

XG-7550R-1 - Surface Mounted Steel

XG-7550R-1 AF - Surface Mounted Aluminum Face

XG-7550R-1 DF - Surface Mounted Dropped Face

XG-7550R-6 - T-bar Lay-in Steel

XG-7550R-6 AL - T-bar Lay-in Aluminum

XG-7550R-6 AF - T-bar Lay-in Aluminum Face

XG-7550R-8 - Tegular T-bar Steel

XG-7550R-8 AL - Tegular T-bar Aluminum

XG-7550R-8 AF - Tegular T-bar Aluminum Face

XG-7550R-9 - Donn Fineline Steel

XG-7550R-9 AF - Donn Fineline Aluminum Face

Air Outlets shall be model XG-7550R in steel, XG-7550R-AL aluminum, XG-7550R-AF with aluminum face or XG-7550R-DF with a dropped face manufactured by GREENHECK.

Units shall consist of a 51% free area perforated face with 3/16" diameter perforated holes on 1/4" staggered centers. Units shall be designed for use in ducted return or exhaust applications.

The perforated face shall be hinged allowing access to the inside of the backpan. Face shall be secured in place with tension spring clips.

The units shall be the size and quantity as outlined in the plans and specifications. Units shall be designed to integrate into the specified ceiling system.

Square Neck Options and Accessories

Opposed Blade Damper

GREENHECK model XG-OBDA aluminum or XG-OBD steel round opposed blade type dampers shall be provided. Damper shall consist of gang operated blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screwdriver slot accessible by opening the face of the diffuser.

Equalizing Grid

GREENHECK model XG-L9 aluminum square equalizing grid shall be provided. Equalizing grid shall consist aluminum blades mounting in an aluminum frame.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

Paint Specification

Process shall be anodic electrodeposition using an anodic acrylic paint. Units shall undergo pre-treatment including a pressurized spray stage using an alkaline cleaner and a de-ionized water rinse.

SERIES XG-7500R PERFORMANCE DATA
MODEL XG-7500R

Neck Size	Duct Area ft ²	fpm Neck Velocity	300	400	500	600	700	800	900	1000
		Ps	-.023	-.041	-.064	-.092	-.126	-.165	-.209	-.259
<i>06"</i>	<i>.19</i>	CFM	60	80	100	115	135	155	175	195
		NC	-	-	-	-	-	13	16	19
<i>08"</i>	<i>.35</i>	CFM	105	140	175	210	245	280	315	350
		NC	-	-	-	14	18	21	24	27
<i>10"</i>	<i>.55</i>	CFM	165	220	270	325	380	435	490	545
		NC	-	-	-	14	18	21	24	27
<i>12"</i>	<i>.79</i>	CFM	235	315	390	470	550	630	705	785
		NC	-	-	12	16	20	24	27	29
<i>14"</i>	<i>1.07</i>	CFM	320	425	535	640	750	855	960	1070
		NC	-	-	14	19	23	26	29	32
<i>16"</i>	<i>1.40</i>	CFM	420	560	700	835	975	1115	1255	1395
		NC	-	12	16	21	25	28	31	34
<i>18"</i>	<i>1.77</i>	CFM	520	700	870	1045	1220	1395	1570	1740
		NC	12	16	18	23	25	29	33	36

SERIES XG-7550R PERFORMANCE DATA
MODEL XG-7550R

Neck Size	Duct Area ft ²	fpm Neck Velocity	300	400	500	600	700	800	900	1000	1100
		Ps	-.023	-.041	-.064	-.092	-.126	-.165	-.209	-.259	-.314
<i>06 x 06</i>	<i>.25</i>	CFM	58	77	96	116	135	154	173	192	212
		NC	-	-	13	16	18	21	22	24	25
<i>08 x 08</i>	<i>.44</i>	CFM	112	149	186	223	260	297	334	371	409
		NC	-	13	16	19	21	24	25	27	28
<i>10 x 10</i>	<i>.69</i>	CFM	178	237	296	355	414	473	532	591	651
		NC	-	15	18	21	23	25	27	29	30
<i>12 x 12</i>	<i>1.00</i>	CFM	265	353	441	529	617	705	793	881	970
		NC	12	16	20	23	25	27	29	31	32
<i>14 x 14</i>	<i>1.36</i>	CFM	366	488	510	732	854	975	1097	1219	1341
		NC	13	18	21	24	26	28	30	32	33
<i>16 x 16</i>	<i>1.77</i>	CFM	485	647	808	970	1131	1293	1454	1616	1777
		NC	15	19	22	25	28	30	32	33	35
<i>22 x 22</i>	<i>3.36</i>	CFM	942	1258	1589	1883	2196	2510	2823	3137	3450
		NC	17	22	25	28	31	33	34	36	38

PERFORMANCE NOTES FOR SERIES XG-7550R

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet Per Minute (air)

Nk Vel Neck Velocity of air stream in Feet Per Minute

Ps Negative Static Pressure (inches of water column)

NC Noise criterion, sound pressure level. NC ratings are based on sound power level (Lw) re: 10E-12 watts minus a 10dB room attenuation in all octave bands.

MODEL XG-7600

**Perforated Diffuser – Round Neck -
Adjustable Neck Mounted Pattern Controllers**

Supply – Model XG-7600

XG-7600-1 - Surface Mount Steel

XG-7600-1 AF - Surface Mount Aluminum Face

XG-7600-1 DF - Surface Mount Drop Face

XG-7600-6 - T-bar Lay-in Steel

XG-7600-6 AL - T-bar Lay-in Aluminum

XG-7600-6 AF - T-bar Lay-in Aluminum Face

XG-7600-8 - Tegular T-bar Steel

XG-7600-8 AL - Tegular T-bar Aluminum

XG-7600-8 AF - Tegular T-bar Aluminum Face

XG-7600-9 - Donn Fineline Steel

XG-7600-9 AF- Donn Fineline Aluminum Face

Air Outlets shall be model XG-7600 in steel, XG-7600-AL aluminum, XG-7600-AF with aluminum face or XG-7600-DF with a dropped face manufactured by GREENHECK.

Units shall consist of a 51% free area perforated face with 3/16" diameter perforated holes on 1/4" staggered centers. The perforated face shall be removable allowing access to the neck mounted aluminum curved blade pattern controllers with tension spring clips. Pattern controller blades shall be individually adjustable and allow the discharge pattern to be adjustable from vertical to horizontal. Pattern controller blades shall pivot in adjustable from vertical to horizontal.

Pattern controller blades shall pivot in friction mounting retainers. Retainers shall hold the deflector blade position throughout the specified operating range of the device. Metal friction wires are not acceptable. Outlets shall be available in 1, 2-way opposite, 2-way corner, 3, and 4-way directional air patterns. The units shall be the size and quality as outlined in the plans and specifications. Units shall be designed to integrate into the specified ceiling systems.

Return – Model XG-7600R

XG-7600R-1 - Surface Mounted Steel

XG-7600R-1 AF - Surface Mounted Aluminum Face

XG-7600R-1 DF - Surface Mounted Dropped Face

XG-7600R-6 - T-bar Lay-in Steel

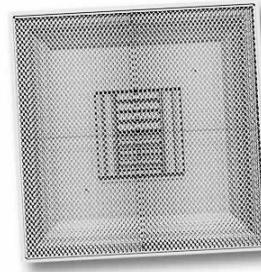
XG-7600R-6 AL - T-bar Lay-in Aluminum

XG-7600R-6 AF - T-bar Lay-in Aluminum Face

XG-7600R-8 - Tegular T-bar Steel

XG-7600R-8 AL - Tegular T-bar Aluminum

XG-7600R-8 AF - Tegular T-bar Aluminum Face



CEILING
DIFFUSERS

PERFORATED
CEILING DIFFUSERS

XG-7600/XG-7650

XG-7600R-9 - Donn Fineline Steel
XG-7600R-9 AF - Donn Fineline Aluminum Face

Air Outlets shall be model XG-7600R in steel, XG-7600R-AL aluminum, XG-7600R-AF with aluminum face or XG-7600R-DF with a dropped face manufactured by GREENHECK.

Units shall consist of aluminum 51% free area perforated face with 3/16" diameter perforated holes on 1/4" staggered centers. Units shall be designed for use in ducted return or exhaust applications. The perforated face shall be hinged allowing access to the inside of the backpan. Face shall be secured in place with tension spring clips.

The units shall be the size and quality as outlined in the plans and specifications. Units shall be designed to integrate into the specified ceiling systems.

Optional Dampers and Accessories:**Square to Round Transitions**

Units to have square to round transitions allowing installation with round ductwork.

Butterfly Damper

GREENHECK model XG-BDS aluminum, round butterfly type dampers shall be provided. Damper shall consist of two butterfly style blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Radial Shutter Damper

GREENHECK model XG-RSD steel round radial shutter damper shall be provided. Damper shall consist of gang operated radial blades that slide perpendicular to air flow direction. The damper shall be adjusted from full open to full closed. Damper shall be adjusted with a screwdriver slot that can be assessed through the face of the diffuser.

Opposed Blade Damper

GREENHECK model XG-D3 aluminum or XG-SD3 steel round opposed blade type dampers shall be provided. Damper shall consist of gang operated blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Equalizing Grid

GREENHECK model XG-G3 aluminum, round equalizing grid shall be provided. Equalizing grid shall consist of 1/2" x 1/2" x 1/2" aluminum cubed core mounting in an aluminum frame

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

Paint Specification

Process shall be anodic electrodeposition using an anodic acrylic paint. Units shall undergo pre-treatment including a pressurized spray stage using an alkaline cleaner and a de-ionized water rinse.

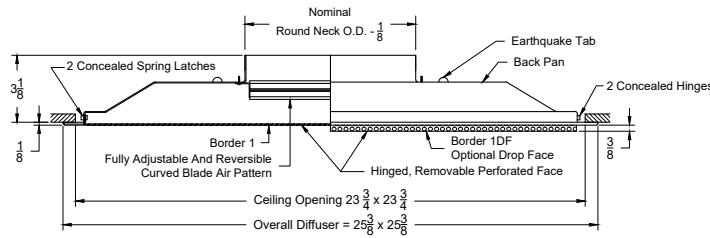
The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 1991.

MODEL XG-7600

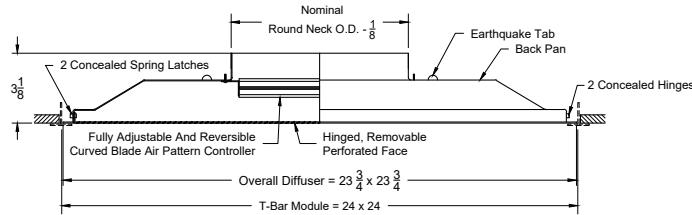
Perforated Supply Diffusers - Round Neck Adjustable Neck Mounted Pattern Controller

Models: XG-7600-1 Steel Backpan & Steel Face - Surface Mount
 XG-7600-1 DF Steel Backpan & Face - Drop Face - Surface Mount
 XG-7600-1 AF Steel Backpan & Aluminum Face - Surface Mount
 XG-7600-6 Steel Backpan & Face - Lay in T-Bar
 XG-7600-6 AF Steel Backpan & Aluminum Face
 XG-7600-6 AL Aluminum Backpan & Face - Lay in T-Bar
 XG-7600-8 Steel Backpan & Face - Tegular T-Bar
 XG-7600-8 AF Steel Backpan & Aluminum Face - Tegular T-Bar
 XG-7600-8 AL Aluminum Backpan & Face - Tegular T-Bar

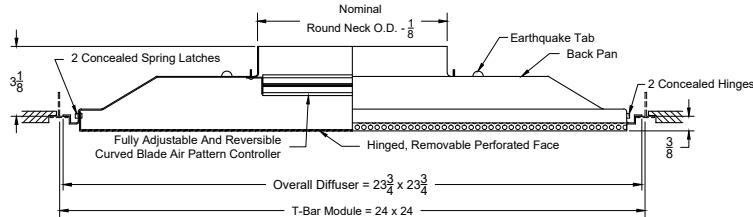
Models: XG-7600-1 (Steel Backpan & Face - Surface Mount)
 XG-7600-1 DF (Steel Backpan & Face - Drop Face - Surface Mount)
 XG-7600-1 AF (Steel Backpan & Aluminum Face - Surface Mount)



Models: XG-7600-6 (Steel Backpan & Face - Lay in T-Bar)
 XG-7600-6 AF (Steel Backpan & Aluminum Face - Lay in T-Bar)
 XG-7600-6 AL (Aluminum Backpan & Face - Lay in T-Bar)



Models: XG-7600-8 (Steel Backpan & Face - Tegular T-Bar)
 XG-7600-8 AF (Steel Backpan & Aluminum Face - Tegular T-Bar)
 XG-7600-8 AL (Aluminum Backpan & Face - Tegular T-Bar)

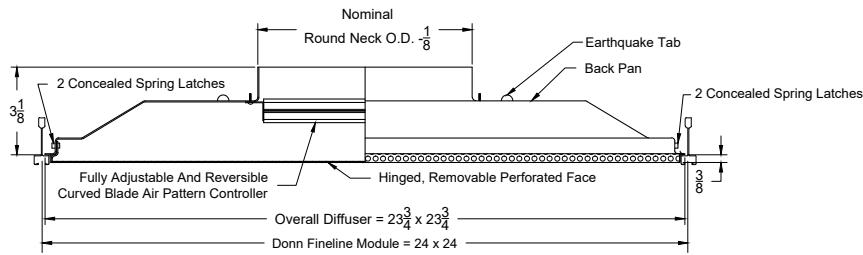


MODEL XG-7600

Perforated Supply Diffusers - Round Neck Adjustable Neck Mounted Pattern Controller

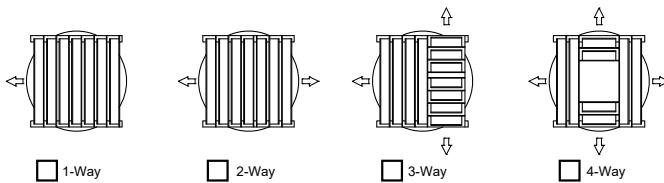
Models: **XG-7600-9**
XG-7600-9 AF

Model **XG-7600-9** (Steel Backpan & Face - Donn Fineline Ceiling Grid)
 XG-7600-9 AF (Steel Backpan & Aluminum Face - Donn Fineline Ceiling Grid)

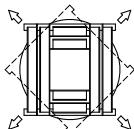


Available Round Inlets (For All Models): 6, 8, 10, 12, 14, 16

Option: Standard Air Patterns



Option: Star Air Pattern



Changing 4-Way Air Pattern
To Star Pattern
Using Standard 4-Way Diffuser
Rotate Air Pattern Controller
45° For A More Radical "Star" Pattern
Max Size 12x12

Notes: (check if provided)

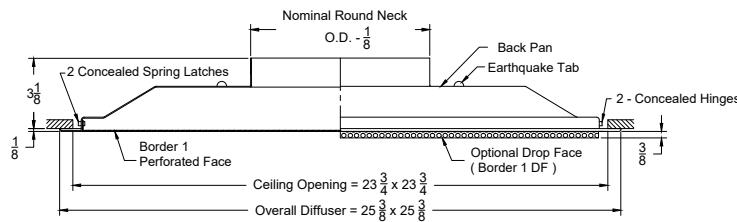
1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
Standard Finish: <input type="checkbox"/> 01 White. Optional Finish (additional charge): <input type="checkbox"/> 03 Black. <input type="checkbox"/> 02 Aluminum. <input type="checkbox"/> 28 Custom Color. <input type="checkbox"/> 22 (BBP) Black back pan / white face.	For Round Necks (Shipped Unattached): <input type="checkbox"/> XG-G3 - Round Equalizing Grid. <input type="checkbox"/> XG-BDS - Butterfly Damper. <input type="checkbox"/> XG-RSD - Radial Shutter Damper. Replacement Parts (Shipped Unattached): <input type="checkbox"/> Replacement Steel Face Plates. <input type="checkbox"/> Replacement Aluminum Face Plate. <input type="checkbox"/> Replacement Pattern Controller		<ul style="list-style-type: none"> Available only in listed sizes. Pattern controllers are mounted in the neck of the diffuser. Air pattern controller can be ordered as 1, 2, 3 and 4 way or ST (star Pattern). Seismic tabs standard on all units.

MODEL XG-7600R

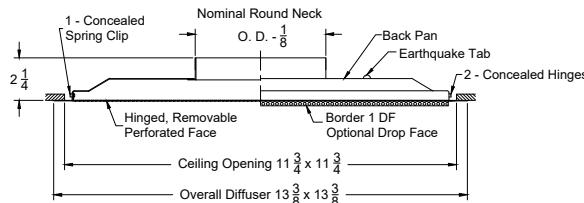
Perforated Return Diffuser - Round Neck 12 x 12 and 24 x 24 Module

- Models: **XG-7600R-1** Steel Backpan & Face - Surface Mount
 XG-7600R-1 DF Steel Backpan & Face - Surface Mount - Drop Face
 XG-7600R-1 AF Steel Backpan & Aluminum Face - Surface Mount
 XG-7600R-6 Steel Backpan & Face - Lay in T-Bar
 XG-7600R-6 AF Steel Backpan & Aluminum Face - Lay in T-Bar
 XG-7600R-6 AL Aluminum Backpan & Face - Lay in T-Bar

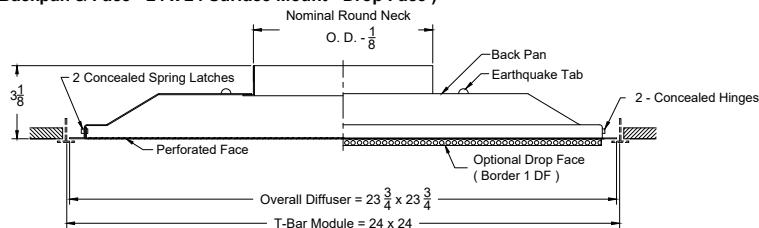
Models: **XG-7600R-1** (Steel Backpan & Face - 24 x 24 Surface Mount)
XG-7600R-1 DF (Steel Backpan & Face - 24 x 24 Surface Mount - Drop Face)
XG-7600R-1 AF (Steel Backpan & Aluminum Face - 24 x 24 Surface Mount)



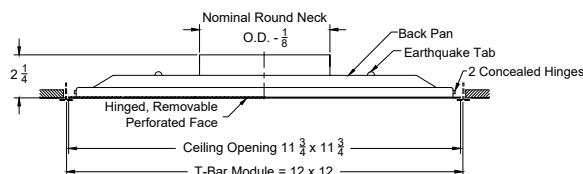
Models: **XG-7600R-1** (Steel Backpan & Face - 12 x 12 Surface Mount)
XG-7600R-1 DF (Steel Backpan & Face - 12 x 12 Surface Mount - Drop Face)
XG-7600R-1 AF (Steel Backpan & Aluminum Face - 12 x 12 Surface Mount)



Models: **XG-7600R-6** (Steel Backpan & Face - 24 x 24 Lay in T-Bar)
XG-7600R-6 AF (Steel Backpan & Aluminum Face - 24 x 24 Lay in T-Bar)
XG-7600R-6 AL (Aluminum Backpan & Face - 24 x 24 Lay in T-Bar)
XG-7600R-6 DF (Steel Backpan & Face - 24 x 24 Surface Mount - Drop Face)



Models: **XG-7600R-6** (Steel Backpan & Face - 12 x 12 Lay in T-Bar)
XG-7600R-6 AF (Steel Backpan & Aluminum Face - 12 x 12 Lay in T-Bar)

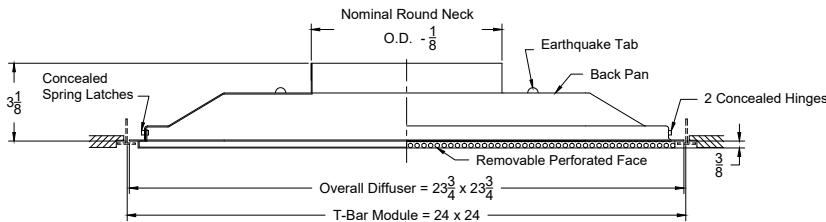


MODEL XG-7600R

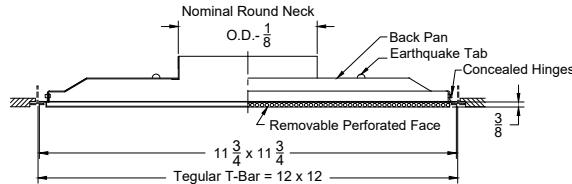
Perforated Return Diffuser - Round Neck 12 x 12 and 24 x 24 Module

- Models: XG-7600R-8 Steel Backpan & Face - Tegular T-Bar
 XG-7600R-8 AF Steel Backpan & Aluminum Face - Tegular T-Bar
 XG-7600R-8 AL Aluminum Backpan & Face - Tegular T-Bar
 XG-7600R-9 Steel Backpan & Face - Donn Fineline Ceiling Grid
 XG-7600R-9 AF Steel Backpan & Aluminum Face - Donn Fineline Ceiling Grid

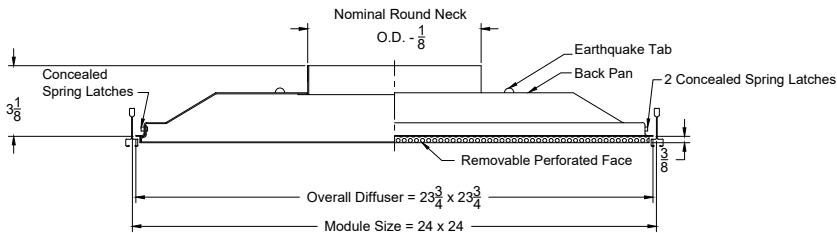
Models: XG-7600R-8 (Steel Backpan & Face - 24 x 24 Tegular T-Bar)
 XG-7600R-8 AF (Steel Backpan & Aluminum Face - 24 x 24 Tegular T-Bar)
 XG-7600R-8 AL (Aluminum Backpan & Face - 24 x 24 Tegular T-Bar)



Models: XG-7600R-8 (Steel Backpan & Face - 24 x 24 Tegular T-Bar)
 XG-7600R-8 AF (Steel Backpan & Aluminum Face - 24 x 24 Tegular T-Bar)
 XG-7600R-8 AL (Aluminum Backpan & Face - 24 x 24 Tegular T-Bar)



Models: XG-7600R-9 (Steel Backpan & Face - 24 x 24 Donn Fineline Ceiling Grid)
 XG-7600R-9 AF (Steel Backpan & Aluminum Face - 24 x 24 Donn Fineline Ceiling Grid)



Notes: (check if provided)

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
Standard Finish: <input type="checkbox"/> 01 White. Optional Finish (additional charge): <input type="checkbox"/> 03 Black. <input type="checkbox"/> 02 Satin Silver <input type="checkbox"/> 28 Custom Color. <input type="checkbox"/> 22 (BBP) Black back pan / white face.	Round Necks: <input type="checkbox"/> XG-BDS - Butterfly Damper. <input type="checkbox"/> XG-RSD - Radial Shutter Damper. Replacement Parts: <input type="checkbox"/> Replacement Steel Face Plates. <input type="checkbox"/> Replacement Aluminum Face Plate.		<ul style="list-style-type: none"> ● Available only in listed sizes. ● Seismic tabs standard on all units.

