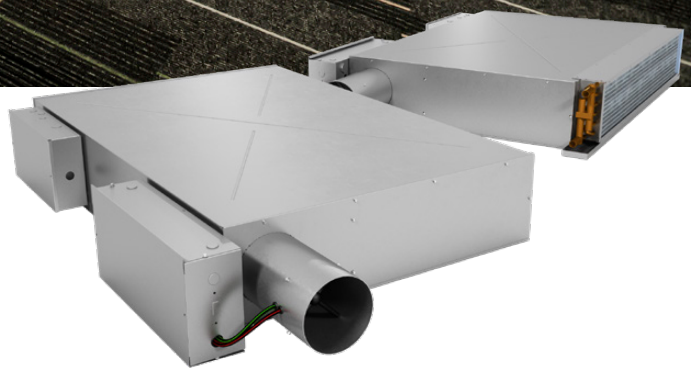
FDCLP2

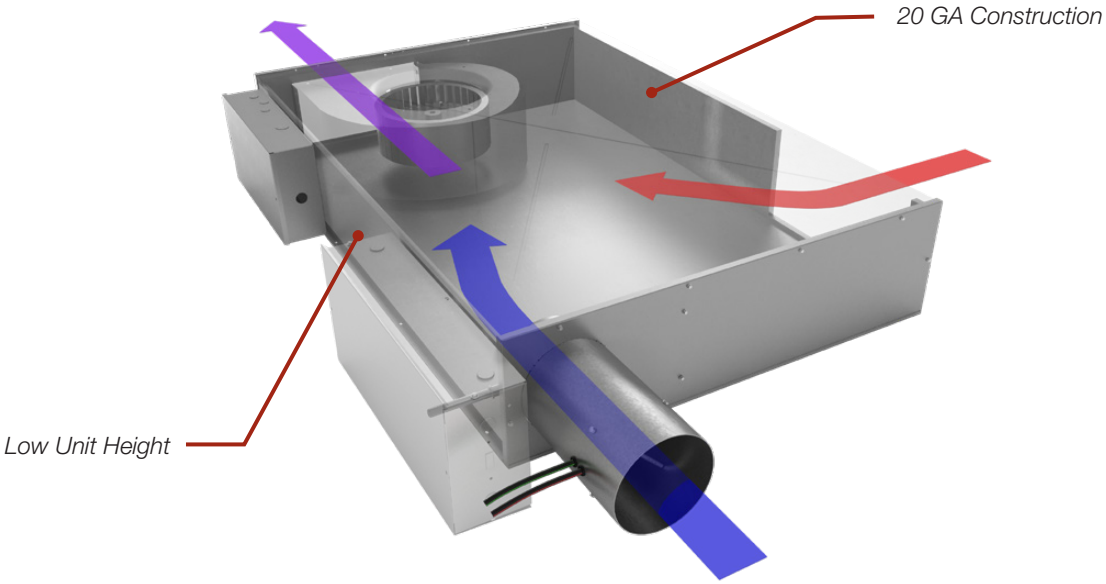
LOW PROFILE, SERIES FLOW FAN POWERED TERMINAL UNIT



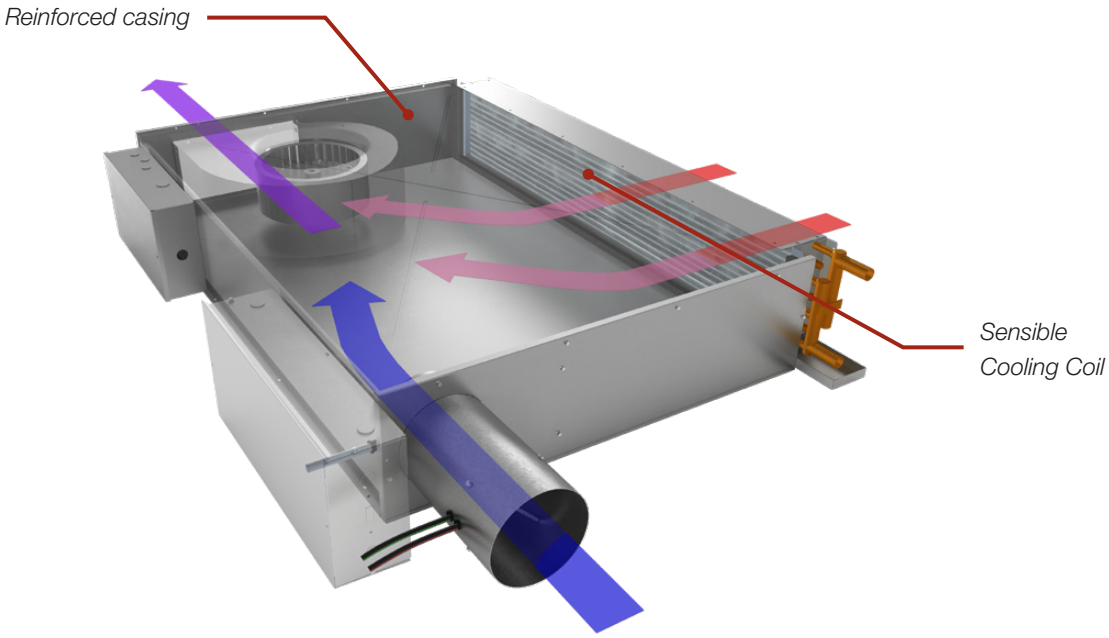
price | TERMINAL UNITS

FDCLP2
Low Profile, Series Flow Fan Powered Terminal Unit

The Price FDCLP2 fan powered constant volume terminal units are an excellent solution for air volume control in restricted ceiling spaces, with unit heights as low as 8 5/8 in. The FDCLP2 provides constant air volume delivery to the occupied zone in response to a control signal. A variety of options and accessories, including a sensible cooling coil, are available to meet specific job requirements.



FDCLP2



FDCLP2 with Sensible Cooling Coil (DOAS)

LOW PROFILE CONSTRUCTION

The low profile FDCLP2 delivers outstanding performance with the convenience of a low profile casing. With unit height varying from 8 5/8 in. to 11 in. the FDCLP2 is ideal for applications with building height limits and shallow ceiling plenums.

SENSIBLE COOLING COIL (DOAS)

This option is intended for use within a Dedicated Outdoor Air System, wherein a DOAS air handler is typically designed to handle the space latent load by dehumidifying and conditioning the outdoor air. By managing the space sensible load with the sensible cooling coil option, the DOAS air handler can be sized to deliver only the airflow required for ventilation and latent loads, resulting in:

+ A smaller HVAC system with enhanced energy savings and simpler room-load calculations.
+ Superior humidity control and thermal comfort.
+ Eliminating over-ventilation.

DOAS offers energy saving benefits which complement the design goals of Green/LEED buildings. Benefits include energy efficient hydronic cooling combined with reduced air volumes and air handler size. The FDCLP2 with sensible cooling coil option comes with a standard EC motor which provides significant energy savings compared to PSC motors.

VALVE PACKAGES

Hot water coils are available with a factory leak-tested valve package for simplicity and ease of installation. Each valve package is available with the following options:

+ 2-way or 3-way valves
+ Manual or automatic balancing valve
+ TCV supplied by Price or supplied by others and factory mounted
+ 1/2 in. or 3/4 in. piping package diameter

TYPICAL APPLICATIONS

The FDCLP2 is an ideal solution for areas that require constant volume air delivery when ceiling space is limited or restricted. Low sound levels throughout the entire operating range further simplify the task of positioning these terminal units within the ceiling plenum. The highly configurable FDCLP2 includes an efficient EC motor as well as a variety of hot water and electric reheat options.

An optional sensible cooling coil is available to be used with the FDCLP2 as part of a dedicated outdoor air system (DOAS). With optimized coil circuitry and 2 through 8-row coil configurations, the FDCLP2 with sensible cooling coil can be selected to reduce primary air supply to minimum ventilation requirements while ensuring ASHRAE 62.1 compliance.

