Grilles, Registers, Diffusers, and Air Terminal Units Handbook





VALUE IN AIR. May

2025

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SINGLE DUCT

XG-TH-510 Single Duct Air Terminal Unit



The simplest and most widely used VAV terminal unit. Capacities ranging from 80-8,000 cfm in 10 sizes.





This VAV terminal unit is engineered for reduced height applications. Capacities ranging from 80-4,000 cfm in eight sizes.



Bypass Terminal Unit

XG-BP-600

This model is used to achieve variable air volume delivery of conditioned air to a space/ zone where constant volume air handlers exist.

FAN-POWERED CONSTANT VOLUME

XG-FCL-600

Low Profile Constant

Volume Fan Terminal Unit

XG-FCI-600 Constant Volume Fan **Terminal Unit**



This fan-powered terminal unit is engineered to provide a balance between quiet operation, minimal footprint, and a broad flow range.

DUAL DUCT

XG-DD-500 **Dual Duct Air Terminal**



These air terminal units regulate the flow of conditioned air in a dual duct air distribution system.

RETROFIT

Square Retrofit Air

XG-SR-500

Terminal Unit



This low profile fan-powered terminal unit is engineered to the XG-FCI-600 specs in addition to providing reduced height for low clearance.

High-Performance Mixing

XG-FCQ-700

Ultra-Quiet Fan

Terminal Unit

This quiet series fan-powered ATU has been engineered to provide noise levels that are the best in the business.

FAN-POWERED VARIABLE VOLUME

XG-FVI-500 Variable Volume Fan Terminal Unit



This parallel fan-powered terminal unit is designed to provide superior comfort to zones by intermittent parallel fan operation.

XG-FVL-600 Low Profile Variable Volume Fan Terminal Unit



This low profile parallel fan-powered terminal unit is designed for reduced height applications.



This model is engineered to provide an industry-leading 1:30 mixing ratio. Capacities ranging from 80-4,400 cfm in multiple unit sizes.



XG-DS-600

Short Mixing

Dual Duct Air Terminal



This short mixing box allows mixing of hot and cold decks in tight, limited spaces due to its small footprint.

XG-RT-500

Terminal Unit

Round Retrofit Air

These retrofit air terminals

are designed to regulate

in single or dual duct air

distribution systems.

the flow of conditioned air

XG-DH-500

XG-RA-500 **Customized Retrofit** Air Terminal Unit



These retrofit assemblies are customized retrofit valves designed to slip into existing mechanically regulated single or dual duct terminals.

DDC CONTROLS

DDC Controls Factory-Provided



A universal controller based on BACnet®. Factory-mounted, wired, and preconfigured for standard control sequences.

applications.

This model is designed to

square or rectangular

models to cover multiple

fit into existing low pressure

duct systems. Three different



SUPPLY/RETURN GRILLES & REGISTERS

Series SG41/42

Al./Steel, Single/Double

Deflection Supply Grilles

Series is offered with single

deflection blades (SG41) or

(SG42), in Aluminum or

Steel Construction.

Cube Core Return

and Exhaust Grille

Model is great for high

capacity applications

requiring minimum pressure

drop and noise. Standard

construction is aluminum.

Perforated Return Grille

Model ideal for return/

exhaust applications that

require low pressure drop

and low sound. Available

in aluminum or steel.

RGCC

RGPF

with double deflection blades

Series SGV

Aluminum Stamped Frame Supply Grilles



The series includes models SGV (Single deflection/vertical blades), SGVH (Double deflection/vertical front blades).

Series RG41 **Return Air Grille**



Series available in two frame styles (surface mount and lay-in). Available with horizontal or vertical fixed blades in aluminum or steel

RGCC-BP

High Capacity Cube Core Return Grille



Model features an eggcrate cube core face and a hard backpan. Available in steel (S) or aluminum (AL).





Model allows for delivery of a jet or diffused air pattern in spiral duct installation. Available up to 48" long.

Supply/Return Linear Slot **Diffuser for Spiral Duct**

SDLSD



These linear slot diffusers integrate into exposed spiral duct systems.

