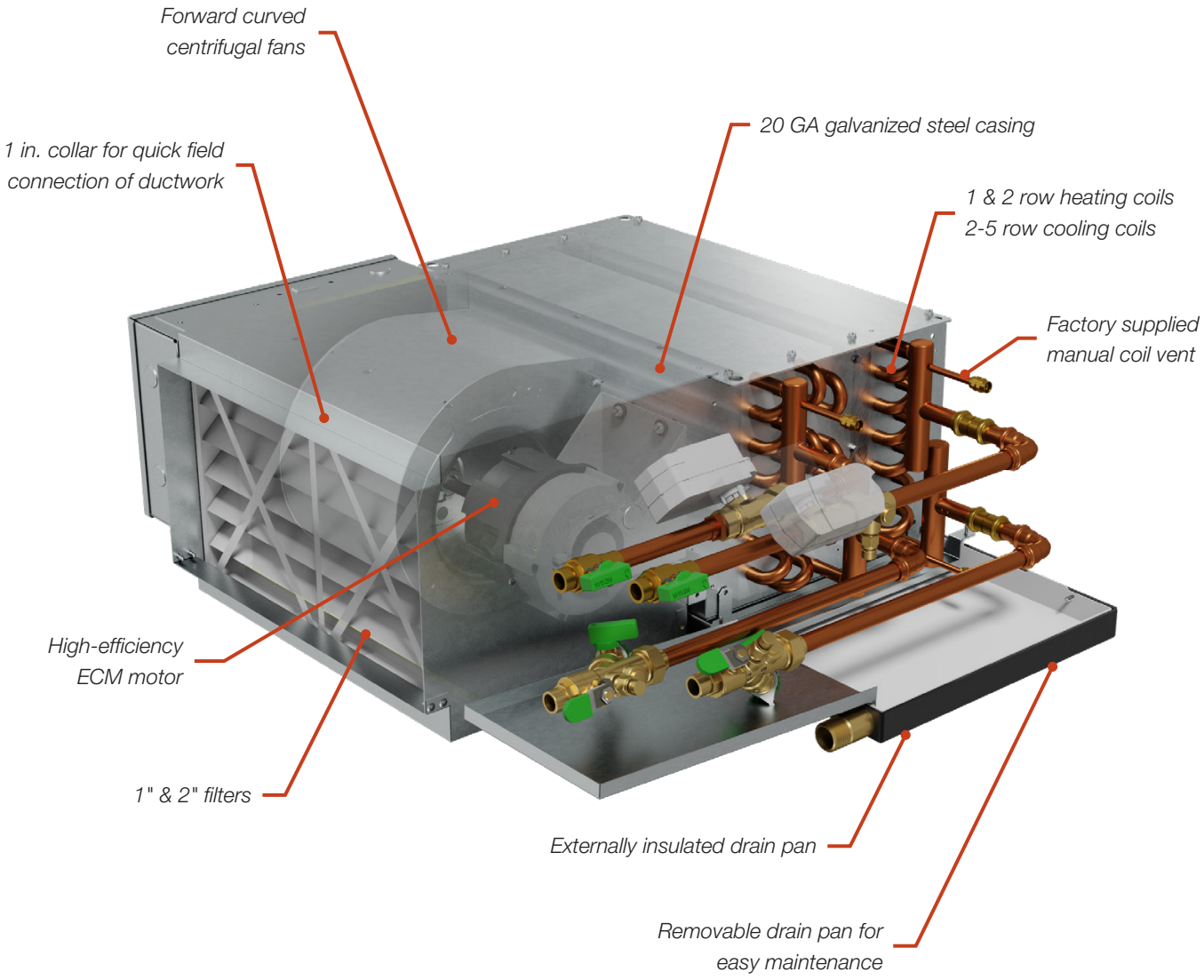
FCH

HORIZONTAL LOW-PROFILE FAN COIL

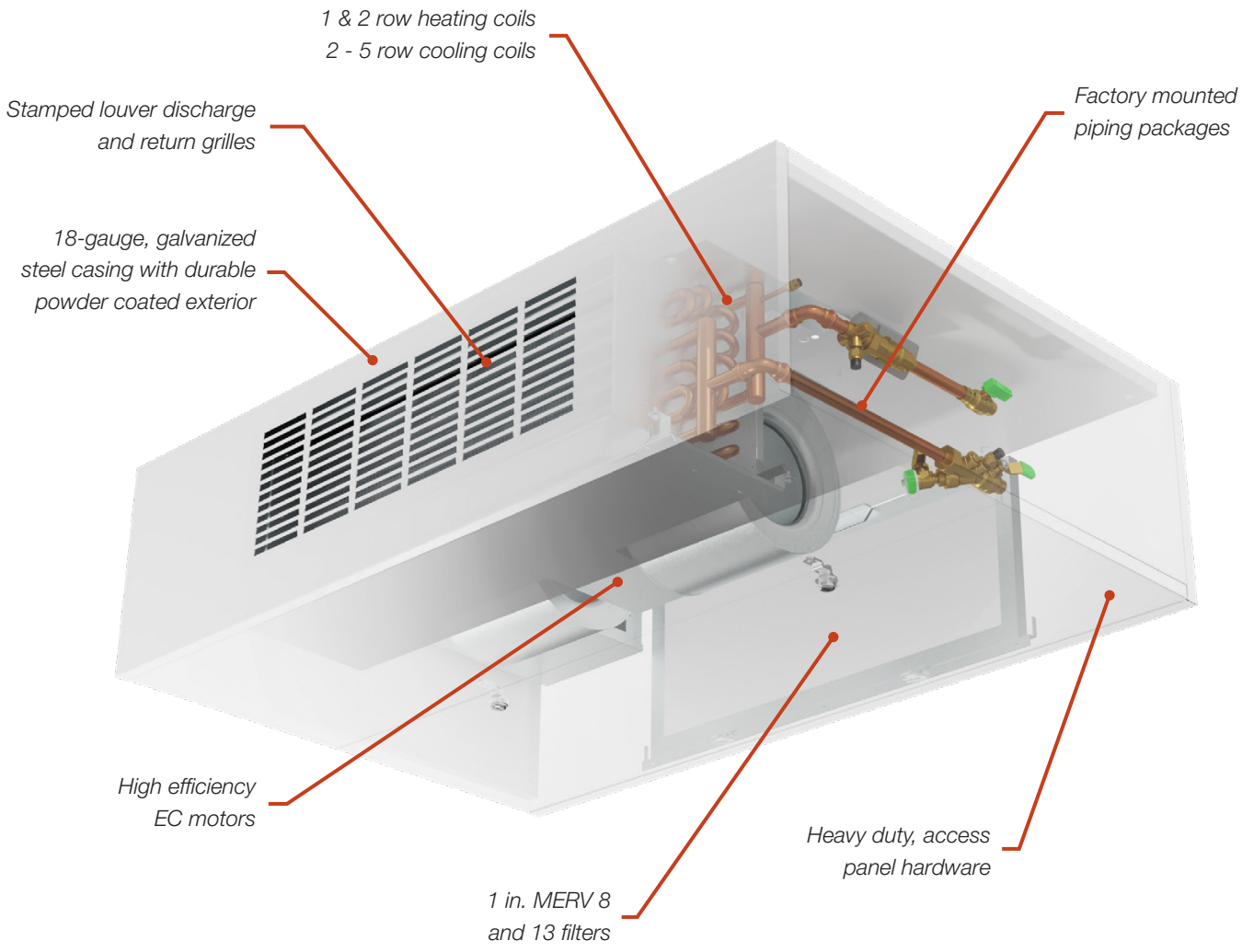


price | FAN & BLOWER COILS

FCHP UNIT

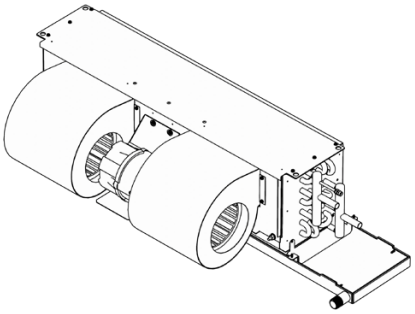

Forward curved centrifugal fans
1 in. collar for quick field connection of ductwork
20 GA galvanized steel casing
1 & 2 row heating coils
2-5 row cooling coils
Factory supplied manual coil vent
High-efficiency ECM motor
1" & 2" filters
Externally insulated drain pan
Removable drain pan for easy maintenance

FCHE UNIT

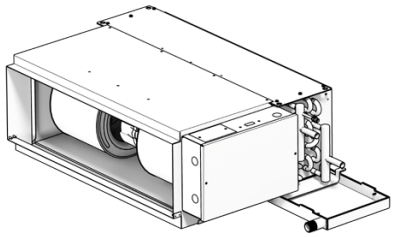

1 & 2 row heating coils
2 - 5 row cooling coils
Stamped louver discharge and return grilles
Factory mounted piping packages
18-gauge, galvanized steel casing with durable powder coated exterior
High efficiency EC motors
Heavy duty, access panel hardware
1 in. MERV 8 and 13 filters

