

FHP

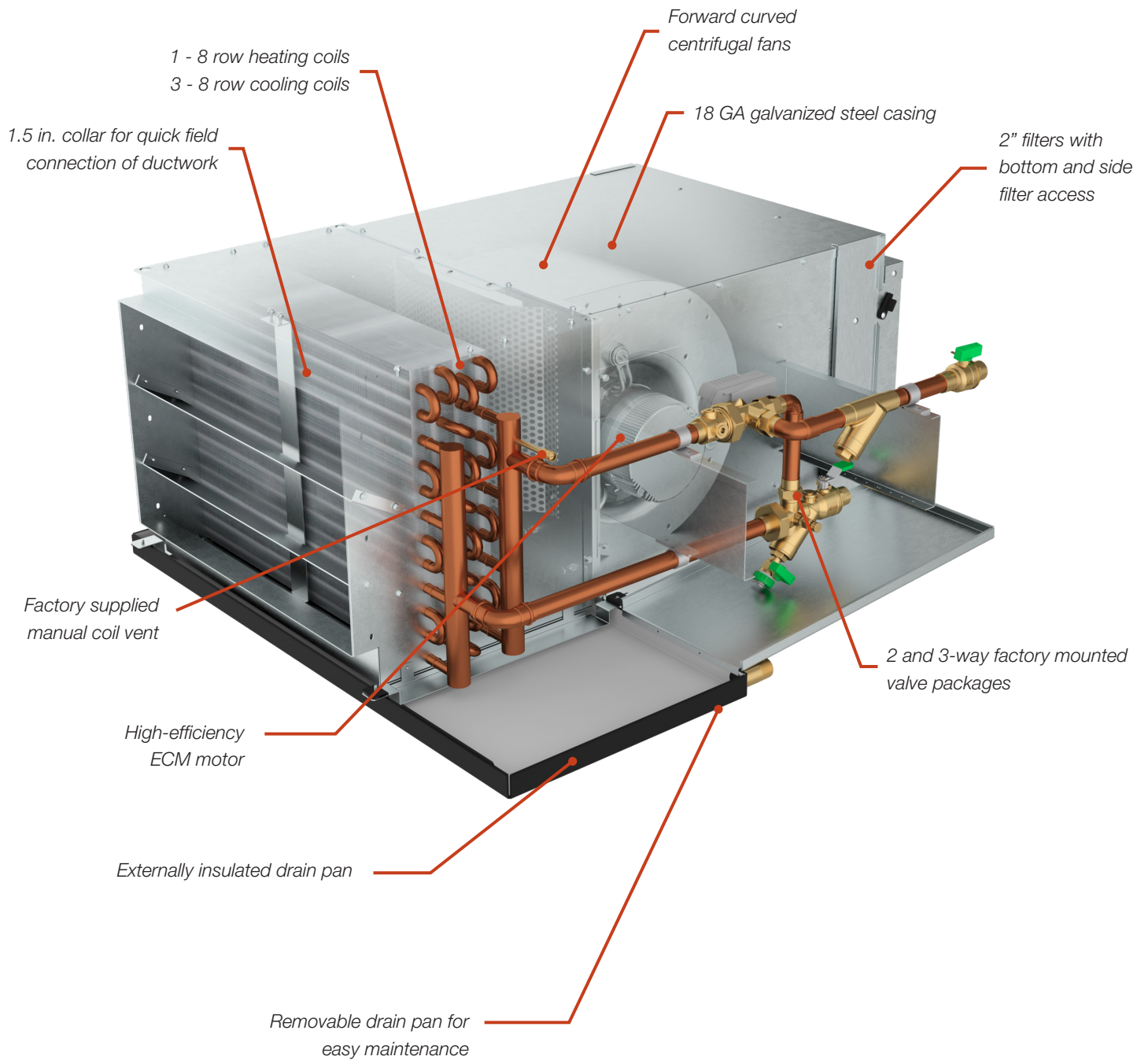
HORIZONTAL HIGH PERFORMANCE FAN COIL



FHP

Horizontal High Performance Fan Coil

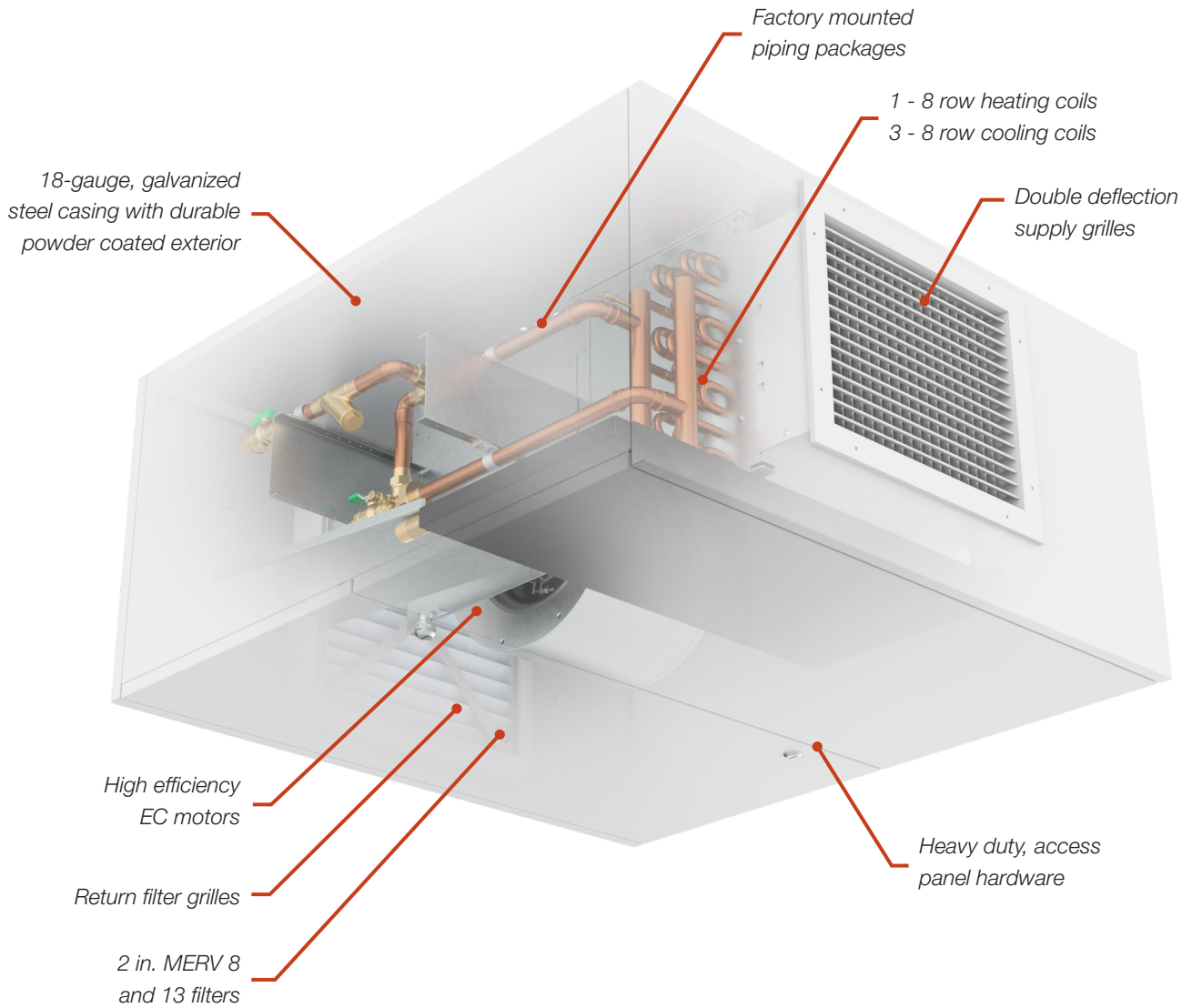
FHPP UNIT



FHP

Horizontal High Performance Fan Coil

FHPE UNIT



VERSATILITY

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



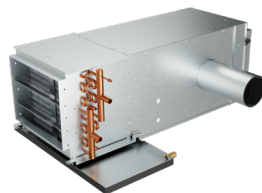
FHPP



FHPE



FHPP SP300



FHPP Aldes FAI

PERFORMANCE

- + AHRI 440 certification ensures each unit will deliver on airflow, cooling capacity, and energy efficiency
- + FHP water coils are AHRI 410 certified and ensures that the unit will meet the cooling demands across a broad spectrum of conditions
- + FHP units are tested to either AHRI 260 or 350 to ensure accurate and quiet experience at any operating condition
- + EC motors with modulating controls provide the ultimate in combination of turndown capabilities and motor control options
- + FHP utilizes EC motors with high turndown capabilities meets local energy codes to allow for quiet, continuous operation during nighttime setback

INDOOR AIR QUALITY

- + 2 fresh air inlets options: Price SP300 airflow measuring sensor with local damper control or the new constant airflow regulator that does not require local damper control and automatically adjusts to always provide a constant supply of fresh air
- + The 2" MERV 8 and 13 options offer improved energy efficiency regardless of a building's different filtration needs
- + Standard filter sizes simplifies filter replacement
- + FHPP units come standard with tool-free bottom and side filter access to accommodate all tight service access requirements
- + FHPE units come standard with a return filter grille to simplify filter maintenance
- + Spare filters available to ensure filter supply is never a concern

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 heating or cooling coil: 3, 4, 6, or 8 rows
 - 4 pipe system: 3, 4, 6, or 8 rows cooling and 1-2 rows heating, maximum 10 rows

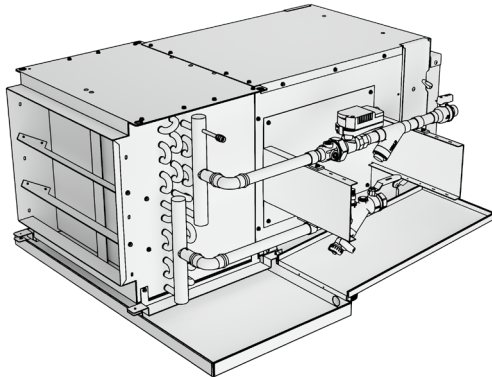
PIPING PACKAGES

- 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