Series SG41/42-AF

Airfoil Blade Aluminum or Steel Supply Grilles



Series is available with single or double deflection, and with a number of options and accessories to meet a variety of applications.

RGCC-45

Sight-Proof Cube

Core Return Grille

Model is designed for

applications where it's

through the product.

important to limit visibility

SGCB

Curved Blade Supply Grilles & Registers

	3	
	=	
-	_	
-	_	
-		
-		

Series is available with 1-way, 2-way, 2-way opposite, 3-way, and 4-way directional air patterns.

Series RG

Roll Formed Aluminum Return Air Grilles

-			
1			
ga			
gi			
			-
-		_	
-			-
-	_	_	
-	_	_	-

Model available with several borders to integrate into a wide range of ceiling and sidewall applications. Available in Aluminum, Steel, or Extruded Aluminum.

SPIRAL DUCT GRILLES

SD41/42-U Single/Double Deflection Universal Frame Spiral Duct Grille



A universal style frame to fit a range of duct diameters. Offers superior performance in exposed duct applications offering a clean, low profile appearance. Available in steel (S) or aluminum (AL).

RG-FF

Aluminum/Steel Filter

Series available in aluminum

our premiere aluminum (AL).

ance and performance.

and steel. Extruded aluminum is

steel (S), extruded aluminum (E)

model offering superior appear-

Return Grilles

SD41/42-C Single/Double **Deflection Aluminum Curved** Frame Spiral Duct Grille



Spiral duct grille features a curved frame that fits flush to the contour of a round or spiral duct, offering a clean finish.

SDPF **Perforated Face Spiral Duct Grille**

Model uses a perforated face for a clean finish. Offered in a universal (U) style frame to fit a range of duct diameters or a curved (C) frame for a tight installation on a spiral duct.

FILTER GRILLES

RGCC-FF-05 Aluminum Cube Core **Filter Return Grille**



These cube core return and exhaust filter grilles provide low pressure drop and low sound levels. RGCC-FF-45

Aluminum Sightproof Cube Core Filter Return Grille



Model features a 45° core that maintains high free area. The 45° core enables a sightproof installation and prevents visibility into the ceiling or plenum.



HEAVY-DUTY GRILLES

HDRG41

Return Grille

Heavy-Duty Sidewall

These heavy-duty return grilles

are designed for applications

where a durable grille is

Industrial/High Capacity

This model is engineered

applications such as gymnasiums, industrial

for high capacity, long throw

plants and other large spaces.

Supply-Drum Louver

needed. Available in

aluminum or steel.

DRL

RGPF-FF Aluminum /Steel Perforated **Face Filter Return Grille**



Model is designed for filters (by others) and includes a hinged face with thumb latches for quick filter changes.



Heavy-Duty Aluminum

HDRG

Return Grille

projects that require a grille or register to withstand moderate physical abuse.

INDUSTRIAL GRILLES

ISG11/12

Aluminum Single/Double **Deflection Industrial Supply Grilles**



Engineered for high capacity industrial air distribution applications where performance is a priority. Model uses 1.5" blades on 1.5" spacing.



Aluminum Single/Double

ISG31/32

Designed for ceiling and high sidewall installation. Includes 3" blades on 3" centers and a 7" deep collar.

SPECIALTY GRILLES

JN **High Capacity Jet Nozzle**



Jet nozzle diffusers offer an economical solution to high capacity air distribution applications requiring long throw distances.





Model discharges a high-velocity jet that can be directed to condition a specific space or area.



An excellent choice for applications requiring an adjustable outlet with high velocity capacities and long throw.

SEC-WM

SECURITY GRILLES

SEC-LFWM Maximum Security Grille Square Holes/Mesh Face



This steel supply grille is excellent for sidewall installation in maximum security applications such as federal correctional facilities. Uses wire mesh with lattice lace.

SEC-PF Maximum Security Grille Perforated Face



SEC-PF uses a perforated face, while the suicide resistant (SR) option uses smaller 3/16" holes on 9/32 staggered centers.

HDSG41/42

Heavy-Duty Supply **Grilles & Registers**

m			TEL
	0	B.	