VERSATILITY

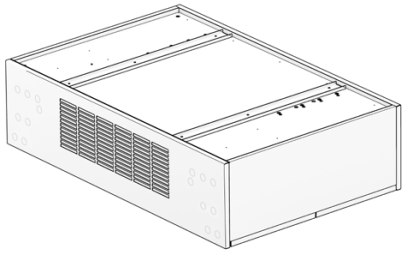
+ These units are reliable, high performing, energy efficient, quiet, and available with a variety of insulation and coil configuration options
+ 3 Configurations
  - FCHC is a free return horizontal fan coil
  - FCHP is similar to FCHC with a return air plenum enclosing the fan & motor assembly that allows for inlet ductwork and filtration options
  - FCHE takes the FCHC unit and adds an 18-gauge painted exterior that is ideal for unducted, exposed applications where the unit will visible in the occupied space
+ 2 Return Options
  - FCHP and FCHE are available in rear and bottom return options



FCHC



FCHP



FCHE

PERFORMANCE

+ AHRI 440 certification ensures each unit will deliver on airflow, cooling capacity, and energy efficiency
+ FCH water coils are AHRI 410 certified and ensures that the unit will meet the cooling demands across a broad spectrum of conditions
+ Each FCH unit has either AHRI 260 or 350 sound data for the unit's operating condition so one can be sure of a comfortable and quiet experience

ECM PROGRAM OPTIONS

+ The FCH provides added flexibility by allowing the user to select an ECM program to best suit the application.
  - **3-speed** – this option provides high, medium, and low output that is controlled by a thermostat
  - **Modulating** – the ultimate in flexibility allows you to control motor output with a manual dial or a 2-10 VDC or 4-20 mA BAS signal

INDOOR AIR QUALITY

+ The MERV 8 and 13 options available to meet the different filtration needs for each project
+ 2" filter option available for improved energy efficiency and increased surface area to filter return air
+ Spare filters available to ensure filter supply is never a concern
+ Tool-free filter access makes filter replacement fast and easy.

COMFORT & CONTROL

WATER COILS

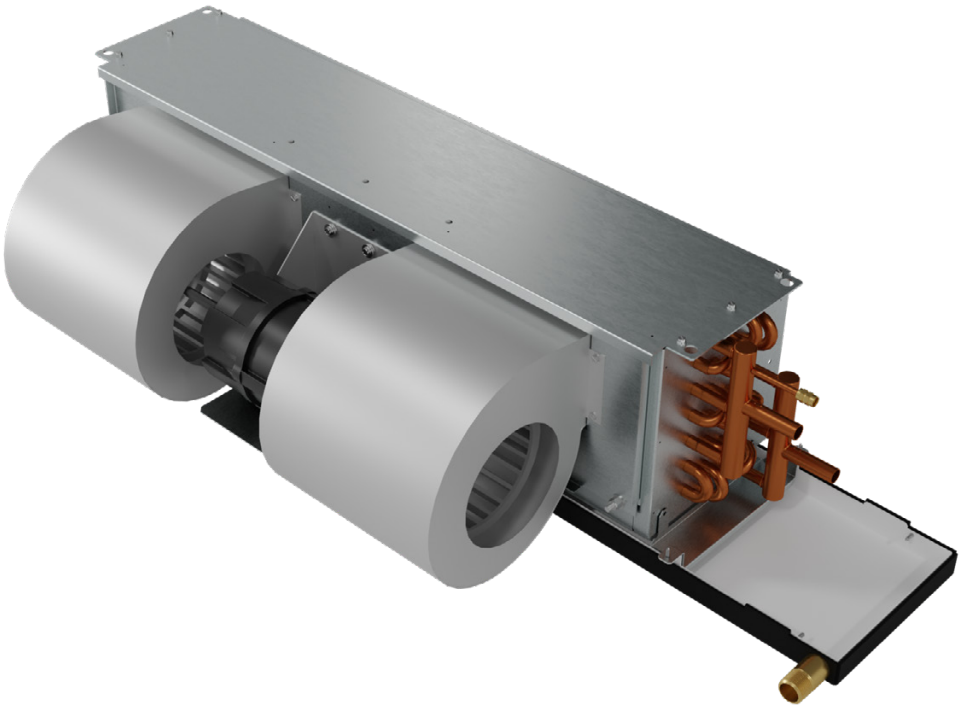
+ Price water coils are constructed from high quality materials and are AHRI 410 certified. Designed to optimize heat transfer, water coils are available with multiple row and circuit options to meet the requirements of every project
+ For optimal performance and versatility, water coils are available in both RH and LH configurations as well as opposite end connections for the ultimate configuration versatility
+ Expanded cooling coil options allow the flexibility of having various unit sizes and coil configurations that will meet the space's dimensional and performance requirements
  - 2 pipe cooling coil: 2-5 rows
  - 4 pipe system: 2-5 rows cooling and 1-2 rows heating, maximum 7 rows

PIPING PACKAGES

- Factory mounted piping packages are leak tested and quality assured to ensure jobsites are commissioned quickly and efficiently
- Multiple control valve options provide choices for the best temperature control

IDEAL FOR COMPACT APPLICATIONS

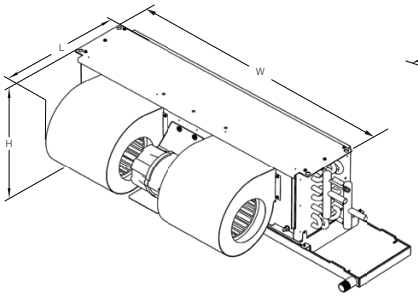
+ A compact design allows the FCHC and FCHP to be installed in tight spaces
+ With unit heights as low as 10.5 in. and the reduced supply air volume of a hydronic system, ductwork requirements are minimized, resulting in reduced plenum heights.



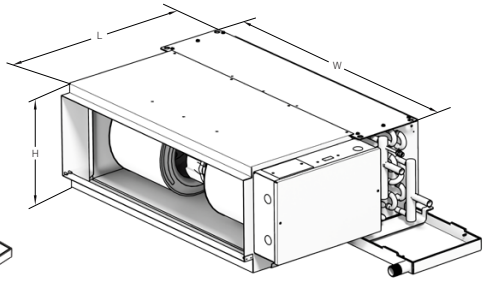
STANDARD & OPTIONAL FEATURES

	Standard Features	Optional Features
Plenum Unit Construction	+ 1" return and discharge collars for easy duct connections + Rear return + Integrated coil section hanger brackets & 12-gauge, ship loose plenum hanger brackets + ½" dual-density fiberglass insulation	+ Bottom return + ½" fiber-free insulation
Exposed Unit Construction	+ 18 gauge painted steel exterior cabinet + Stamped louver supply and return openings + Quick access bottom panel with heavy duty latches	+ Bottom return
Performance	+ AHRI 440 certified + AHRI 260 and 350 sound performance + AHRI 410 certified water coils	
Electrical	+ Electrical enclosure with side access opposite of coil handing + Line voltage to 24V control transformer + ETL listed	+ Electrical enclosure handing same side as coil handing + Toggle disconnect switch + Drain pan overflow safety float switch + Motor fusing + Control fusing + 24V isolation transformer
Fan & Motor Assembly	+ Optimized, large diameter, DWDI forward curve fans + 115, 208, 240, or 277V, high efficiency EC motors	+ Modulating EC motor speed control
Water Coils	+ ½" heavy duty, copper tubes with 10 FPI aluminum fins + 7 total, combined rows maximum - Cooling – 2 to 5 rows chilled water - Heating – 1 or 2 row hot water + Preheat or reheat configurations + Same and opposite side 4-pipe configurations + Manual air vents	+ 20-guage stainless coil casing
Drain Pans	+ Dual-sloped galvanized steel drain pan	+ Stainless steel with external insulation + Secondary overflow drain + Auxiliary drip pan
Indoor Air Quality	+ 1" MERV 8 filters (FCHE and FCHP bottom return only) + Tool-free filter access + 2" MERV 8 filters (FCHP rear return only)	+ 1" MERV 13 filters (FCHE and FCHP bottom return only) + 2" MERV 13 filters (FCHP rear return only) + Spare filters 1" and 2" filters
Valve Packages		+ Factory-mounted, ½" 2-way or 3-way piping packages + On/off control valves and modulating control valves with electronic fail-safe + Floating point control valves + Factory-optimized and field-adjustable CV settings for control valves + Isolation valves with memory stop, unions, and PT ports + Serviceable automatic balancing flow valve + Y-strainer with blow-down