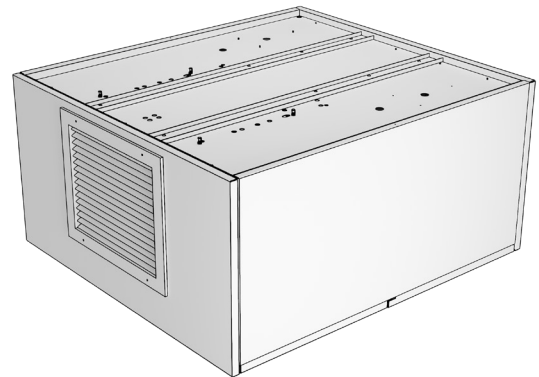
STANDARD & OPTIONAL FEATURES

	Standard Features	Optional Features
Plenum Unit Construction	<ul style="list-style-type: none"> + 1 ½" 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 	<ul style="list-style-type: none"> + Bottom return + ½" fiber-free insulation
Exposed Unit Construction	<ul style="list-style-type: none"> + 18 gauge painted steel exterior cabinet + Quick access bottom panel with heavy duty latches + Double Deflection Supply Grilles and Filter Return Grilles 	<ul style="list-style-type: none"> + Bottom return
Performance	<ul style="list-style-type: none"> + AHRI 440 certified + AHRI 260 and 350 sound performance + AHRI 410 certified water coils 	
Electrical	<ul style="list-style-type: none"> + Electrical enclosure with side access opposite of coil handing + Line voltage to 24V control transformer + ETL listed 	<ul style="list-style-type: none"> + 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	<ul style="list-style-type: none"> + Optimized, large diameter, DWDI forward curve fans + 115, 208, 240, or 277V, high efficiency EC motors + Modulating EC motor speed control 	
Water Coils	<ul style="list-style-type: none"> + ½" heavy duty, copper tubes with 10 FPI aluminum fins + 10 total, combined rows maximum <ul style="list-style-type: none"> - Cooling or Heating – 3, 4, 6 or 8 rows - Preheat or Reheat – 3 4, 6 or 8 rows cooling, and 1, 2 rows heating + Preheat or reheat configurations + Same and opposite side 4-pipe configurations + Manual air vents 	
Drain Pans	<ul style="list-style-type: none"> + Dual-sloped galvanized steel drain pan 	<ul style="list-style-type: none"> + Stainless steel with external insulation + Secondary overflow drain + Auxiliary drip pan
Indoor Air Quality	<ul style="list-style-type: none"> + 2" MERV 8 filters + Tool-free filter access 	<ul style="list-style-type: none"> + 2" MERV 13 filters + Spare 2" filters
Valve Packages		<ul style="list-style-type: none"> + 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