These heavy-duty supply grilles are designed for applications such as gymnasiums and other public areas where a durable grille is needed. Available in aluminum and steel.

TDG Transfer/Door Grilles

Extruded aluminum door grilles are designed to transfer air through doors or walls. Aluminum (AL) or steel (S) transfer/door grilles are designed to transfer air through doors or walls.

RSGDD

Architectural Round High **Capacity Grille**



Maximum Security Grille

Model is a heavy-duty security

grille with a wire mesh face.

Used in maximum security

applications.

Wire Mesh Face

SEC-LF Maximum Security Grille Steel Lattice Face



This steel security grille uses a heavy-duty steel lattice face for use in correctional facilities and other security applications.

SEC-RG **Medium Security Grille Fixed Louver Face**



This louver face steel sidewall return grille is an excellent choice for returns in medium security, supervised areas.

PRODUCT HANDBOOK



SEC-LBG

GRILLES & REGISTERS

Minimum Security Bar Grille



Model is a return grille constructed with heavy-gauge aluminum louvers that are reinforced and attached to a steel sleeve.

Bar Grille

Duct/Wall-Mounted

SEC-DBS

Duct barrier bar grille is an excellent choice for additional security in openings between secure and nonsecure areas.

Opposed Blade Damper

ACCESSORIES

TBP

T-Bar Panel for Grilles and Diffusers



OBD

Model is a panel for use with grilles, registers and diffusers in T-bar applications. Available in aluminum (AL) and steel (S.)

Tapered blades set in a U-channel frame. Opposed blades on 1" centers. Screwdriver slot operator.

Available in aluminum (AL), steel

(S), and extruded aluminum (E).

Equalizing Grid

L9



Designed to provide uniform airflow in branch ducts. Pre-tensioned blades adjust individually.

TBF T-Bar Frame



Permits the installation of the T-bar frame style ceiling diffuser into plaster or gypsum type ceilings. Available in aluminum (AL) and steel (S).





Used for surface mount installations that need to conceal the mounting frame.

CEILING DIFFUSERS

LIF Lay-In Frame for grilles



Extruded aluminum lay-In plaster frame for use in hard ceiling applications. Lay-In frame allows for hard ceiling installation of grilles. Available in aluminum (AL) or steel (S). TR / TR-DEEP Square to Round Transition



Square-to-round transition permits installation onto square necks to allow for round or flex duct applications.



Non-Ducted Return Hood

NDRH

A field-added accessory to return grilles in non-ducted plenum applications, it can be used with any Greenheck T-bar lay-in return.

SQUARE CEILING DIFFUSERS

CDS

Square Cone Diffuser 3-Cone



Three-cone square face diffuser with round neck. Available in steel and aluminum construction.

CDS-4C Square Cone Diffuser 4-Cone



Four-cone square face diffuser with round neck. Available in steel and aluminum construction.

CDP Square Plaque Diffuser



Architectural plaque diffuser used for a sleek and modern look while maintaining good airflow performance. Available in steel and aluminum construction.

CDP-RP Round Face Plaque Diffuser



Model is the ideal diffuser for when both interior design and superior performance matter.

CDP-HI High Induction Square Plaque Face Diffuser





LOUVERED FACE DIFFUSERS

CDD-SQA

Face Diffuser

Architectural Louver

CDD

LLF

Square/Rectangle Louver Face Diffuser



Models provide an aesthetically pleasing solution to air distribution requirements, regardless of room configurations. Available in aluminum or steel.

Linear Louver Face Diffuser

Model designed for continuous

length applications where the

clean lines of a louver face

diffuser are desirable.

CDCSR

Ceiling Diffuser

Model offers an architectural air diffuser designed to excel in both performance and aesthetic appeal. Can be used with center ceiling tile for increased aesthetics.

Concentric Supply/Return

Concentric supply/return

package single outlet air

distribution requirement.

solution to rooftop

diffusers provide a functional

CDMC

Aluminum Square Modular Core Diffuser



Model uses removable modular cores which allow for a wide range of airflow configurations with multiple optional border types available in aluminum or steel.