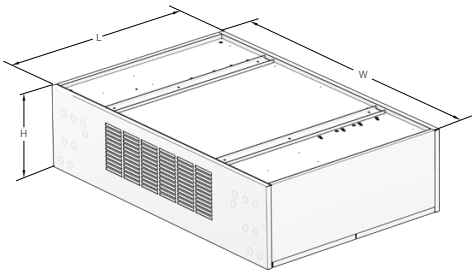
DIMENSIONAL DATA



FCHC



FCHP



FCHE

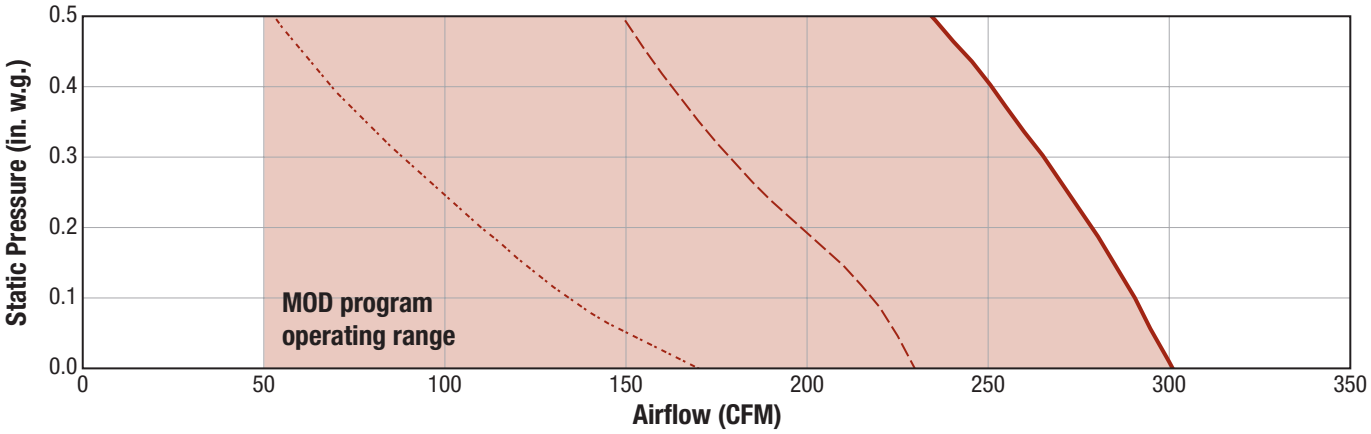
Model	Size	Width (W)	Height (H)	Length (L)	
				Cooling	Preheat or Reheat
FCHC	02	16 in. (406mm)	10 3/8 in. (264 mm)	16 in. (406 mm)	20 in. (508 mm)
	03	20 in. (508mm)			
	04	26 in. (660mm)			
	06	32 in. (813mm)			
	08	40 in. (1016mm)			
	10	52 in. (1321mm)			
	12	60 in. (1524mm)			
FCHP (Rear Return)	02	16 in. (406mm)	10 3/8 in. (264mm)	18 1/2 in. (470mm)	22 1/2 in. (572mm)
	03	20 in. (508mm)			
	04	26 in. (660mm)			
	06	32 in. (813mm)			
	08	40 in. (1016mm)			
	10	52 in. (1321mm)			
	12	60 in. (1524mm)			
FCHP (Bottom Return)	02	16 in. (406mm)	10 1/2 in. (267mm)	18 3/4 in. (476mm)	22 3/4 in. (578mm)
	03	20 in. (508mm)			
	04	26 in. (660mm)			
	06	32 in. (813mm)			
	08	40 in. (1016mm)			
	10	52 in. (1321mm)			
	12	60 in. (1524mm)			
FCHE	02	36 in. (914mm)	12 in. (305mm)	30 in. (762mm)	
	03	40 in. (1016mm)			
	04	46 in. (1168mm)			
	06	52 in. (1321mm)			
	08	60 in. (1524mm)			
	10	72 in. (1829mm)			
	12	80 in. (2032mm)			

Height is measured from the top of the unit to the lowest point of the drain pan.

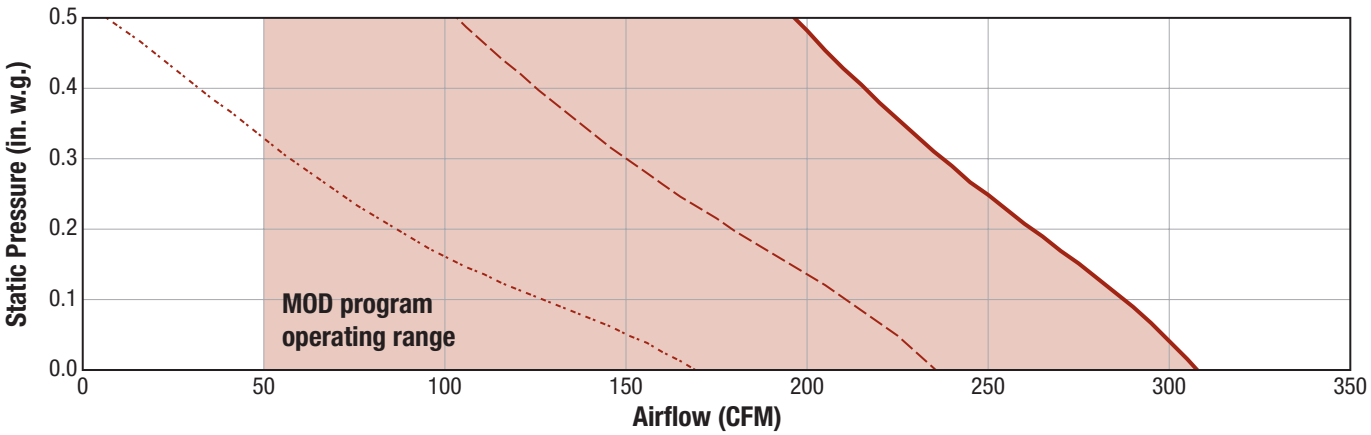
PERFORMANCE DATA

FCH - Fan Performance Curves - Unit size 02

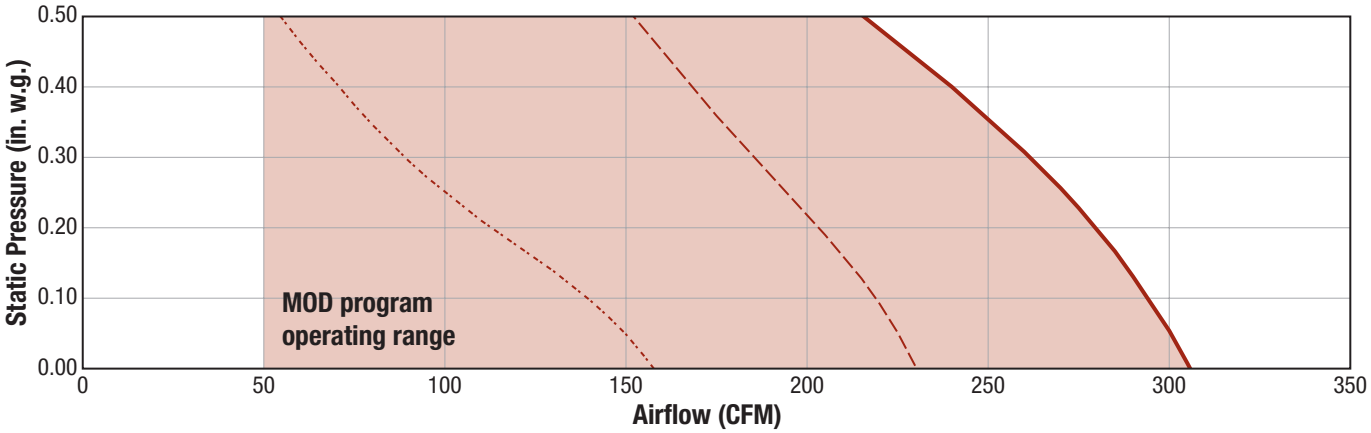
FCHP Size 2

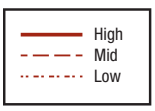


FCHC Size 2



FCHE Size 2



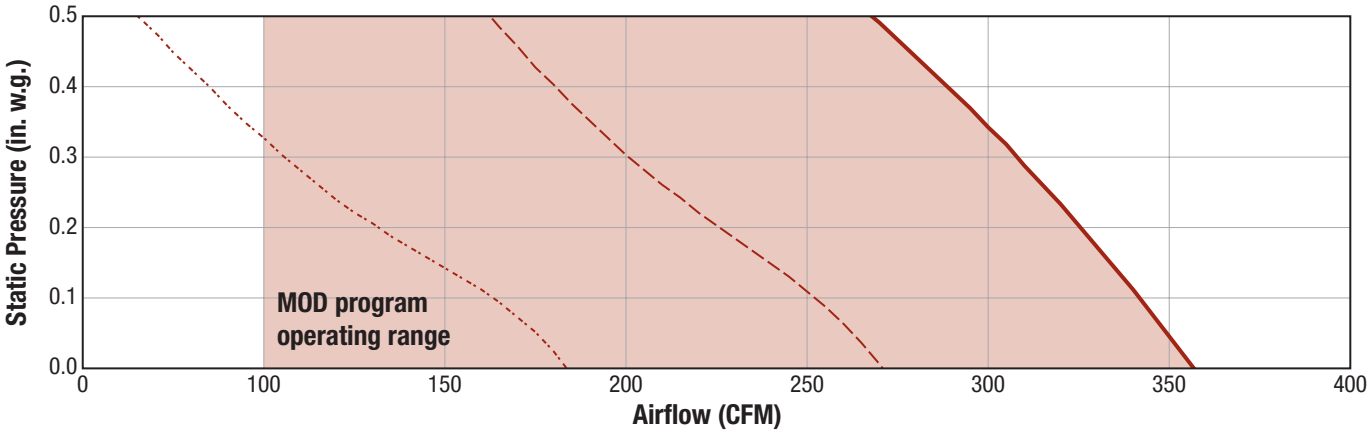


Note:
1. Airflows are based on dry coil conditions with 4 row coil.