STANDARD DESIGN

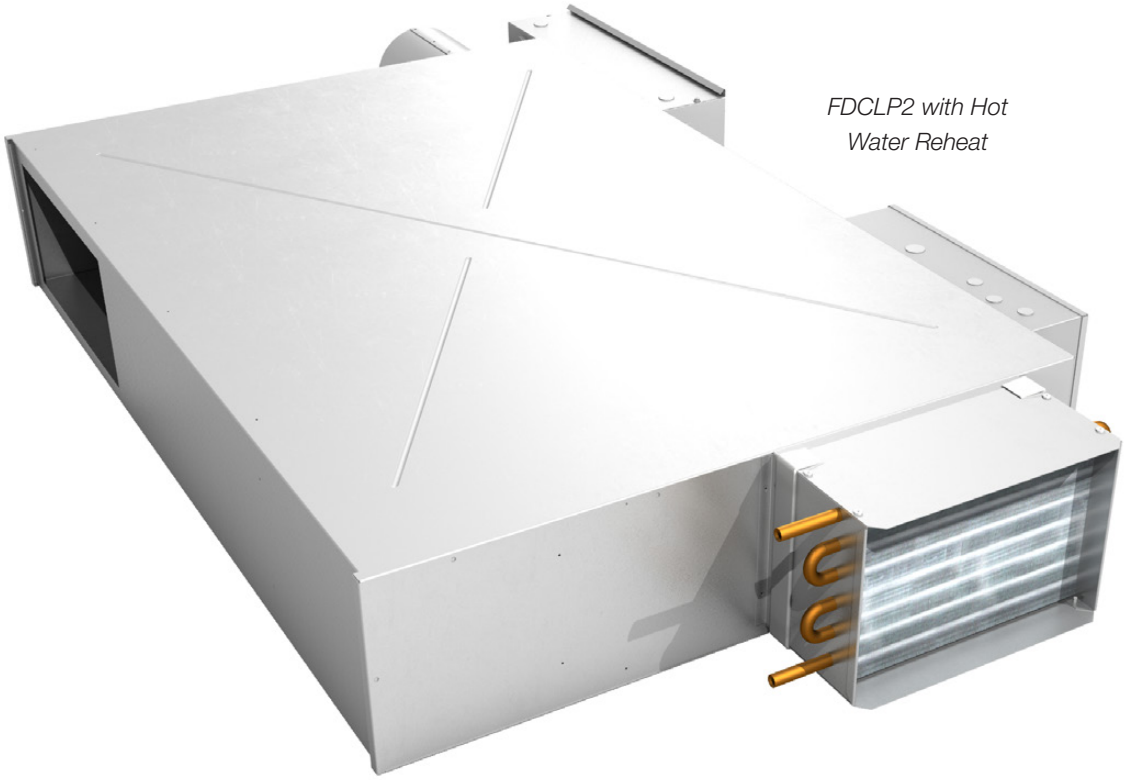
+ Unit height as low as 8 5/8 in.
+ High efficiency EC motor
+ 20 gauge casing for added durability
+ Reinforced casing for reduced sound levels

OPTIONAL FEATURES

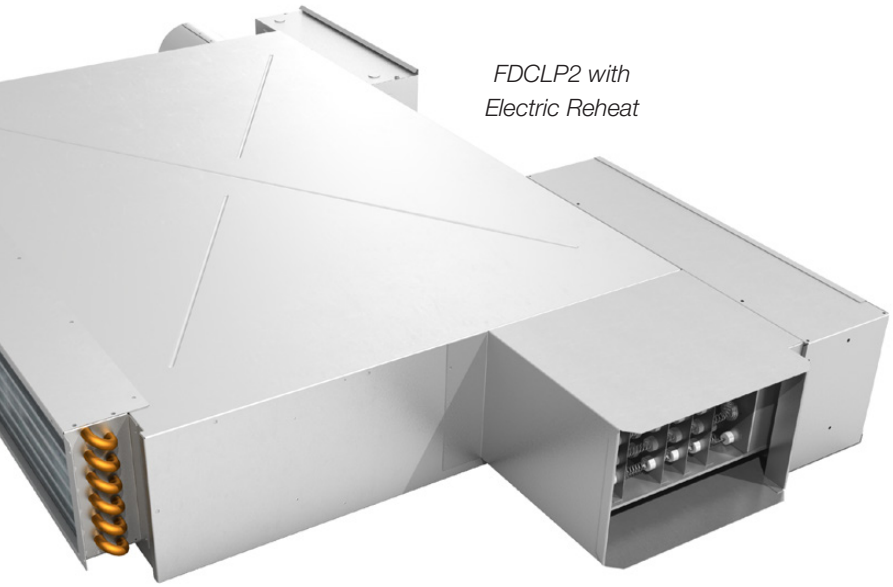
+ Sensible cooling coils up to 8 rows
+ Hot water or electric reheat
+ Fiber free and foil faced liners

HOT WATER REHEAT

Price water coils are constructed from high quality materials and are AHRI 410 certified. Designed to optimize heat transfer, water coils are available in standard and high capacity configurations to meet the requirements of every project. For ease of maintenance, optional access doors are available for upstream or downstream installation with a variety of fastening choices.



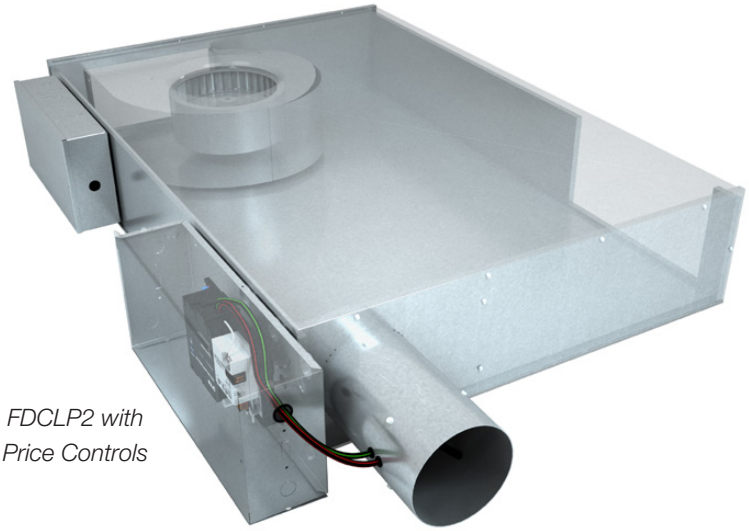
FDCLP2 with Hot Water Reheat



FDCLP2 with Electric Reheat

ELECTRIC REHEAT

Price electric coils are factory mounted, ETL listed to meet electrical safety standards, and comply with CSA 236/ UL 1995. Fan powered electric heaters are a side-mounted, slide-in style, specifically designed to mount on the terminal discharge, allowing for easy field maintenance. Thermal safety switches and fan interlocked heating elements are supplied to ensure safe operation.



FDCLP2 with Price Controls

CONTROLS

Price offers a complete line of controls to best suit any application. For exceptional user comfort, the Price Intelligent Controller (PIC) universal DDC control package is available factory installed and configured on all FDCLP2 units. The PIC can be used in conjunction with any Price thermostat to match the specific needs of the customer providing many options for user interface.

DISCHARGE ATTENUATOR

A 3ft. or 5ft. attenuator section is available to reduce discharge noise in sound sensitive applications. The attenuator is conveniently provided with insulation to match the terminal unit.

RECIRCULATED AIR FILTRATION

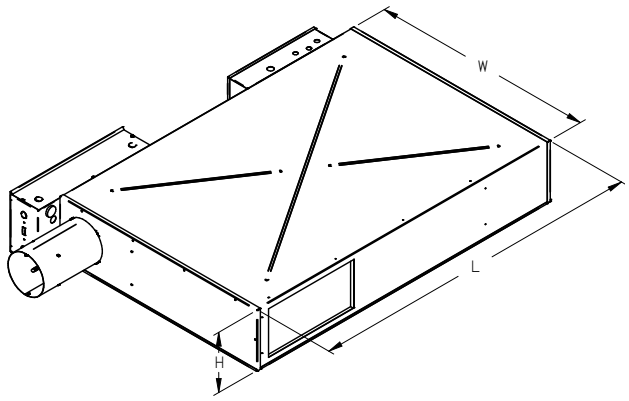
Enhanced filtration of recirculated air is delivered with a range of filter options for the FDCLP2 with DOAS option. The filters are available in MERV 3, MERV 8 and MERV 13 to meet a variety of project specifications for particle arrestance.

OPTIONS AND ACCESSORIES

A complete line of additional accessories are offered to meet specific job requirements. Details on these accessories are available in the Terminal Units Accessories catalog.

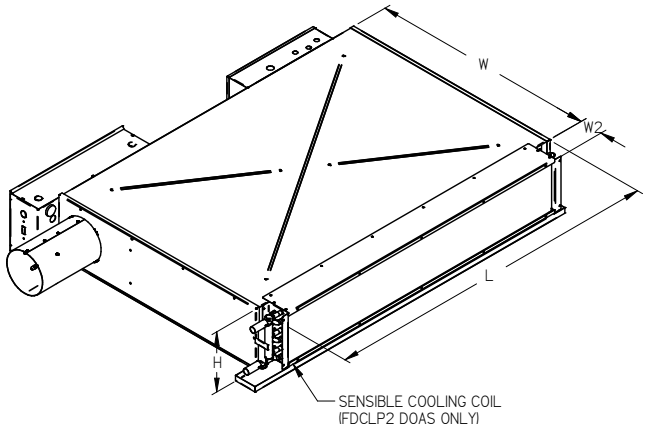
DIMENSIONAL DATA

FDCLP2



Nominal Sizes			
UNIT SIZE	**L**	**W**	**H**
Imperial Units (inch)			
10	48	32	8 5/8
20	41	26	11
30	41	26	11
50	54	44	11