FHPP



FHPE

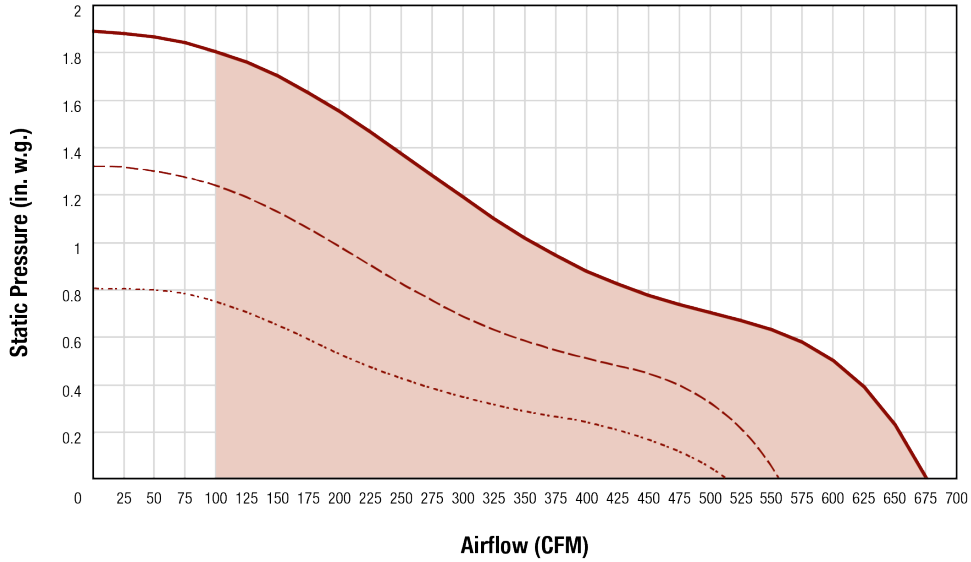
Model	Size	Width (W)	Height (H)	Length (L)	
				Cooling or Heating Only	Preheat or Reheat
FHPP (Rear Return)	06	16 in. (406 mm)	14 ¼ in. (362 mm)	33 5/8 in. (855 mm)	38 5/8 in. (981 mm)
	08	20 in. (508 mm)			
	10	24 in. (610 mm)			
	12	32 in. (813 mm)			
	16	40 in. (1016 mm)	18 ½ in. (470 mm)		
	18	32 in. (813 mm)			
	20	48 in. (1219 mm)			
	26	48 in. (1219 mm)			
FHPP (Bottom Return)	06	16 in. (406 mm)	19 7/8 in. (505 mm)	32 ¼ in. (819 mm)	37 ¼ in. (946 mm)
	08	20 in. (508 mm)			
	10	24 in. (610 mm)			
	12	32 in. (813 mm)			
	16	40 in. (1016 mm)	24 7/8 in. (632 mm)		
	18	32 in. (813 mm)			
	20	48 in. (1219 mm)			
	26	48 in. (1219 mm)			
FHPE	06	38 in. (965 mm)	20 ¼ in. (514 mm)	42 1/8 in. (1070 mm)	
	08	42 in. (1067 mm)			
	10	46 in. (1168 mm)			
	12	54 in. (1372 mm)			
	16	62 in. (1575 mm)	25 ¼ in. (641 mm)		
	18	54 in. (1372 mm)			
	20	70 in. (1778 mm)			
	26	70 in. (1778 mm)			

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

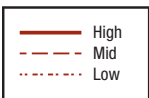
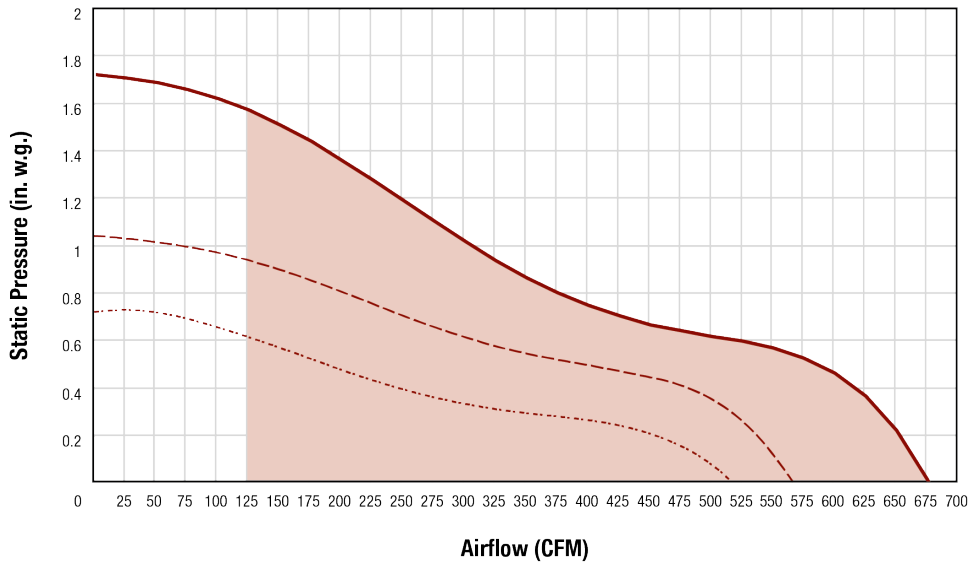
PERFORMANCE DATA

FHP - Fan Performance Curves - Unit Size 06

FHPP Size 6



FHPE Size 6

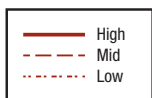
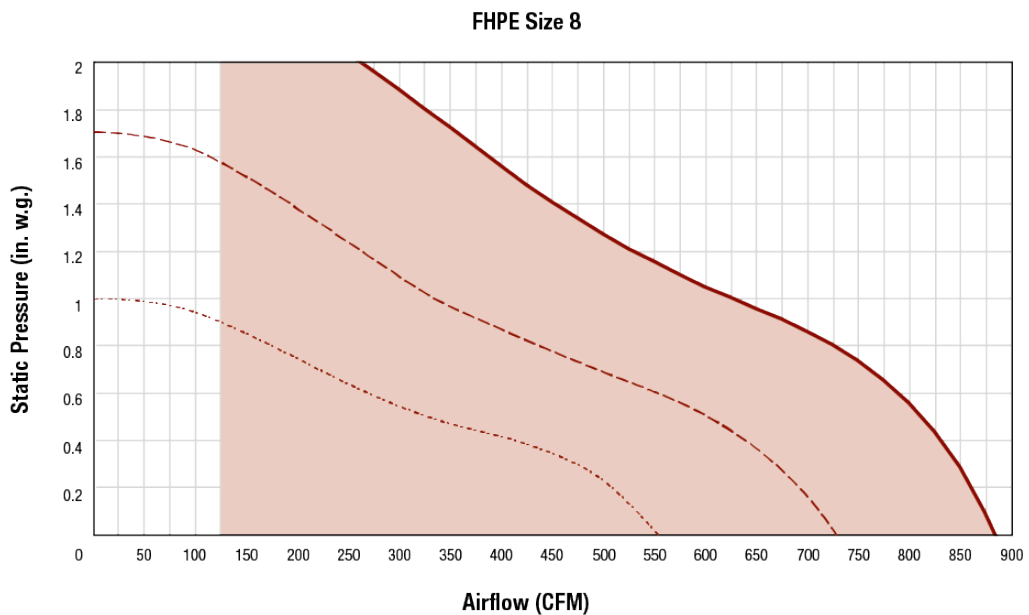
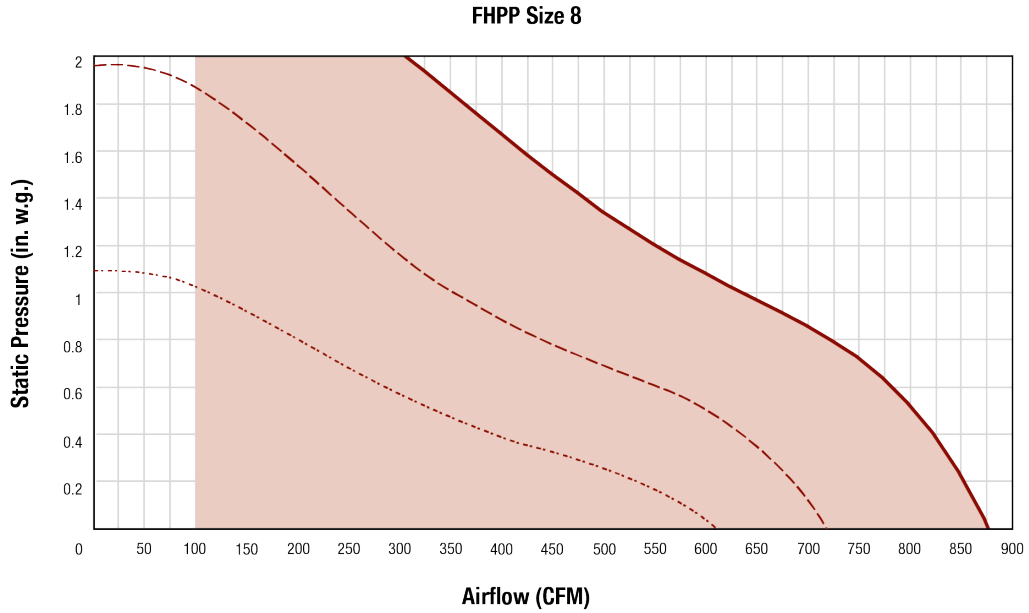