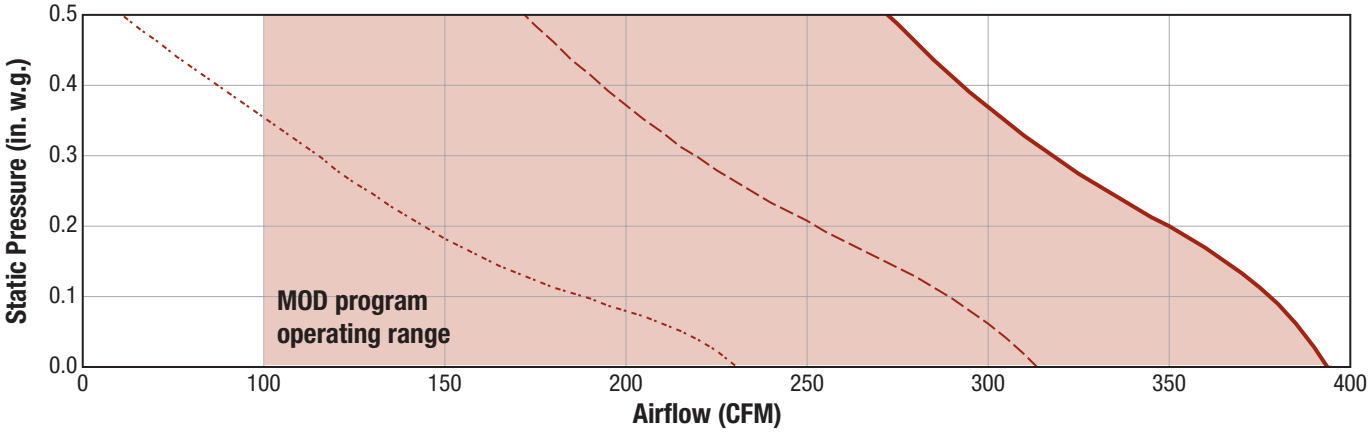
PERFORMANCE DATA

FCH - Fan Performance Curves - Unit size 03

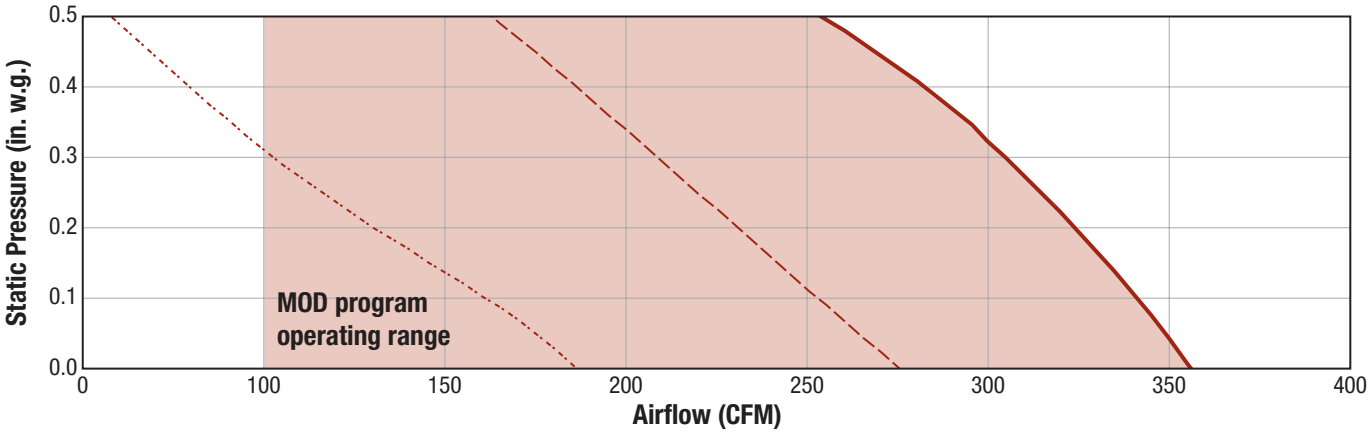
FCHP Size 3

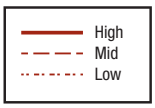


FCHC Size 3



FCHE Size 3



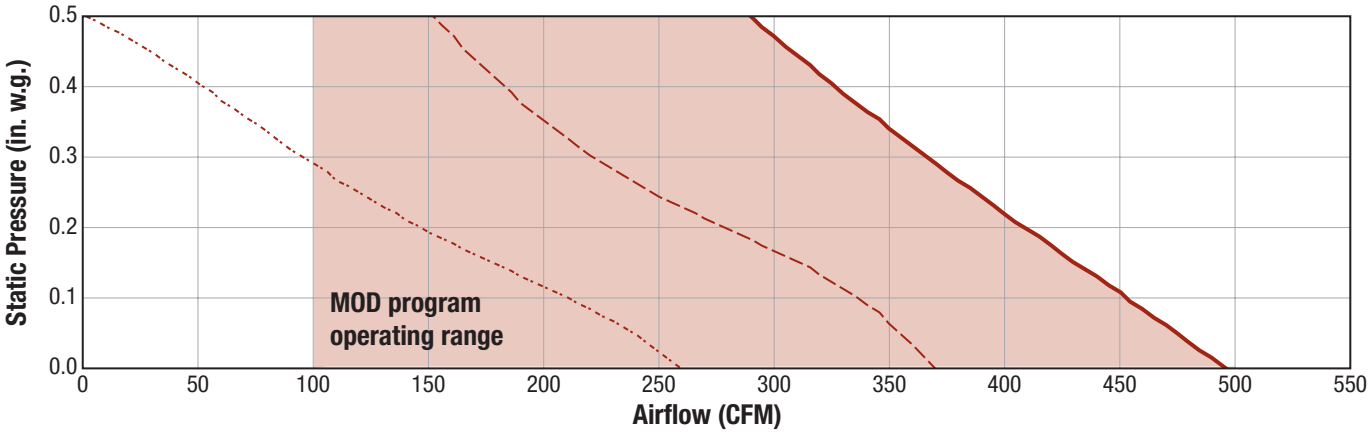


Note:
1. Airflows are based on dry coil conditions with 4 row coil.