SERIES XG-7600 PERFORMANCE DATA

Module	Neck Size	fpm Neck Velocity	300	400	500	600	700	800	1000	1200	
		Pv	.006	.010	.016	.022	.031	.040	.062	.090	
12x12	6	CFM	60	80	100	120	135	155	195	235	
		Pt	.015	.026	.041	.060	.075	.099	.157	.229	
		NC	<15	<15	<15	19	23	26	30	35	
		Throw	4-Way*	1-1-2	1-2-3	1-2-4	2-2-5	2-3-5	2-3-6	3-4-6	3-5-7
			4-Way	1-2-4	2-3-5	2-4-6	3-4-6	3-5-7	4-5-7	5-6-8	5-6-9
			3-Way	2-2-5	2-3-6	3-4-7	3-5-7	4-5-8	4-6-8	5-6-9	6-7-10
			2-Way	2-3-5	2-3-6	3-4-7	3-5-8	4-6-8	4-6-9	6-7-10	6-8-11
			1-Way	4-6-9	5-7-10	7-8-11	7-9-12	8-9-13	8-10-14	9-11-16	10-12-17
	8	CFM	105	140	175	210	245	280	350	420	
		Pt	.016	.028	.044	.063	.086	.112	.175	.252	
		NC	<15	<15	<15	19	24	27	31	37	
		Throw	4-Way*	1-2-3	1-2-4	2-3-5	2-3-6	2-4-7	3-4-8	3-5-8	4-6-9
			4-Way	2-3-6	3-4-7	3-5-8	4-6-9	4-7-9	5-7-10	6-8-11	7-9-12
			3-Way	2-3-6	3-4-8	3-5-9	4-6-9	5-7-10	6-8-11	7-9-12	8-9-13
			2-Way	2-3-7	3-5-9	4-6-10	5-7-11	5-8-11	6-9-12	8-10-14	9-11-15
			1-Way	5-8-12	7-9-13	9-11-15	9-12-16	10-12-18	11-13-19	12-15-21	13-16-23
24x24	6	CFM	60	80	100	120	135	155	195	235	
		Pt	.015	.026	.041	.060	.075	.099	.157	.229	
		NC	<15	<15	<15	19	23	26	30	35	
		Throw	4-Way*	1-1-2	1-2-3	1-2-4	2-2-5	2-3-6	2-3-6	3-4-7	3-5-7
			4-Way	1-2-5	2-3-6	3-4-6	3-5-7	3-5-7	4-5-8	5-6-9	6-7-10
			3-Way	2-3-5	2-3-6	3-4-7	3-5-7	4-6-8	4-6-9	5-7-10	6-7-10
			2-Way	2-3-5	2-4-7	3-5-8	4-5-8	4-6-9	5-7-10	6-8-11	7-8-12
			1-Way	4-6-9	6-8-11	7-8-12	8-9-13	8-10-14	9-10-15	10-12-17	11-13-18
	8	CFM	105	140	175	210	245	280	350	420	
		Pt	.016	.028	.044	.063	.086	.112	.175	.252	
		NC	<15	<15	<15	19	24	27	31	37	
		Throw	4-Way*	1-2-3	1-2-4	2-3-5	2-3-7	3-4-7	3-4-8	4-5-9	4-7-10
			4-Way	2-3-6	3-4-7	3-5-8	4-6-9	5-7-10	5-7-10	7-8-12	7-9-13
			3-Way	2-3-7	3-4-8	4-5-9	4-7-10	5-8-11	6-8-11	7-9-13	8-10-14
			2-Way	2-4-7	3-5-9	4-6-10	5-7-11	6-8-12	6-9-13	8-10-14	9-11-16
			1-Way	5-8-12	7-10-14	9-11-16	10-12-17	11-13-19	11-14-20	13-16-22	14-17-24

SERIES XG-7600 PERFORMANCE DATA

Module	Neck Size	fpm Neck Velocity	300	400	500	600	700	800	1000	1200
		Pv	.006	.010	.016	.022	.031	.040	.062	.090
10	10	CFM	165	220	275	325	380	435	545	655
		Pt	.017	.030	.047	.066	.090	.118	.186	.268
		NC	<15	<15	<15	20	25	29	34	39
		4-Way*	1-2-4	2-3-5	2-3-7	3-4-8	3-5-9	4-5-10	5-7-11	5-8-12
		4-Way	2-4-8	3-5-9	4-6-10	5-7-11	6-9-12	7-9-13	8-10-15	9-11-16
		Throw	3-Way	3-4-8	4-6-10	5-7-11	5-8-12	6-9-13	7-10-14	9-11-16
		2-Way	3-4-9	4-6-11	5-7-13	6-9-14	7-10-15	8-11-16	10-13-18	11-14-20
		1-Way	7-10-15	9-12-18	11-14-20	12-15-21	13-16-23	14-18-25	16-20-28	18-21-30
		CFM	235	315	395	470	550	630	785	940
12	12	Pt	.018	.033	.052	.074	.101	.133	.206	.295
		NC	<15	<15	15	22	27	31	36	42
		4-Way*	2-2-5	2-3-7	3-4-8	3-5-10	4-6-11	4-7-12	5-8-13	7-10-15
		4-Way	3-5-9	4-6-11	5-8-12	6-9-13	7-10-15	8-11-16	10-12-17	11-13-19
		Throw	3-Way	3-5-10	4-7-12	5-8-14	7-10-15	8-11-16	9-12-17	11-14-19
		2-Way	4-5-11	5-7-14	6-9-15	7-11-17	8-12-18	9-14-19	12-15-21	14-17-23
		1-Way	8-12-18	11-15-21	14-17-24	15-18-26	16-20-28	17-21-30	19-24-33	21-26-36
		CFM	320	430	535	640	750	855	1070	1285
		Pt	.017	.031	.048	.068	.094	.122	.191	.276
14	14	NC	<15	<15	16	24	29	33	38	44
		4-Way*	2-3-6	3-4-8	3-5-10	4-6-11	4-7-13	5-8-14	6-10-16	8-11-17
		4-Way	3-5-11	5-7-13	6-9-14	7-11-16	8-12-17	9-13-18	12-14-20	13-16-22
		Throw	3-Way	4-6-11	5-8-14	6-10-16	8-11-17	9-13-19	10-14-20	13-16-22
		2-Way	4-6-12	6-8-16	7-10-18	8-12-19	10-15-21	11-16-22	14-18-25	16-19-27
		1-Way	9-14-21	13-17-25	16-19-27	17-21-30	19-23-33	20-25-35	22-27-39	25-30-43
		CFM	420	560	700	840	975	1115	1395	1675
		Pt	.019	.033	.052	.075	.101	.132	.206	.297
		NC	<15	<15	17	25	30	34	39	46
16	16	4-Way*	2-3-7	3-4-9	4-5-11	4-7-13	5-8-15	6-9-16	7-11-18	9-13-20
		4-Way	4-6-12	5-8-15	7-10-16	8-12-18	9-14-19	11-15-21	13-16-23	15-18-25
		Throw	3-Way	4-7-13	6-9-16	7-11-18	9-13-20	10-15-21	12-16-23	15-18-26
		2-Way	5-7-14	6-9-18	8-12-20	9-14-22	11-17-24	13-18-26	16-20-29	18+22-31
		1-Way	10-16-24	15-20-28	18-22-31	20-24-34	21-26-37	23-28-40	26-31-44	28-34-49

MODEL XG-7650

Perforated Diffuser - Square Neck - Adjustable Neck Mounted Pattern Controller

Supply – Model XG-7650

XG-7650-1 - Surface Mount Steel

XG-7650-1 AF - Surface Mount Aluminum Face

XG-7650-1 DF - Surface Mount Drop Face

XG-7650-6 - T-bar Lay-in Steel

XG-7650-6 AL - T-bar Lay-in Aluminum

XG-7650-6 AF - T-bar Lay-in Aluminum Face

XG-7650-8 - Tegular T-bar Steel

XG-7650-8 AL - Tegular T-bar Aluminum

XG-7650-8 AF - Tegular T-bar Aluminum Face

XG-7650-9 - Donn Fineline Steel

XG-7650-9 AF- Donn Fineline Aluminum Face

Air Outlets shall be model XG-7650 in steel, XG-7650-AL aluminum, XG-7650-AF with aluminum face or XG-7650-DF with a dropped face manufactured by GREENHECK.

Units shall consist of a 51% free area perforated face with 3/16" diameter perforated holes on 1/4" staggered centers. The perforated face shall be removable allowing access to aluminum, curved blade pattern controllers mounted into the neck of the diffusers. Face shall be secured in place with tension spring clips. Pattern controllers shall be individually adjustable and allow the discharge pattern to be adjustable from vertical to horizontal. Pattern controller blades shall pivot in friction mounting retainers. Retainers shall hold the deflector blade position throughout the specified operating range of the device. Metal friction wires are not acceptable.

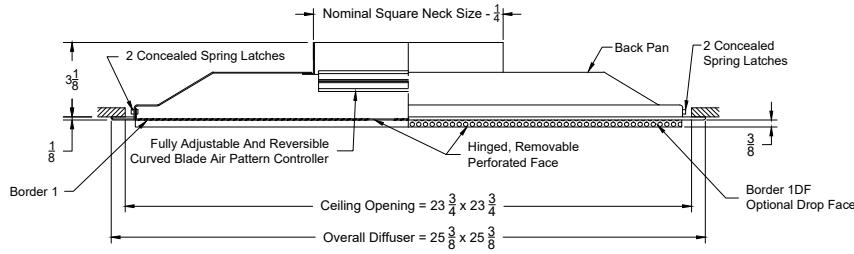
Outlets shall be available in 1-way, 2-way opposite, 2-way corner, 3-way, and 4-way directional air patterns. The units shall be the size and quantity as outlined in the plans and specifications. Units shall be designed to integrate into the specified ceiling system.

MODEL XG-7650

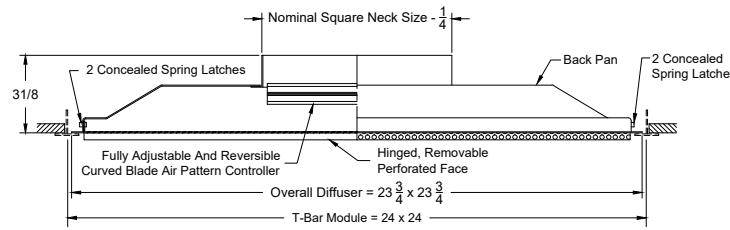
Perforated Supply Diffusers - Square Neck Adjustable Neck Mounted Pattern Controller

- Models: XG-7650-1 Steel Backpan & Face - Surface Mount
 XG-7650-1 DF Steel Backpan & Face - Drop Face - Surface Mount
 XG-7650-1 AF Steel Backpan & Aluminum Face - Surface Mount
 XG-7650-6 Steel Backpan & Face - Lay in T-Bar
 XG-7650-6 AF Steel Backpan & Aluminum Face - Lay in T-Bar
 XG-650-6 AL Aluminum Backpan & Face - Lay in T-Bar
 XG-650-8 Steel Backpan & Face - Tegular T-Bar
 XG-650-8 AF Steel Backpan & Aluminum Face - Tegular T-Bar
 XG-650-8 AL Aluminum Backpan & Face - Tegular T-Bar

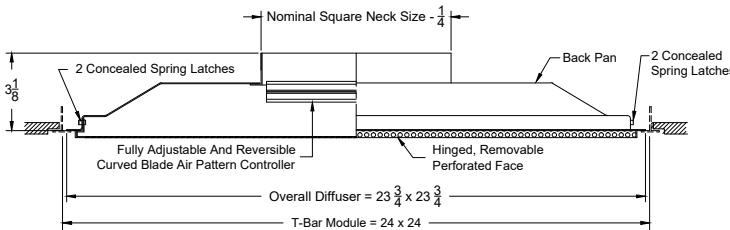
- Models: XG-7650-1 (Steel Backpan & Face - Surface Mount)
 XG-7650-1 DF (Steel Backpan & Face - Surface Mount - Drop Face)
 XG-7650-1 AF (Steel Backpan & Aluminum Face - Surface Mount)



- Models: XG-7650-6 (Steel Backpan & Face - Lay in T-Bar)
 XG-7650-6 AF (Steel Backpan & Aluminum Face - Lay in T-Bar)
 XG-7650-6 AL (Aluminum Backpan & Face - Lay in T-Bar)



- Models: XG-7650-8 (Steel Backpan & Face - Tegular T-Bar)
 XG-7650-8 AF (Steel Backpan & Aluminum Face - Tegular T-Bar)
 XG-7650-8 AL (Aluminum Backpan & Face - Tegular T-Bar)



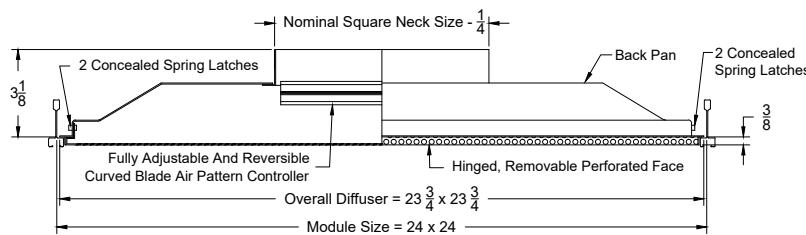
MODEL XG-7650

Perforated Supply Diffusers - Square Neck Adjustable Neck Mounted Pattern Controller

Models: XG-7650-9 Steel Backpan & Face - Donn Fineline Ceiling Grid
 XG-7650-9 AF Steel Backpan & Aluminum Face - Donn Fineline Ceiling Grid

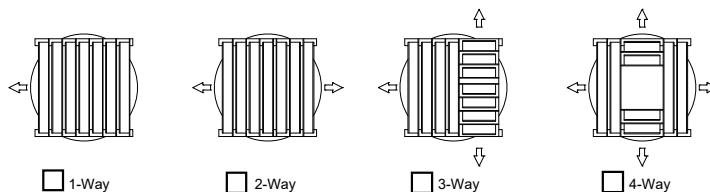
Option: Standard Air Pattern
 Star Air Pattern

Model: XG-7650-9 (Steel Backpan & Face - Donn Fineline Ceiling Grid)
 XG-7650-9 AF (Steel Backpan & Aluminum Face - Donn Fineline Ceiling Grid)

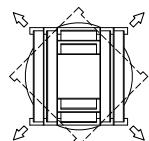


Available Neck Sizes (For All Models): 6 x 6, 8 x 8, 10 x 10, 12 x 12, 14 x 14 and 16 x 16

Option: Standard Air Patterns



Option: Star Air Pattern



Changing 4-Way Air Pattern
 To Star Pattern
 Using Standard 4-Way Diffuser
 Rotate Air Pattern Controller
 45° For A More Radical "Star" Pattern
 Max Size 12" x 12"

Notes: (check if provided)

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
Standard Finish: <input type="checkbox"/> 01 White. Optional Finish (additional charge): <input type="checkbox"/> 03 Black. <input type="checkbox"/> 02 Satin Silver <input type="checkbox"/> 28 Custom Color. <input type="checkbox"/> 22 (BBP) Black back pan / white face.	(Shipped Unattached): For Square Necks <input type="checkbox"/> XG-OBD - Steel Opposed Blade Damper. <input type="checkbox"/> XG-OBDA - Aluminum Opposed Blade Damper. <input type="checkbox"/> XG-L9 - Equalizing Grid. For Replacement Parts <input type="checkbox"/> Replacement Steel Face Plates. <input type="checkbox"/> Replacement Aluminum Face Plate. <input type="checkbox"/> Replacement Pattern Controller		<ul style="list-style-type: none"> Available only in listed sizes. Pattern controllers are mounted in the neck of the diffuser. Air pattern controller can be ordered as 1, 2, 3 and 4 way or ST (star Pattern). Seismic tabs standard on all units.