Note:

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

PERFORMANCE DATA

FHP - Fan Performance Curves - Unit size 08



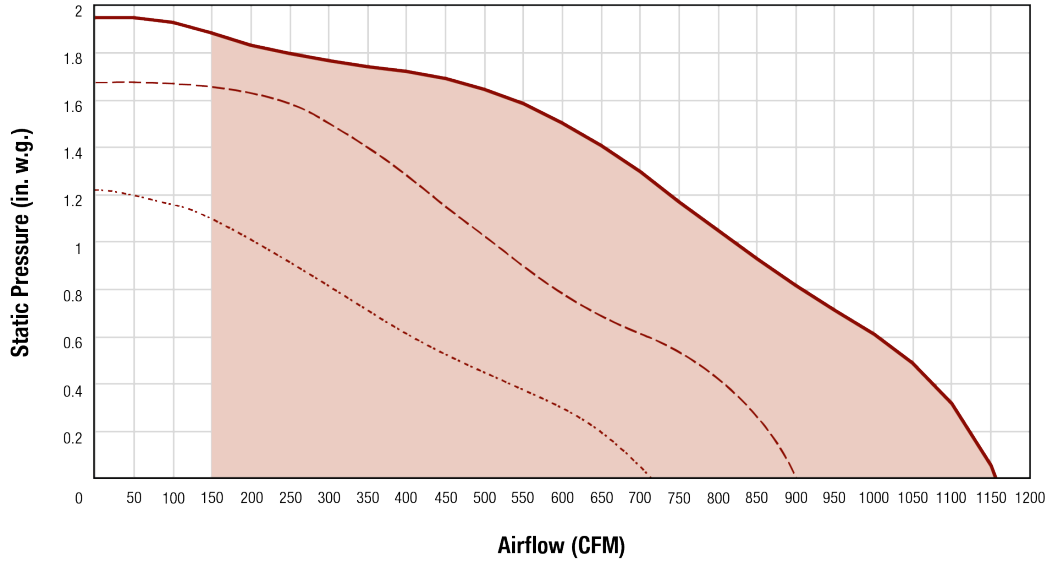
Note:

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

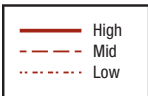
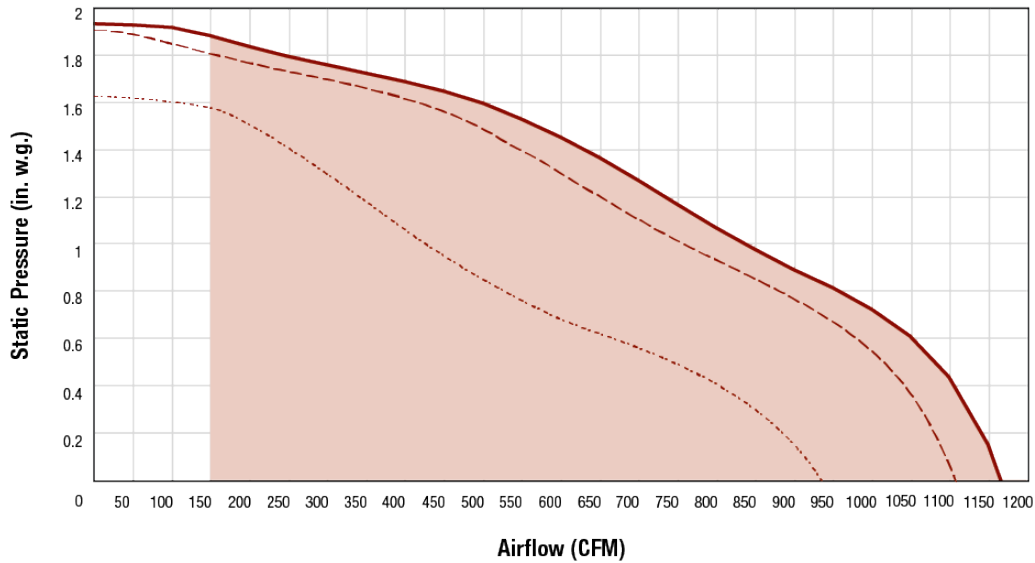
PERFORMANCE DATA

FHP - Fan Performance Curves - Unit size 10

FHPP Size 10



FHPE Size 10

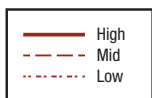
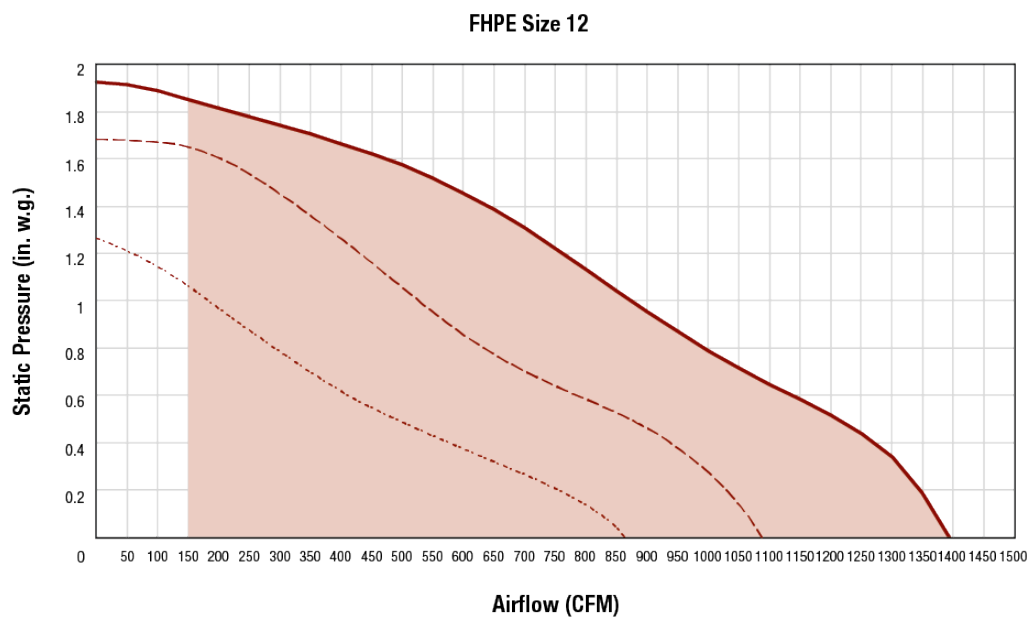
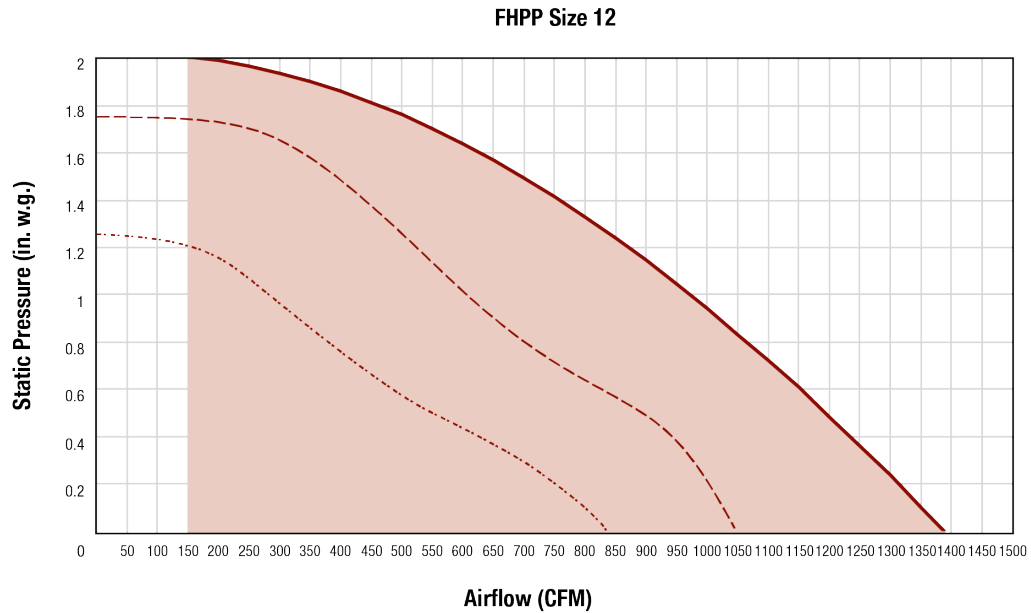