CDDCA

Cold Aisle Diffuser -Louver Face/Cube Core



Model is a hybrid unit that combines the features of a CDD louver face diffuser with a cube core dampered center.

PERFORATED CEILING DIFFUSERS

CDPF-NCB-E Extruded Aluminum Perforated Diffuser



Model is an aluminum, perforated supply diffuser with curved blade pattern controllers mounted in the neck of the diffuser. CDPP Perforated Panel for Non-Ducted Returns



Models are an economical choice for non-ducted plenum return applications and are shipped without pattern controllers. Available in aluminum (AL) and steel (S). CDPF-DD Perf. Supply Diffuser with Fiberglass Backpan



Model is an economical diffuser with a fiberglass plenum, designed to allow field installation of the inlet collar (by others).

CDPF-FMD Perforated Diffuser



Models have face-mounted adjustable pattern controllers, available with round or square necks and are an excellent choice for VAV applications. Perforated Diffuser Curved Blade Pattern Cont.

CDPF-NCB



A great choice for VAV applications. The hinged removable face allows for access to the pattern controllers, available with round or square neck.

CDPF-RF Perforated Filter Back Ceiling Diffuser



Model incorporates a basic perforated diffuser with a filter rack to allow for filtered air applications. CDPF-MC Perforated Face Diffuser with Modular Core



Model uses a perforated face with adjustable modular cores, available in aluminum (AL) or steel (S) and an excellent choice for VAV applications.

PRODUCT HANDBOOK



ROUND CEILING DIFFUSERS

CDIR

CDR Fixed/Adjustable 3-Cone Round Dlffuser



Excellent choice for high capacity applications. Discharge pattern is easily adjusted from vertical to horizontal. Available in aluminum (AL) or steel (S) with optional fourth cone (4C).



Adjustable Round Diffuser

Heavy-Duty Steel

Models incorporate a high induction design to efficiently handle large volumes of air at high cooling temperature differentials.

Architectural Diffuser

CDRP

Round Panel



Linear "Anti-Strat" Heat/

Cool Changeover Diffuser

steel construction.

VAV DIFFUSERS

CDP-TCH VAV Diffuser



Models are thermally powered variable volume air diffusers which are completely non-electronic and self-contained.

CDP-ECH Electronic VAV Diffuser for **Heating/Cooling Control**

supply air into the space, uses

a wall-mounted thermostat

heating/cooling mode.

Square Face Diffuser

CDS-FRS

to achieve true VAV control in



LD-AS

Change in air pattern prevents stratification issues with heated air diffusion. Thermally powered by the supply air.

LD-TCH VAV Linear Diffusers



Induction slot samples room air to assure precise control. Available in cooling only and heat/cool.

FIRE-RATED PACKAGES

CDD-FRS

Louver Face Ceiling Diffuser with Radiation Damper



Model is a steel louvered face diffuser with a square neck, a UL-Listed ceiling radiation damper and thermal blanket.



Model is a steel 3-cone diffuser with a round neck, a UL-Listed ceiling radiation damper and thermal blanket. Model is a steel square cone diffuser.

CDPF-FRS-FMD Perforated Ceiling Diffuser with Radiation Damper



Model is a perforated ceiling diffuser with face-mounted pattern deflectors, a UL-Listed ceiling radiation damper and thermal blanket.

CDPF-FRS-NCB Perforated Ceiling Diffuser with Radiation Damper



Model is a perforated ceiling diffuser with neck-mounted pattern deflectors, a UL-Listed ceiling radiation damper and thermal blanket.

BGCC-FRS

Sidewall/Ceiling Return Grille w/Radiation Damper



Model is a steel eggcrate grille with a UL-Listed ceiling radiation damper and thermal blanket.

CDPP-FRS

Perf. Non-Duct Screen with **Radiation Damper**



Model is a perforated non-ducted screen with a UL-Listed ceiling radiation damper and thermal blanket.



ACCESSORIES





Model uses an attractive single panel design which blends well into the ceiling and maintains architectural aesthetics as well as engineering performance.