SERIES XG-7650 PERFORMANCE DATA

Module	Neck Size	fpm Neck Velocity	300	400	500	600	700	800	1000	1200	
		Pv	.006	.010	.016	.022	.031	.040	.062	.090	
12 x 12	6 x 6	CFM	75	100	125	150	175	200	250	300	
		Pt	.017	.031	.048	.070	.095	.124	.194	.279	
		NC	<15	<15	<15	16	21	25	30	36	
		Throw	4-Way*	1-1-3	1-2-3	1-2-4	2-3-5	2-3-6	2-3-6	3-4-7	3-5-8
			4-Way	1-2-5	2-3-6	3-4-7	3-5-7	4-6-8	4-6-8	5-7-9	6-7-10
			3-Way	2-3-5	2-4-7	3-4-7	4-5-8	4-6-9	5-7-9	6-7-10	7-8-11
			2-Way	2-3-6	3-4-7	3-5-8	4-6-9	4-7-10	5-7-10	6-8-11	7-9-13
			1-Way	4-7-10	6-8-11	7-9-13	8-10-14	9-11-15	9-11-16	10-13-18	11-14-20
	8 x 8	CFM	135	180	220	265	310	355	445	535	
		Pt	.020	.036	.054	.079	.108	.141	.222	.321	
		NC	<15	<15	<15	16	21	25	30	36	
		Throw	4-Way*	1-1-3	1-2-4	2-2-5	2-3-6	2-3-6	2-4-7	3-5-8	4-6-8
			4-Way	2-3-5	2-3-6	3-4-7	3-5-8	4-6-8	5-6-9	6-7-10	6-8-11
			3-Way	2-3-6	2-4-7	3-5-8	4-6-8	4-6-9	5-7-10	6-8-11	7-8-12
			2-Way	2-3-6	3-4-8	3-5-9	4-6-9	5-7-10	5-8-11	7-9-12	8-9-13
			1-Way	4-7-10	6-8-12	8-9-13	8-10-15	9-11-16	10-12-17	11-13-19	12-15-21
24 x 24	6 x 6	CFM	75	100	125	150	175	200	250	300	
		Pt	.017	.031	.048	.070	.095	.124	.194	.279	
		NC	<15	<15	<15	16	21	25	30	36	
		Throw	4-Way*	1-1-3	1-2-4	2-2-5	2-3-6	2-3-6	2-4-7	3-5-8	4-6-8
			4-Way	2-3-5	2-3-6	3-4-7	3-5-8	4-6-8	5-6-9	6-7-10	6-8-11
			3-Way	2-3-6	2-4-7	3-5-8	4-6-8	46-9	5-7-10	6-8-11	7-8-12
			2-Way	2-3-6	3-4-8	3-5-9	4-6-9	5-7-10	5-8-11	7-9-12	8-9-13
			1-Way	4-7-10	6-8-12	8-9-13	8-10-15	9-11-16	10-12-17	11-13-19	12-15-21
	8 x 8	CFM	135	180	220	265	310	355	445	535	
		Pt	.020	.036	.054	.079	.108	.141	.222	.321	
		NC	<15	<15	<15	16	21	25	30	36	
		Throw	4-Way*	1-2-4	2-2-5	2-3-6	2-4-7	3-4-8	3-5-9	4-6-10	5-7-11
			4-Way	2-3-7	3-5-8	4-6-9	5-7-10	5-8-11	6-8-12	8-9-13	8-10-14
			3-Way	2-4-7	3-5-9	4-6-10	5-7-11	6-9-12	7-9-13	8-10-14	9-11-16
			2-Way	3-4-8	4-5-10	4-7-11	5-8-12	6-9-13	7-10-14	9-11-16	10-12-18
			1-Way	6-9-14	8-11-16	10-12-18	11-14-19	12-15-21	13-16-22	14-18-25	16-19-27

SERIES XG-7650 PERFORMANCE DATA

Module	Neck Size	fpm Neck Velocity		300	400	500	600	700	800	1000	1200
		Pv	.006	.010	.016	.022	.031	.040	.062	.090	
10 x 10	Throw	CFM		210	280	345	415	485	555	695	835
		Pt		.023	.040	.061	.089	.089	.159	.249	.359
		NC		<15	<15	<15	20	26	29	36	42
		4-Way*		2-2-5	2-3-6	3-4-8	3-5-9	4-5-11	4-6-11	5-8-13	6-9-14
		4-Way		3-4-9	4-6-10	5-7-12	6-8-13	7-10-14	8-10-15	9-12-16	10-13-18
		3-Way		3-5-9	4-6-11	5-8-13	6-9-14	7-11-15	8-11-18	10-13-18	11-14-20
		2-Way		3-5-10	4-7-13	6-8-14	7-10-16	8-12-17	9-13-18	11-14-20	13-16-22
		1-Way		7-12-17	10-14-20	13-16-22	14-17-24	15-18-26	16-20-28	18-22-31	20-24-34
		CFM		300	400	500	600	700	800	1000	1200
		Pt		.023	.040	.063	.090	.123	.160	.250	.360
12 x 12	Throw	NC		<15	<15	<15	18	23	28	34	40
		4-Way*		2-3-6	2-4-7	3-5-9	4-6-11	4-6-13	5-7-14	6-9-15	7-11-17
		4-Way		3-5-10	5-7-12	6-9-14	7-10-15	8-12-16	9-12-18	11-14-20	12-15-22
		3-Way		4-6-11	5-7-14	6-9-15	7-11-17	9-13-18	10-14-19	12-15-22	14-17-24
		2-Way		4-6-12	5-8-15	7-10-17	8-12-19	9-14-20	11-15-22	13-17-24	15-19-26
		1-Way		9-14-21	12-17-24	15-19-27	17-21-29	18-22-31	19-24-34	22-27-38	24-29-41
		CFM		410	545	680	815	955	1090	1360	1630
		Pt		.023	.040	.062	.089	.121	.159	.248	.356
		NC		<15	<15	<15	21	28	33	41	49
		4-Way*		2-3-6	3-4-9	4-5-11	4-6-13	5-7-15	6-9-16	7-11-18	9-13-19
14 x 14	Throw	4-Way		4-6-12	5-8-15	7-10-16	8-12-18	9-14-19	11-15-21	13-16-23	15-18-25
		3-Way		4-7-13	6-9-16	7-11-18	9-13-20	10-15-21	12-16-23	14-18-25	16-20-28
		2-Way		5-7-14	6-9-18	8-12-20	9-14-22	11-16-24	12-18-25	16-20-28	18-23-31
		1-Way		10-16-24	14-20-28	18-23-31	20-24-34	21-26-37	23-28-29	25-31-44	28-34-48
		CFM		535	710	890	1070	1245	1425	1780	2135
		Pt		.027	.047	.074	.108	.146	.191	.298	.428
		NC		<15	<15	15	23	30	35	42	50
		4-Way*		2-4-7	3-5-10	4-6-12	5-7-15	6-9-17	7-10-18	8-12-20	10-15-22
		4-Way		4-7-14	6-9-17	8-11-19	9-14-20	11-16-22	12-17-23	15-19-26	17-20-29
		3-Way		5-7-15	7-10-18	8-12-20	10-15-22	12-17-24	13-18-26	16-20-29	18-22-32
16 x 16	Throw	2-Way		5-8-16	7-11-20	9-13-23	11-16-25	12-19-27	14-20-29	18-23-32	20-25-35
		1-Way		12-18-27	16-22-32	20-25-35	22-27-39	24-30-42	26-32-45	29-35-50	32-39-55

24x24

**CEILING
DIFFUSERS**
**PERFORATED
CEILING DIFFUSERS**
XG-7600/XG-7650

PERFORMANCE NOTES FOR SERIES XG-7500/XG-7550/XG-7600/XG-7650

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

- CFM Cubic Feet per Minute (air)
fpm Velocity of air stream in Feet per Minute
Pv Velocity pressure (inches of water column)
Pt Total pressure (inches of water column)
Ps Static pressure = Pt-Pv (inches of water column)
Throw* Non-isothermal horizontal throw (supply air temperature 15°F colder than average room temperature);
values are for 150, 100 and 50fpm velocities
Throw Isothermal throw (supply air temperature the same as average room temperature);
values are for 150, 100 and 50fpm velocities
NC Noise criterion, sound pressure level NC ratings are based on sound power
level (Lw) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands

MODEL XG-7550R

Return – Model XG-7650R

XG-7650R-1 - Surface Mounted Steel

XG-7650R-1 AF - Surface Mounted Aluminum Face

XG-7650R-1 DF - Surface Mounted Dropped Face

XG-7650R-6 - T-bar Lay-in Steel

XG-7650R-6 AL - T-bar Lay-in Aluminum

XG-7650R-6 AF - T-bar Lay-in Aluminum Face

XG-7650R-8 - Tegular T-bar Steel

XG-7650R-8 AL - Tegular T-bar Aluminum

XG-7650R-8 AF - Tegular T-bar Aluminum Face

XG-7650R-9 - Donn Fineline Steel

XG-7650R-9 AF - Donn Fineline Aluminum Face

Air Outlets shall be model XG-7650R in steel, XG-7650R-AL aluminum, XG-7650R-AF with aluminum face or XG-7650R-DF with a dropped face manufactured by GREENHECK.

Units shall consist of a 51% free area perforated face with 3/16" diameter perforated holes on 1/4" staggered centers. Units shall be designed for use in ducted return or exhaust applications. The perforated face shall be hinged allowing access to the inside of the backpan. Face shall be secured in place with tension spring clips.

The units shall be the size and quantity as outlined in the plans and specifications. Units shall be designed to integrate into the specified ceiling system.

Square Neck Options and Accessories

Opposed Blade Damper

GREENHECK model XG-OBDA aluminum or XG-OBD steel round opposed blade type dampers shall be provided. Damper shall consist of gang operated blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screwdriver slot accessible by opening the face of the diffuser.

Equalizing Grid

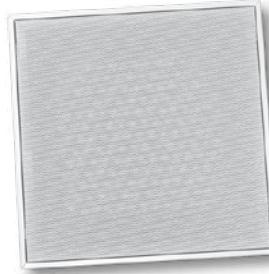
GREENHECK model XG-L9 aluminum, square equalizing grid shall be provided. Equalizing grid shall consist aluminum blades mounting in an aluminum frame.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

Paint Specification

Process shall be anodic electrodeposition using an anodic acrylic paint. Units shall undergo pre-treatment including a pressurized spray stage using an alkaline cleaner and a de-ionized water rinse.



CEILING
DIFFUSERS

PERFORATED
CEILING DIFFUSERS

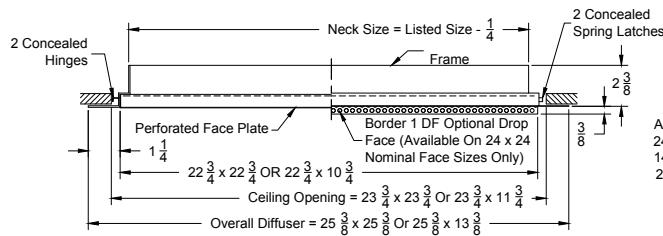
XG-7550R-F/XG-7650R

MODEL XG-7550R

Perforated Return Diffuser - Square Neck 12 x 12 and 24 x 24 Module

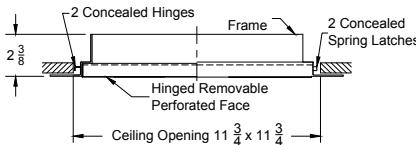
Models:	XG-7550R-1	Steel Backpan & Face - Surface Mount
	XG-7550R-1 DF	Steel Backpan & Face Surface Mount - Drop Face
	XG-7550R-1 AF	Steel Backpan & Aluminum Face - Surface Mount
	XG-7550R-6	Steel Backpan & Face - Lay in T-Bar
	XG-7550R-6 AF	Steel Backpan & Aluminum Face - Lay in T-Bar
	XG-7550R-6 AL	Aluminum Backpan & Face - Lay in T-Bar

- Models: XG-7550R-1 (Steel Backpan & Face - Surface Mount - 24 x 24)
 XG-7550R-1 DF (Steel Backpan & Face - Surface Mount - Drop Face - 24 x 24)
 XG-7550R-1 AF (Steel Backpan & Aluminum Face - Surface Mount - 24 x 24)



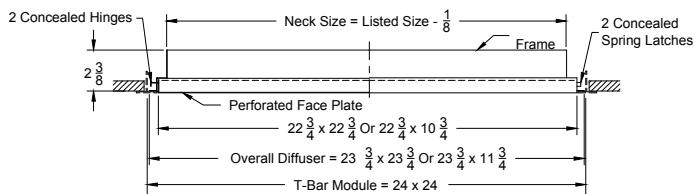
Available For 24 x 24 Ceiling Openings.
24 x 24 Return Available With 6 x 6, 8 x 8, 10 x 10
14 x 14, 16 x 16, and 22 x 22 Neck Size.
24 x 12 Return Available With 22 x 10 Neck Size Only.

- Models: XG-7550R-1 (Steel Backpan & Face - Surface Mount - 12 x 12)
 XG-7550R-1 DF (Steel Backpan & Face - Surface Mount - Drop Face - 12 x 12)
 XG-7550R-1 AF (Steel Backpan & Aluminum Face - Surface Mount - 12 x 12)



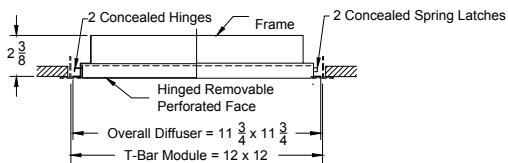
12 x 12 Return Diffuser Available 10 x 10 Neck Size Only.

- Models: XG-7550R-6 (Steel Backpan & Face - Lay in T-Bar - 24 x 24)
 XG-7550R-6 AF (Steel Backpan & Aluminum Face - Lay in T-Bar - 24 x 24)
 XG-7550R-6 AL (Aluminum Backpan & Face - Lay in T-Bar - 24 x 24)



Available For 24 x 24 And 24 x 12 T-Bar Lay-In Ceiling Grids.
24 x 24 Return Available With 6 x 6, 8 x 8, 10 x 10, 12 x 12
14 x 14, 16 x 16, 18 x 18 and 22 x 22 Neck Size.
24 x 12 Return Available With 22 x 10 Neck Size.

- Models: XG-7550R-6 (Steel Backpan & Face - Lay in T-Bar - 12 x 12)
 XG-7550R-6 AF (Steel Backpan & Aluminum Face - Lay in T-Bar - 12 x 12)



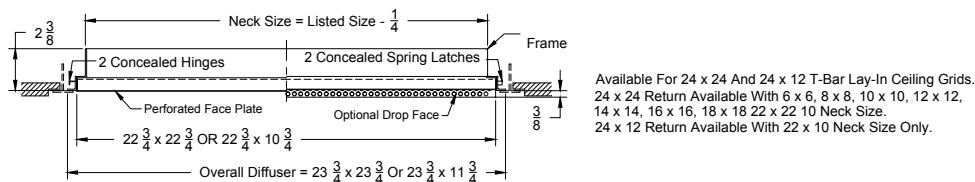
12 x 12 Return Diffuser Available 10 x 10 Neck Size Only.

MODEL XG-7550R

Perforated Return Diffuser - Square Neck 12 x 12 and 24 x 24 Module

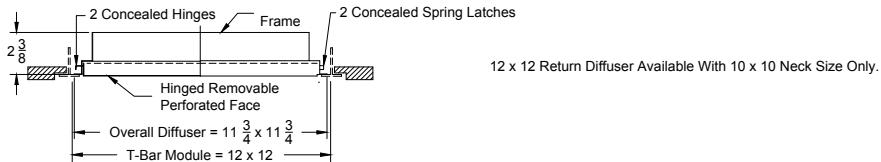
Models: XG-7550R-8 Steel Backpan & Face - Tegular T-Bar
 XG-7550R-8 AF Steel Backpan & Aluminum Face - Tegular T-Bar
 XG-7550R-8 AL Aluminum Backpan & Face - Tegular T-Bar
 XG-7550R-9 Steel Backpan & Face - 24 x 24 Donn Fineline Ceiling Grid
 XG-7550R-9 AF Steel Backpan & Aluminum Face - 24 x 24 Donn Fineline Ceiling Grid

Models: XG-7550R-8 (Steel Backpan & Face - Tegular T-Bar - 24 x 24)
 XG-7550R-8 AF (Steel Backpan & Aluminum Face - Tegular T-Bar - 24 x 24)
 XG-7550R-8 AL (Aluminum Backpan & Face) - Tegular T-Bar - 24 x 24)



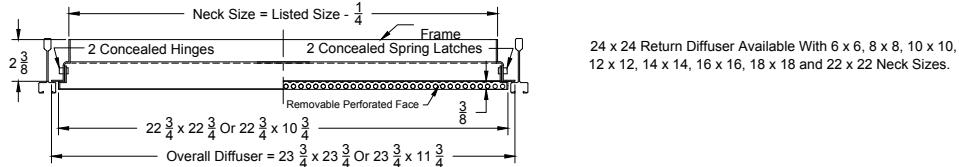
Available For 24 x 24 And 24 x 12 T-Bar Lay-In Ceiling Grids.
 24 x 24 Return Available With 6 x 6, 8 x 8, 10 x 10, 12 x 12,
 14 x 14, 16 x 16, 18 x 18 22 x 22 10 Neck Size.
 24 x 12 Return Available With 22 x 10 Neck Size Only.

Models: XG-7550R-8 (Steel Backpan & Face - Tegular T-Bar - 12 x 12)
 XG-7550R-8 AF (Steel Backpan & Aluminum Face - Tegular T-Bar - 12 x 12)



12 x 12 Return Diffuser Available With 10 x 10 Neck Size Only.

Models: XG-7550R-9 (Steel Backpan & Face - 24 x 24 Donn Fineline Ceiling Grid)
 XG-7550R-9 AF (Steel Backpan & Aluminum Face - 24 x 24 Donn Fineline Ceiling Grid)



24 x 24 Return Diffuser Available With 6 x 6, 8 x 8, 10 x 10,
 12 x 12, 14 x 14, 16 x 16, 18 x 18 and 22 x 22 Neck Sizes.

Notes: (check if provided)

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
Standard Finish: <input type="checkbox"/> 01 White. Optional Finish (additional charge): <input type="checkbox"/> 02 Satin Silver <input type="checkbox"/> 03 Black. <input type="checkbox"/> 28 Custom Color / Setup Charge.	Square Necks: <input type="checkbox"/> XG-OBD - Steel Opposed Blade Damper. <input type="checkbox"/> XG-OBDA - Aluminum Opposed Blade damper. Replacement Parts: <input type="checkbox"/> Replacement Steel Face Plates. <input type="checkbox"/> Replacement Aluminum Face Plate.		<ul style="list-style-type: none"> ● Available only in listed sizes.

MODEL XG-7650R

Return – Model XG-7650R

XG-7650R-1 - Surface Mounted Steel

XG-7650R-1 AF - Surface Mounted Aluminum Face

XG-7650R-1 DF - Surface Mounted Dropped Face

XG-7650R-6 - T-bar Lay-in Steel

XG-7650R-6 AL - T-bar Lay-in Aluminum

XG-7650R-6 AF - T-bar Lay-in Aluminum Face

XG-7650R-8 - Tegular T-bar Steel

XG-7650R-8 AL - Tegular T-bar Aluminum

XG-7650R-8 AF - Tegular T-bar Aluminum Face

XG-7650R-9 - Donn Fineline Steel

XG-7650R-9 AF - Donn Fineline Aluminum Face

Air Outlets shall be model XG-7650R in steel, XG-7650R-AL aluminum, XG-7650R-AF with aluminum face or XG-7650R-DF with a dropped face manufactured by GREENHECK.

Units shall consist of a 51% free area perforated face with 3/16" diameter perforated holes on 1/4" staggered centers. Units shall be designed for use in ducted return or exhaust applications. The perforated face shall be hinged allowing access to the inside of the backpan. Face shall be secured in place with tension spring clips.

The units shall be the size and quantity as outlined in the plans and specifications. Units shall be designed to integrate into the specified ceiling system.

Square Neck Options and Accessories

Opposed Blade Damper

GREENHECK model XG-OBDA aluminum or XG-OBD steel round opposed blade type dampers shall be provided. Damper shall consist of gang operated blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screwdriver slot accessible by opening the face of the diffuser.

Equalizing Grid

GREENHECK model XG-L9 aluminum, square equalizing grid shall be provided. Equalizing grid shall consist aluminum blades mounting in an aluminum frame.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

Paint Specification

Process shall be anodic electrodeposition using an anodic acrylic paint. Units shall undergo pre-treatment including a pressurized spray stage using an alkaline cleaner and a de-ionized water rinse.

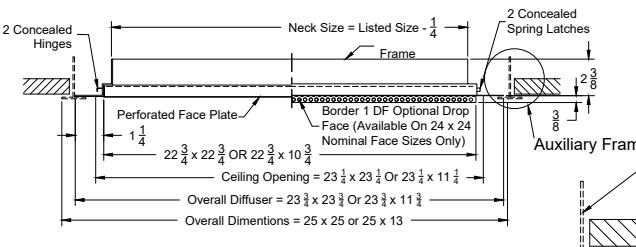
MODEL XG-7650R

Perforated Return Diffuser - Square Neck 12 x 12 and 24 x 24 Module

Models:

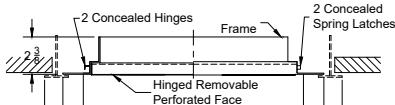
- XG-7650R-1 Steel Backpan & Face - Surface Mount
- XG-7650R-1 DF Steel Backpan & Face Surface Mount - Drop Face
- XG-7650R-1 AF Steel Backpan & Aluminum Face - Surface Mount
- XG-7650R-6 Steel Backpan & Face - Lay in T-Bar
- XG-7650R-6 AF Steel Backpan & Aluminum Face - Lay in T-Bar
- XG-7650R-6 AL Aluminum Backpan & Face - Lay in T-Bar

- Models: XG-7650R-1 (Steel Backpan & Face - Surface Mount - 24 x 24)
 XG-7650R-1 DF (Steel Backpan & Face - Surface Mount - Drop Face - 24 x 24)
 XG-7650R-1 AF (Steel Backpan & Aluminum Face - Surface Mount - 24 x 24)



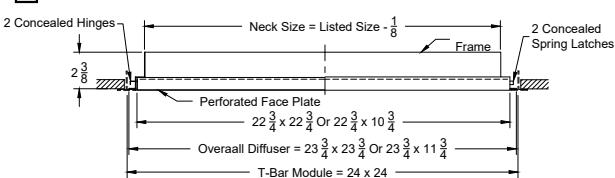
Available For 24 x 24 Ceiling Openings.
 24 x 24 Return Available With 6 x 6, 8 x 8, 10 x 10
 14 x 14, 16 x 16 and 22 x 22 Neck Size.
 24 x 12 Return Available With 22 x 10 Neck Size Only.