Note:

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

PERFORMANCE DATA

FHP - Fan Performance Curves - Unit size 12



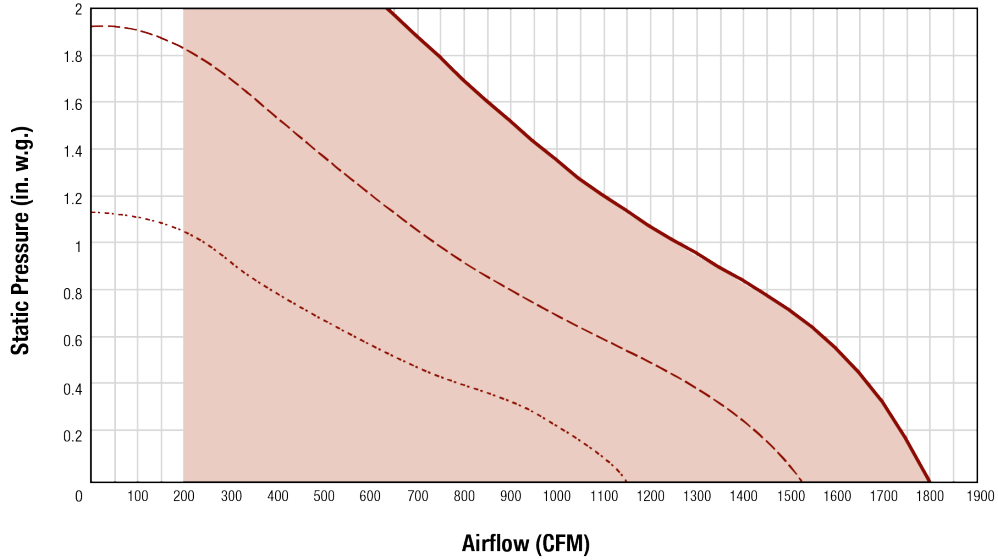
Note:

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

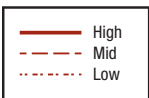
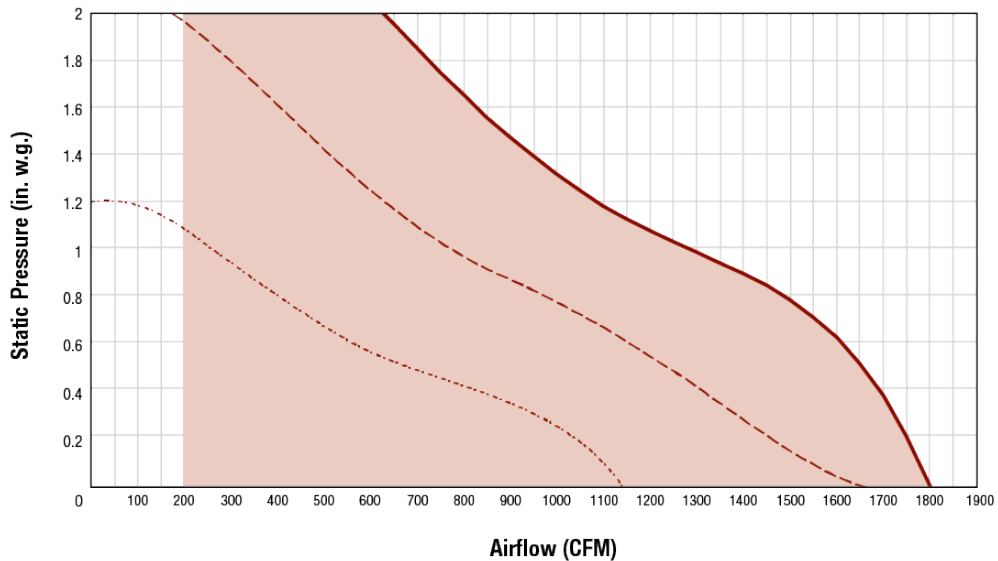
PERFORMANCE DATA