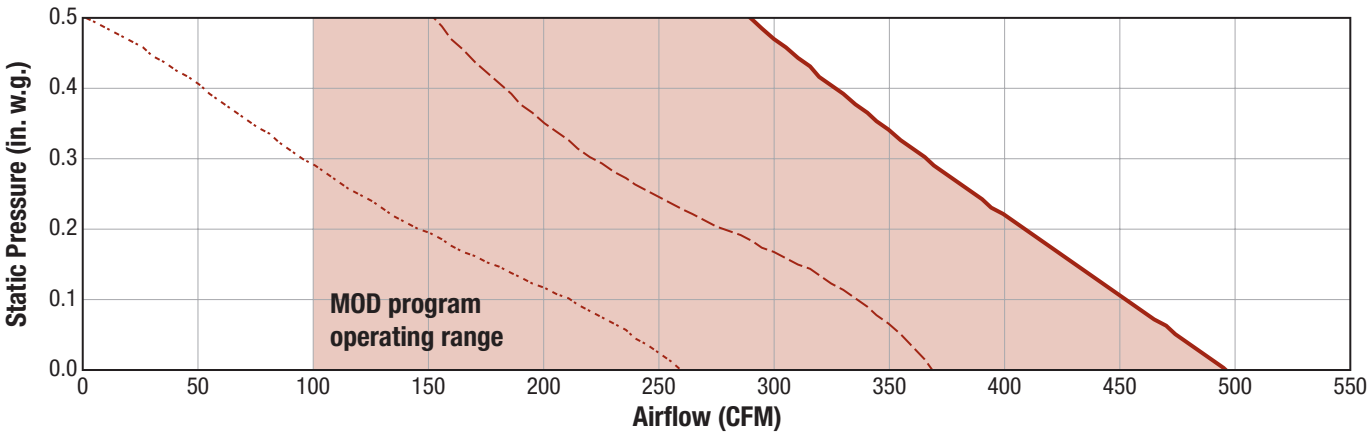
PERFORMANCE DATA

FCH - Fan Performance Curves - Unit size 04

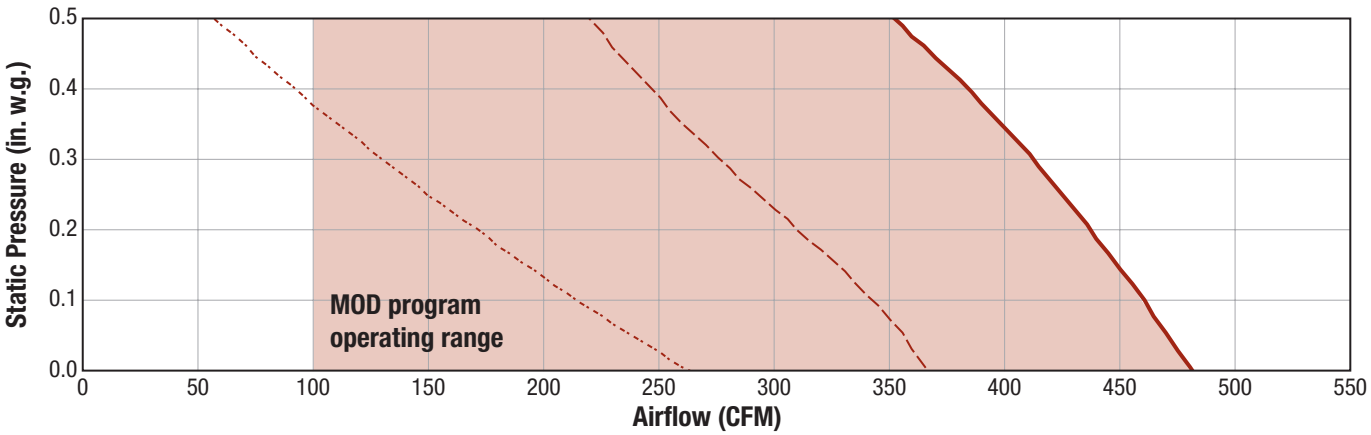
FCHC Size 4

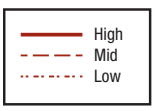


FCHP Size 4



FCHE Size 4



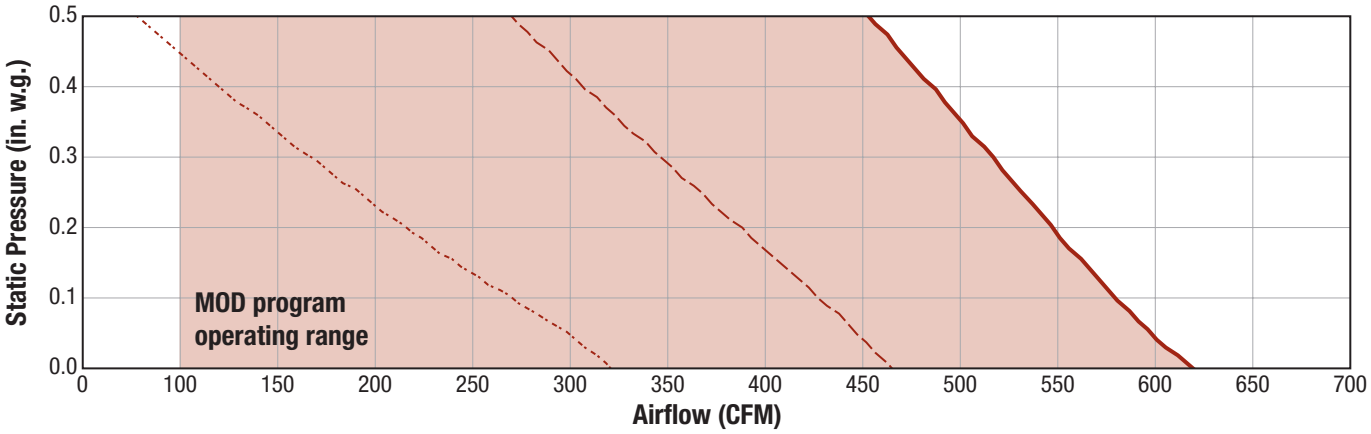


Note:
1. Airflows are based on dry coil conditions with 4 row coil.