- Models: XG-7650R-1 (Steel Backpan & Face - Surface Mount - 12 x 12)
 XG-7650R-1 DF (Steel Backpan & Face - Surface Mount - Drop Face - 12 x 12)
 XG-7650R-1 AF (Steel Backpan & Aluminum Face - Surface Mount - 12 x 12)



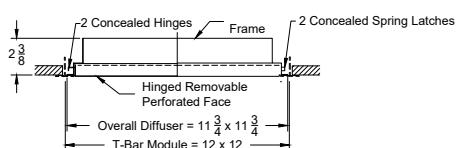
12 x 12 Return Diffuser Available 10 x 10 Neck Size Only.

- Models: XG-7650R-6 (Steel Backpan & Face - Lay In T-Bar - 24 x 24)
 XG-7650R-6 AF (Steel Backpan & Aluminum Face - Lay in T-Bar - 24 x 24)
 XG-7650R-6 AL (Aluminum Backpan & Face - Lay in T-Bar - 24 x 24)



Available For 24 x 24 And 24 x 12 T-Bar Lay-In Ceiling Grids.
 24 x 24 Return Available With 6 x 6, 8 x 8, 10 x 10, 12 x 12
 14 x 14, 16 x 16, 18 x 18 and 22 x 22 Neck Size.
 24 x 12 Return Available With 22 x 10 Neck Size.

- Models: XG-7650R-6 (Steel Backpan & Face - Lay in T-Bar - 12 x 12)
 XG-7650R-6 AF (Steel Backpan & Aluminum Face - Lay in T-Bar - 12 x 12)



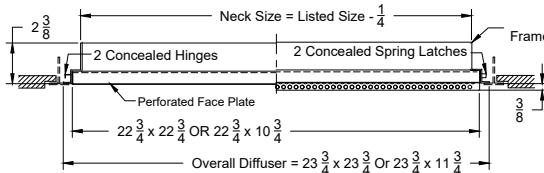
12 x 12 Return Diffuser Available 10 x 10 Neck Size Only.

MODEL XG-7650R

Perforated Return Diffuser - Square Neck 12 x 12 and 24 x 24 Module

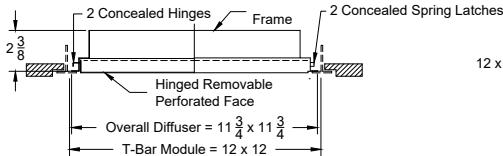
- Models:
- XG-7650R-8 Steel Backpan & Face - Tegular T-Bar
 - XG-7650R-8 AF Steel Backpan & Aluminum Face - Tegular T-Bar
 - XG-7650R-8 AL Aluminum Backpan & Face - Tegular T-Bar
 - XG-7650R-9 Steel Backpan & Face - 24 x 24 Donn Fineline Ceiling Grid
 - XG-7650R-9 AF Steel Backpan & Aluminum Face - 24 x 24 Donn Fineline Ceiling Grid

- Models:
- XG-7650R-8 (Steel Backpan & Face - Tegular T-Bar - 24 x 24)
 - XG-7650R-8 AF (Steel Backpan & Aluminum Face - Tegular T-Bar - 24 x 24)
 - XG-7650R-8 AL (Aluminum Backpan & Face) - Tegular T-Bar - 24 x 24)



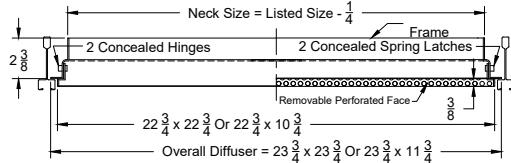
Available For 24 x 24 And 24 x 12 T-Bar Lay-In Ceiling Grids.
24 x 24 Return Available With 6 x 6, 8 x 8, 10 x 10, 12 x 12,
14 x 14, 16 x 16, 18 x 18 22 x 22 10 Neck Size.
24 x 12 Return Available With 22 x 10 Neck Size Only.

- Models:
- XG-7650R-8 (Steel Backpan & Face - Tegular T-Bar - 12 x 12)
 - XG-7650R-8 AF (Steel Backpan & Aluminum Face - Tegular T-Bar - 12 x 12)



12 x 12 Return Diffuser Available With 10 x 10 Neck Size Only.

- Models:
- XG-7650R-9 (Steel Backpan & Face - 24 x 24 Donn Fineline Ceiling Grid)
 - XG-7650R-9 AF (Steel Backpan & Aluminum Face - 24 x 24 Donn Fineline Ceiling Grid)



24 x 24 Return Diffuser Available With 6 x 6, 8 x 8, 10 x 10,
12 x 12, 14 x 14, 16 x 16, 18 x 18 and 22 x 22 Neck Sizes.

Notes: (check if provided)

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
<p>Standard Finish: <input type="checkbox"/> 01 White. Optional Finish (additional charge): <input type="checkbox"/> 02 Satin Silver <input type="checkbox"/> 03 Black. <input type="checkbox"/> 28 Custom Color / Setup Charge. </p>	<p>Square Necks: <input type="checkbox"/> XG-OBD - Steel Opposed Blade Damper. <input type="checkbox"/> XG-OBDA - Aluminum Opposed Blade Damper. Replacement Parts: <input type="checkbox"/> Replacement Steel Face Plates. <input type="checkbox"/> Replacement Aluminum Face Plate. </p>		<ul style="list-style-type: none"> ● Available only in listed sizes.

SERIES XG-7550R-F/XG-7650R-F PERFORMANCE DATA
MODEL XG-7550R-F/XG-7650R-F

Neck Size	fpm Neck Velocity	300	400	500	600	700	800	900	1000
	Ps	.008	.015	.020	.030	.050	.060	.080	.080
<i>6 x 6</i>	CFM	75	100	120	150	175	200	225	250
<i>8 x 8</i>	CFM	130	175	220	265	310	350	400	445
<i>10 x 10</i>	CFM	210	275	345	415	485	555	625	695
<i>12 x 12</i>	CFM	300	400	500	600	700	800	900	1000
<i>14 x 14</i>	CFM	410	545	680	815	950	1090	1225	1360
<i>16 x 16</i>	CFM	530	710	885	1060	1240	1415	1600	1770
<i>22 x 22</i>	CFM	1010	1345	1680	2015	2350	2690	3025	3360

PERFORMANCE NOTES FOR SERIES XG-7550R-F/XG-7650R-F

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

fpm Velocity of air stream in Feet per Minute

Pv Velocity pressure (inches of water column)

Pt Total pressure (inches of water column)

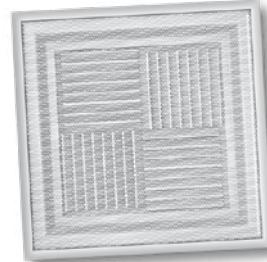
Ps Static pressure = Pt-Pv (inches of water column)

Throw* Non-isothermal horizontal throw (supply air temperature 15°F colder than average room temperature); values are for 150, 100 and 50fpm velocities

Throw Isothermal throw (supply air temperature the same as average room temperature); values are for 150, 100 and 50fpm velocities

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands

MODEL XG-7900



Supply - Perforated Modular Core - Extruded Aluminum - Square Neck - 1 to 4 Core/Series XG-7900

Steel

XG-7900-1 - Surface Mounted
XG-7900-8 - Tegular T-bar

XG-7900-6 - T-bar Lay-in
XG-7900-9 - Donn Fineline

Air Outlets shall be aluminum model XG-7900 manufactured by GREENHECK. Units shall consist of an aluminum 51% free area perforated face with 3/16" diameter perforated holes on 1/4" staggered centers. Border of outlet shall be constructed from an aluminum extrusion.

The perforated face shall be removable allowing access to adjustable modular core pattern controllers mounted onto the inside neck of the outlet. Steel modular cores deflectors are not acceptable. Face shall be secured in place with tension spring clips. Outlets shall be field adjustable allowing 1, 2 way opposite, 2 way corner, 3, and 4 way directional air patterns.

The units shall be the size and quantity as outline in the plans and specifications. Units shall be designed to integrate into the specified ceiling system.

Square Neck Options and Accessories

Opposed Blade Damper

GREENHECK model XG-OBDA aluminum and XG-OBD steel opposed blade type dampers shall be provided. Damper shall consist of gang operated blades that can be adjusted from full open to full closed. Damper shall be screw slot operated that can be accessed through the damper of the diffuser.

Equalizing Grid

GREENHECK model XG-L9 aluminum square equalizing grid shall be provided. Equalizing grid shall consist aluminum blades mounting in an aluminum frame.

Round Neck Optional Dampers and Accessories

Square to Round Transitions

Units to have square to round transitions allowing installation with round ductwork.

Butterfly Damper

GREENHECK model XG-BDS aluminum round butterfly type dampers shall be provided. Damper shall consist of two butterfly style blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Radial Shutter Damper

GREENHECK model XG-RSD steel round radial shutter damper shall be provided. Damper shall consist of gang operated radial blades that slide perpendicular to air flow direction. The damper shall be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Opposed Blade Damper

GREENHECK model XG-D3 aluminum or XG-SD3 steel round opposed blade type dampers shall be provided. Damper shall consist of gang operated blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Equalizing Grid

GREENHECK model XG-G3 aluminum round equalizing grid shall be provided. Equalizing grid shall consist of 1/2" x 1/2" x 1/2" aluminum cubed core mounting in an aluminum frame.

Performance Specification

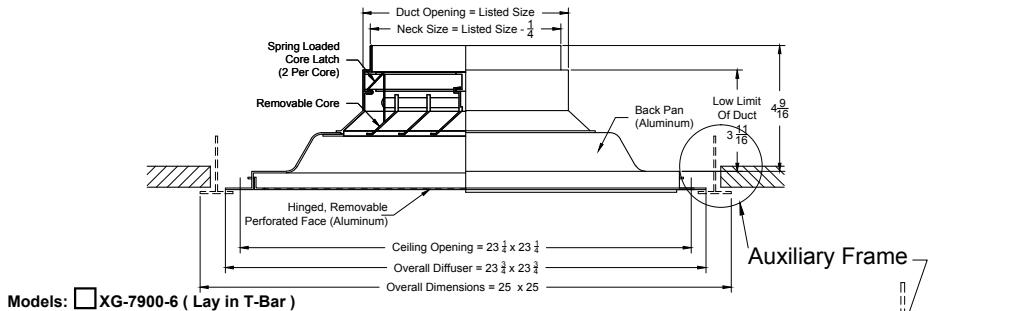
The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

MODEL XG-7900

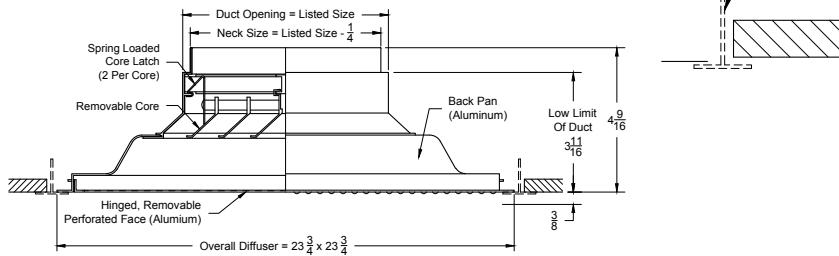
Perforated Modular Core Supply Diffusers
 Aluminum - Square Neck - 1 to 4 Core

- Models:
- XG-7900-1 Surface Mount
 - XG-7900-1 DF Surface Mount - Drop Face
 - XG-7900-6 Lay in T-Bar
 - XG-7900-8 Tegular T-Bar

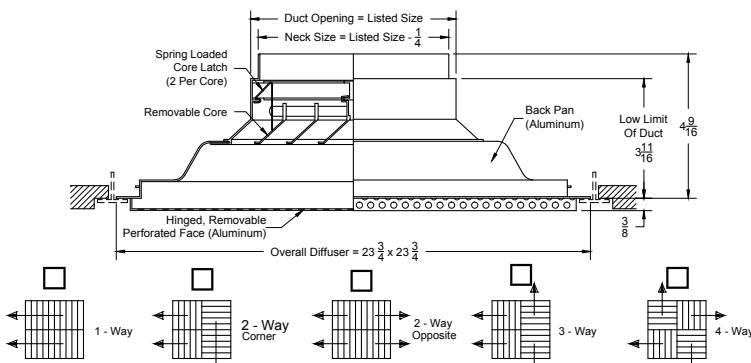
Models: XG-7900-1 XG-7900-1 DF (Surface Mount)



Models: XG-7900-6 (Lay in T-Bar)



Models: XG-7900-8 (Tegular T-Bar)



Field Adjustable Air Deflection Patterns Obtained By Removing And Rearranging Modular Cores In Frames.

XG-7900 MODEL NUMBER SPECIFICATION
PERFORATED MODULAR CORE CEILING DIFFUSER — STEEL

Model		Available Neck	Module	Air Pattern	Available Finishes	
XG-7900-1	Surface Mount	6 x 6	12 x 12	S1-1	Standard	
		6 x 6			01	White
		8 x 8	20 x 20		Optional	
		10 x 10	24 x 24	S4-4	02	Satin Silver
		12 x 12	48 x 24		03	Black
		14 x 14			24	Mill
		16 x 16	24 x 24	S4-4	28	Custom Color
		18 x 18	48 x 24		Available Accessories	
		20 x 20	24 x 24		OBDXG-	Steel Opposed Blade Damper
					XG-OBDA	Aluminum Opposed Blade Damper
					XG-L9	Square / Rectangular Equalizing Grid
					XG-TR	Square to Round Transition
					XG-TR Deep	Deep Square to Round Transition

XG-7900 MODEL NUMBER SPECIFICATION

PERFORATED MODULAR CORE CEILING DIFFUSER – STEEL

Model		Available Neck	Module	Air Pattern	Available Finishes	
XG-7900-6	T-bar Lay-in	6 x 6	12 x 12	S1-1 S4-4	Standard	
		6 x 6			01	White
		8 x 8	20 x 20		Optional	
		10 x 10	24 x 24		02	Satin Silver
		12 x 12	48 x 24		03	Black
		14 x 14			22	Black BP / White Face
		16 x 16	24 x 24		28	Custom Color
		18 x 18	48 x 24		Available Accessories	
		20 x 20	24 x 24		XG-OBD	Steel Opposed Blade Damper
					XG-OBDA	Aluminum Opposed Blade Damper
					XG-L9	Square / Rectangular Equalizing Grid
					XG-TR	Square to Round Transition
					XG-TR Deep	Deep Square to Round Transition

Model		Available Neck	Module	Air Pattern	Available Finishes	
XG-7900-7	Concealed Spine	6 x 6	24 x 24	S1-1 S4-4	Standard	
XG-7900-8	Tegeular T-bar	8 x 8			01	White
		10 x 10			Optional	
		12 x 12			02	Satin Silver
		14 x 14			03	Black
		16 x 16			22	Black BP / White Face
		18 x 18			28	Custom Color
		20 x 20			Available Accessories	
					XG-OBD	Steel Opposed Blade Damper
					XG-OBDA	Aluminum Opposed Blade Damper
					XG-L9	Square / Rectangular Equalizing Grid
					XG-TR	Square to Round Transition
					XG-TR Deep	Deep Square to Round Transition

SERIES XG-7900 PERFORMANCE DATA
MODEL XG-7900 (4 CORE)

Listed Size	Vn Neck Velocity fpm	200		300		400		500		600		700	
	Pt	.020		.045		.080		.125		.180		.245	
	Side Designation	A	B	A	B	A	B	A	B	A	B	A	B
6 x 6	CFM	50		75		100		125		150		175	
	NC	<20		<20		21		27		33		37	
	4-Way Throw	1-3		1-4		2-6		3-9		4-12		5-14	
	3-Way Throw	1-3	2-4	1-4	2-6	2-6	3-8	3-9	4-13	4-12	6-17	5-14	7-20
	2-Way Throw	2-4		2-6		3-8		4-13		6-17		7-20	
	1-Way Throw	2-6		2-8		4-12		6-18		12-24		10-28	
	CFM	90		130		175		220		265		310	
8 x 8	NC	<20		<20		25		30		35		40	
	4-Way Throw	1-3		2-6		3-9		4-12		5-15		6-18	
	3-Way Throw	1-3	2-4	2-6	3-8	3-9	4-13	4-12	6-17	5-15	7-21	6-18	8-25
	2-Way Throw	2-4		3-8		4-13		6-17		7-21		8-25	
	1-Way Throw	2-6		4-12		6-18		8-24		10-30		12-36	
	CFM	140		205		275		345		415		485	
10 x 10	NC	<20		<20		26		32		37		42	
	4-Way Throw	1-3		2-7		3-9		5-15		7-20		8-23	
	3-Way Throw	1-3	2-4	2-7	3-10	3-9	4-13	5-15	7-21	7-20	10-28	8-23	11-32
	2-Way Throw	2-4		3-10		4-13		7-21		10-28		11-32	
	1-Way Throw	2-6		4-14		6-18		10-30		14-40		16-46	
	CFM	200		300		400		500		600		700	
12 x 12	NC	<20		20		28		35		40		45	
	4-Way Throw	1-4		2-7		4-11		6-17		8-23		9-26	
	3-Way Throw	1-4	2-6	2-7	3-10	4-11	6-16	6-17	8-24	8-23	11-32	9-26	13-37
	2-Way Throw	2-6		3-10		6-16		8-24		11-32		13-37	
	1-Way Throw	2-8		4-14		8-22		12-34		16-46		18-52	
	CFM	270		405		545		680		815		950	
14 x 14	NC	<20		21		29		36		41		46	
	4-Way Throw	1-4		3-9		5-15		8-23		10-29		11-33	
	3-Way Throw	1-4	2-6	3-9	4-13	5-15	7-21	8-23	11-32	10-29	14-41	11-33	16-47
	2-Way Throw	2-6		4-13		7-21		11-32		14-41		16-47	
	1-Way Throw	2-8		6-18		10-30		16-46		20-58		22-66	
	CFM	355		530		710		885		1070		1245	
16 x 16	NC	<20		22		30		37		42		46	
	4-Way Throw	1-5		3-9		5-15		8-24		11-32		12-35	
	3-Way Throw	1-5	2-7	3-9	4-13	5-15	7-21	8-24	11-34	11-32	16-45	12-35	17-49
	2-Way Throw	2-7		4-13		7-21		11-34		16-45		17-49	
	1-Way Throw	2-10		6-18		10-30		16-48		22-64		24-70	
	CFM	450		670		900		1120		1345		1570	
18 x 18	NC	<20		23		31		37		43		47	
	4-Way Throw	1-6		3-10		5-16		9-27		12-35		13-39	
	3-Way Throw	1-6	2-8	3-10	4-14	5-16	7-23	9-27	13-38	12-35	17-49	13-39	18-55
	2-Way Throw	2-8		4-14		7-23		13-38		17-49		18-55	
	1-Way Throw	2-11		6-20		10-32		18-54		24-70		26-78	
	CFM	560		830		1110		1385		1665		1945	
20 x 20	NC	<20		24		32		38		44		48	
	4-Way Throw	2-6		3-11		6-18		9-27		12-36		13-39	
	3-Way Throw	2-6	3-8	3-11	4-16	6-18	8-25	9-27	13-38	12-36	17-51	13-39	18-55
	2-Way Throw	3-8		4-16		8-25		13-38		17-51		18-55	
	1-Way Throw	4-12		6-22		12-36		18-54		24-72		26-78	

SERIES XG-7900 PERFORMANCE DATA
MODEL XG-7900 SINGLE CORE

Single Core Size Inches	Neck	200	300	400	500	600	700
	Outlet Vel	310	460	615	770	925	1080
	Pt	.020	.045	.080	.125	.180	.245
3 x 3	CFM	13	19	25	32	38	44
	Throw	1-3	1-4	2-6	3-9	4-12	5-14
	NC	<20	<20	<20	21	27	31
4 x 4	CFM	22	33	44	56	67	78
	Throw	1-3	2-6	3-9	4-12	5-15	6-18
	NC	<20	<20	<20	24	29	34
5 x 5	CFM	35	52	70	87	104	122
	Throw	1-3	2-7	3-9	5-15	7-20	8-23
	NC	<20	<20	20	26	31	36
6 x 6	CFM	50	75	100	125	150	175
	Throw	2-6	2-8	4-12	6-18	12-24	10-28
	NC	<20	<20	21	27	33	37
7 x 7	CFM	68	102	136	170	204	238
	Throw	2-6	3-9	5-15	7-21	10-27	11-33
	NC	<20	<20	23	28	34	38
8 x 8	CFM	89	133	178	222	267	311
	Throw	2-6	4-12	6-18	8-24	10-30	12-36
	NC	<20	<20	25	30	35	40
9 x 9	CFM	112	169	225	281	337	393
	Throw	2-6	4-13	6-18	9-27	12-35	14-42
	NC	<20	<20	25	31	36	41
10 x 10	CFM	139	208	278	347	416	486
	Throw	2-6	4-14	6-18	10-30	14-40	16-46
	NC	<20	<20	26	32	37	42
11 x 11	CFM	168	252	336	420	504	588
	Throw	2-7	4-14	7-20	11-27	15-43	17-49
	NC	<20	<20	27	33	38	43
12 x 12	CFM	200	300	400	500	600	700
	Throw	2-8	4-14	8-22	12-24	16-46	18-52
	NC	<20	20	28	35	40	45

PERFORMANCE NOTES FOR SERIES XG-7900

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

- CFM Cubic Feet Per Minute (air)
fpm Velocity of air stream in Feet Per Minute
Pt Total pressure (inches of water column)
Throw Non-isothermal horizontal throw (supply air temperature 15°F colder than average room temperature);
values are for 150, 100 and 50fpm velocities
NC Noise criterion, sound pressure level NC ratings are based on sound power
level (L_w) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands

MODEL XG-7950

Supply Diffusers - Perforated Modular Core - Square Neck - 4 Core/Series XG-7950

Steel Aluminum Face - Steel Backpan

XG-7950-1 - Surface Mounted

XG-7950-1 AF - Surface Mounted

XG-7950-9 - Donn Fineline

XG-7950-1 DF - Surface Mounted-Dropped Face

XG-7950-6 AF - T-bar Lay-in

XG-7950-6 - T-bar Lay-in

XG-7950-8 AF - Tegular T-bar

XG-7950-8 - Tegular T-bar

XG-7950-9 AF - Donn Fineline

Air Outlets shall be steel model XG-7950 or aluminum face, steel backpan model XG-7950-AF manufactured by GREENHECK.