FDCLP2-DOAS

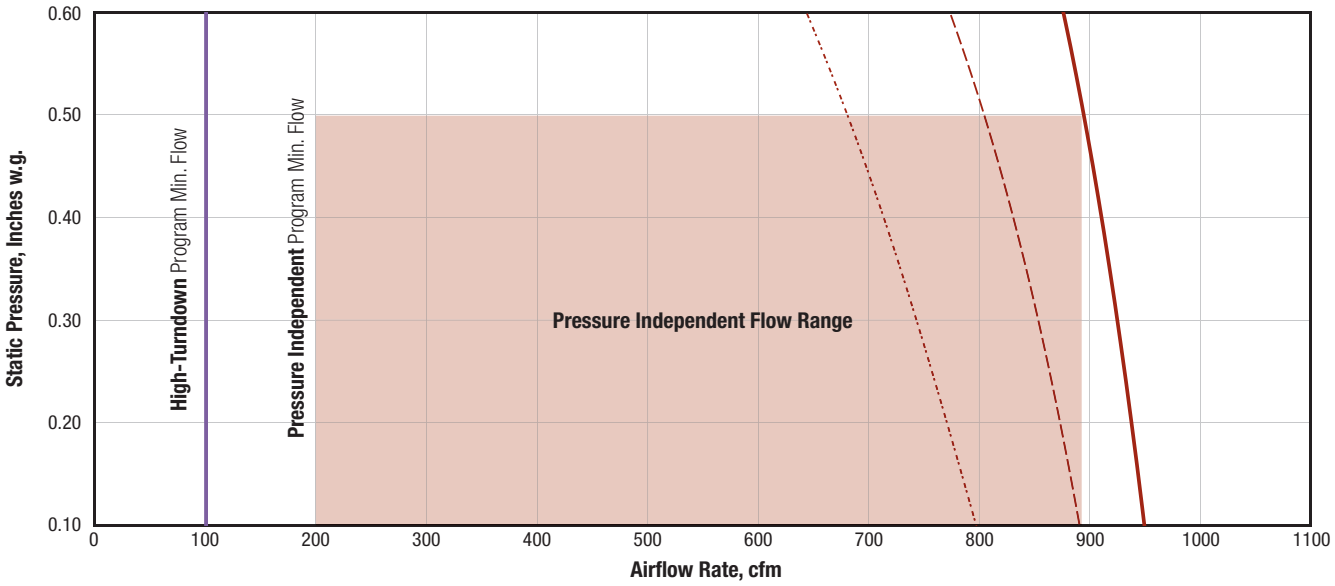


Sensible Cooling Coil				
ROWS	**2**	**4**	**6**	**8**
Imperial Units (inch)				
W2	3 1/4	5 3/8	7 5/8	9 7/8