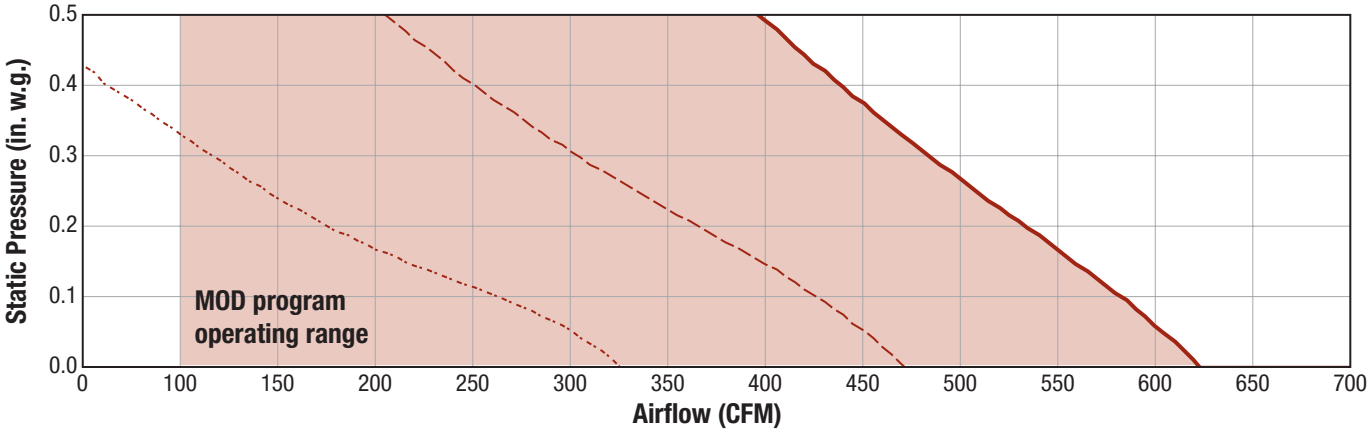
PERFORMANCE DATA

FCH - Fan Performance Curves - Unit size 06

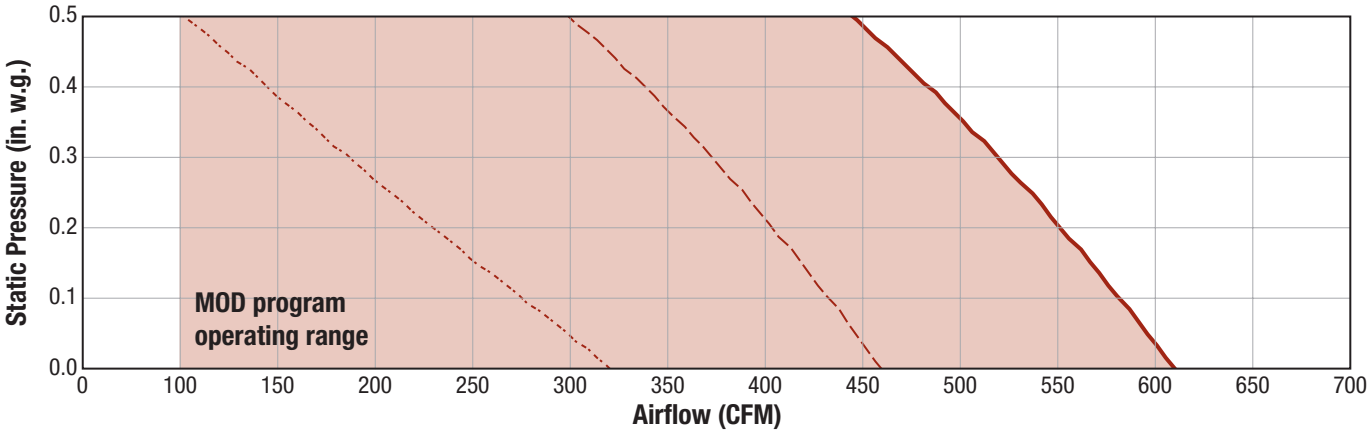
FCHP Size 6

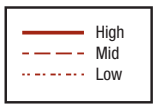


FCHC Size 6



FCHE Size 6



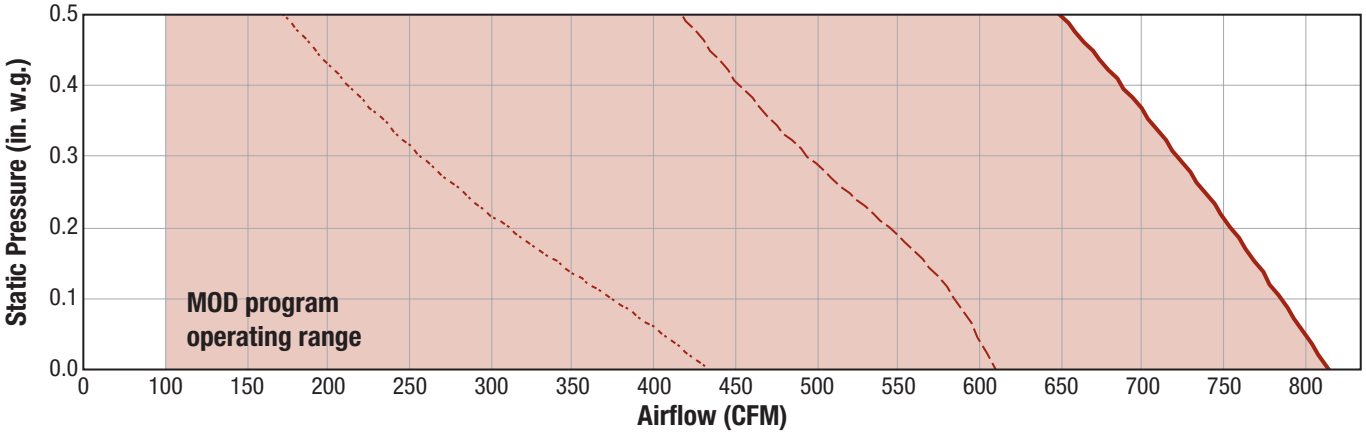


Note:
1. Airflows are based on dry coil conditions with 4 row coil.

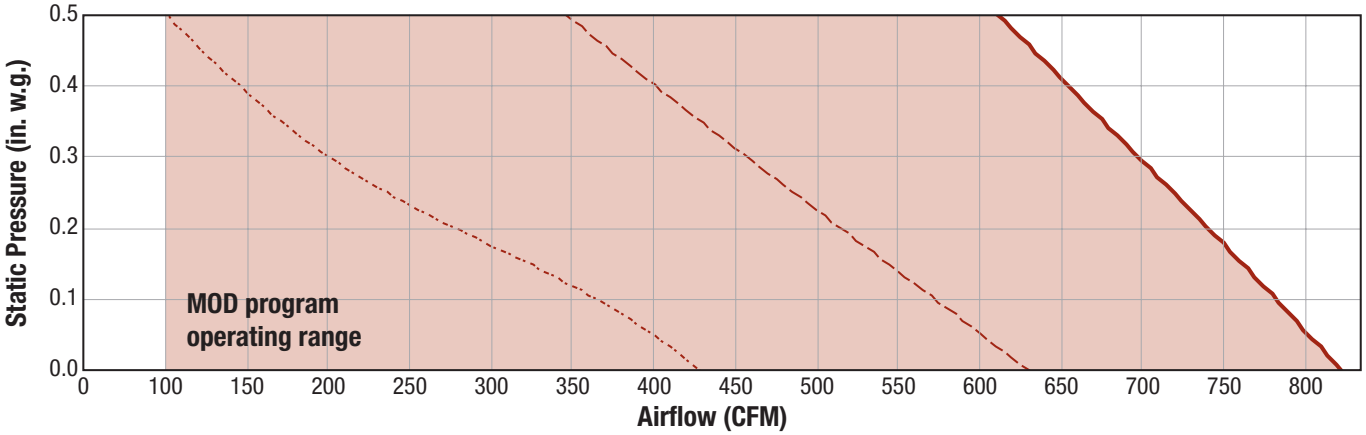
PERFORMANCE DATA

FCH - Fan Performance Curves - Unit size 08

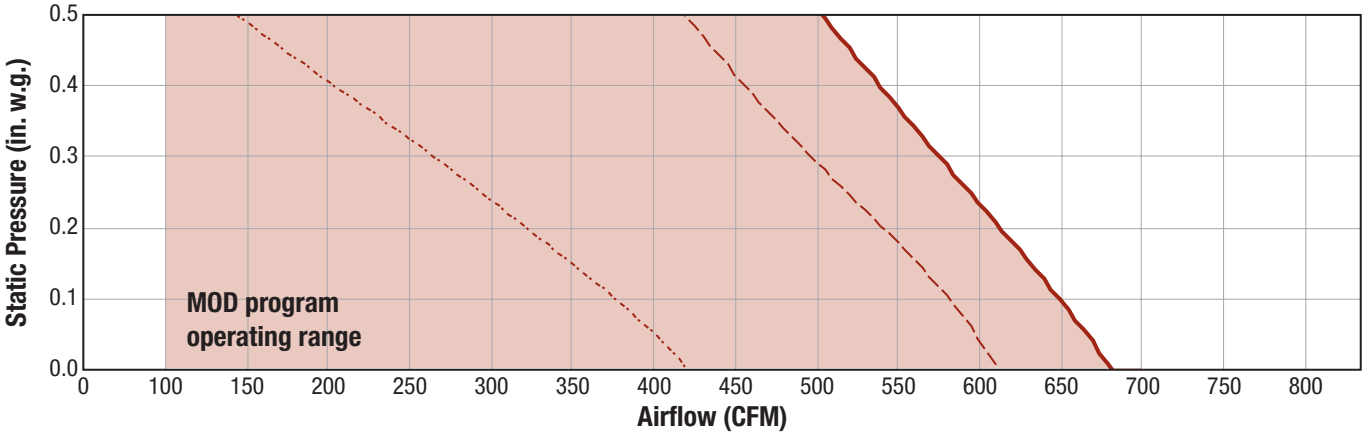
FCHP Size 8

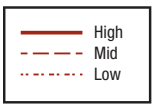


FCHC Size 8



FCHE Size 8



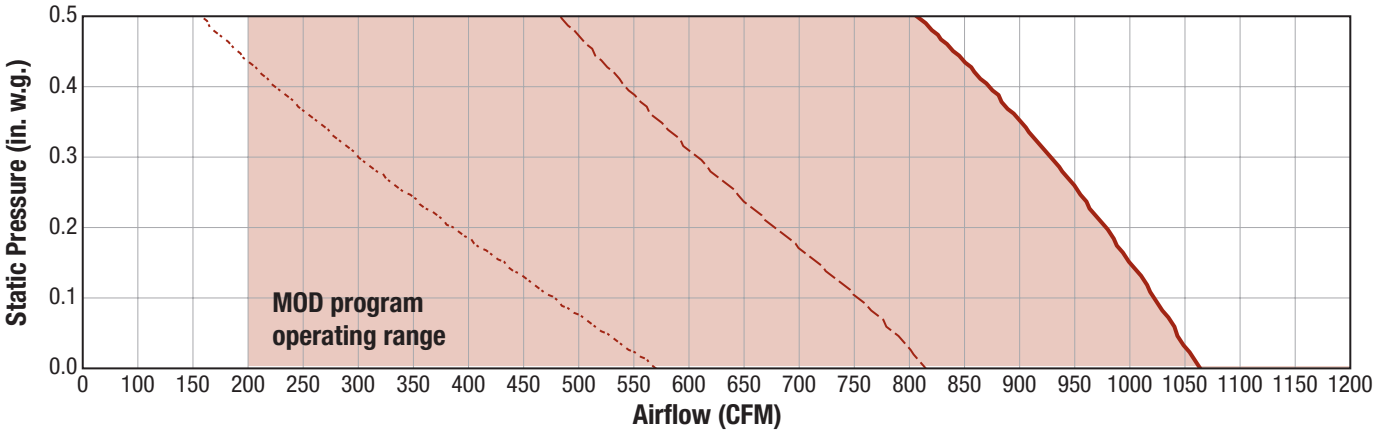


Note:
1. Airflows are based on dry coil conditions with 4 row coil.