Units shall consist of aluminum 51% free area perforated face with 3/16" diameter perforated holes on 1/4" staggered centers. The perforated face shall be hinged allowing access to four adjustable aluminum modular core pattern controllers mounted into the neck of the outlet. Steel modular cores deflectors are not acceptable. Face shall be secured in place with tension spring clips. Outlets shall be field adjustable allowing 1, 2-way opposite, 2-way corner, 3, and 4-way directional air patterns.

The units shall be the size and quantity as outline in the plans and specifications. Units shall be designed to integrate into the specified ceiling system.

Square Neck Options and Accessories

Opposed Blade Damper

GREENHECK model XG-OBDA aluminum or XG- OBD steel round opposed blade type dampers shall be provided. Damper shall consist of gang operated blades that can be adjusted from full open to full closed. Damper shall be adjusted with a handle accessible by opening the face of the diffuser.

Equalizing Grid

GREENHECK model XG-L9 aluminum square equalizing grid shall be provided. Equalizing grid shall consist aluminum blades mounting in an aluminum frame.

Round Neck Optional Dampers and Accessories:

Square to Round Transitions

Units to have square to round transitions allowing installation with round ductwork.

Butterfly Damper

GREENHECK model XG-BDS aluminum round butterfly type dampers shall be provided. Damper shall consist of two butterfly style blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Radial Shutter Damper

GREENHECK model XG-RSD steel round radial shutter damper shall be provided. Damper shall consist of gang operated radial blades that slide perpendicular to air flow direction. The damper shall be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Opposed Blade Damper

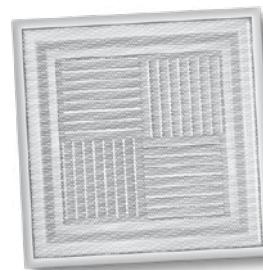
GREENHECK model XG-D3 aluminum or XG-SD3 steel round opposed blade type dampers shall be provided. Damper shall consist of gang operated blades that can be adjusted from full open to full closed. Damper shall be adjusted with a screw driver slot that can be assessed through the face of the diffuser.

Equalizing Grid

GREENHECK model XG-G3 aluminum round equalizing grid shall be provided. Equalizing grid shall consist of 1/2" x 1/2" x 1/2" aluminum cubed core mounting in an aluminum frame.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006



CEILING
DIFFUSERS

PERFORATED
CEILING DIFFUSERS

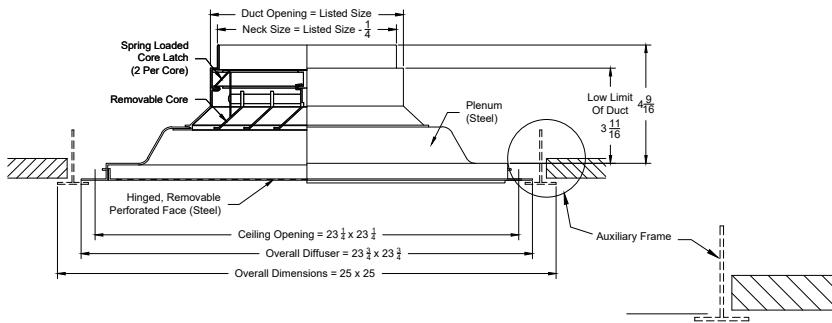
XG-7950

MODEL XG-7950

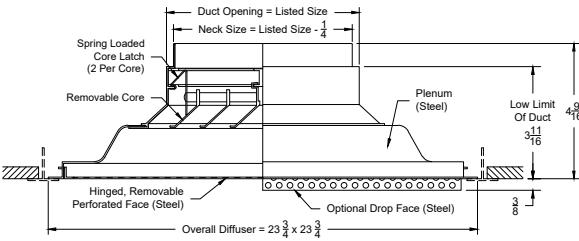
Perforated Modular Core Supply Diffusers Steel Backpan - Square Neck - 4 Core

- Models **XG-7950-1** Steel Backpan & Face - Surface Mount
 XG-7950-1 DF Steel Backpan & Face - Surface Mount - Drop Face
 XG-7950-1 AF Steel Backpan & Aluminum Face -Surface Mount
 XG-7950-6 Steel Backpan & Face - Lay in T-Bar
 XG-7950-6 AF Steel Backpan & Aluminum Face - Lay in T-Bar
 XG-7950-8 Steel Backpan & Face - Tegular T-Bar
 XG-7950-8 AF Steel Backpan & Aluminum Face - Tegular T-Bar

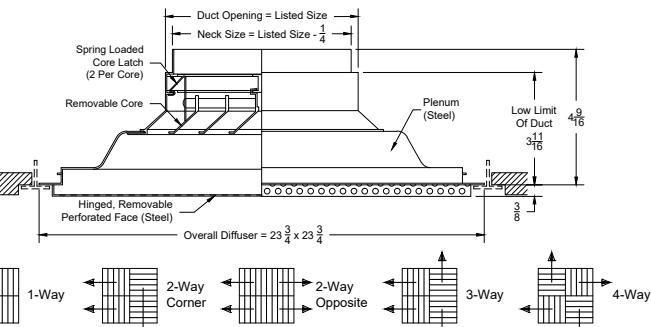
Models: XG-7950-1, XG-7950-1 DF and XG-7950-1 AF (Surface Mount)



Models: XG-7950-6 and XG-7950-6 AF (Lay in T-Bar)



Models: XG-7950-8 and XG-7950-8 AF (Tegular T-Bar)



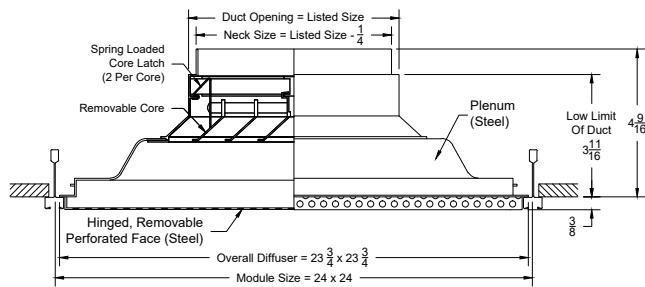
Field Adjustable Air Deflection Patterns Obtained By Removing And Rearranging Modular Cores In Frames.

MODEL XG-7950

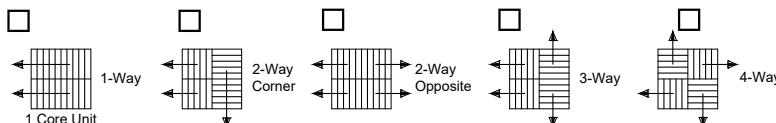
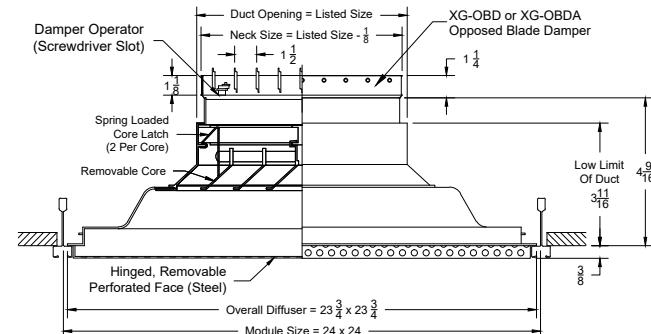
Perforated Modular Core Supply Diffusers Steel Backpan - Square Neck - 4 Core

Models: XG-7950-9 Steel Backpan & Face - Donn Fineline Ceiling Grid
 XG-7950-9 AF Steel Backpan & Aluminum Face - Donn Fineline Ceiling Grid
 Option: XG-OBD Steel Opposed Blade Damper
 XG-OBDA Aluminum Opposed Blade Damper

Model: XG-7950-9 and XG-7950-9 AF (24 x 24 Donn Ceiling Grid)



Options: XG-OBD - Steel Opposed Blade Damper (Showed with XG-7950-9 Model)
 XG-OBDA - Aluminum Opposed Blade Damper



Field Adjustable Air Deflection Patterns Obtained By Removing And Rearranging Modular Cores In Frames.

Notes: (check if provided)

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
Standard Finish (no extra charge): <input type="checkbox"/> 01 White (For 7950-1 Models only). <input type="checkbox"/> 02 Satin Silver <input type="checkbox"/> 22 BBP White Perforated Face with Black backpan and cores. Optional Finish (additional charge): <input type="checkbox"/> 03 Black. <input type="checkbox"/> 28 Custom Color.	<input type="checkbox"/> XG-OBD - Steel Opposed Blade Damper. <input type="checkbox"/> XG-OBDA - Aluminum Opposed Blade Damper. <input type="checkbox"/> XG-L9 - Equalizing Grid. <input type="checkbox"/> XG-TR - Deep Transitions		<ul style="list-style-type: none"> Available only in listed sizes. All Models have 4 core for possible 1, 2, 3, or 4 way air patterns.

XG-7950 MODEL NUMBER SPECIFICATION
PERFORATED MODULAR CORE CEILING DIFFUSER

Model		Available Neck	Module	Air Pat-tern	Available Finishes	
XG-7950-1	Surface Mount Steel	6 x 6 8 x 8 10 x 10 12 x 12 14 x 14 16 x 16	24 x 24	S4-4	Standard	
XG-7950-1 AF	Surface Mount Aluminum Face				01	White
XG-7950-1 DF	Surface Mount Drop face				Optional	
					02	Satin Silver
					03	Black
					22	Black BP / White Face
					28	Custom Color
Available Accessories						
					XG-OBD	Steel Opposed Blade Damper
					XG-OBDA	Aluminum Opposed Blade Damper
					XG-L9	Square / Rectangular Equalizing Grid
					XG-TR	Square to Round Transition
					TR Deep	Deep Square to Round Transition

Model		Available Neck	Module	Air Pat-tern	Available Finishes	
XG-7950-6	T-bar Lay-in	6 x 6 8 x 8 10 x 10 12 x 12 14 x 14 16 x 16	24 x 24	S4-4	Standard	
XG-7950-6 AF	T-bar Lay-in Aluminum Face				01	White
XG-7950-8	Tegular T-bar				Optional	
XG-7950-8 AF	Tegular T-bar Aluminum Face				02	Satin Silver
					03	Black
					22	Black BP / White Face
					28	Custom Color
Available Accessories						
					XG-OBD	Steel Opposed Blade Damper
					XG-OBDA	Aluminum Opposed Blade Damper
					XG-L9	Square / Rectangular Equalizing Grid
					XG-TR	Square to Round Transition
					XG-TR Deep	Deep Square to Round Transition

SERIES XG-7950 PERFORMANCE DATA
MODEL XG-7950 (4 CORE)

Listed Size	Vn Neck Velocity fpm	200		300		400		500		600		700	
	Pt	.020		.045		.080		.125		.180		.245	
	Side Designation	A	B	A	B	A	B	A	B	A	B	A	B
6 x 6	CFM	50		75		100		125		150		175	
	NC	<20		<20		21		27		33		37	
	4-Way Throw	1-3		1-4		2-6		3-9		4-12		5-14	
	3-Way Throw	1-3	2-4	1-4	2-6	2-6	3-8	3-9	4-13	4-12	6-17	5-14	7-20
	2-Way Throw	2-4		2-6		3-8		4-13		6-17		7-20	
	1-Way Throw	2-6		2-8		4-12		6-18		12-24		10-28	
8 x 8	CFM	90		130		175		220		265		310	
	NC	<20		<20		25		30		35		40	
	4-Way Throw	1-3		2-6		3-9		4-12		5-15		6-18	
	3-Way Throw	1-3	2-4	2-6	3-8	3-9	4-13	4-12	6-17	5-15	7-21	6-18	8-25
	2-Way Throw	2-4		3-8		4-13		6-17		7-21		8-25	
	1-Way Throw	2-6		4-12		6-18		8-24		10-30		12-36	
10 x 10	CFM	140		205		275		345		415		485	
	NC	<20		<20		26		32		37		42	
	4-Way Throw	1-3		2-7		3-9		5-15		7-20		8-23	
	3-Way Throw	1-3	2-4	2-7	3-10	3-9	4-13	5-15	7-21	7-20	10-28	8-23	11-32
	2-Way Throw	2-4		3-10		4-13		7-21		10-28		11-32	
	1-Way Throw	2-6		4-14		6-18		10-30		14-40		16-46	
12 x 12	CFM	200		300		400		500		600		700	
	NC	<20		20		28		35		40		45	
	4-Way Throw	1-4		2-7		4-11		6-17		8-23		9-26	
	3-Way Throw	1-4	2-6	2-7	3-10	4-11	6-16	6-17	8-24	8-23	11-32	9-26	13-37
	2-Way Throw	2-6		3-10		6-16		8-24		11-32		13-37	
	1-Way Throw	2-8		4-14		8-22		12-34		16-46		18-52	
14 x 14	CFM	270		405		545		680		815		950	
	NC	<20		21		29		36		41		46	
	4-Way Throw	1-4		3-9		5-15		8-23		10-29		11-33	
	3-Way Throw	1-4	2-6	3-9	4-13	5-15	7-21	8-23	11-32	10-29	14-41	11-33	16-47
	2-Way Throw	2-6		4-13		7-21		11-32		14-41		16-47	
	1-Way Throw	2-8		6-18		10-30		16-46		20-58		22-66	
16 x 16	CFM	355		530		710		885		1070		1245	
	NC	<20		22		30		37		42		46	
	4-Way Throw	1-5		3-9		5-15		8-24		11-32		12-35	
	3-Way Throw	1-5	2-7	3-9	4-13	5-15	7-21	8-24	11-34	11-32	16-45	11-33	17-49
	2-Way Throw	2-7		4-13		7-21		11-34		16-45		17-49	
	1-Way Throw	2-10		6-18		10-30		16-48		22-64		24-70	
18 x 18	CFM	450		670		900		1120		1345		1570	
	NC	<20		23		31		37		43		47	
	4-Way Throw	1-6		3-10		5-16		9-27		12-35		13-39	
	3-Way Throw	1-6	2-8	3-10	4-14	5-16	7-23	9-27	13-38	12-35	17-49	13-39	18-55
	2-Way Throw	2-8		4-14		7-23		13-38		17-49		18-55	
	1-Way Throw	2-11		6-20		10-32		18-54		24-70		26-78	
20 x 20	CFM	560		830		1110		1385		1665		1945	
	NC	<20		24		32		38		44		48	
	4-Way Throw	2-6		3-11		6-18		9-27		12-36		13-39	
	3-Way Throw	2-6	3-8	3-11	4-16	6-18	8-25	9-27	13-38	12-36	17-51	13-39	18-55
	2-Way Throw	3-8		4-16		8-25		13-38		17-51		18-55	
	1-Way Throw	4-12		6-22		12-36		18-54		24-72		26-78	

SERIES XG-7950 PERFORMANCE DATA
MODEL XG-7950 (SINGLE CORE)

Single Core Size Inches	Neck	200	300	400	500	600	700
	Outlet Vel	310	460	615	770	925	1080
	Pt	.020	.045	.080	.125	.180	.245
3 x 3	CFM	13	19	25	32	38	44
	Throw	1-3	1-4	2-6	3-9	4-12	5-14
	NC	<20	<20	<20	21	27	31
4 x 4	CFM	22	33	44	56	67	78
	Throw	1-3	2-6	3-9	4-12	5-15	6-18
	NC	<20	<20	<20	24	29	34
5 x 5	CFM	35	52	70	87	104	122
	Throw	1-3	2-7	3-9	5-15	7-20	8-23
	NC	<20	<20	20	26	31	36
6 x 6	CFM	50	75	100	125	150	175
	Throw	2-6	2-8	4-12	6-18	12-24	10-28
	NC	<20	<20	21	27	33	37
7 x 7	CFM	68	102	136	170	204	238
	Throw	2-6	3-9	5-15	7-21	10-27	11-33
	NC	<20	<20	23	28	34	38
8 x 8	CFM	89	133	178	222	267	311
	Throw	2-6	4-12	6-18	8-24	10-30	12-36
	NC	<20	<20	25	30	35	40
9 x 9	CFM	112	169	225	281	337	393
	Throw	2-6	4-13	6-18	9-27	12-35	14-42
	NC	<20	<20	25	31	36	41
10 x 10	CFM	139	208	278	347	416	486
	Throw	2-6	4-14	6-18	10-30	14-40	16-46
	NC	<20	<20	26	32	37	42
11 x 11	CFM	168	252	336	420	504	588
	Throw	2-7	4-14	7-20	11-27	15-43	17-49
	NC	<20	<20	27	33	38	43
12 x 12	CFM	200	300	400	500	600	700
	Throw	2-8	4-14	8-22	12-24	16-46	18-52
	NC	<20	20	28	35	40	45

PERFORMANCE NOTES FOR SERIES XG-7950

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM	Cubic Feet per Minute (air)
fpm	Velocity of air stream in Feet per Minute
Pt	Total pressure (inches of water column)
Throw	Non-isothermal horizontal throw (supply air temperature 15°F colder than average room temperature); values are for 150, 100 and 50fpm velocities
NC	Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands

CEILING
DIFFUSERS

PERFORATED
CEILING DIFFUSERS

XG-7950

ROUND CEILING DIFFUSERS

MODEL XG-900



MODEL XG-3000



MODEL XG-3100



MODEL XG-3200



MODEL XG-5750



Model XG-900 is an economical high performance diffuser of aluminum construction and has a 360° air pattern.

PAGE 147

Model XG-3000 is a high induction, high capacity 3 cone adjustable diffuser. It is fully adjustable from horizontal to vertical discharge and is aluminum construction.

PAGE 149

Model XG-3100 is a high induction, high capacity 2 cone diffuser. It is available in both aluminum and steel construction. The 3100A can be adjusted for vertical or horizontal discharge.

PAGE 152

Model XG-3200 is an excellent choice for high capacity applications such as factories, gymnasiums, theaters, and convention halls. It can effectively be applied for either spot heating or cooling

PAGE 157

Model XG-R5750 is an architecturally pleasing round diffuser that blends well into the ceiling surface. It is available in all aluminum, aluminum face with steel backpan and steel construction.

PAGE 162

MODEL XG-900

Air Outlets shall be model XG-900 manufactured by GREENHECK. Diffuser shall have a series of uniformly spaced concentric round cones. Units shall be aluminum construction. The units shall be the size and quantity as outline in the plans and specifications. Unit's cones shall be drop down and provide an efficient horizontal radial discharge pattern. Diffuser shall include countersunk screw holes for installation into the ceiling system. Center cone of diffuser shall include an access hole to allow face adjustment of an optional damper operator.