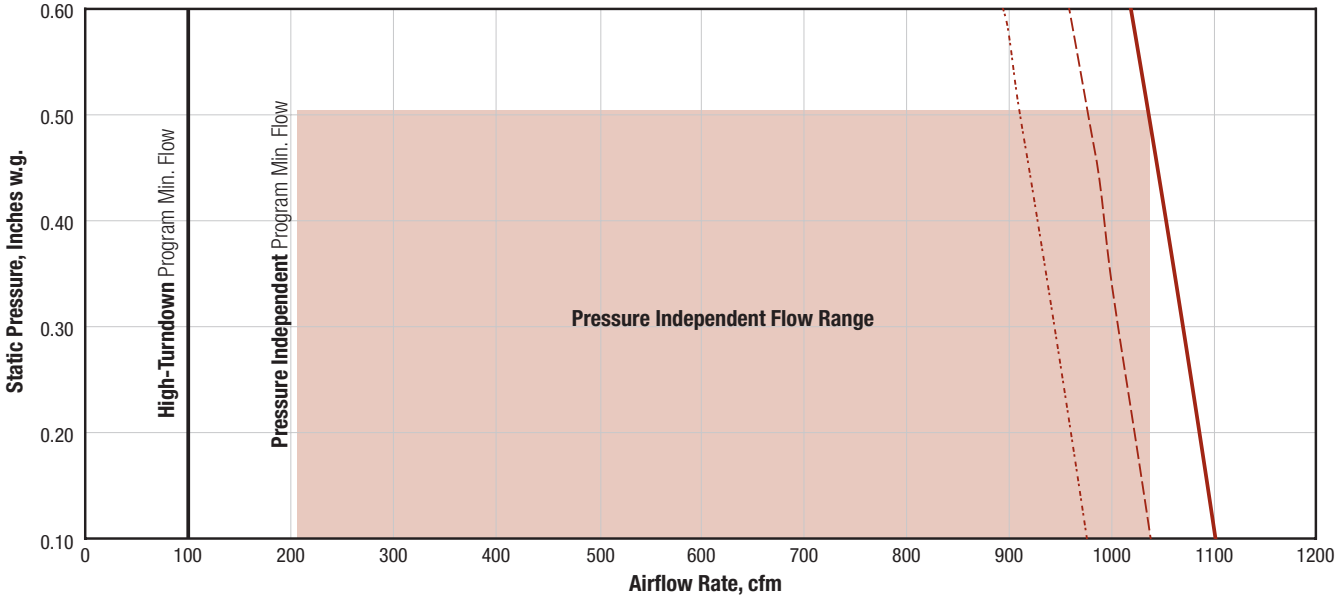
PERFORMANCE DATA

FDCLP2 with ECM – Fan Performance Curves

Unit Size 10



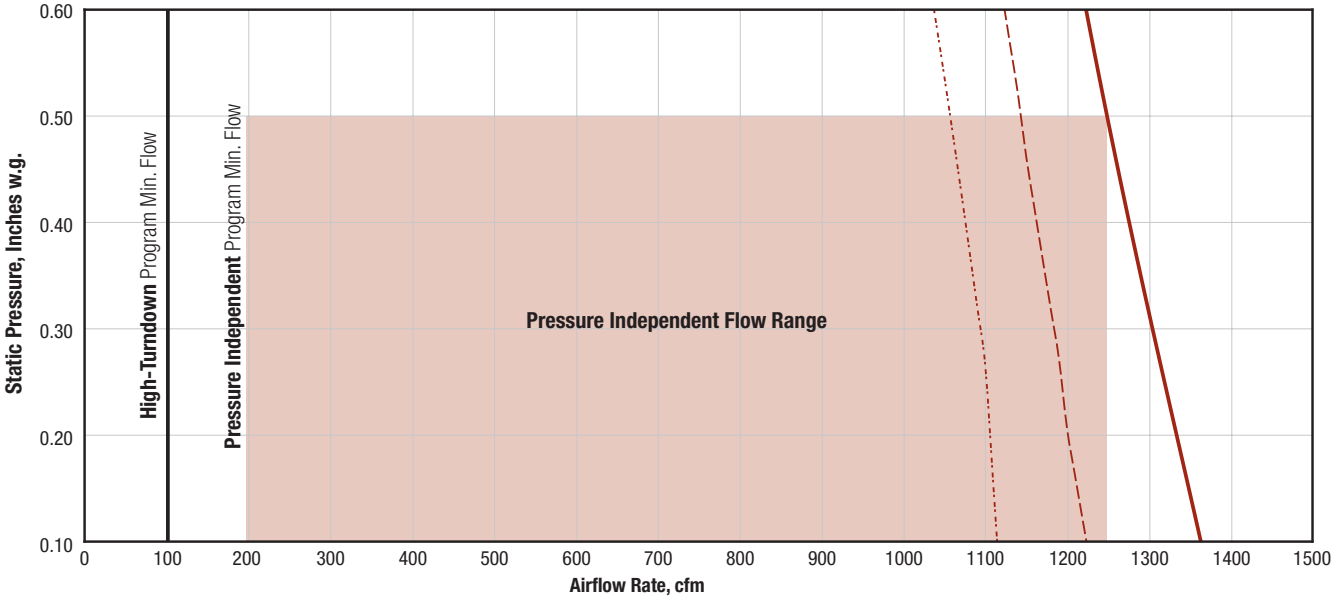
Unit Size 20



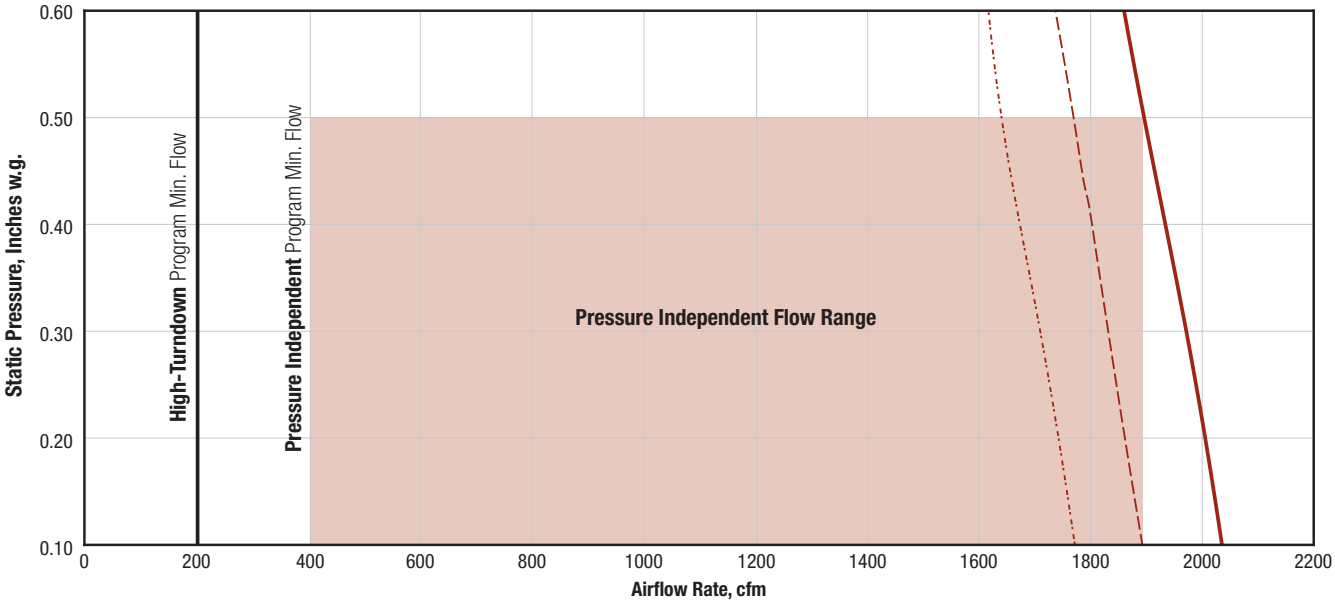
PERFORMANCE DATA

FDCLP2 with ECM – Fan Performance Curves

Unit Size 30



Unit Size 50

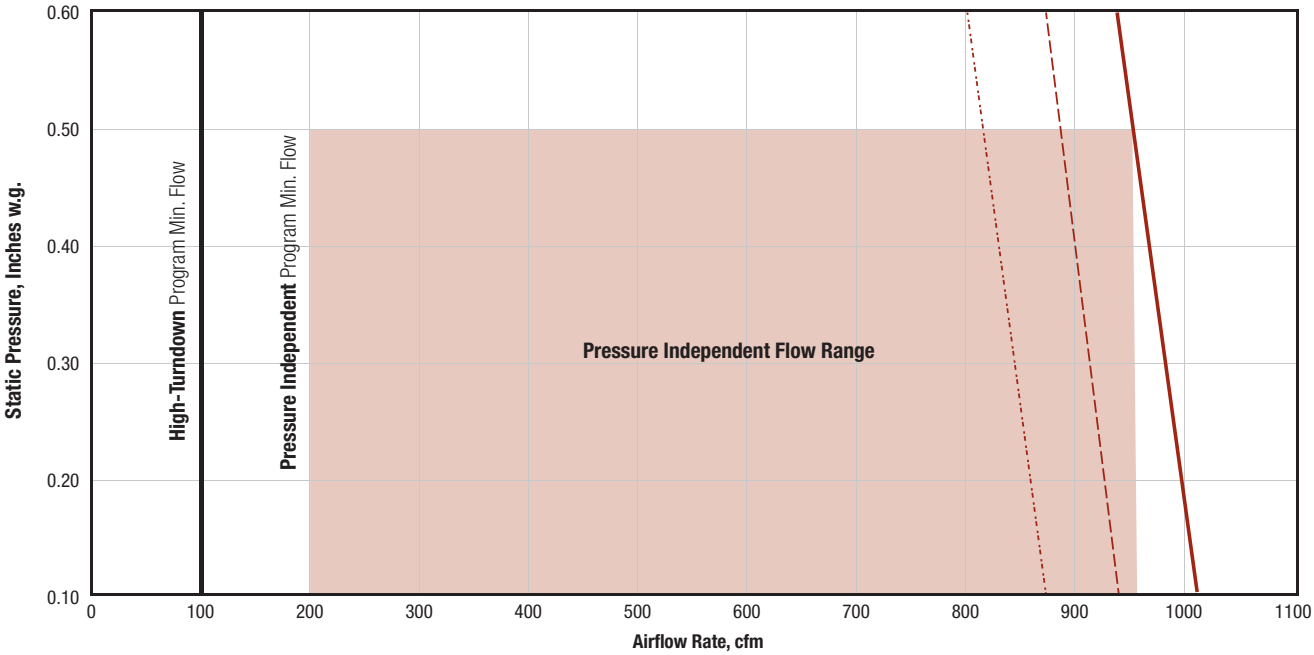


No Coil
1 Row
2 Row

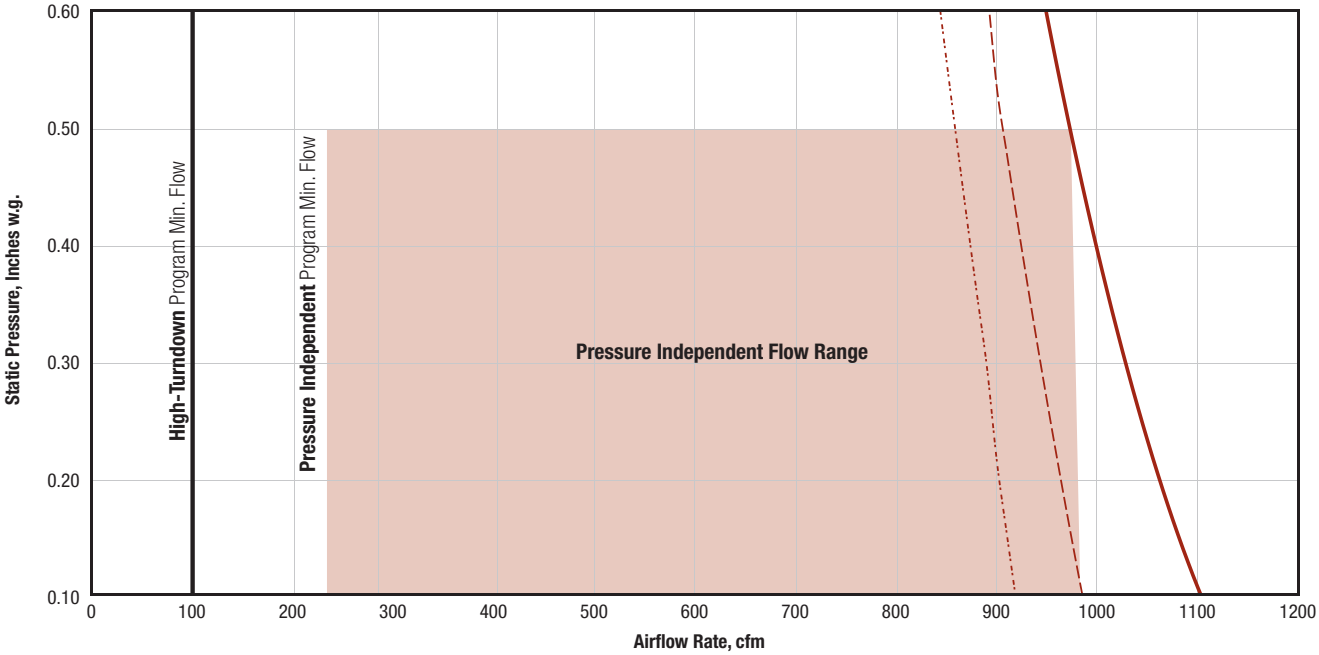
PERFORMANCE DATA

FDCLP2 & Sensible Cooling Coil (DOAS) with ECM – Fan Performance Curves

Unit Size 10 - 2 Row Cooling Coil



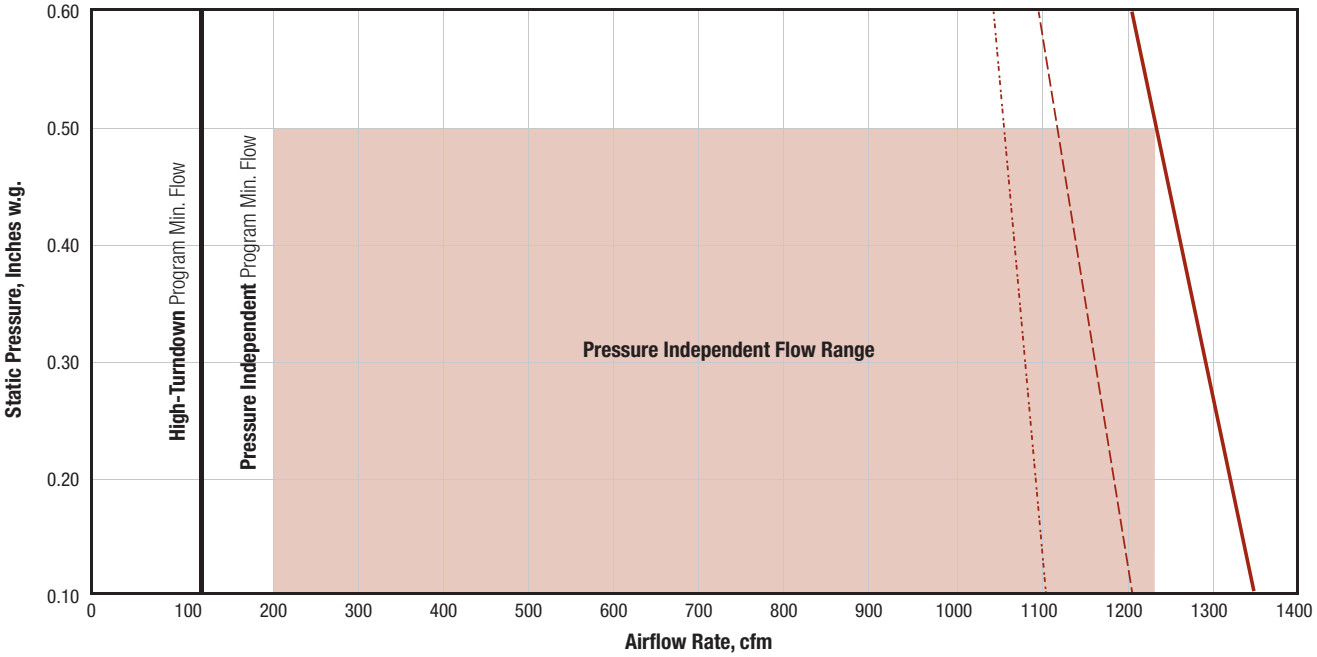
Unit Size 20 - 2 Row Cooling Coil



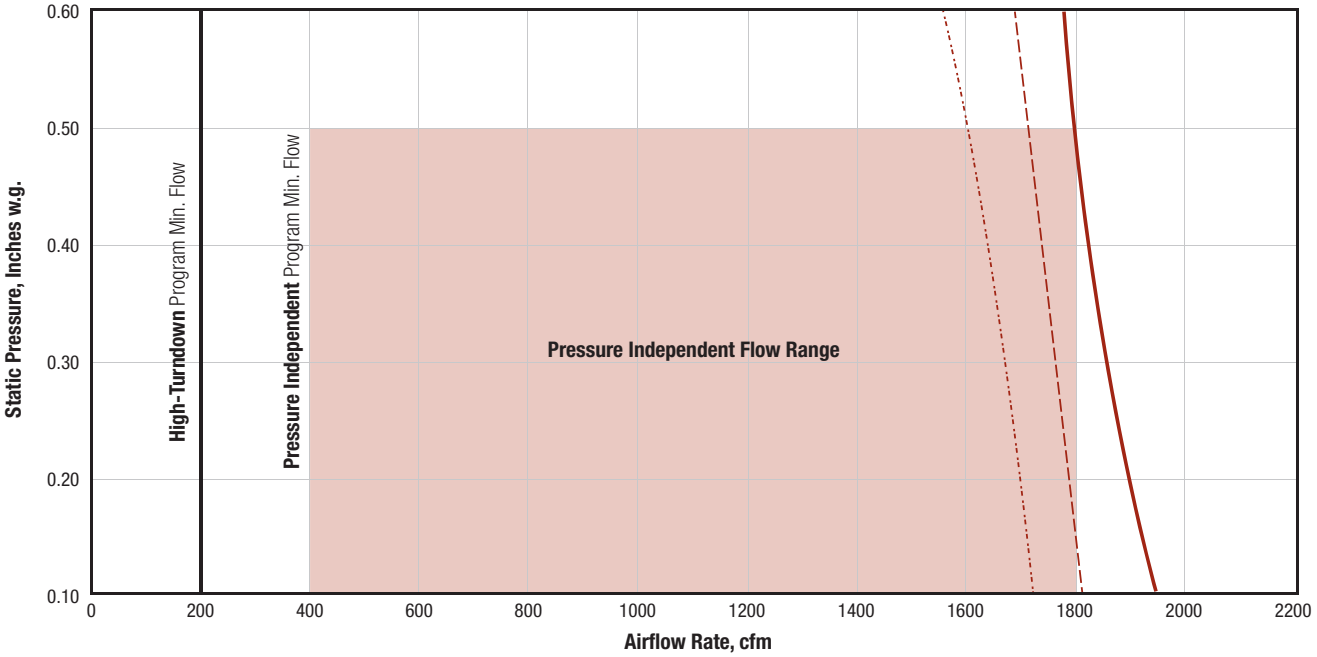
PERFORMANCE DATA

FDCLP2 & Sensible Cooling Coil (DOAS) with ECM – Fan Performance Curves

Unit Size 30 - 2 Row Cooling Coil



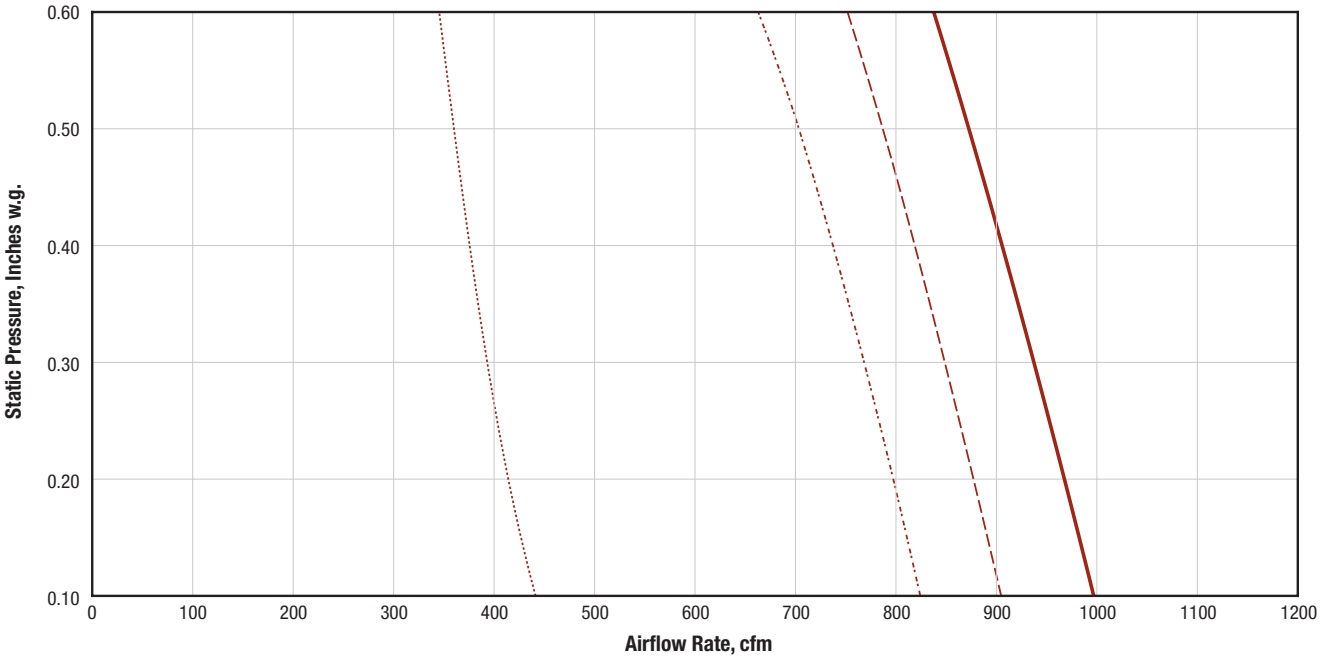
Unit Size 50 - 2 Row Cooling Coil



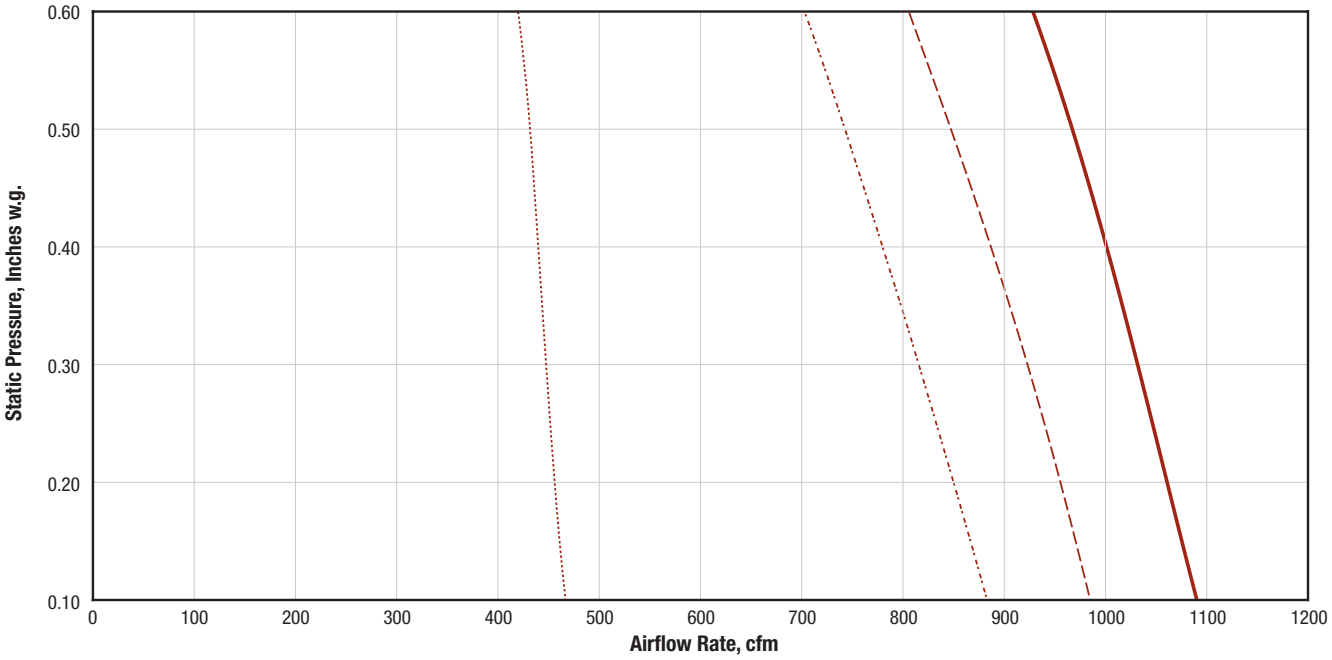
PERFORMANCE DATA

FDCLP2 with PSC - Fan Performance Curves

Unit Size 20



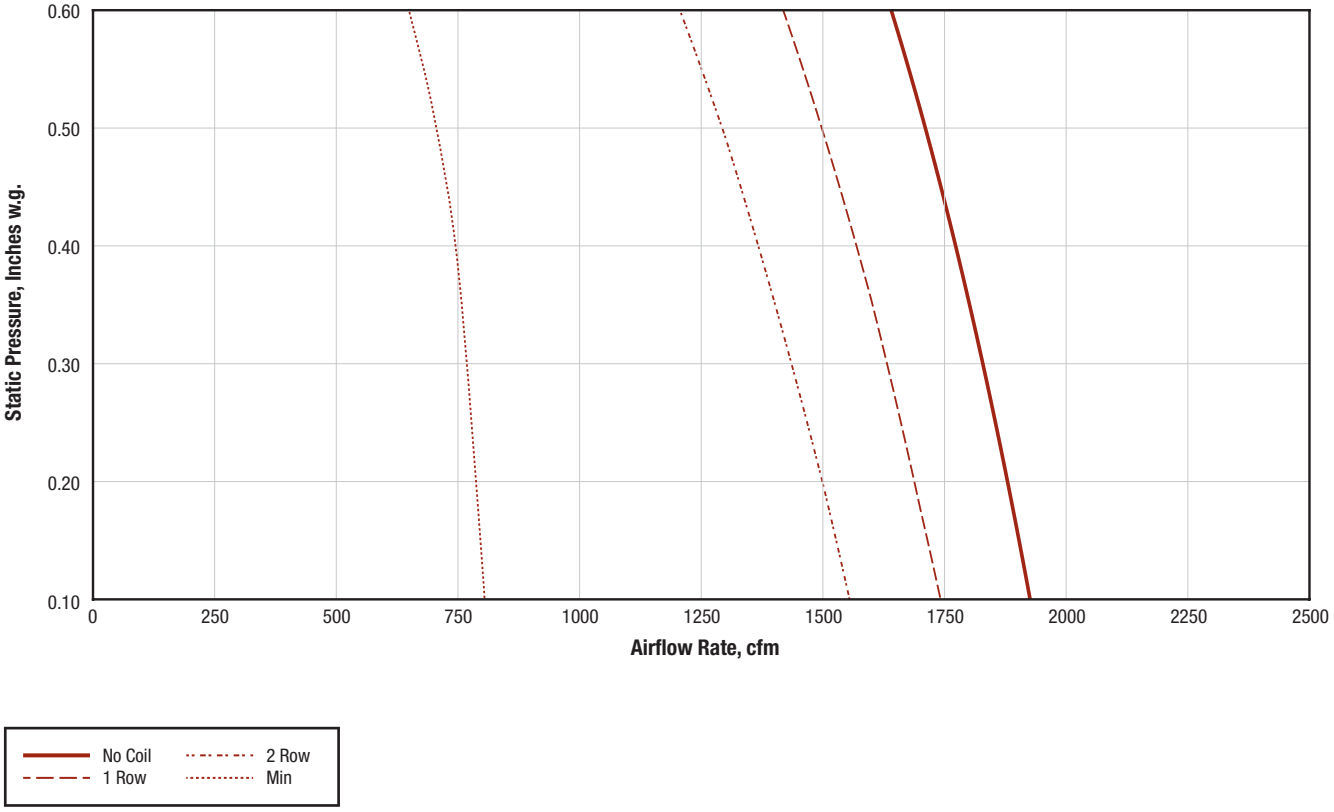
Unit Size 30



PERFORMANCE DATA

FDCLP2 with PSC - Fan Performance Curves

Unit Size 50



PERFORMANCE DATA

FDCLP2 – PSC Capacities

Unit Size	Inlet Size	Primary Airflow		Fan Airflow		Motor HP	Full Load Amps			
		Minimum	Maximum	Minimum	Maximum		115V	208V	240V	277V
20	6 8 10	65 125 210	550 1100 1100	460	1100	1/5	3.9	1.5	1.5	1.4
30	6 8 10	65 125 210	550 1100 1375	460	1375	1/4	4.2	1.6	1.7	1.6
50	10 14x8	210 295	1800 1900	805	2050	2 x 1/5	8.8	3.2	3.3	3.1

FDCLP2 – ECM Capacities

Unit Size	Inlet Size	Primary Airflow		Fan Airflow		Motor HP	Full Load Amps			
		Minimum	Maximum	Minimum*	Maximum		115V	208V	240V	277V
10	4 5 6 7	45 60 65 95	400 500 550 800	100	960	1/3	4.9	3.6	3.1	2.9
20	6 8 10	65 125 210	550 1100 1100	150	1100	1/3	4.5	2.9	2.6	2.4