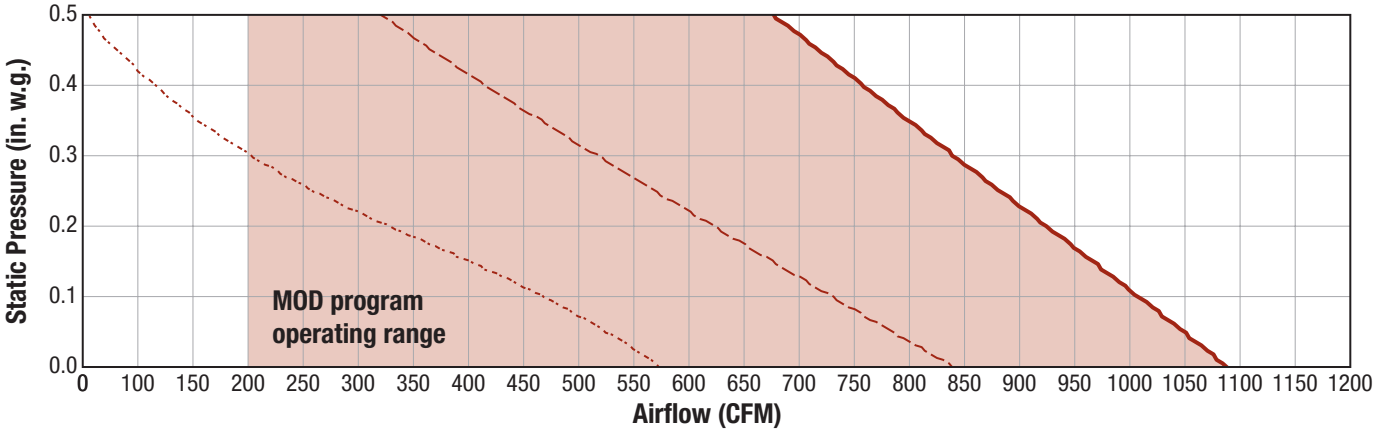
PERFORMANCE DATA

FCH - Fan Performance Curves - Unit size 10

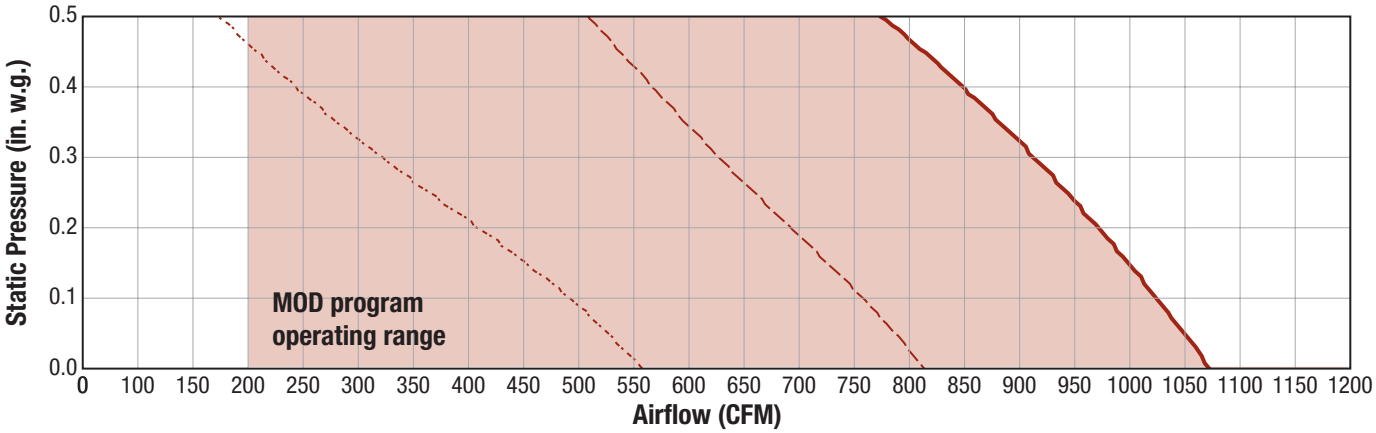
FCHP Size 10

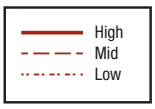


FCHC Size 10



FCHE Size 10





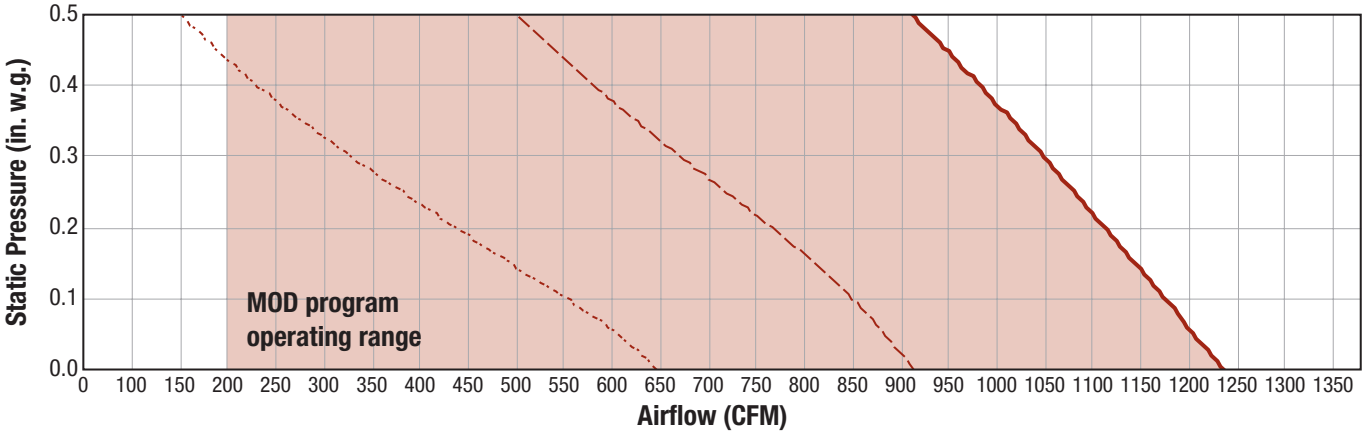
Note:

1. Airflows are based on dry coil conditions with 4 row coil.

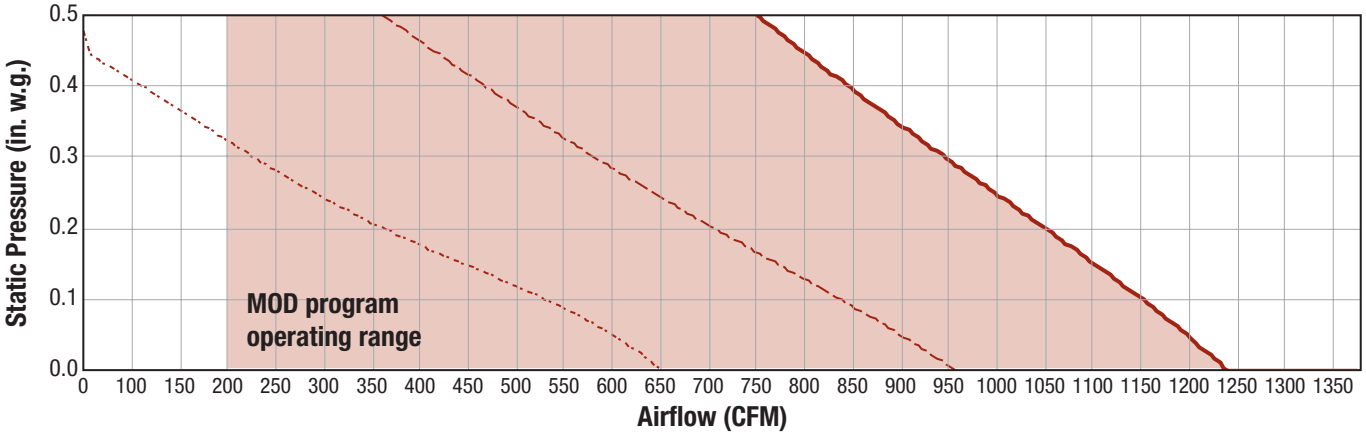
PERFORMANCE DATA

FCH - Fan Performance Curves - Unit size 12

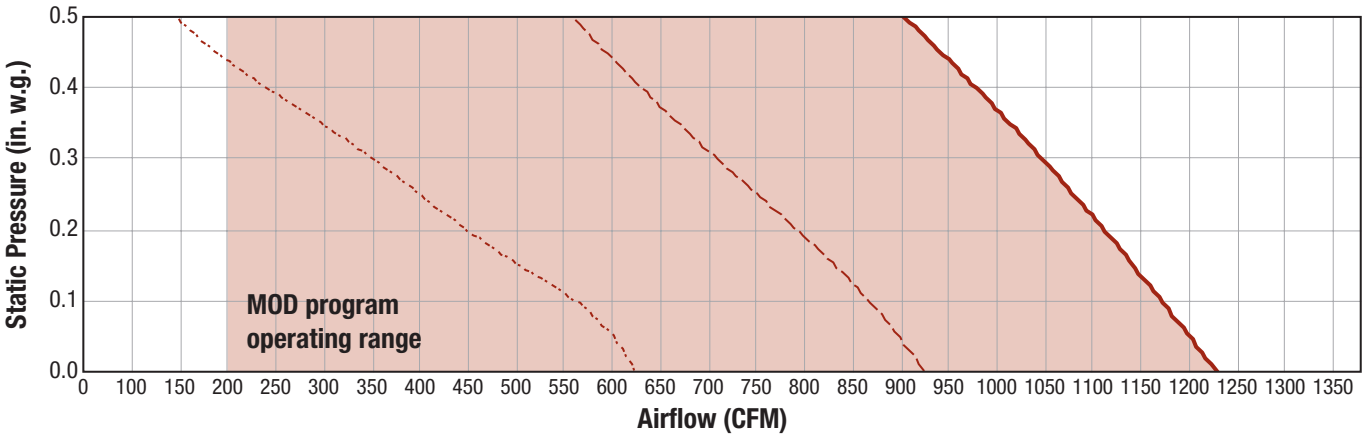
FCHP Size 12



FCHC Size 12



FCHE Size 12



High
Mid
Low

Note:
1. Airflows are based on dry coil conditions with 4 row coil.