FHP - Fan Performance Curves - Unit size 16

FHPP Size 16



FHPE Size 16

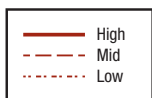
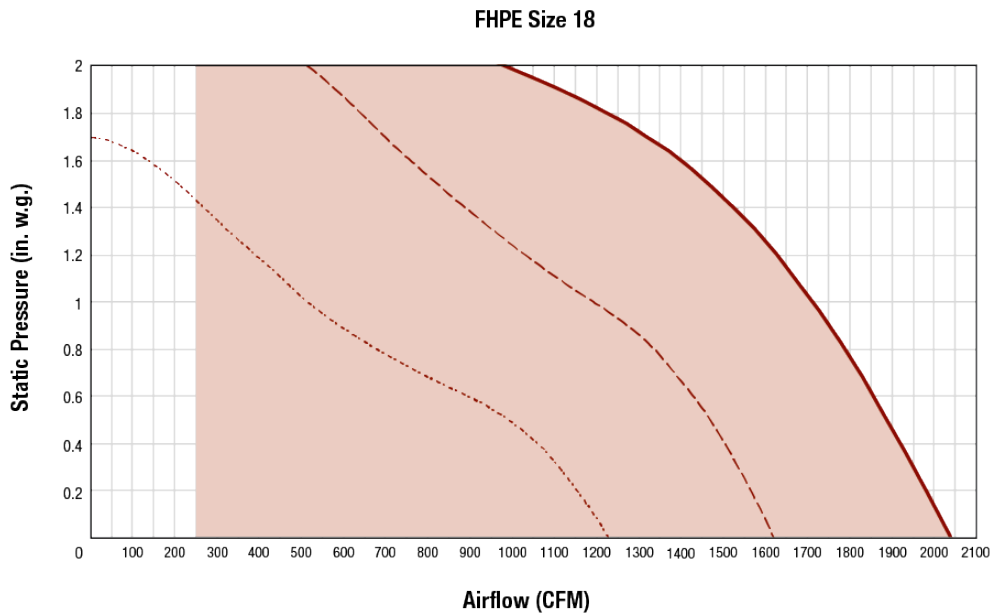
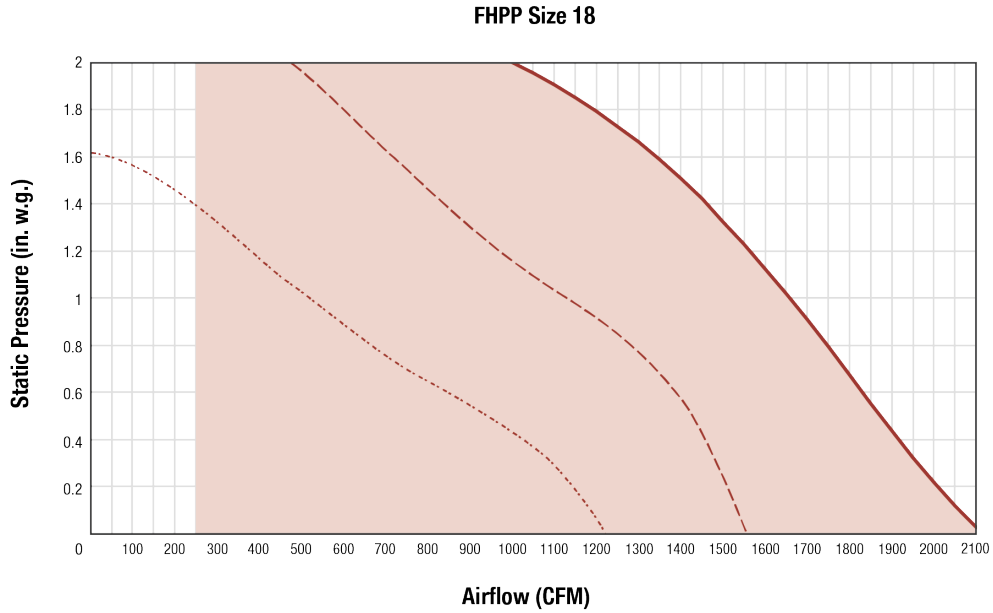


Note:

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

PERFORMANCE DATA

FHP - Fan Performance Curves - Unit size 18



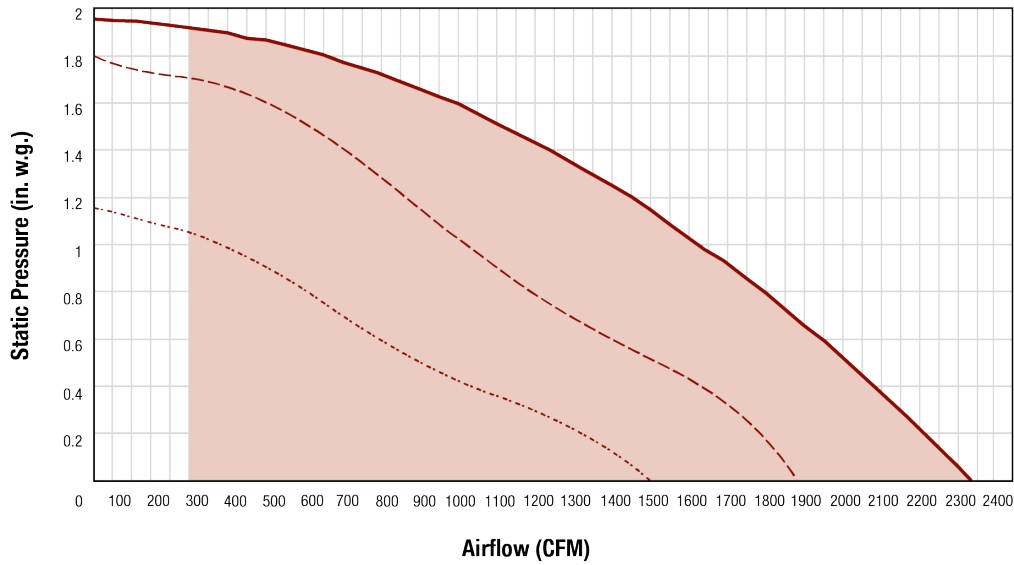
Note:

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

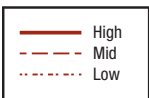
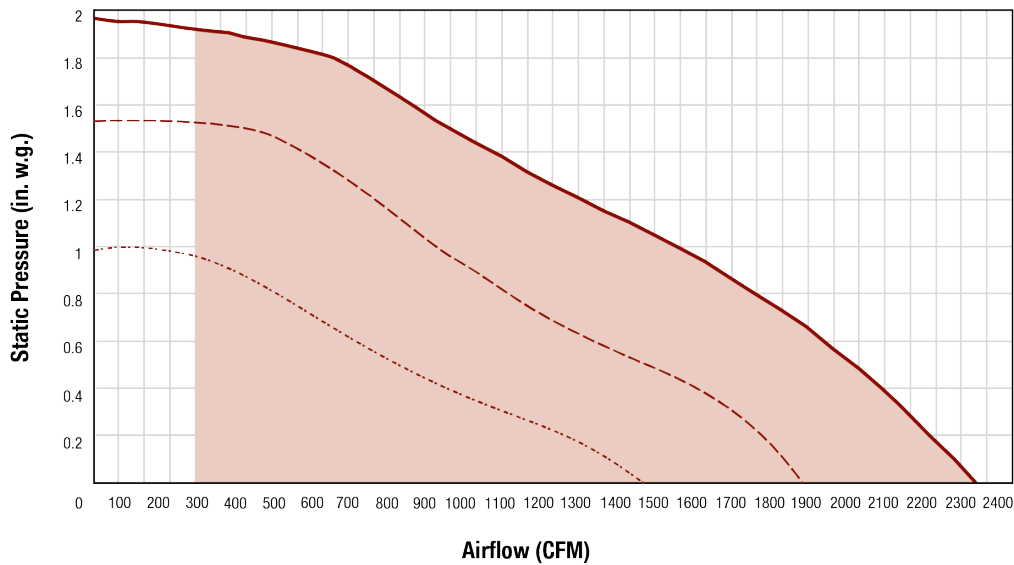
PERFORMANCE DATA