30	6 8 10	65 125 210	550 1100 1350	200	1350	1/2	7.3	5.1	4.3	4
50	10 14x8	210 295	1800 1900	300	2050	2 x 1/3	8.4	5.4	4.7	4.3

FDCLP2 with Sensible Cooling Coil (DOAS) – ECM Capacities

Unit Size	Inlet Size	Primary Airflow		Fan Airflow		Motor HP	Full Load Amps			
		Minimum	Maximum	Minimum*	Maximum		115V	208V	240V	277V
10	4 5 6 7	45 60 65 95	400 500 550 800	100	1000	1/3	5.6	3.6	3.0	2.8
20	4 5 6 7 8	45 60 65 95 125	400 500 550 800 1075	100	1075	1/3	4.6	2.8	2.6	2.4
30	4 5 6 7 8	45 60 65 95 125	400 500 550 800 1100	200	1350	1/2	7.7	4.4	4.4	4.0
50	4 5 6 8 10 14x8	45 60 65 125 210 295	400 500 550 1100 1800 1900	300	1925	2 x 1/3	8.4	5.8	4.7	4.3

*Minimum flow with High-Turndown Flow motor program

Notes:

1. Minimum primary airflow limit based on digital controls and a min 0.02 in. w.g. [5Pa] differential pressure signal from airflow sensor.
2. Maximum primary airflow limit based on max 1.5 in. w.g. [375 Pa] differential pressure signal from airflow sensor.
3. Minimum fan flow with High-turndown Flow motor program (ECM only).

PERFORMANCE DATA

FDCLP2 - Electric Coil Max kW

Size	1 Phase Voltage					3 Phase Voltage		
	120	208	240	277	480	208	480	600
10**	5.7	9.9	10.4	10.1	10.4	10.8	12.4	11.0
20	5.7	9.9	11.5	13.2	15.7	15.2	15.7	15.7
30	5.7	9.9	11.5	13.2	17.6	15.2	17.6	18.5
50	5.7	9.9	11.5	13.2	23.0	17.2	29.2	29.2

**EC Motor Only

FDCLP2 DOAS - Electric Coil Max kW

Size	1 Phase Voltage					3 Phase Voltage		
	120	208	240	277	480	208	480	600
10	5.7	9.9	10.4	10.1	10.4	10.8	12.4	11.0
20	5.7	9.9	11.5	13.2	15.3	15.2	15.3	15.3
30	5.7	9.9	11.5	13.2	17.6	15.2	17.6	18.5
50	5.7	9.9	11.5	13.2	23.0	17.2	27.4	27.4

Notes:

1. ETL certified assemblies.
2. Minimum kW:
   Single Phase = 0.5 kW per stage.
   Three Phase = 1.5 kW.