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PRODUCT HANDBOOK

CEILING DIFFUSER

ENGINEERED POLYMER PRODUCTS



LINEAR ARCHITECTURAL DIFFUSERS

LAD

Linear Architectural Diffuser

LADTS

Linear Architectural **Diffuser Tee System**

System LADTS includes Model

LAD and a plenum assembled.

The LADTS is a perfect choice

for acoustical ceiling applica-

or insulated plenum.

tions, available with uninsulated





Allows for a center panel comprised of a ceiling tile or metal panel to blend the unit into the ceiling. This provides a beautiful architectural consistency.

LADSOH Linear Architectural **High-Capacity Square Diffuser**



Model is a high-capacity return that features the integrated look of the LADSQ return, but adds a cube core center to dramatically increase return capacity.

LINEAR ARCHITECTURAL DIFFUSERS ACCESSORIES

FODR

LSDSQ

LADMC Linear Architectural **Diffuser Mitered Corner**

Models satisfy the most

demanding engineering

Available in several

border styles.

and architectural criteria.



Model is for architectural linear slot diffuser Model LAD. Mitered corner can come with a 90°, 45° or 135° miter.

LAD-LS Linear Architectural **Diffuser Light Shield**

Model is a triangular light

shield hood for the LAD series

architectural linear diffusers,

designed to block light that

can be seen from the diffuser opening.



Face-Operated Damper

Model is a face-operated damper rod used to control the airflow through a UP universal plenum. Damper is connected to a metal rod which is pushed or pulled from damper face.

LINEAR SLOT DIFFUSERS

LSD

Supply/Return Linear Slot Diffuser

SDLSD Supply/Return Linear Slot

Diffuser for Spiral Pipe



Models offer supply/return linear slot diffusers with integral pattern controllers and a variety of border styles for every application.

LINEAR BAR GRILLES

Series aluminum supply/ return linear slot diffusers

are designed to integrate into exposed spiral duct systems.



Square Linear Slot Diffuser

This model uses a linear diffuser in a square layout for lay-in ceilings. This provides an architecturally pleasing design with many variations available.

LSDTZ

Linear Slot Diffusers for Architectural Ceilings



Model is compatible for use with Armstrong[®] TechZone™ and USG Logix[™] Architectural Ceiling Systems.

UNIVERSAL PLENUMS

IIP **Universal Plenum**



Universal plenum is used with any linear diffuser model, available in uninsulated or insulated.

LBG-2-14B Extruded Aluminum Linear Bar Grille



Model has a 1/2" flange, 1/8" bar thickness and 1/4" bar spacing. Multiple frame styles are available. Deflection angles of 0, 15 and 30 degrees are available.



Model has a 1" flange, 7/32" bar thickness and 1/2" bar spacing. Multiple frame styles are available. Deflection angles of 0, 15, and 30 degrees are available.

LBG-2-12A **Extruded Aluminum** Linear Bar Grille



Model has a 1/2" flange, 7/32" bar thickness and 1/2" bar spacing. Multiple frame styles are available. Deflection angles of 0, 15 and 30 degrees are available.

LBG-3-12A

Extruded Aluminum Linear Bar Grille



Model has a 3/16" flange, 7/32" bar thickness and 1/2" bar spacing. Multiple frame styles are available. Deflection angles of 0, 15, and 30 degrees are available

LBG-1-14B **Extruded Aluminum** Linear Bar Grille

Model has a 1" flange, 1/8" bar thickness and 1/4" bar spacing. Multiple frame styles are available. Deflection angles of 0, 15 and 30 degrees are available.

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LINEAR BAR GRILLES (CONTINUED)

LBG-2-12B

Extruded Aluminum

Linear Bar Grille

LBG-1-12B Extruded Aluminum

Linear Bar Grille



A 1" flange, 1/8" bar thickness and 1/2" bar spacing. Multiple frame styles are available. Deflection angles of 0, 15 and 30 degrees. A 1/2" flange, 1/8" bar thickness and 1/2" bar spacing. Multiple frame styles are available. Deflection angles of 0, 15 and 30 degrees.