FHP - Fan Performance Curves - Unit size 20

FHPP Size 20



FHPE Size 20

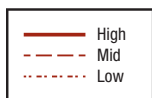
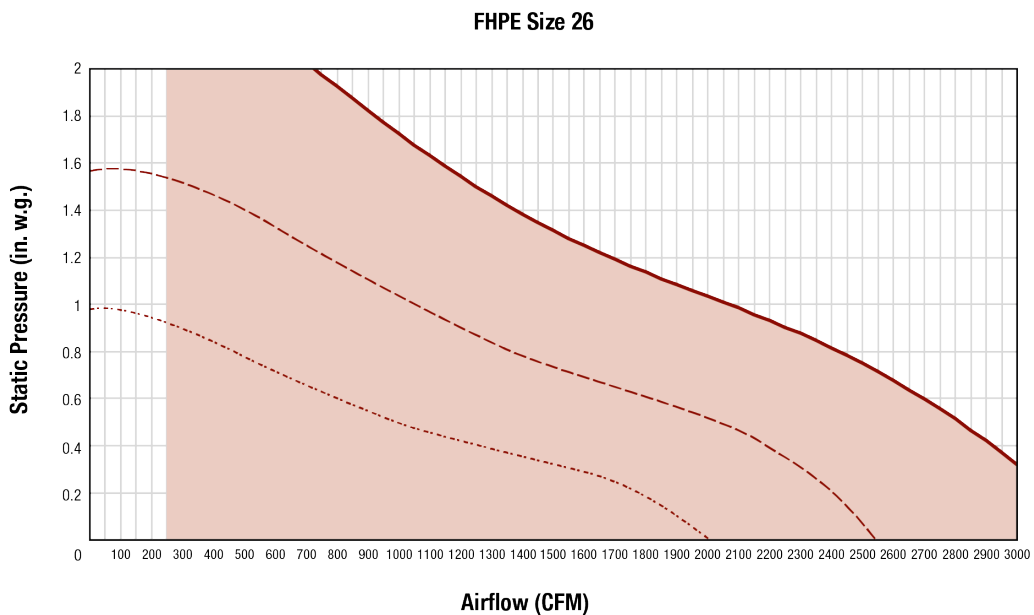
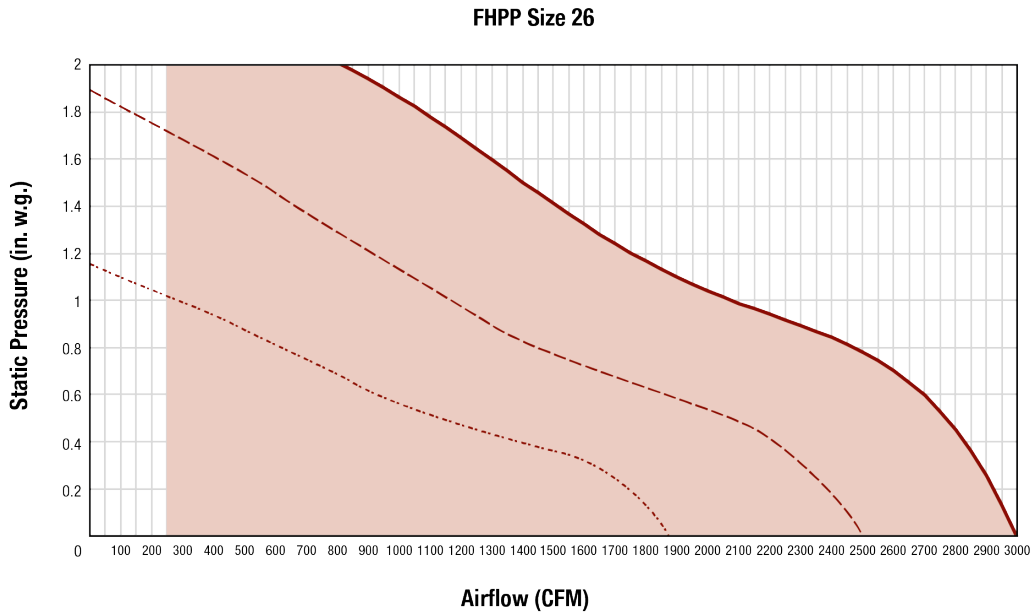


Note:

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

PERFORMANCE DATA

FHP - Fan Performance Curves - Unit size 26



Note:

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

PERFORMANCE DATA

FHP - AHRI 440 Certified Standard Ratings Data

Model	Size	Coil		Airflow, cfm		High/80/67				High/75/63				Power, Watts	
		Rows	FPI	High	Medium	TMBH	SMBH	Flow (GPM)	WPD (ft. w.g.)	TMBH	SMBH	Flow (GPM)	WPD (ft. w.g.)	High	Medium
FHPP	6	4	10	600	480	17908	13094	3.58	9.43	12365	10721	2.47	4.89	117	73
	8			800	640	25004	18047	4.99	18.14	17338	14803	3.47	9.52	186	102
	10			1000	800	28843	21841	5.75	3.92	20893	18405	4.16	2.21	247	139
	12			1200	960	39714	29024	7.93	16.31	27580	23811	5.51	8.55	291	160
	16			1600	1280	50810	38605	10.13	13.04	35442	31744	7.09	6.92	345	207
	18			1800	1440	47122	38635	9.43	13.63	32948	31728	6.57	7.19	561	301
	20			2000	1600	60842	45618	12.14	7.65	42407	37537	8.47	4.04	465	271
	26			2600	2075	67750	56258	13.51	7.07	47567	46404	9.51	3.80	668	371
FHPE	6	4	10	600	480	17980	13094	3.58	9.43	12365	10721	2.47	4.89	128	81
	8			800	640	25004	18047	4.99	18.14	17338	14803	3.47	9.52	204	113
	10			1000	800	28843	21841	5.75	3.92	20893	18405	4.16	2.21	236	135
	12			1200	960	39714	29024	7.93	16.31	27580	23811	5.51	8.55	319	180
	16			1600	1280	50810	38605	10.13	13.04	35442	31744	7.09	6.92	379	230
	18			1800	1440	47122	38635	9.43	13.63	32948	31728	6.57	7.19	660	348
	20			2000	1600	60842	45618	12.14	7.65	42407	37537	8.47	4.04	510	304
	26			2600	2075	67750	56258	13.51	7.07	47567	46404	9.51	3.80	698	381

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. FHPP and FHPE tested at 0.05" external static pressure.

FHP

Horizontal High Performance Fan Coil

PERFORMANCE DATA

FHP - Electrical Performance Data

Model	Size	EC Motor		Fans	Amps			
		HP	Qty	Qty	115/1/60	208/1/60	240/1/60	277/1/60
FHPP	06	1/3	1	1	3.7	2.0	2.0	1.9
	08	1/3	1	1	5.0	2.8	2.8	2.6
	10	1/2	1	1	5.4	3.0	3.0	2.9
	12	1/2	1	1	6.6	3.7	3.7	3.5
	16	1/3	2	2	10.0	5.6	5.6	5.2
	18	3/4	1	1	9.6	6.8	6.8	5.5
	20	1/2	2	2	10.3	5.8	5.8	5.5
	26	3/4	2	2	13.6	9.6	9.6	7.8
FHPE	06	1/3	1	1	5.0	2.8	2.8	2.6
	08	1/3	1	1	5.0	2.8	2.8	2.6
	10	1/2	1	1	5.3	2.9	2.9	2.8
	12	1/2	1	1	6.9	3.9	3.9	3.7
	16	1/3	2	2	10.0	5.3	5.3	5.2
	18	3/4	1	1	9.6	6.8	6.8	5.5
	20	1/2	2	2	11.3	6.3	6.3	6.0
	26	3/4	2	2	12.2	8.7	8.7	7.0