3. The recommended limit of 48 Amps may be exceeded. This requires supplemental fusing to meet NEC code requirements. Contact your local Price representative for further details
4. Maximum kW limitations is the lesser of
   a) coil selection chart, orw
   b) minimum air flow requirements of 70 cfm/kW.

PERFORMANCE DATA

FDCLP2 – AHRI Certification Rating Points

Discharge Sound Power Levels

Unit Size	Fan [2] (cfm)	Input [3] (W)	Min. Δ Ps Inlet [4] (in. w.g.)	Discharge Sound Power Level (dB)					
				Fan Only [5]					
				Octave Band					
				2	3	4	5	6	7
1006	400	65	0.17	66	60	59	58	55	50
2008	1000	315	0.12	77	71	67	67	65	63
3008	1000	315	0.12	77	71	67	67	65	63
50 14x8	1500	350	0.30	70	66	66	65	62	60

Radiated Sound Power Level

Unit Size	Primary [1] (cfm)	Fan [2] (cfm)	Input [3] (W)	Min. Δ Ps Inlet [4] (in. w.g.)	Radiated Sound Power Level (dB)											
					Fan Only [5]						1.5" Inlet Static w.g.					
					Octave Band						Octave Band					
					2	3	4	5	6	7	2	3	4	5	6	7
1006	400	400	65	0.17	57	50	48	45	34	25	65	59	53	48	39	31
2008	700	1000	315	0.12	69	60	57	57	49	41	69	63	59	57	50	41
3008	700	1000	315	0.12	69	60	57	57	49	41	69	63	59	57	50	41
50 14x8	1400	1500	350	0.30	64	59	57	55	44	34	71	67	64	61	52	48

AHRI Certification Notes:

1. Primary CFM is the standard rated air volume for the inlet.
2. Fan CFM is the maximum rated fan volume at 0.25" w.g. downstream static pressure.
3. Input watts is the maximum electrical power input at the maximum rated fan volume.
4. Minimum operating pressure inlet is the minimum operating pressure requirement of the primary air valve at the rated primary CFM.
5. Fan only sound power levels are at the maximum rated fan volume.
6. Sound power levels include duct end corrections per AHRI Standard 880-2017. Please refer to the Engineering Guide for more details.