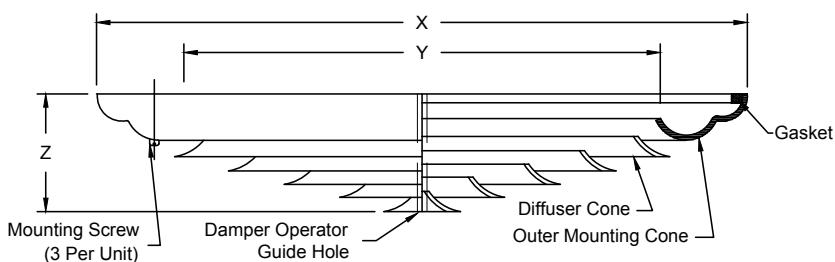
Optional Accessories XG-900 Series Damper

Outlets shall be installed with a neck-mounted damper, model XG-900D, manufactured by GREENHECK. Damper shall be of aluminum construction and designed to give jam-free operation. Sizes 6" – 12" round dampers shall be 2 blade, butterfly type. Size 14" damper shall be an 8 blade opposed blade damper. Units shall include a damper operator knob constructed of high impact nylon. Damper knob shall be removable to prevent tampering after the outlet is balanced.

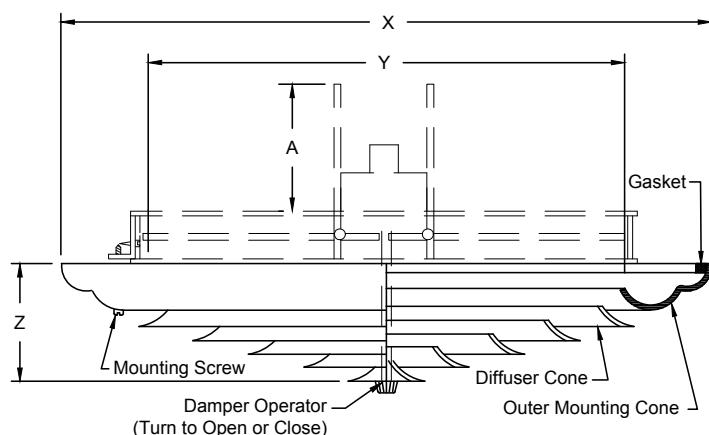
Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

Model: XG-900 (Fixed Pattern)



Model: XG-900 D (Fixed Pattern with Round Damper)



Diffuser Size	X	Y	Z	Number of Cones
6	10 1/8	5 13/16	1 7/8	4
8	12 1/8	7 13/16	2 13/16	5
10	14 1/8	9 13/16	2 1/2	6
12	16 1/8	11 13/16	2 13/16	7
14	18 1/8	13 13/16	3 1/8	8

Damper Size	A
6	3
8	4
10	5
12	6
14	6 1/4

XG-900 MODEL NUMBER SPECIFICATION

FIXED ROUND DIFFUSER — MULTI CORE

Model		Available Neck	Available Finishes	
XG-900-1	Surface Mount	6	Standard	
		8	01	White
		10	Optional	
		12	02	Satin Silver
		14	03	Black
		28	Custom Color	
Available Accessories				
		900D	Aluminum Butterfly Damper	
		EK	Extra Knob	

SERIES XG-900 PERFORMANCE DATA

MODEL XG-900

Neck Size	fpm	200	300	400	500	600	700	800	900	1000
	Pt	0	0.01	0.02	0.03	0.035	0.05	0.065	0.08	0.1
6	CFM	37	55	75	90	110	130	145	165	185
	Throw	3-5	3-5	3-6	3-6	4-6	4-6	4-6	5-7	5-7
	NC	-	-	-	-	20	23	25	25	30
8	CFM	65	100	135	165	200	230	265	300	330
	Throw	4-6	4-6	4-6	5-7	5-8	5-8	5-8	5-9	6-10
	NC	-	-	-	20	25	25	28	30	35
10	CFM	105	160	210	265	315	370	420	475	525
	Throw	4-7	5-8	5-9	5-10	6-11	6-12	7-13	7-14	7-14
	NC	-	-	-	20	25	30	30	35	35
12	CFM	150	230	305	380	455	535	610	685	760
	Throw	5-8	5-9	6-10	6-11	6-12	7-13	7-14	6-16	10-18
	NC	-	-	20	25	25	30	30	35	35
14	CFM	200	310	415	520	625	730	830	935	1040
	Throw	6-9	7-11	8-13	9-14	11-15	12-17	13-19	15-21	18-23
	NC	-	-	20	25	30	30	35	35	40

PERFORMANCE NOTES FOR SERIES XG-900

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

fpm Velocity of air stream in Feet per Minute

Pt Total pressure (inches of water column)

Throw Throw distance in feet at terminal velocities of 150-100fpm with a supply air temperature 20°F cooler than room temperature

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands

MODEL XG-3000

Air Outlets shall be model XG-3000 manufactured by GREENHECK Diffuser shall be constructed of 3 round inner cones and a round outer cone.

Outlet shall be adjustable to allow the discharge pattern to be set from full horizontal to vertical. Units shall be aluminum construction. The units shall be the size and quantity as outline in the plans and specifications.



Pattern adjustment shall be accomplished by rotating the innermost cone.

The inner core assembly shall be removable for installation and for access into the ductwork. The center cone shall include an access hole to allow adjustment of an optional damper.

Model XG-3000-1 - Flush Cone

Outlet shall have an outer cone that allows flush mounting to the ceiling opening.

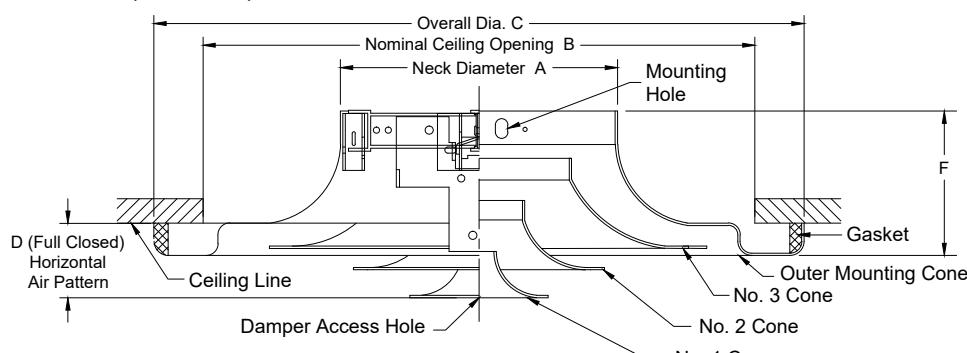
Model XG-3000-2 - Drop Cone

Outlet shall have a dropped outer cone to move the discharge jet away from the ceiling surface. Dropped cone shall minimize ceiling smudging.

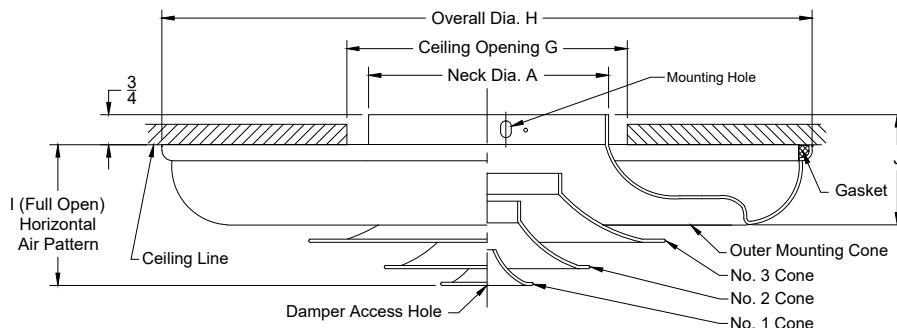
Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

Model: XG-3000-1 (Flush Cone)



Model: XG-3000-2 (Drop Cone)



Size Designation	Neck Size	A	B	C	D	E	F	G	H	I	J
XG-3006	6	5 7/8	12	13 7/8	2 1/4	1 3/4	3	7	16 1/4	3 7/8	2 5/8
XG-3008	8	7 7/8	16	18 5/8	2 5/8	2	3 5/8	9	21	4 3/4	3 5/8
XG-3010	10	9 7/8	20	22 1/8	3	2 5/8	3 3/4	11	26 3/8	5 9/16	4
XG-3012	12	1 7/8	24	27	3 1/2	4 3/8	5	13	31 1/2	6 3/4	4 5/8
XG-3014	14	13 7/8	28	31 1/4	4 1/4	4 7/16	5 5/8	15	36 7/8	8	5 1/4
XG-3016	16	15 7/8	32	36 1/2	4 3/4	4 1/2	6 1/8	17	42	8 7/8	6
XG-3018	18	17 7/8	36	41 3/8	5	4 5/8	6 3/4	19	47 5/8	9 7/8	6 5/8
XG-3020	20	19 7/8	40	45 1/4	5 3/8	5 1/2	7 1/2	21	52 3/8	10 3/4	7 1/4
XG-3024	24	23 7/8	40	45 1/4	5 3/8	5 1/2	7 1/2	25	52 3/8	10 3/4	7 1/4

XG-3000 MODEL NUMBER SPECIFICATION
ADJUSTABLE ROUND DIFFUSER 3 CONE
MODEL XG-3000 — ALUMINUM

Model		Available Neck		Available Finishes	
XG-3000-1	Surface Mount	6 8 10 12 14 16 18 20 24	Standard		
XG-3000-2	Drop Face		01	White	
			Optional		
			02	Satin Silver	
			03	Black	
			24	Mill	
			28	Custom Color	
			Available Accessories		
			D3	Aluminum Radial Damper	
			SD3	Steel Radial Damper	
			G3	Round Equalizing Grid	
			GD3	Combo Grid / Damper	
			BDS	Butterfly Damper	
			RSD	Radial Shutter Damper	
Available Options					
SC		Safety Chain			

SERIES XG-3000 PERFORMANCE DATA MODEL XG-3000

Neck Size	fpm Neck Vel	400	500	600	700	800	900	1000	1200	1400	1600
	Pv	0.01	0.016	0.023	0.031	0.04	0.051	0.063	0.09	0.122	0.16
	Ps Horiz.	0.011	0.018	0.026	0.035	0.046	0.059	0.072	0.105	0.145	0.19
	Ps Vert.	0.019	0.03	0.043	0.058	0.075	0.096	0.115	0.17	0.225	0.3
6	CFM	80	100	110	140	160	180	200	240	280	320
	Throw	1-3	2-4	2-5	3-6	3-7	3-8	4-8	4-9	5-10	6-12
	NC	-	-	-	20	24	27	36	36	39	44
8	CFM	140	175	210	245	280	315	350	420	490	560
	Throw	2-4	2-5	3-6	3-7	4-8	4-10	5-11	5-13	6-14	7-16
	NC	-	-	-	20	24	27	31	36	39	44
10	CFM	220	270	330	380	435	490	545	655	765	870
	Throw	2-5	3-6	3-7	4-8	5-10	6-11	6-12	7-14	8-18	9-21
	NC	-	-	-	21	25	28	32	37	40	45
12	CFM	315	390	470	550	630	710	785	940	1100	1260
	Throw	3-7	3-8	4-10	5-11	6-13	7-15	8-17	9-19	10-21	12-25
	NC	-	-	20	22	26	29	33	38	41	46
14	CFM	425	535	640	750	855	965	1070	1285	1500	1710
	Throw	3-8	4-9	5-11	6-13	7-16	8-18	9-20	11-13	13-26	15-30
	NC	-	-	20	23	27	31	34	40	43	48
16	CFM	560	700	840	980	1120	1260	1400	1680	1960	2240
	Throw	4-9	5-10	5-13	6-15	7-17	9-21	10-23	12-27	14-30	16-35
	NC	-	-	21	24	28	33	36	41	44	49
18	CFM	710	885	1060	1240	1420	1595	1770	2120	2480	2830
	Throw	4-10	5-12	6-15	7-17	9-21	11-23	13-26	15-31	16-34	18-38
	NC	-	-	21	25	29	34	37	42	45	51
20	CFM	875	1090	1310	1525	1745	1965	2180	2620	3060	3490
	Throw	4-11	6-14	7-16	8-19	9-23	17-23	13-28	15-33	18-38	20-42
	NC	-	20	22	26	30	36	39	44	47	53
24	CFM	1255	1570	1885	2200	2510	2825	3140	3770	4395	5025
	Throw	12-24	13-26	14-28	15-30	16-33	17-35	18-37	20-40	23-45	25-50
	NC	22	26	28	31	35	38	41	47	51	55

PERFORMANCE NOTES FOR SERIES XG-3000

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

- 1 Tabulated radial throw in feet is based on a 9' ceiling height, ambient supply air, MAX Throw @ Vt = 75fpm, MIN Throw @ Vt = 150fpm, and the diffuser inner cones in down position for 360° horizontal air distribution pattern.
- 2 For vertical down protection air pattern with cooling supply air temperature 20° below room temperature and diffuser inner cones in up position: multiply the tabulated radial throw values by a factor of 0.80 to obtain vertical down projection distances at MIN and MAX (Vt) terminal velocities.
- 3 For vertical down projection air pattern with heating supply air temperatures 20° above room temperature and diffuser inner cones in up position: multiply the tabulated radial throw values by a factor of 0.60 to obtain vertical down projection distances at MIN and MAX (Vt) terminal velocities.
- 4 Velocity Pressure (Pv) and Static Pressure (Ps) are in inches of water.
- 5 Series 3000 Diffusers are tested in accordance with ASHRAE 70-2006. Sound data are calculated in accordance with International Standard ISO 3741 comparison method. The NC values are based on a room absorption of 10dB for sound power level (Lw) re: 10⁻¹² watts - symbol indicates NC less than 20.
- 6 All data is applicable for exposed for exposed duct mounting or ceiling installation.

MODEL XG-3100

Fixed Round Diffuser - 2 Cone/Series XG-3100

Air outlets shall be model XG-3100 (aluminum) or XG-3100-S (steel) manufactured by GREENHECK Diffuser shall be constructed of 2 round inner cone assembly and a round outer cone. Outlet shall have a fixed horizontal pattern. Units shall be aluminum construction (model XG-3100) or steel construction (model XG-3100S). The units shall be the size and quantity as outline in the plans and specifications.



The inner core assembly shall be removable for installation and for access into the ductwork. The center cone shall include an access hole to allow adjustment of an optional damper.

Flush Cone Model XG-3100-1 - Aluminum Model XG-3100S-1 - Steel

Outlet shall have an outer cone that allows flush mounting to the ceiling opening.

Drop Cone Model XG-3100-2 - Aluminum Model XG-3100-S-2 - Steel

Outlet shall have a dropped outer cone to move the discharge jet away from the ceiling surface. Dropped cone shall minimize ceiling smudging.

Adjustable Round Diffuser - 2 Cone/Series XG-3100A

Air outlets shall be model XG-3100A (aluminum) or XG-3100A-S (steel) manufactured by GREENHECK Diffuser shall be constructed of 2 round inner cone assembly and a round outer cone. Outlet shall be adjustable to allow the discharge pattern to be set from full horizontal to vertical. Units shall be aluminum construction (model XG-3100) or steel construction (model XG-3100S). The units shall be the size and quantity as outline in the plans and specifications.

Pattern adjustment shall be accomplished by rotating the innermost cone. The inner core assembly shall be removable for installation and for access into the ductwork. The center cone shall include an access hole to allow adjustment of an optional damper.

Flush Cone Model XG-3100A-1 - Aluminum Model XG-3100SA-1 - Steel

Outlet shall have an outer cone that allows flush mounting to the ceiling opening.

Drop Cone Model XG-3100A-2 - Aluminum Model XG-3100A-S-2 - Steel

Outlet shall have a dropped outer cone to move the discharge jet away from the ceiling surface. Dropped cone shall minimize ceiling smudging.

Performance Specification

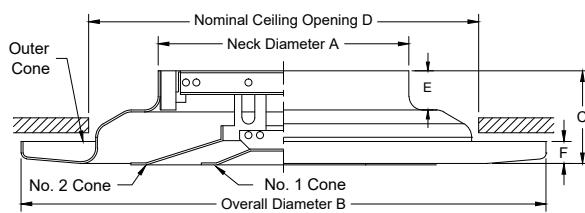
The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006

MODEL XG-3100

Fixed / Adjustable Round Diffusers Aluminum / Steel- 2 Cone

- Models:
- XG-3100-1 Aluminum -Fixed Flush Cone
 - XG-3100A-1 Aluminum Adjustable Flush Cone
 - XG-3100-2 Aluminum Fixed Drop Cone
 - XG-3100A-2 Aluminum Adjustable Drop Cone
 - XG-3100S-1 Steel - Fixed Flush Cone
 - XG-3100S-A-1 Steel - Adjustable Flush Cone
 - XG-3100S-2 Steel - Fixed - Drop Cone
 - XG-3100S-A-2 Steel - Adjustable Drop Cone

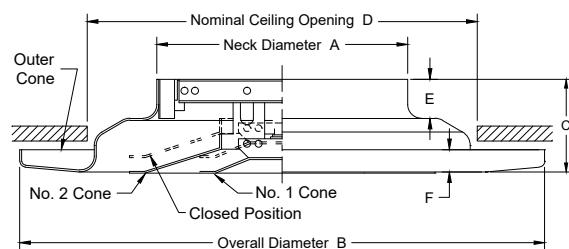
Models: XG-3100-1 & XG-3100S-1 (Fixed - Flush Cone)



Frame -1 Sizes

Size	Dimensions (Inches)					
	A	B	C	D	E	F
6	5 3/4	16-1/8	3	12	1	1/2
8	7 3/4	16-1/8	3	12	1	3/4
10	9 3/4	21 3/4	3 1/4	17	1	3/4
12	11 3/4	21 7/8	3 1/4	17	1	3/4
14	13 3/4	29 1/4	4	23	1	3/4
16	15 3/4	29 1/4	3 3/4	23	1	3/4
18	17 3/4	34 3/4	4 3/4	28	1	3/4
20	19 3/4	34 3/4	4 3/4	28	1	3/4
24	23 3/4	40 1/4	5 3/4	34	1	1

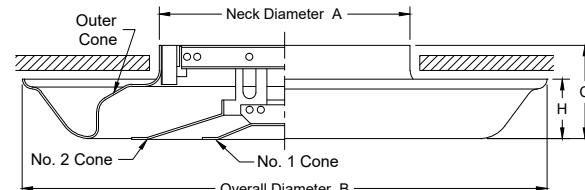
Models: XG-3100A-1 & XG-3100S-A-1 (Adjustable - Flush Cone)



XG-3100-1 Only

Size	Dimensions (Inches)					
	A	B	C	D	E	F
30	29 3/4	49-3/8	7 3/8	41	2	1
36	35 3/4	58	8 1/4	50	2	1

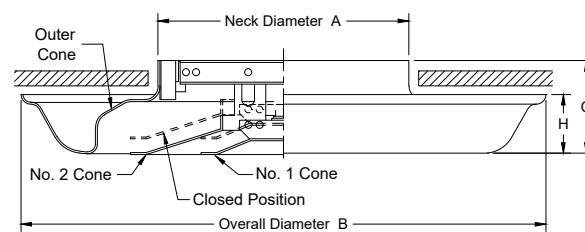
Models: XG-3100-2 & XG-3100S-2 (Fixed - Drop Cone)



Frame -2 Sizes

Size	Dimensions (Inches)			
	A	B	C	H
6	5 3/4	16-1/8	3	2 1/4
8	7 3/4	16-1/8	3	2 1/4
10	9 3/4	21 3/8	3 1/4	2 3/4
12	11 3/4	21 3/8	3 1/4	2 3/4
14	13 3/4	28 3/4	4	3 1/2
16	15 3/4	28 3/4	3 3/4	3 1/2
18	17 3/4	34 1/4	4 1/2	3 1/2
20	19 3/4	34 1/4	4 1/2	3 1/2
24	23 3/4	40 1/4	4 1/8	4 1/4

Models: XG-3100A-2 & XG-3100S-A-2 (Adjustable - Drop Cone)



XG-3100-2 Only

Size	Dimensions (Inches)			
	A	B	C	H
30	29 3/4	49 1/2	8 1/8	4 3/8
36	35 3/4	58-1/8	8 3/8	6 1/8