PERFORMANCE DATA

FHP - Heating Coil Capacity

Rows	Size	Airflow	Connection Size	Heating Capacity (MBH)	LAT	Water	
						GPM	Fluid PD
1	6	600	0.875	11.1	86.9	0.57	0.07
	8	800	0.875	15.0	87.2	0.77	0.13
	10	1000	0.875	17.2	89.8	0.88	0.18
	12	1200	0.875	24.2	88.5	1.24	0.37
	16	1600	0.875	30.9	87.8	1.59	0.63
	18	1800	0.875	25.0	82.8	1.29	0.51
	20	2000	0.875	39.1	88.0	2.01	1.06
2	26	2600	0.875	39.9	84.2	2.05	1.42
	6	600	0.875	28.0	113.0	1.44	0.69
	8	800	0.875	37.3	113.0	1.92	1.24
	10	1000	0.875	41.7	118.1	2.14	1.62
	12	1200	0.875	59.3	115.6	3.05	3.45
	16	1600	0.875	76.6	114.2	3.94	6.11
	18	1800	0.875	69.4	105.6	3.57	2.10
	20	2000	0.875	96.3	114.4	4.96	10.18
26	2600	0.875	108.3	108.5	5.58	5.70	

Note:

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

PERFORMANCE DATA

FHPP - Ducted Discharge Sound Power Levels

Unit Size	Fan Speed	cfm	Sound Power Levels, Lw, dB re 10 ⁻¹² Watts							
			Fan Only Octave Band							
			63	125	250	500	1000	2000	4000	8000
			1	2	3	4	5	6	7	8
6	High	600	71	67	65	61	61	57	52	42
	Medium	450	67	63	60	57	56	52	45	36
	Low	360	65	59	57	53	52	47	40	32
8	High	800	72	69	67	63	62	59	55	44
	Medium	640	68	65	63	59	59	55	50	39
	Low	480	65	61	59	55	54	50	43	34
10	High	1000	73	71	69	64	64	61	57	46
	Medium	800	69	67	65	60	60	57	52	41
	Low	600	65	62	60	56	55	51	45	35
12	High	1200	71	70	70	65	66	62	59	50
	Medium	960	69	66	65	61	61	58	54	43
	Low	720	66	63	61	57	56	52	46	36
16	High	1600	69	70	70	66	67	63	59	49
	Medium	1280	67	68	66	63	63	59	54	43
	Low	960	65	65	61	59	58	54	47	36
18	High	1800	74	77	72	67	69	65	63	56
	Medium	1440	72	73	68	63	65	61	58	49
	Low	1080	70	69	62	59	60	56	52	42
20	High	2000	75	71	71	67	67	64	60	51
	Medium	1600	72	69	67	63	63	60	55	44
	Low	1200	69	66	63	59	57	54	49	37
26	High	2600	73	74	69	65	66	63	59	49
	Medium	2080	70	69	65	62	62	58	54	42
	Low	1560	66	64	60	57	56	52	47	36

Performance Notes:

1. Test data obtained in accordance with ANSI/AHRI Standard 260-2017.
2. Sound power levels expressed in decibels (dB) re 10⁻¹² watts.
3. Sound power levels based on FHPP with 277/1/60 volt ECM motor, 4 row coils, Merv8 filter, and 0.05 in. ESP.

PERFORMANCE DATA

FHPP - Inlet Sound Power Levels

Unit Size	Fan Speed	cfm	Sound Power Levels, Lw, dB re 10 ⁻¹² Watts							
			Fan Only Octave Band							
			63	125	250	500	1000	2000	4000	8000
			1	2	3	4	5	6	7	8
6	High	600	69	69	66	63	62	54	45	39
	Medium	450	67	65	62	60	57	49	39	33
	Low	360	66	62	59	57	54	45	34	29
8	High	800	68	70	68	64	63	56	48	42
	Medium	640	66	67	64	62	60	52	43	37
	Low	480	66	63	60	58	55	47	37	31
10	High	1000	71	72	67	63	62	57	49	43
	Medium	800	67	68	63	60	58	53	44	38
	Low	600	64	63	59	56	54	47	37	32
12	High	1200	70	72	69	62	61	56	50	44
	Medium	960	68	68	64	58	57	51	45	39
	Low	720	65	63	59	54	51	46	38	33
16	High	1600	67	71	68	65	65	59	51	45
	Medium	1280	65	67	64	63	62	55	46	39
	Low	960	62	63	60	60	57	50	39	33
18	High	1800	75	77	71	64	65	61	55	50
	Medium	1440	73	74	67	61	62	58	50	45
	Low	1080	71	69	62	57	58	52	44	38
20	High	2000	71	74	70	64	63	58	51	45
	Medium	1600	67	70	65	61	59	54	46	39
	Low	1200	64	65	60	57	54	48	39	33
26	High	2600	71	73	67	63	63	58	50	44
	Medium	2080	68	69	63	59	59	54	44	39
	Low	1560	65	64	58	55	54	48	38	34

Performance Notes:

1. Test data obtained in accordance with ANSI/AHRI Standard 260-2017.
2. Sound power levels expressed in decibels (dB) re 10⁻¹² watts.
3. Sound power level based on FHPP with 277/1/60 volt ECM motor, 4 row coils, Merv8 filter, and 0.05 in. ESP.

PERFORMANCE DATA

FHPP - Casing Radiated Sound Power Levels

Unit Size	Fan Speed	cfm	Sound Power Levels, Lw, dB re 10 ⁻¹² Watts							
			Fan Only Octave Band							
			63	125	250	500	1000	2000	4000	8000
			1	2	3	4	5	6	7	8
6	High	600	66	62	56	55	52	46	39	34
	Medium	450	62	57	52	52	47	41	33	29
	Low	360	59	54	49	48	44	37	29	26
8	High	800	62	64	59	60	57	50	41	34
	Medium	640	60	61	55	57	53	45	36	30
	Low	480	58	57	51	53	47	39	31	26
10	High	1000	68	65	60	57	55	49	42	36
	Medium	800	65	61	56	54	51	45	37	32
	Low	600	60	56	51	50	46	39	31	27
12	High	1200	66	64	61	58	57	51	44	36
	Medium	960	64	60	57	55	53	45	38	32
	Low	720	61	56	52	51	47	39	32	27
16	High	1600	68	66	62	58	56	50	42	35
	Medium	1280	64	62	58	55	52	46	38	31
	Low	960	61	57	53	51	47	40	31	26
18	High	1800	66	67	63	56	55	50	42	34
	Medium	1440	65	64	59	53	52	46	38	30
	Low	1080	63	60	54	49	47	41	32	26
20	High	2000	72	67	63	59	57	52	44	37
	Medium	1600	69	64	59	56	53	47	39	33
	Low	1200	65	60	55	53	48	42	33	28
26	High	2600	68	67	64	59	57	51	43	34
	Medium	2080	64	63	60	55	53	46	38	30
	Low	1560	60	58	55	51	47	40	31	25

Performance Notes:

1. Test data obtained in accordance with ANSI/AHRI Standard 260-2017.
2. Sound power levels expressed in decibels (dB) re 10⁻¹² watts.
3. Sound power levels based on FHPP with 277/1/60 volt ECM motor, 4 row coils, Merv8 filter, and 0.05 in. ESP.



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