

SERIES HLC-FFR PERFORMANCE
HLC-FFR — 1-WAY PATTERN

Module Size and Inlet Size	2-Way Pattern				Horizontal Spread (feet)			Vertical Throw (feet)								
	CFM	Ps	Pt	NC	10 Deg dT			10 Deg dT			15 Deg dT			20 Deg dT		
					100	75	50	100	75	50	100	75	50	100	75	50
24 x 24 8	150	.019	.030	<15	0	1	3	0	1	2	0	1	2	0	1	4
	200	.033	.054	<15	1	1	2	0	1	2	0	1	2	0	1	3
	250	.052	.084	18	1	2	5	1	2	4	1	2	5	1	3	6
	300	.075	.121	23	1	3	5	1	2	4	1	2	5	2	4	6
	400	.132	.214	32	2	4	6	2	3	5	2	4	6	3	5	7
	500	.207	.335	39	3	5	7	2	4	5	3	5	7	4	6	8
24 x 24 10	250	.019	.034	<15	1	2	5	0	0	1	1	1	3	1	1	3
	325	.033	.057	<15	1	3	6	0	1	2	1	2	4	1	1	4
	400	.052	.087	21	2	4	7	0	1	4	2	2	5	1	2	5
	475	.075	.122	27	3	5	8	1	1	4	2	3	5	1	3	5
	550	.132	.164	33	3	5	8	1	2	5	2	3	6	2	3	6
	625	.207	.212	37	4	6	9	1	2	5	2	4	7	2	4	7
48 x 24 10	300	.019	.049	<15	1	2	6	0	0	2	1	2	3	0	1	3
	400	.033	.087	19	2	4	7	0	1	3	1	2	5	1	1	5
	500	.052	.135	28	3	5	7	1	1	4	2	3	6	1	2	6
	600	.075	.196	34	4	6	8	1	2	5	2	3	7	1	3	7
	800	.132	.347	40	5	7	9	1	3	6	3	5	8	2	5	10
	900	.207	.439	41	6	7	10	2	3	7	3	5	9	3	6	10
48 x 24 12	500	.019	.074	19	1	2	5	1	1	4	1	1	6	1	3	6
	600	.033	.106	25	1	3	6	1	2	5	1	2	7	2	4	7
	700	.052	.145	30	2	3	7	1	3	6	1	3	8	2	4	9
	800	.075	.189	33	2	4	8	2	3	6	2	4	9	3	5	10
	900	.132	.239	39	3	4	8	2	4	7	2	5	10	4	5	11
	1000	.207	.295	42	3	5	9	3	4	8	3	6	10	4	6	11

PERFORMANCE NOTES FOR SERIES HLC-FFR

All data is tested in accordance with ANSI/ASHRAE 70 and 113.

DEFINITION OF UNITS

- CFM Cubic Feet per Minute (air)
- 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 50 fpm velocities
- NC Noise criterion, sound pressure level NC ratings are based on sound power level (Lw) re: 10⁻¹² watts minus a 10 dB room attenuation in all octave bands
- Note: Tests were conducted with 51% free area face panel.

Performance Correction Factors			
	16%	23%	51%
Throw	x 0.45	x 0.55	x 1.0
Pressure	x 2.45	x 2.20	x 1.0
NC Level	x 1.40	x 1.30	x 1.0

Please use the correction factors listed in the table to estimate data for units with 16% or 23% free area.

SERIES HLC-FFR PERFORMANCE

HLC-FFR — 2-WAY PATTERN

Module Size and Inlet Size	2-Way Pattern				Horizontal Spread (feet)			Vertical Throw (feet)								
	CFM	Ps	Pt	NC	10 Deg dT			10 Deg dT			15 Deg dT			20 Deg dT		
					100	75	50	100	75	50	100	75	50	100	75	50
24 x 24 8	150	.019	.030	<15	0	1	3	0	1	2	0	1	2	0	1	4
	200	.033	.054	15	1	1	4	0	1	3	0	1	4	1	2	5
	250	.052	.084	19	1	2	5	1	2	4	1	2	5	1	3	6
	300	.075	.121	23	1	3	5	1	2	4	1	2	5	2	4	6
	400	.132	.214	31	2	4	6	2	3	6	2	4	6	3	5	7
	500	.207	.335	39	3	5	7	2	4	6	3	5	7	4	6	8
24 x 24 10	250	.023	.036	<15	1	2	5	0	0	1	1	1	3	0	1	3
	325	.039	.061	<15	1	3	6	0	1	2	1	2	4	1	1	4
	400	.092	.145	29	3	5	10	1	1	4	2	3	6	1	3	6
	475	.133	.208	36	4	6	11	1	2	5	2	3	7	2	3	7
	550	.181	.284	41	5	7	12	1	3	6	3	4	7	2	4	8
	625	.299	.469	45	6	9	14	2	4	8	3	5	8	3	5	9
48 x 24 10	300	.017	.030	<15	1	2	5	0	0	1	0	1	2	0	1	2
	400	.028	.050	<15	1	3	6	0	0	2	1	2	3	0	1	3
	500	.067	.119	26	3	5	10	1	1	4	2	2	5	1	2	5
	600	.096	.172	33	4	6	11	1	2	4	2	3	6	1	3	6
	800	.131	.234	38	5	7	12	1	2	5	2	3	6	2	3	7
	900	.217	.387	42	6	9	14	2	3	6	3	4	7	3	4	8
48 x 24 12	500	.067	.092	19	3	5	10	1	1	4	1	1	5	1	3	6
	600	.096	.133	25	4	6	11	1	2	4	1	2	6	2	3	7
	700	.131	.181	30	5	7	12	1	3	5	1	3	7	2	4	8
	800	.171	.236	33	5	8	13	2	3	7	2	4	7	3	5	9
	900	.217	.299	39	6	9	14	2	3	7	2	4	8	3	5	9
	1000	.268	.369	42	3	5	10	2	4	7	3	5	8	4	6	10

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DEFINITION OF UNITS

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Pv Velocity pressure (inches of water column)

Pt Total pressure (inches of water column)

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

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Throw	x 0.45	x 0.55	x 1.0
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Please use the correction factors listed in the table to estimate data for units with 16% or 23% free area.