XG-3100 MODEL NUMBER SPECIFICATION
 FIXED/ADJUSTABLE ROUND DIFFUSER 2 CONE
 MODEL XG-3100 — ALUMINUM

Model		Available Neck	Available Finishes	
XG-3100-1	Fixed Surface Mount	6 8 10 12 14 16 18 20 24	Standard	
XG-3100A-1	Adjustable Surface Mount		01	White
XG-3100-2	Fixed Beveled Drop Face		Optional	
XG-3100A-2	Adjustable Beveled Drop Face		02	Satin Silver
			03	Black
			28	Custom Color
			Available Accessories	
			D3	Aluminum Radial Damper
			SD3	Steel Radial Damper
			G3	Round Equalizing Grid
			GD3	Combo Grid / Damper
			BDS	Butterfly Damper
			RSD	Radial Shutter Damper

Available Options	
SC	Safety Chain

XG-3100S MODEL NUMBER SPECIFICATION
 FIXED/ADJUSTABLE ROUND DIFFUSER 2 CONE
 MODEL XG-3100S — STEEL

Model		Available Neck	Available Finishes	
XG-3100S-1	Fixed Surface Mount	6 8 10 12 14 16 18 20 24	Standard	
XG-3100SA-1	Adjustable Surface Mount		01	White
XG-3100S-2	Fixed Beveled Drop Face		Optional	
XG-3100SA-2	Adjustable Beveled Drop Face		02	Satin Silver
			03	Black
			28	Custom Color
			Available Accessories	
			XG-D3	Aluminum Radial Damper
			XG-SD3	Steel Radial Damper
			XG-G3	Round Equalizing Grid
			XG-GD3	Combo Grid / Damper
			XG-BDS	Butterfly Damper
			XG-RSD	Radial Shutter Damper

Available Options	
SC	Safety Chain

SERIES XG-3100 PERFORMANCE DATA
MODELS XG-3100 — XG-3100S

Neck Size	fpm Neck Vel	400	500	600	700	800	900	1000	1200	1400	1600
	Pv	0.01	0.016	0.023	0.031	0.04	0.051	0.063	0.09	0.122	0.16
	Ps Horiz.	0.025	0.039	0.056	0.076	0.1	0.126	0.156	0.225	0.304	0.398
	Ps Vert.	0.049	0.076	0.109	0.149	0.194	0.247	0.305	0.44	0.594	0.777
6	CFM	75	.94	113	132	151	169	188	226	264	301
	Throw	2-3-6	3-4-8	3-5-9	4-5-11	4-6-12	5-7-14	5-8-16	6-9-19	7-11-22	9-13-26
	NC	-	-	-	-	-	23	26	32	36	40
8	CFM	135	169	203	237	271	304	338	406	474	541
	Throw	3-5-9	3-5-10	4-6-12	4-7-13	5-8-15	6-9-17	7-10-20	8-12-25	10-14-29	10-15-30
	NC	-	-	-	20	24	28	31	37	42	46
10	CFM	213	266	319	372	425	479	532	638	745	851
	Throw	4-16-12	4-7-13	5-7-15	5-8-17	6-9-18	7-10-20	7-111-23	9-14-27	11-16-32	12-18-36
	NC	-	20	23	26	29	31	34	40	45	49
12	CFM	308	385	461	538	615	692	769	923	1077	1231
	Throw	5-7-15	5-8-16	6-9-18	7-10-20	7-11-22	8-12-24	9-13-26	11-16-32	12-19-37	14-21-43
	NC	-	22	25	28	31	34	37	42	47	51
14	CFM	420	525	630	735	840	945	1050	1260	1470	1680
	Throw	6-9-18	6-10-19	7-11-21	8-12-23	8-13-25	9-14-28	10-15-30	12-18-36	14-21-43	17-25-57
	NC	22	25	28	31	34	37	39	44	48	52
16	CFM	550	687	825	962	1100	1237	1375	1649	1924	2194
	Throw	7-10-21	7-11-22	8-12-25	9-14-27	10-15-30	11-17-33	12-18-37	14-22-43	17-25-50	19-29-57
	NC	24	27	30	32	35	38	40	45	50	54
18	CFM	697	871	1046	1220	1394	1568	1743	2091	2440	2788
	Throw	8-12-24	9-13-27	10-15-32	11-16-32	12-17-35	13-19-38	14-20-43	16-24-48	18-28-55	21-32-64
	NC	25	28	31	33	36	39	41	45	50	54
20	CFM	862	1077	1293	1508	1724	1939	2154	2585	3016	3447
	Throw	9-13-27	10-15-30	11-16-32	12-18-36	13-20-39	14-22-43	16-24-47	19-28-56	22-33-65	24-36-72
	NC	27	30	32	35	37	39	41	45	50	54
24	CFM	1224	1554	1885	2176	2487	2798	3109	3731	4353	4974
	Throw	12-18-36	13-20-40	15-22-45	16-25-49	18-27-54	20-30-59	21-32-64	25-37-75	28-42-84	31-47-93
	NC	28	31	33	36	38	40	42	46	50	54
30	CFM	1947	2434	2921	3408	3894	4381	4868	5842	6815	7789
	Throw	17-26-51	19-29-54	27-32-64	24-35-71	26-39-78	28-42-85	31-46-92	35-53-105	39-58-117	42-63-126
	NC	30	32	35	37	39	41	43	47	51	54
36	CFM	2808	3510	4212	4914	5616	6318	7020	8423	9827	11231
	Throw	24-36-72	27-40-81	30-45-90	33-49-99	36-54-108	39-59-118	42-63-127	48-72-144	53-79-158	58-84-168
	NC	31	33	36	38	40	42	44	48	57	54

PERFORMANCE NOTES FOR SERIES XG-3100

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

- 1 Tabulated radial throw in feet is based on a 9' ceiling height, ambient supply air, MAX Throw @ $V_t = 75 \text{ fpm}$, MIN Throw @ $V_t = 150 \text{ fpm}$, and the diffuser inner cones in down position for 360° horizontal air distribution pattern.
- 2 For vertical down protection air pattern with cooling supply air temperature 20° below room temperature and diffuser inner cones in up position: multiply the tabulated radial throw values by a factor of 0.80 to obtain vertical down projection distances at MIN and MAX (V_t) terminal velocities.
- 3 For vertical down projection air pattern with heating supply air temperatures 20° above room temperature and diffuser inner cones in up position: multiply the tabulated radial throw values by a factor of 0.60 to obtain vertical down projection distances at MIN and MAX (V_t) terminal velocities.
- 4 Velocity Pressure (P_v) and Static Pressure (P_s) are in inches of water.
- 5 Series 3000 Diffusers are tested in accordance with ASHRAE 70-2006. Sound data are calculated in accordance with International Standard ISO 3741 comparison method. The NC values are based on a room absorption of 10dB for sound power level (I_w) re: 10^{-12} watts - symbol indicates NC less than 20.
- 6 All data is applicable for exposed for exposed duct mounting or ceiling installation.

MODEL XG-3200

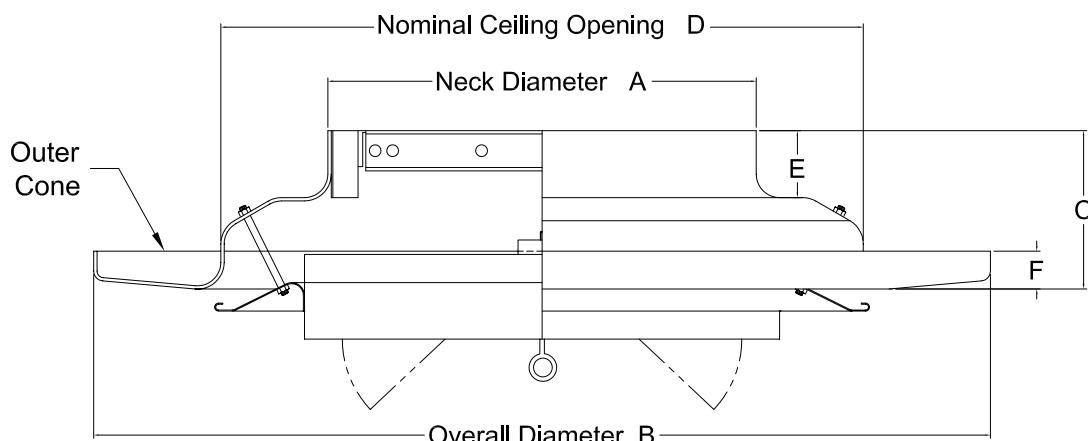
Air outlets shall be model XG-3200 manufactured by GREENHECK. Diffusers shall be constructed of an opposed blade damper inner assembly mounted in an inner ring. Outlets shall allow the adjustment of the discharge pattern from full horizontal to full vertical and be adjustable from the face by turning an operator ring. Units shall be steel construction. The units shall be the size and quantity as outline in the plans and specifications.



Pattern adjustment operator shall open the inner opposed blade damper assembly to discharge the air in a vertical pattern or close the damper to allow a tight horizontal pattern. In the horizontal setting, core shall project discharge pattern to minimize ceiling smudging. The inner core assembly shall be removable for installation and for access into the ductwork.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006.



CEILING
DIFFUSERS

ROUND
CEILING
DIFFUSERS

XG-3200

Dimensions						
Size	A	B	C	D	E	F
6	5 3/4	17 1/4	2 1/8	6 3/4	1 1/8	1 1/8
8	7 3/4	17 1/4	2 1/8	8 3/4	1 1/8	1 1/4
10	9 3/4	20 1/4	2 5/8	10 3/4	1 1/4	1 3/4
12	11 3/4	22 1/4	2 5/8	12 3/4	1 1/4	1 3/4
14	13 3/4	29 1/2	2 5/8	14 3/4	1 1/4	2 3/8
16	15 3/4	29 1/2	2 3/4	16 3/4	1 1/4	2 3/8
18	17 3/4	33 1/2	3 5/8	18 3/4	1 1/4	2 1/2
20	19 3/4	36 3/4	3 5/8	20 3/4	1	2 1/2
24	23 3/4	40 3/4	3 5/8	24 3/4	1	2 1/2

XG-3200 MODEL NUMBER SPECIFICATION
ADJUSTABLE ROUND DIFFUSER
W/FACE ACCESSIBLE OPERATING RING AND CENTER OBD

Model	Available Neck	Available Finishes	
XG-3200-1 Adjustable Surface Mount	6 8 10 12 14 16 18 20 24	Standard	
		01	White
		Optional	
		02	Satin Silver
		03	Black
		28	Custom Color
		Available Accessories	
		XG-G3	Round Equalizing Grid

Available Options	
SC	Safety Chain

SERIES XG-3200 PERFORMANCE DATA
MODEL XG-3200

Neck Velocity		400	500	600	700	800	900	1000	1200	1400	1600
Velocity Pressure		0.01	0.016	0.022	0.031	0.04	0.05	0.062	0.09	0.122	0.16
6	CFM	80	100	120	135	155	175	195	235	275	315
	Ps - H	0.004	0.007	0.010	0.013	0.017	0.022	0.027	0.039	0.052	0.069
	Pt - H	0.014	0.022	0.032	0.044	0.057	0.072	0.089	0.128	0.175	0.228
	Ps - V	0.02	0.032	0.046	0.062	0.081	0.103	0.127	0.182	0.248	0.324
	Pt - V	0.03	0.047	0.068	0.093	0.121	0.153	0.189	0.272	0.371	0.484
	NC H	-	-	15	16	17	19	21	24	26	29
	NC V	-	-	-	-	15	16	18	22	25	29
	Throw H C	1-1-3	1-2-3	1-2-4	1-2-4	2-2-5	2-3-6	2-3-6	2-4-7	3-4-9	3-5-9
	Throw V C	2-4-8	4-5-11	4-6-13	5-7-14	5-8-16	6-9-19	7-10-21	8-12-25	10-15-29	11-17-33
	Throw V H	0-1-3	1-2-4	1-2-4	1-2-5	2-3-6	2-3-6	2-4-7	3-4-8	3-5-10	4-6-11
8	CFM	140	175	210	245	280	315	350	420	490	560
	Ps - H	0.003	0.004	0.006	0.009	0.011	0.014	0.018	0.026	0.035	0.046
	Pt - H	0.013	0.020	0.029	0.039	0.051	0.065	0.080	0.115	0.157	0.205
	Ps - V	0.012	0.018	0.026	0.036	0.046	0.059	0.073	0.104	0.142	0.186
	Pt - V	0.022	0.034	0.049	0.066	0.086	0.109	0.135	0.194	0.264	0.345
	NC H	-	16	18	20	21	23	25	28	31	34
	NC V	-	-	+	-	-	17	19	24	28	32
	Throw H C	1-2-3	1-2-4	2-2-5	2-3-6	2-3-7	2-4-7	3-4-8	3-5-10	4-6-12	4-7-12
	Throw V C	3-6-11	5-7-14	6-8-17	6-10-19	7-11-22	8-13-25	9-14-28	11-17-33	13-19-39	15-22-45
	Throw V H	1-1-4	1-2-5	1-3-6	2-3-7	3-4-8	3-4-9	3-5-9	4-6-11	4-7-13	5-8-15
10	CFM	220	275	325	380	435	490	545	655	765	875
	Ps - H	0.003	0.004	0.006	0.009	0.011	0.014	0.018	0.026	0.035	0.046
	Pt - H	0.013	0.020	0.029	0.039	0.051	0.065	0.080	0.115	0.157	0.205
	Ps - V	0.012	0.018	0.026	0.036	0.046	0.059	0.073	0.104	0.142	0.186
	Pt - V	0.022	0.034	0.049	0.066	0.086	0.109	0.135	0.194	0.264	0.345
	NC H	-	16	17	19	20	22	23	26	29	32
	NC V	-	-	-	-	-	15	17	23	27	31
	Throw H C	1-2-4	2-3-5	2-3-6	2-4-7	3-4-8	3-5-9	3-5-10	4-6-12	5-7-14	6-8-15
	Throw V C	4-7-14	6-9-18	7-10-21	8-12-24	9-14-28	10-16-31	12-17-35	14-21-42	16-24-49	10-28-56
	Throw V H	1-2-5	1-3-6	2-4-7	2-4-8	3-5-9	4-5-11	4-6-12	5-7-14	6-8-17	6-9-19
12	CFM	315	395	470	550	630	705	785	940	1100	1255
	Ps - H	0.003	0.004	0.006	0.009	0.011	0.014	0.018	0.026	0.035	0.046
	Pt - H	0.013	0.020	0.029	0.039	0.051	0.065	0.080	0.115	0.157	0.205
	Ps - V	0.011	0.017	0.025	0.034	0.044	0.056	0.069	0.099	0.134	0.175
	Pt - V	0.021	0.033	0.047	0.064	0.084	0.106	0.131	0.188	0.257	0.335
	NC H	-	-	15	19	23	26	29	35	40	43
	NC V	-	-	-	17	20	23	27	32	37	41
	Throw H C	2-2-5	2-3-6	2-4-7	3-4-9	3-5-10	4-6-11	4-6-12	5-7-15	6-9-17	7-10-19
	Throw V C	4-8-17	7-10-21	8-12-25	10-15-29	11-17-33	12-19-37	14-21-42	17-25-50	19-29-58	22-33-67
	Throw V H	1-2-6	1-3-7	2-4-8	3-5-10	4-6-11	4-6-13	5-7-44	6-8-17	7-10-20	8-11-23
14	CFM	430	535	640	750	855	960	1070	1285	1495	1710
	Ps - H	0.003	0.004	0.006	0.009	0.011	0.014	0.018	0.026	0.035	0.046
	Pt - H	0.013	0.020	0.029	0.039	0.051	0.065	0.080	0.115	0.157	0.205
	Ps - V	0.011	0.017	0.024	0.033	0.043	0.055	0.068	0.097	0.133	0.173
	Pt - V	0.021	0.033	0.047	0.064	0.083	0.105	0.13	0.187	0.255	0.333
	NC H	-	16	21	25	29	32	36	41	44	46
	NC V	-	15	19	23	27	30	33	38	42	45
	Throw H C	2-3-6	2-4-7	3-4-9	3-5-10	4-6-12	4-6-13	5-7-14	6-9-17	7-10-20	8-12-22
	Throw V C	1-3-13	2-5-21	3-7-28	5-10-33	6-13-38	7-17-43	9-21-48	13-29-57	18-33-67	24-38-71
	Throw V H	1-2-5	1-3-7	2-4-8	3-5-9	4-5-11	4-6-12	4-7-13	5-8-16	6-9-19	7-11-22

SERIES XG-3200 PERFORMANCE DATA
MODEL XG-3200

Neck Velocity		400	500	600	700	800	900	1000	1200	1400	1600
Velocity Pressure		0.01	0.016	0.022	0.031	0.04	0.05	0.062	0.09	0.122	0.16
16	CFM	560	700	840	975	1115	1255	1395	1675	1955	2235
	Ps - H	0.003	0.004	0.006	0.009	0.011	0.014	0.018	0.026	0.035	0.046
	Pt - H	0.013	0.020	0.029	0.039	0.051	0.065	0.080	0.115	0.157	0.205
	Ps - V	0.010	0.016	0.024	0.032	0.042	0.053	0.066	0.094	0.129	0.168
	Pt - V	0.02	0.032	0.046	0.063	0.082	0.104	0.128	0.184	0.251	0.328
	NC H	15	20	25	29	33	37	40	45	48	50
	NC V	16	20	24	28	31	35	38	43	47	49
	Throw H C	2-3-7	3-4-8	3-5-10	4-6-12	4-7-13	5-7-15	6-8-17	7-10-20	8-12-23	9-13-25
	Throw V C	2-4-14	3-6-23	4-8-30	5-11-35	6-14-40	8-18-45	10-22-50	14-30-60	20-35-69	26-40-79
	Throw V H	1-2-6	1-3-8	2-4-9	2-5-11	3-6-12	4-7-14	5-8-16	6-9-19	7-11-22	8-12-25
18	CFM	705	885	1060	1235	1415	1590	1765	2120	2475	2825
	Ps - H	0.003	0.004	0.006	0.009	0.011	0.014	0.018	0.026	0.035	0.046
	Pt - H	0.013	0.02	0.029	0.039	0.051	0.065	0.08	0.115	0.157	0.205
	Ps - V	0.01	0.016	0.023	0.031	0.041	0.051	0.064	0.092	0.125	0.163
	Pt - V	0.02	0.031	0.045	0.062	0.081	0.102	0.126	0.181	0.247	0.322
	NC H	-	19	23	27	31	35	38	44	50	54
	NC V	-	16	21	25	30	34	37	43	49	52
	Throw H C	2-4-7	3-5-9	4-6-11	4-7-13	5-7-15	6-8-17	6-9-19	7-11-22	9-13-26	10-15-28
	Throw V C	2-4-14	3-6-23	4-8-32	5-11-37	6-14-43	8-18-48	10-23-53	14-32-64	20-37-74	26-43-85
	Throw V H	1-1-5	1-2-8	1-3-11	2-4-12	2-5-14	3-6-16	4-8-18	5-11-21	7-12-25	9-14-28
20	CFM	875	1090	1310	1525	1745	1965	2180	2620	3055	3490
	Ps - H	0.003	0.004	0.006	0.009	0.011	0.014	0.018	0.026	0.035	0.046
	Pt - H	0.013	0.02	0.029	0.039	0.051	0.065	0.08	0.115	0.157	0.205
	Ps - V	0.01	0.015	0.022	0.029	0.038	0.049	0.06	0.087	0.118	0.154
	Pt - V	0.02	0.031	0.044	0.06	0.078	0.099	0.123	0.176	0.24	0.314
	NC H	-	19	25	29	34	38	41	48	53	57
	NC V	-	-	20	25	30	35	39	45	50	52
	Throw H C	3-4-8	3-5-10	4-6-12	5-7-14	6-8-17	6-9-19	7-10-21	8-12-25	10-14-29	11-17-31
	Throw V C	2-4-14	2-6-22	4-8-32	5-11-41	6-14-47	8-18-553	10-22-59	14-32-71	19-41-83	25-47-95
	Throw V H	0-1-4	1-1-6	1-2-9	1-3-12	2-4-15	2-5-18	3-6-19	4-9-23	5-12-27	7-15-31
24	CFM	1255	1570	1885	2200	2515	2825	3140	3770	4400	5025
	Ps - H	0.002	0.004	0.005	0.007	0.009	0.012	0.015	0.021	0.029	0.038
	Pt - H	0.012	0.019	0.028	0.038	0.049	0.062	0.077	0.111	0.151	0.197
	Ps - V	0.009	0.014	0.021	0.028	0.037	0.047	0.058	0.083	0.113	0.148
	Pt - V	0.019	0.03	0.043	0.059	0.077	0.097	0.12	0.173	0.236	0.308
	NC H	-	19	25	31	36	40	44	50	54	56
	NC V	-	17	23	28	32	37	40	47	52	56
	Throw H C	3-5-10	4-6-12	5-7-15	6-9-17	7-10-20	7-11-22	8-12-25	10-15-30	12-17-35	13-20-37
	Throw V C	2-4-17	3-7-27	4-10-38	6-13-50	8-17-57	10-21-64	12-27-71	17-38-8	23-50-99	30-57-109
	Throw V H	1-1-5	1-2-7	1-3-10	2-3-14	2-5-18	3-6-21	3-7-23	5-10-28	6-14-33	8-18-37

PERFORMANCE NOTES FOR SERIES XG-3200

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM	Cubic Feet per Minute (air)
Horizontal throw	throw distance in feet at terminal velocities of 150fpm, 100fpm and 50fpm.
NC	Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands
fpm	Velocity of air stream in Feet per Minute
Pv	Velocity pressure (inches of water column)
Pt	Total pressure (inches of water column)
Ps	Static pressure = Pt-Pv (inches of water column)
Throw	Isothermal throw (supply air temperature the same as average room temperature); values are for 150, 100 and 50fpm velocities
Ps -H	static pressure horizontal
Ps-V	static pressure vertical
Pt V	total pressure vertical
Throw H C	throw horizontal cooling
Throw V C	throw vertical cooling
Throw V H	vertical heating

MODEL XG-R5750



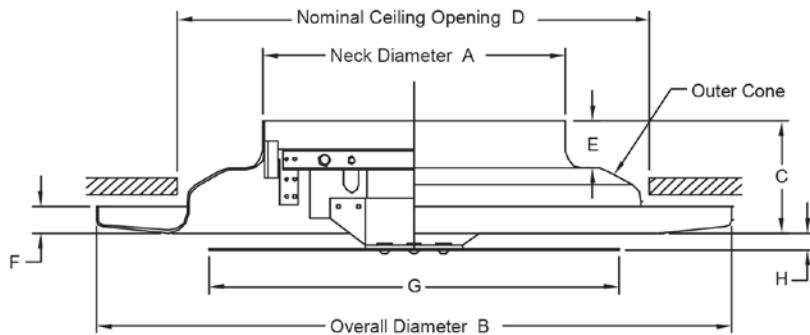
Air outlets shall be model XG-R5750-AL (all aluminum), XG-R5750-AF (aluminum face, steel backpan) or XG-R5750-S (all steel) manufactured by GREENHECK

Diffuser shall be constructed of a round flat face panel and a round outer cone. Outlet shall have a fixed horizontal pattern. The units shall be the size and quantity as outlined in the plans and specifications.