PERFORMANCE DATA

FCH - AHRI 440 Certified Standard Ratings Data

Model	Size	Coil		Airflow		Conditions		Cooling Capacity		Flow	WPD	Power Input
		Rows	FPI	Setting	cfm	DB(°F)	WB (°F)	MBH	MBH	gpm	ft w.g.	Watts
FCHC	02	4	10	High	300	80	67	9.83	6.99	2.0	20.9	50
	03				350			10.76	7.81	2.2	2.6	55
	04				475			15.12	10.88	3.0	4.9	63
	06				600			19.77	14.10	4.0	8.5	77
	08				800			24.67	18.00	4.9	4.8	150
	10				1050			33.31	24.15	6.7	9.3	135
	12				1200			34.18	25.41	6.8	2.8	154
FCHE	02	4	10	High	300	80	67	9.83	6.99	2.0	20.9	118
	03				350			10.76	7.81	2.2	2.6	127
	04				475			15.12	10.88	3.0	4.9	154
	06				600			19.77	14.10	4.0	8.5	220
	08				667			22.02	15.69	4.4	4.0	213
	10				1050			33.31	24.15	6.7	9.3	353
	12				1200			34.18	25.41	6.8	2.8	394
FCHP	02	4	10	High	300	80	67	9.83	6.99	2.0	20.9	80
	03				350			10.76	7.81	2.2	2.6	89
	04				475			15.12	10.88	3.0	4.9	106
	06				600			19.77	14.10	4.0	8.5	140
	08				800			24.67	18.00	4.9	4.8	204
	10				1050			33.31	24.15	6.7	9.3	246
	12				1200			34.18	25.41	6.8	2.8	286

Note:

1. Cooling Capacity based on 45°F EWT & 10°F temperature rise. Airflow under dry coil conditions.
2. Motor type is ECM and motor voltage is 115/1/60.
3. FCHC and FCHP tested at 0.05" external static pressure. FCHE tested at 0.0" external static pressure.

PERFORMANCE DATA

FCH - Electrical Peformance Data

Model	Size	EC Motor		Fans	Amps			
		HP	Qty	Qty	115/1/60	208/1/60	230/1/60	277/1/60
FCHC	02	1/4	1	1	1.3	0.9	0.9	0.8
	03	1/4	1	1	1.4	1.0	1.0	0.9
	04	1/4	1	2	1.5	1.1	1.1	1.0
	06	1/4	1	2	2.0	1.4	1.4	1.2
	08	1/4	1	2	3.5	2.3	2.3	2.3
	10	1/4	2	4	3.6	2.5	2.5	2.0
	12	1/4	2	4	4.2	2.6	2.6	2.2
FCHE	02	1/4	1	1	2.1	1.7	1.7	1.7
	03	1/4	1	1	2.4	1.9	1.9	1.9
	04	1/4	1	2	2.7	1.8	1.8	1.7
	06	1/4	1	2	3.5	2.3	2.3	2.3
	08	1/4	1	2	3.5	2.3	2.3	2.3
	10	1/4	2	4	6.0	3.9	3.9	3.7
	12	1/4	2	4	7.0	4.6	4.6	4.6
FCHP	02	1/4	1	1	1.5	1.1	1.1	1.1
	03	1/4	1	1	1.6	1.2	1.2	1.1
	04	1/4	1	2	2.0	1.4	1.4	1.3
	06	1/4	1	2	2.8	2.0	2.0	1.7
	08	1/4	1	2	3.5	2.3	2.3	2.3
	10	1/4	2	4	4.8	3.4	3.4	2.8
	12	1/4	2	4	5.6	3.6	3.6	3.1

Note:
1. Test data obtained in accordance with ANSI/AHRI Standard 350-2015.
2. Sound Power levels expressed in decibels (dB) re 10^{-12} watts.
3. Sound power levels based on FCHE with 115/1/60 volt EC motor, 4 row coil, 1" MERV 8 filter, and 0.0" ESP.

PERFORMANCE DATA

FCH - Heating Coil Capacity

Rows	Size	Airflow	Connection Size	Heating Capacity MBH	LAT	Water	
						GPM	Fluid PD
1	02	300	5/8"	6.6	90.1	0.3	0.1
	03	350	5/8"	8.1	91.1	0.4	0.2
	04	475	5/8"	11.1	91.3	0.6	0.3
	06	600	5/8"	14.1	91.6	0.7	0.6
	08	800	5/8"	19.6	92.5	1.0	1.1
	10	1050	5/8"	26.9	93.6	1.4	2.3
	12	1200	5/8"	31.6	94.3	1.6	3.2
2	02	300	5/8"	15.6	117.6	0.8	1.2
	03	350	5/8"	18.8	119.3	0.9	1.7
	04	475	5/8"	26.4	121.2	1.4	0.4
	06	600	5/8"	34.1	122.4	1.8	0.7
	08	800	5/8"	45.8	122.8	2.4	1.3
	10	1050	5/8"	62.5	124.9	3.2	2.6
	12	1200	5/8"	73.4	126.5	3.8	3.8

Note:
1. Heating Capacity based on 180°F EWT, 40°F water temperature drop, 70°F EAT, and nominal high airflow.

PERFORMANCE DATA

FCHP - Ducted Discharge Sound Power Levels

Unit Size	Fan Speed	cfm	Sound Power Levels, Lw, dB re 10^{-12} Watts						
			Fan Only Octave Band						
			2	3	4	5	6	7	8
2	High	290	66	58	57	54	51	44	37
	Medium	240	63	55	54	50	46	40	33
	Low	190	58	51	50	45	41	34	27
3	High	350	62	57	56	54	51	45	38
	Medium	260	57	52	51	48	45	38	32
	Low	170	51	46	45	41	37	28	26
4	High	485	65	60	61	58	55	48	41
	Medium	350	59	54	55	51	47	40	32
	Low	230	52	48	49	44	39	30	21
6	High	630	64	60	59	57	55	48	41
	Medium	420	58	53	53	49	46	38	31
	Low	240	50	46	45	40	35	26	18
8	High	800	65	62	62	59	57	51	45
	Medium	540	59	56	56	52	49	42	35
	Low	270	51	48	47	43	38	29	20
10	High	1030	64	63	63	61	59	53	48
	Medium	750	59	57	57	55	52	45	39
	Low	460	52	50	50	46	42	34	27
12	High	1250	64	61	62	59	56	50	43
	Medium	900	57	55	56	52	48	41	33
	Low	520	49	47	47	42	37	27	19

Performance Notes:

1. Test data obtained in accordance with ANSI/AHRI Standard 260-2012.
2. Sound power levels expressed in decibels (dB) re 10^{-12} watts.
3. Sound power levels based on FCH-CP with 115/160 volt ECM motor, 4 row coils, 0.05 in. ESP.
4. No duct end correction.

PERFORMANCE DATA

FCHP - Casing Radiated Free Inlet Sound Power Levels

Unit Size	Fan Speed	cfm	Sound Power Levels, Lw, dB re 10^{-12} Watts						
			Fan Only Octave Band						
			2	3	4	5	6	7	8
2	High	290	59	57	57	53	48	40	33
	Medium	240	55	54	54	49	43	35	30
	Low	190	51	50	50	45	38	29	26
3	High	350	56	57	56	52	47	40	36
	Medium	260	51	52	52	48	41	34	32
	Low	170	46	47	47	41	33	26	27
4	High	485	61	58	59	55	49	41	36
	Medium	350	55	53	54	49	42	34	28
	Low	230	48	47	49	43	34	26	19
6	High	630	61	59	60	55	49	43	38
	Medium	420	55	53	53	47	41	34	29
	Low	240	47	45	46	38	31	24	18
8	High	800	65	63	61	57	53	48	43
	Medium	540	59	57	56	50	44	38	33
	Low	270	50	48	48	40	33	25	19
10	High	1030	64	63	63	58	54	49	44
	Medium	750	59	57	58	52	47	40	37
	Low	460	51	50	51	44	37	29	27
12	High	1250	63	62	62	57	53	46	42
	Medium	900	57	56	56	51	45	38	33
	Low	520	48	48	48	41	34	25	18

Performance Notes:

1. Test data obtained in accordance with ANSI/AHRI Standard 260-2012.
2. Sound power levels expressed in decibels (dB) re 10^{-12} watts.
3. Sound power levels based on FCH-CP with 115/160 volt ECM motor, 4 row coils, 0.05 in. ESP.
4. No duct end correction.

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