Plenum Slot Diffuser with

PLENUM SLOT DIFFUSERS WITH ADJUSTABLE PATTERN CONTROLS

PSD

High-Performance Plenum Slot Diffuser



aluminum pattern controllers

and gasket for horizontal

discharge pattern.



PSDIT

Designed with "ice tong" blades for 180° pattern control. Curved pattern controllers produce a horizontal air pattern.

LAMINAR FLOW DIFFUSERS

HLC-CLF Multichamber Laminar Flow Diffuser



Model is engineered for supply air distribution in cleanrooms and operating rooms. The multichamber design ensures low velocity laminar flow. HLC-LFD Laminar Flow Supply Diffuser



Models are engineered for clean supply air distribution in operating and cleanrooms to supply a low velocity vertical "piston" of conditioned air.



Laminar Flow Diffuser

Model is engineered to help control particle contamination; applications include cleanroom, laboratories and hospital operating rooms.

LBG-2-14B

Extruded Aluminum Linear Bar Grille



A 1/2" flange, 1/8" bar thickness and 1/4" bar spacing. Multiple frame styles are available. Deflection angles of 0, 15 and 30 degrees.

PLENUM SLOT DIFFUSERS WITH FIXED PATTERN CONTROLLERS

PSDF

PSDJ

air control.

HLC-GSL

and 30 degrees.

LBG-3-12B

Extruded Aluminum

A 3/16" flange, 1/8" bar

thickness and 1/2" bar spacing.

Multiple frame styles are avail-

able. Deflection angles of 0, 15

Linear Bar Grille

High Capacity Diffuser Lay-In with Fixed Control Vanes

controllers for different applica-

tions. Each has fixed vanes for



-

Plenum Slot Diffuser Lay-In

with Fixed Control Vanes

Maintains an air pattern tight against the ceiling in constant or variable control systems.

RADIAL FLOW DIFFUSERS

HLC-FFR Radial Flow Supply Diffuser



Models are engineered for supply air distribution in critical environments such as chem. labs and cleanrooms. Radial diffusers supply large volumes of air with very short throw patterns. PSDHC Plenum Slot Diffuser w/ Fixed

Curved Blade Pattern Controller



Model features unique fixed curved blade for optimal performance and an optional downblow section to allow for carefully controlled airflows.

HLC-GFR Radial Flow Diffuser with Gel Seal Filter



Model includes a gel seal filter and is engineered for supply air distribution in critical environments such as chem. labs and cleanrooms.

OPERATING AND IMAGING ROOM SYSTEMS

HLC-SPA

Pre-engineered

HLC-MPA Laminar Flow Diffuser Array



Modular, customizable laminar flow diffuser array design for operating and imaging rooms.



A complete, pre-engineered, fully customizable laminar diffuser system with integrated structural support of surgical booms and imaging devices.

HLC-SAC Operating Room Surgical Air Curtain System



Model provides control over particulate matter in the operating room environment. It provides the highest standard of air cleanliness.

HLC-HCG Customizable Ceiling Grid System



Customizable heavy-duty ceiling grid system specifically designed for hospital, laboratory, and cleanroom applications.



RECTANGULAR DISPLACEMENT DIFFUSERS

DDREC

Rectangular Wall-Mounted Displacement Diffuser

DDCU Triangular Corner Unit

Displacement Diffuser

Model is designed for wall mounting around the periphery of a room. Our uniquely designed mounting system allows for quick and easy installation. Model is designed for mounting in corners of rooms. Our uniquely designed mounting system allows for quick and easy installation.

ROUND DISPLACEMENT DIFFUSERS

DDRD Round, Free Standing

Displacement Diffuser



Model DDRD is available in full round 360° airflow, half round 180° airflow, or quarter round 90° airflow. Units allow for easy to install low velocity displacement diffusion.

IN-WALL MOUNT DISPLACEMENT DIFFUSERS

DDW

Wall Displacement Diffuser



Model DDW is available in an "In-wall" style or "flush mount" style with spring clip mounting. Model DDW provides a one way displacement diffuser.