PERFORMANCE DATA

FDCLP2 – Discharge Sound Power Levels

Unit Size	Inlet Size Inch	Primary Airflow	Fan Airflow	Sound Power Levels, Lw, dB re 10^{-12} Watts																	
				Fan Only Octave Band						187 Pa (0.75" w.g.) Octave Band						375 Pa (1.5" w.g.) Octave Band					
		cfm	cfm	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7
10	6	150	150	59	53	53	49	46	36	59	51	52	49	45	36	60	52	52	49	45	36
		200	200	60	54	54	50	47	38	61	53	53	50	46	38	62	54	53	50	46	38
		300	300	61	56	55	53	49	43	64	55	54	52	47	41	66	56	55	52	48	41
		400	400	66	60	59	58	55	50	69	59	59	57	53	48	71	61	59	57	53	49
		500	500	70	64	62	62	59	56	72	63	63	60	57	54	74	64	63	61	57	54
20	8	200	200	48	40	44	39	33	26	52	43	43	39	32	28	53	44	44	39	32	28
		325	325	57	49	51	48	43	37	59	52	51	47	42	39	60	53	51	48	42	39
		500	500	65	57	57	55	51	47	65	59	58	55	51	48	66	60	58	55	51	49
		700	700	71	64	62	61	58	55	70	65	63	61	58	56	71	66	63	61	58	56
		700	1000	77	71	67	67	65	63	75	71	67	66	64	63	76	71	68	67	64	63
30	8	400	550	66	59	59	57	53	49	66	60	58	56	52	50	67	61	59	56	52	50
		450	650	69	62	61	60	57	53	68	63	61	59	55	53	70	64	61	59	55	54
		525	750	72	65	63	62	60	56	71	66	63	61	58	56	72	66	63	62	58	57
		600	850	74	68	65	65	62	59	72	68	65	64	61	59	73	69	65	64	61	60
		700	1000	77	71	67	67	65	63	75	71	67	66	64	63	76	71	68	67	64	63
50	14x8	925	1025	62	58	60	58	54	51	66	60	59	57	54	51	69	62	59	57	54	51
		1050	1150	65	60	62	60	56	53	68	62	61	59	56	54	70	64	61	59	56	54
		1150	1250	66	62	63	62	58	55	69	64	62	60	58	56	72	65	62	60	58	56
		1250	1350	68	64	65	63	60	57	71	65	64	61	60	57	73	67	64	61	60	57
		1400	1500	70	66	66	65	62	60	72	67	65	63	62	60	75	69	65	63	62	60

FDCLP2 – Radiated Sound Power Levels

Unit Size	Inlet Size Inch	Primary Airflow	Fan Airflow	Sound Power Levels, Lw, dB re 10^{-12} Watts																	
				Fan Only Octave Band						187 Pa (0.75" w.g.) Octave Band						375 Pa (1.5" w.g.) Octave Band					
		cfm	cfm	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7
10	6	150	150	48	44	40	35	26	17	53	46	42	38	29	25	55	48	45	40	32	29
		200	200	49	45	41	37	27	17	56	49	45	40	31	26	58	51	47	43	34	30
		300	300	51	46	44	40	29	20	59	53	48	43	33	27	61	55	51	46	37	31
		400	400	57	50	48	45	34	25	62	56	51	47	37	28	65	59	53	48	39	31
		500	500	61	54	51	48	38	29	65	59	55	50	41	32	68	62	57	52	43	35
20	8	200	200	47	44	39	36	24	17	44	38	36	30	19	17	46	40	37	31	21	17
		325	325	54	49	44	42	31	17	52	46	43	38	28	22	54	48	44	39	30	25
		500	500	59	53	49	48	38	25	59	53	49	46	36	29	61	55	50	47	38	32
		700	700	64	57	53	52	43	33	64	59	54	51	43	34	66	61	55	52	45	37
		700	1000	69	60	57	57	49	41	67	61	57	56	48	38	69	63	59	57	50	41
30	8	400	550	61	54	51	49	39	27	58	52	49	46	37	29	60	54	50	47	39	31
		450	650	63	56	52	51	42	31	60	54	51	49	40	31	62	56	52	50	42	34
		525	750	65	57	54	53	44	35	62	56	53	52	43	33	64	59	55	52	44	36
		600	850	66	59	56	55	46	37	64	59	55	54	45	35	66	61	56	55	47	38
		700	1000	69	60	57	57	49	41	67	61	57	56	48	38	69	63	59	57	50	41
50	14x8	925	1025	56	53	52	48	36	28	62	58	57	53	44	37	66	63	61	56	49	45
		1050	1150	59	55	54	50	38	30	64	60	58	54	45	38	68	64	62	58	50	46
		1150	1250	60	56	55	52	40	31	65	61	59	55	45	39	69	65	63	59	50	46
		1250	1350	62	58	56	53	42	32	66	62	60	56	46	39	70	66	63	60	51	47
		1400	1500	64	59	57	55	44	34	68	63	61	58	47	40	71	67	64	61	52	48

Performance Notes:

1. Test data obtained in accordance with AHRI Standard 880-2017 and ASHRAE Standard 130-2016.
2. Data does not include corrections for Room Absorption, duct attenuation, or ceiling transmission loss.
3. Sound power levels include duct end corrections per AHRI Standard 880-2017. Please refer to the Engineering Guide for more details.
4. Fan external static pressure is 0.25 in. w.g. in all cases.
5. AHRI certified data is highlighted in blue. All other data are application ratings.

PERFORMANCE DATA

FDCLP2 with Sensible Cooling Coil (DOAS) – Discharge Sound Power Levels

Unit Size	Inlet Size Inch	Primary Airflow	Fan Airflow	Sound Power Levels, Lw, dB re 10^{-12} Watts																	
				Fan Only Octave Band						187 Pa (0.75" w.g.) Octave Band						375 Pa (1.5" w.g.) Octave Band					
		cfm	cfm	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7
10	6	150	200	53	51	49	46	42	33	57	52	51	48	45	35	58	52	51	48	45	36
		225	325	62	57	56	54	51	45	64	58	57	55	51	45	65	59	57	55	52	46
		300	450	68	62	61	60	57	53	69	63	61	59	56	52	70	63	62	59	56	52
		375	575	73	66	64	64	61	59	73	66	65	62	59	57	74	67	65	63	59	57
		450	675	76	68	67	67	64	63	76	68	67	65	61	60	77	69	67	65	61	61
20	8	150	200	48	40	44	39	33	26	51	43	43	38	31	27	52	43	43	38	31	28
		275	325	57	49	51	48	43	37	59	51	51	47	41	38	60	52	51	47	42	39
		450	450	63	55	56	53	49	45	64	58	56	53	49	46	65	58	56	53	49	46
		500	575	67	60	59	58	54	50	67	62	59	57	53	51	68	62	60	57	54	51
		575	700	71	64	62	61	58	55	70	65	62	61	57	55	71	66	63	61	57	56
30	8	180	300	56	48	50	46	41	36	57	49	49	45	39	36	58	50	49	45	39	36
		270	450	63	55	56	53	49	45	63	56	55	52	47	45	64	57	55	52	47	45
		360	600	68	61	60	58	55	51	67	61	59	57	53	51	68	62	60	57	53	51
		450	750	72	65	63	62	60	56	70	65	63	61	58	56	71	66	63	61	58	56
		540	900	75	69	66	66	63	61	73	69	66	64	61	60	74	69	66	64	62	60
40	8	300	500	64	59	56	53	48	42	60	55	54	52	48	43	61	56	54	53	49	43
		420	700	67	62	60	57	53	48	65	60	59	58	54	50	67	61	60	58	55	51
		600	1000	70	66	64	61	58	55	71	66	64	64	60	58	72	67	65	64	61	59
		780	1300	72	69	66	65	62	59	75	70	68	68	65	63	76	71	69	69	66	64
		900	1500	74	71	68	66	64	62	77	72	71	71	68	67	79	73	71	71	68	67
50	14x8	925	1025	62	58	60	58	54	51	66	60	59	57	54	51	69	62	59	57	54	51
		1050	1150	65	60	62	60	56	53	68	62	61	59	56	54	70	64	61	59	56	54
		1150	1250	66	62	63	62	58	55	69	64	62	60	58	56	72	65	62	60	58	56
		1250	1350	68	64	65	63	60	57	71	65	64	61	60	57	73	67	64	61	60	57
		1400	1500	70	66	66	65	62	60	72	67	65	63	62	60	75	69	65	63	62	60