Round face panel shall be removable to allow access to the round outer cone. Outlet shall be designed for surface mounting applications and have an outer cone that allows flush mounting to the ceiling opening.

Performance Specification

The manufacturer shall provide published performance data. Data shall be tested in accordance to ANSI/ASHRAE Standard 70- 2006.



Normal Round Duct Size	Dim. A	Dim. B	Dim. C	Dim. D	Dim. E	Dim. F	Dim. G	Dim. H
6	5 3/4	16 5/8	2 15/16	11	3/4	5/8	9	3/4
8	7 3/4	16 5/8	2 15/16	11	3/4	5/8	9	3/4
10	9 3/4	22 3/16	3 5/16	17	1.0	7/8	14	7/8
12	11 3/4	22 3/16	3 5/16	17	1.0	7/8	14	7/8
14	13 3/4	29 1/4	4 3/16	22	1.0	7/8	19	7/8
16	15 3/4	29 1/4	4 3/16	22	1.0	7/8	19	7/8

XG-R5750 MODEL NUMBER SPECIFICATION
ROUND PANEL FACE DIFFUSER

Model		Available Neck	Available Finishes	
XG-R5750-1	Steel		Standard	
XG-R5750-AF-1	Aluminum Face/ Steel Backpan		01	White
XG-R5750-AL	Aluminum		Optional	
			02	Satin Silver
			03	Black
			28	Custom Color
Available Accessories				
XG-D3	Aluminum Radial Damper			
XG-SD3	Steel Radial Damper			
XG-G3	Round Equalizing Grid			
XG-GD3	Combo Grid / Damper			
XG-BDS	Butterfly Damper			
XG-RSD	Radial Shutter Damper			
Available Options				
SC	Safety Chain			

 CEILING
 DIFFUSERS

 ROUND
 CEILING DIFFUSERS

XG-R5750

SERIES XG-R5750 PERFORMANCE DATA
MODEL XG-R5750

Neck Size	Nk Velocity	400	500	600	700	800	900	1000	12000
	Pv	0.015	0.024	0.034	0.046	0.06	0.076	0.094	0.136
6	CFM	79	98	118	137	157	177	196	236
	Ps	0.023	0.035	0.052	0.070	0.092	0.117	0.143	0.208
	Pt	0.038	0.059	0.086	0.116	0.152	0.193	0.237	0.344
	Throw	1-2-4	2-3-5	2-3-6	2-3-6	2-4-7	3-4-8	3-5-9	4-6-11
	NC	-	-	19	24	29	31	34	38
8	CFM	140	175	209	244	279	314	349	419
	Ps	0.024	0.037	0.054	0.074	0.096	0.122	0.150	0.216
	Pt	0.039	0.061	0.088	0.120	0.156	0.198	0.244	0.352
	Throw	1-2-4	2-3-6	2-3-7	3-4-8	3-4-9	3-5-10	4-6-11	4-7-13
	NC	-	16	21	26	31	33	35	40
10	CFM	218	273	327	382	436	491	545	654
	Ps	0.026	0.040	0.058	0.080	0.104	0.132	0.162	0.233
	Pt	0.041	0.064	0.092	0.126	0.164	0.208	0.256	0.369
	Throw	3-4-7	4-6-9	4-7-11	5-8-13	6-9-14	7-10-16	7-11-18	9-13-21
	NC	-	-	-	24	28	32	35	41
12	CFM	314	393	471	550	628	707	785	942
	Ps	0.035	0.054	0.078	0.106	0.139	0.175	0.216	0.311
	Pt	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.447
	Throw	4-5-11	4-7-12	5-8-13	6-9-14	7-11-16	8-12-19	9-13-21	11-16-22
	NC	-	-	-	26	29	34	36	43
14	CFM	428	535	641	748	855	962	1069	1283
	Ps	0.025	0.038	0.055	0.075	0.098	0.124	0.153	0.220
	Pt	0.040	0.062	0.089	0.121	0.158	0.200	0.247	0.356
	Throw	4-6-12	5-7-12	6-9-13	7-10-16	8-12-17	9-13-19	10-15-21	12-18-21
	NC	-	-	22	23	25	26	29	33
16	CFM	559	698	838	977	1117	1257	1396	1676
	Ps	0.038	0.058	0.084	0.114	0.149	0.187	0.230	0.328
	Pt	0.053	0.082	0.118	0.160	0.209	0.263	0.324	0.464
	Throw	4-7-13	6-8-13	7-10-15	8-12-18	9-13-19	10-15-21	11-17-23	13-20-24
	NC	19	19	24	26	32	33	34	37

PERFORMANCE NOTES FOR SERIES XG-R5750

All data is tested in accordance with ANSI/ASHRAE 70-2006.

DEFINITION OF UNITS

CFM Cubic Feet per Minute (air)

Nk Vel Neck velocity is the airstream velocity in the duct just before it reaches the supply outlet; measured in Feet per Minute

Pv Velocity pressure (inches of water column)

Pt Total pressure (inches of water column)

Ps Static pressure = Pt-Pv (inches of water column)

Throw Isothermal throw (supply air temperature the same as average room temperature); values are for 150, 100 and 50fpm velocities

NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10^{-12} watts minus a 10dB room attenuation in all octave bands

CEILING
DIFFUSERS

ROUND
CEILING DIFFUSERS

XG-R5750

CEILING DIFFUSER ACCESSORIES



XG-900D
Butterfly Damper for Model 900 Diffuser

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XG-BDS
Steel Butterfly Damper

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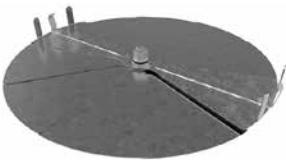
XG-D3
Aluminum Radial Opposed Blade Damper

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XG-SD3
Steel Radial Opposed Blade Damper

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XG-RSD
Radial Shutter Damper

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XG-D5 / XG-D7
Opposed Blade Damper

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XG-OBDA
Aluminum Opposed Blade Damper

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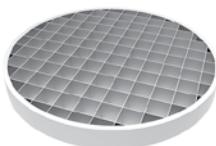
XG-OBD
Steel Opposed Blade Damper

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XG-L9
Square / Rectangular Equalizing Grid

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XG-G3
Round Equalizing Grid

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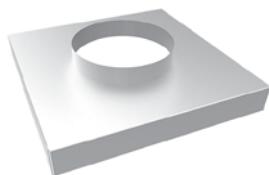
XG-GD3
Round Equalizing Grid

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XG-TBPF
T-bar Plaster Frames permit installation

PAGE 171



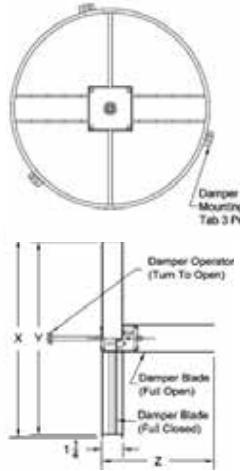
XG-TR / XG-TR DEEP
Deep Square to Round Transitions

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MODEL XG-900D

Model XG-900D opposed blade damper for model XG-900

- Butterfly style blades for sizes 6" to 12"
- 8 blade radial style for size 14"
- Blades adjusted through diffuser face
- Damper supplied with mounting hardware

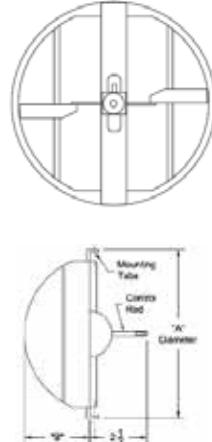


XG-900D & XG-900D* Models			
Damper Sizes	X	Y	Z
6	5 15/16	5 5/8	3
8	7 15/16	7 5/8	4
10	9 15/16	9 5/8	5
12	11 15/16	11 5/8	6
14	13 15/16	13 5/8	7

MODEL XG-BDS

Model XG-BDS butterfly damper

- Two butterfly style blades
- Blades are adjusted through the diffuser face

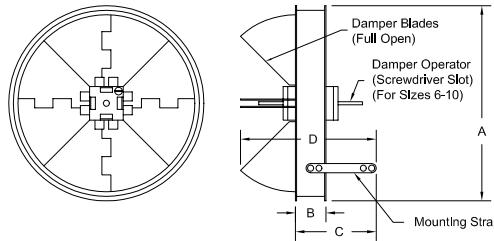


Diffuser Neck Size	XG-BDS Dimension	
	A	B
6	5 3/4	2 1/2
8	7 3/4	3 1/2
10	9 3/4	4 1/2
12	11 3/4	5 1/2
14	13 3/4	6 1/2
15	14 3/4	7
16	15 3/4	7 1/2

MODEL XG-D3

Model XG-D3 radial opposed blade damper

- For use in round diffusers
- Designed to provide full radial volume control resulting in lower than normal pressure losses
- Overlapping blade design ensures positive shut-off when required

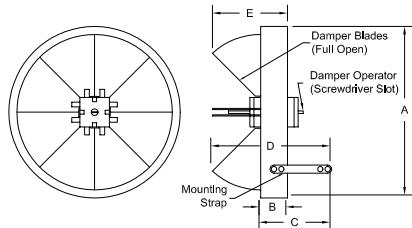


Size	A	B	C	D
6	5 7/8	1 1/4	3 1/4	4 3/4
8	7 7/8	1 1/4	3 3/4	5 1/4
10	9 7/8	1 1/4	3 3/4	6
12	11 7/8	2 1/8	3 7/8	6 5/8
14	13 7/8	2 1/8	3 7/8	7 1/8
16	15 7/8	2 1/8	3 7/8	8 7/8
18	17 7/8	2 1/8	3 7/8	9 3/8
20	19 7/8	2 1/8	3 7/8	9 7/8

MODEL XG-SD3

Model XG-SD3 radial opposed blade damper

- For use in round air diffusers
- Designed to provide full radial volume control resulting in lower than normal pressure losses
- Overlapping blade design ensures positive shut-off when required
- Steel construction

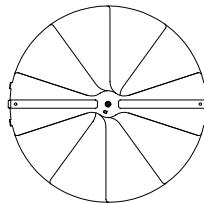


Size	A	B	C	D	E
6	5 7/8	1 1/8	3 7/8	4 1/8	2 1/8
8	7 7/8	1 7/8	3 7/8	4 7/8	2 7/8
10	9 7/8	1 7/8	3 7/8	5 5/8	3 5/8
12	11 7/8	1 7/8	3 5/8	6	4 1/4
14	13 7/8	1 7/8	3 5/8	6 3/4	5
16	15 7/8	1 7/8	3 5/8	7 3/8	5 5/8
18	17 7/8	1 7/8	3 5/8	8 1/8	6 3/8
20	19 7/8	1 7/8	3 5/8	8 7/8	7 7/16
24	23 7/8	1 7/8	3 5/8	7 3/4	6
30	29 7/8	1 7/8	6	11 5/8	7 1/2
36	35 7/8	1 7/8	6	13 1/8	9

MODEL XG-RSD

Model XG-RSD radial shutter damper

- Cost effective alternative to butterfly style damper
- Design permits very precise damper control and does not interfere with diffuser air patterns
- Steel construction

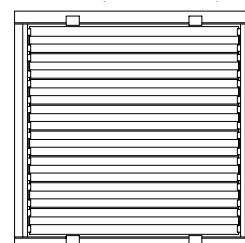
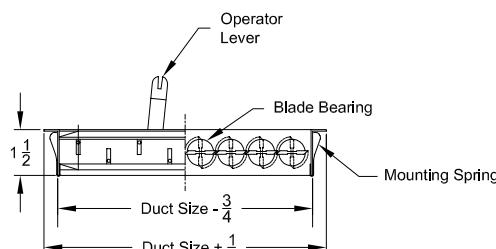


Available Sizes
6
8
10
12

MODEL XG-D5/XG-D7

Model XG-D5/XG-D7 opposed blade damper for XG-5000 and XG-7000

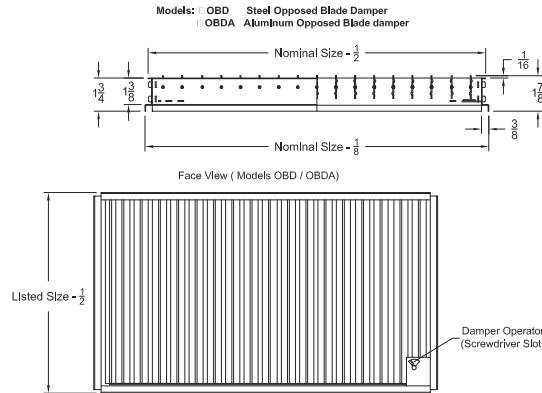
- For use with Series XG-5000, XG-D5, and Series XG-7000, XG-D7.
- Aluminum construction, XG-D5A/ XG-D7A
- Steel construction, XG-D5/XG-D7



MODEL XG-OBDA/XG-OBD

Model XG-OBDA/XG-OBD square/rectangular opposed blade damper

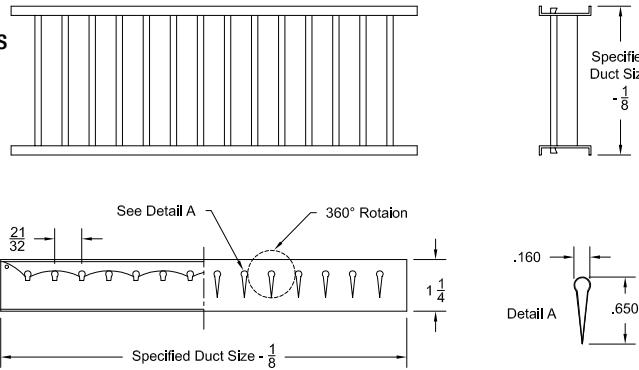
- Tapered blades set in a U-channel frame
- Opposed blades on 1" centers
- Screwdriver slot operator
- Aluminum construction, XG-OBDA
- Steel construction, XG-OBD



MODEL XG-L9

Model XG-L9 – Square/Rectangular Equalizing Grid

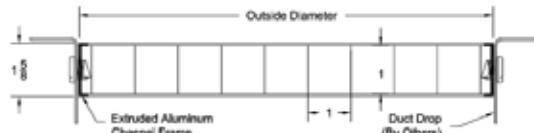
- Designed to provide uniform airflow in branch ducts
- Pre-tensioned blades adjust individually
- Aluminum construction



MODEL XG-G3

Model XG-G3 Round Equalizing Grid

- Aluminum construction
- Available in sizes from 6" to 24"

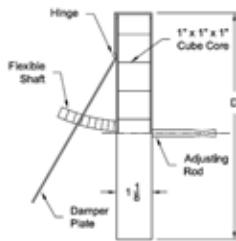
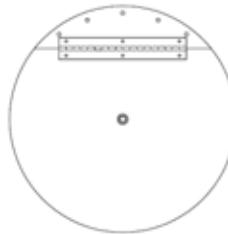


Diffuser Neck Diameter									
6	8	10	12	14	16	18	20	24	XG-G3 Outside Diameter
5 3/4	7 3/4	9 3/4	11 3/4	13 3/4	15 3/4	17 3/4	19 3/4	23 3/4	

MODEL XG-GD3

Model XG-GD3 Round Combination Grid and Damper

- For use with all diffusers
- Aluminum construction
- Sizes available from 6" to 20"

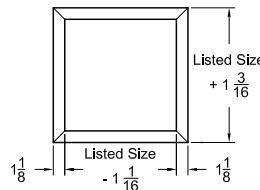


Size	Dimension							
	6	6	10	12	14	16	18	20
D	5 7/8	7 7/8	9 7/8	11 7/8	13 7/8	15 7/8	17 7/8	19 7/8

MODEL XG-TBPF

Model XG-TBPF T-bar Plaster Frames permit installation of T-bar frame style ceiling diffusers into plaster frame or gypsum ceilings, and are available in standard T-bar sizes.

- Converts T-bar frame to Surface Mount
- Available in aluminum, XG-TBPF, or steel, XG-STBPF, construction

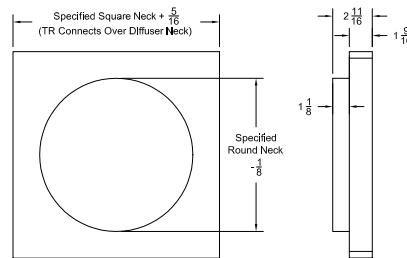


Available Size (XG-TBPF and XG-STBPF Models)	
Nominal	Overall
12 x 12	13 3/16 x 13 3/16
24 x 12	25 3/16 x 13 3/16
24 x 24	25 3/16 x 25 3/16
36 x 24	37 3/16 x 25 3/16
36 x 36	37 3/16 x 37 3/16
48 x 24	49 3/16 x 25 3/16
48 x 48	49 3/16 x 49 3/16
13 x 13	14 3/16 x 14 3/16

MODEL XG-TR/XG-TR DEEP

Model XG-TR/XG-TR Deep Square to Round Transitions

- Available for all ducted supply and return diffusers
- Provide economical means of adapting square neck diffusers to round neck connections
- TR Deep transitions provide additional depth to accommodate some dampers



Available Size	
Square Neck Size	Round Neck Size
6 x 6	4, 5 & 6
8 x 8	5, 6, 7 & 8
9 x 9	5, 6, 7, 8 & 9
10 x 10	5, 6, 7, 8, 9 & 10
12 x 12	5, 6, 7, 8, 9, 10, 11 & 12
14 x 14	5, 6, 7, 8, 9, 10, 11, 12 & 14
15 x 15	5, 6, 7, 8, 9, 10, 11, 12, 14 & 15
16 x 16	5, 6, 7, 8, 9, 10, 11, 12, 14, 15 & 16
18 x 18	5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16 & 18
22 x 22	5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 18, 20 & 22

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Our Quick Delivery program ensures shipment of in-stock products within 24 hours of placing your order. Our Quick Build made-to-order products are manufactured in 1-3-5-10-15 or 25-day production cycles, depending upon its complexity.



Greenheck's free computer aided product selection program CAPS®, rated by many as the best in the industry, helps you conveniently and efficiently select the right products for the challenge at hand.



Our 3D service allows you to download, at no charge, easy-to-use AutoDesk® Revit® 3D drawings for many of our ventilation products.

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Greenheck delivers value to mechanical engineers by helping them solve virtually any air quality challenges their clients face with a comprehensive selection of

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