PERFORMANCE DATA

FDCLP2 with Sensible Cooling Coil (DOAS) – Radiated Sound Power Levels

Unit Size	Inlet Size Inch	Primary Airflow	Fan Airflow	Sound Power Levels, Lw, dB re 10^{-12} Watts																	
				Fan Only Octave Band						187 Pa (0.75" w.g.) Octave Band						375 Pa (1.5" w.g.) Octave Band					
		cfm	cfm	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7
10	6	150	200	45	45	46	40	32	18	46	48	46	40	31	20	48	49	47	40	31	21
		225	325	54	51	51	47	39	27	55	54	52	47	39	28	57	56	53	48	39	29
		300	450	59	56	55	52	44	34	61	58	57	52	44	34	63	60	57	52	45	35
		375	575	64	59	58	56	48	39	66	62	60	56	48	39	68	63	60	56	49	39
		450	675	66	61	60	58	51	42	69	64	62	58	51	41	71	66	62	59	51	42
20	8	150	200	55	50	51	45	33	20	50	47	48	41	30	18	50	48	48	41	30	19
		275	325	57	52	53	49	39	27	56	52	52	48	37	26	56	52	52	48	38	27
		450	450	59	54	55	52	43	31	59	55	55	52	42	31	60	56	55	52	43	32
		500	575	61	55	56	55	45	35	62	57	57	55	46	35	62	58	58	55	47	36
		575	700	62	56	57	56	48	38	64	59	59	57	49	39	65	60	59	57	50	39
30	8	180	300	57	52	53	49	38	26	55	51	52	47	36	25	55	52	52	47	36	25
		270	450	59	54	55	52	43	31	59	55	55	52	42	31	60	55	55	52	43	32
		360	600	61	55	56	55	46	36	62	58	58	55	47	36	63	58	58	55	47	37
		450	750	62	56	57	57	49	39	65	60	60	58	50	40	65	60	60	58	51	40
		540	900	63	57	58	59	51	41	67	61	61	61	53	43	67	62	61	61	53	43
40	8	300	500	57	52	49	46	40	29	57	53	49	47	40	33	58	54	50	48	41	35
		420	700	60	56	53	50	45	35	60	56	53	51	45	38	61	57	54	51	46	40
		600	1000	64	59	56	54	50	41	64	60	57	54	50	42	65	60	58	55	51	45
		780	1300	66	62	59	57	54	46	67	62	60	57	54	46	67	63	61	58	55	48
		900	1500	68	64	61	59	56	48	68	63	61	58	56	48	69	64	62	59	57	50
50	14x8	925	1025	54	52	55	52	40	32	66	63	65	60	51	44	67	65	66	62	54	49
		1050	1150	56	54	57	54	43	34	68	65	66	62	53	46	69	67	68	64	56	50
		1150	1250	58	55	58	56	44	35	69	66	67	63	54	47	71	68	69	65	57	51
		1250	1350	59	56	59	57	46	36	71	67	68	64	55	48	72	69	69	66	58	52
		1400	1500	62	58	60	59	48	38	73	69	69	66	57	49	74	70	71	68	59	53

Performance Notes:

1. Test data obtained in accordance with AHRI Standard 880-2017 and ASHRAE Standard 130-2016.
2. Data does not include corrections for Room Absorption, duct attenuation, or ceiling transmission loss.
3. Sound power levels include duct end corrections per AHRI Standard 880-2017. Please refer to the Engineering Guide for more details.
4. Fan external static pressure is 0.25 in. w.g. in all cases.

PERFORMANCE DATA

FDCLP2 with Sensible Cooling Coil (DOAS) – Cooling Coil Data (IP Units)

Unit Size 10

Rows	Coil GPM	HD Loss	Sensible Cooling Capacity (MBH)			
			225 CFM	375 CFM	525 CFM	675 CFM
2	1	0.11	2.6	3.4	3.8	4.2
	2	0.41	3.1	4.2	5.1	5.7
	4	1.40	3.4	4.9	6.0	6.9
	6	2.89	3.5	5.2	6.5	7.7
	Airside Δ Ps		0.02	0.04	0.06	0.10
4	1	0.12	3.5	4.7	5.4	5.8
	2	0.40	4.0	5.8	7.1	8.1
	4	1.34	4.2	6.4	8.2	9.7
	6	2.75	4.3	6.6	8.7	10.5
	Airside Δ Ps		0.03	0.07	0.13	0.19
6	1	0.28	4.0	5.5	6.4	6.9
	2	1.06	4.3	6.6	8.3	9.7
	4	3.57	4.4	7.1	9.4	11.4
	6	7.31	4.5	7.2	9.7	12.1
	Airside Δ Ps		0.05	0.11	0.19	0.29
8	1	0.22	4.2	5.9	6.9	7.5
	2	0.69	4.4	7.0	9.0	10.5
	4	2.30	4.5	7.3	9.8	12.1
	6	4.70	4.5	7.4	10.1	12.6
	Airside Δ Ps		0.06	0.15	0.26	0.39

Unit Size 20

Rows	Coil GPM	HD Loss	Sensible Cooling Capacity (MBH)		
			450 CFM	600 CFM	750 CFM
2	1	0.08	3.6	4.0	4.2
	2	0.29	4.6	5.3	5.9
	4	0.96	5.4	6.4	7.2
	6	1.97	5.8	7.0	8.0
	Airside Δ Ps		0.04	0.06	0.09
4	1	0.13	5.1	5.7	6.1
	2	0.41	6.5	7.7	8.6
	4	1.38	7.3	9.0	10.4
	6	2.81	7.7	9.7	11.4
	Airside Δ Ps		0.08	0.13	0.18
6	1	0.19	6.0	6.6	7.1
	2	0.59	7.5	9.0	10.2
	4	1.96	8.2	10.3	12.2
	6	4.01	8.5	10.8	13.0
	Airside Δ Ps		0.12	0.19	0.27
8	1	0.24	6.5	7.3	7.7
	2	0.76	8.0	9.8	11.2
	4	2.54	8.6	11.0	13.2
	6	5.18	8.7	11.4	13.9
	Airside Δ Ps		0.16	0.25	0.37

For performance notes, see end of section.

PERFORMANCE DATA

FDCLP2 with Sensible Cooling Coil (DOAS) – Cooling Coil Data (IP Units)

Unit Size 30

Rows	Coil GPM	HD Loss	Sensible Cooling Capacity (MBH)			
			450 CFM	600 CFM	750 CFM	900 CFM
2	1	0.08	3.6	4.0	4.2	4.4
	2	0.29	4.6	5.3	5.9	6.3
	4	0.96	5.4	6.4	7.2	7.9
	6	1.97	5.8	7.0	8.0	8.9
	Airside Δ Ps		0.04	0.06	0.09	0.12
4	1	0.13	5.1	5.7	6.1	6.3
	2	0.41	6.5	7.7	8.6	9.3
	4	1.38	7.3	9.0	10.4	11.6
	6	2.81	7.7	9.7	11.4	12.9
	Airside Δ Ps		0.08	0.13	0.18	0.25
6	1	0.19	6.0	6.6	7.1	7.4
	2	0.59	7.5	9.0	10.2	11.1
	4	1.96	8.2	10.3	12.2	13.8
	6	4.01	8.5	10.8	13.0	15.0
	Airside Δ Ps		0.12	0.19	0.27	0.37
8	1	0.24	6.5	7.3	7.7	8.0
	2	0.76	8.0	9.8	11.2	12.2
	4	2.54	8.6	11.0	13.2	15.1
	6	5.18	8.7	11.4	13.9	16.1
	Airside Δ Ps		0.16	0.25	0.37	0.50

Unit Size 50

Rows	Coil GPM	HD Loss	Sensible Cooling Capacity (MBH)			
			1200 CFM	1400 CFM	1600 CFM	1750 CFM
2	1	0.10	5.2	5.3	5.4	5.5
	2	0.32	7.8	8.2	8.5	8.7
	4	1.07	10.2	10.9	11.5	11.9
	6	2.19	11.8	12.7	13.6	14.2
	Airside Δ Ps		0.13	0.17	0.21	0.25
4	1	0.16	7.1	7.3	7.4	7.5
	2	0.48	11.2	11.8	12.2	12.5
	4	1.60	14.9	16.1	17.1	17.8
	6	3.27	16.9	18.6	20.0	21.0
	Airside Δ Ps		0.26	0.34	0.42	0.49
6	1	0.23	8.1	8.2	8.3	8.4
	2	0.69	13.2	13.8	14.3	14.5
	4	2.30	17.6	19.1	20.4	21.3
	6	4.69	19.7	21.8	23.7	25.0
	Airside Δ Ps		0.39	0.51	0.63	0.74
8	1	0.30	8.5	8.7	8.7	8.8
	2	0.89	14.4	15.0	15.5	15.8
	4	2.98	19.3	21.1	22.6	23.6
	6	6.09	21.2	23.8	26.0	27.6
	Airside Δ Ps		0.52	0.68	0.85	0.98

Performance Notes:

1. Tabulated values are in MBH (thousands of Btu per hour).
2. Minimum air and water flow values are based on ASHRAE recommendations for coil selections. For selections below these tabulated air or water values, please consult your local Price representative.
3. HD (Head) loss is in ft. of water.
4. Through the Coil ΔPs, is the pressure drop in in. of water across the coil.
5. Air temperature rise = ATR
   ATR (°F) = 927 x MBH/cfm
6. Water temperature drop = WTD
   WTD (°F) = 2.04 x MBH/gpm
7. Values in tables are listed for 0 ft. of altitude and no glycol in the system.
8. For information outside the ranges used in the table, consult the current Price software or your Price representative for accurate coil information.
9. Cooling coils used in this unit have performance rated and certified in accordance with the current edition of AHRI Standard 410.
10. Connections: Single Circuit – 1 /2 in. OD male solder Multi Circuit – 7 /8 in. OD male solder.

PERFORMANCE DATA

FDCLP2 with Sensible Cooling Coil (DOAS) – Heating Coil Data

Unit Size 10 – Standard Capacity

Rows	Coil GPM	HD Loss	Airflow Rate (cfm)							
			275	350	425	500	575	650	725	800
1 Row Multi Ciruit	0.5	0.1	6.4	6.9	7.3	7.7	8.0	8.2	8.4	8.6
	1	0.5	7.7	8.5	9.1	9.7	10.1	10.6	10.9	11.2
	2	1.7	8.6	9.5	10.3	11.0	11.6	12.2	12.7	13.1
	3	3.6	8.9	10.0	10.9	11.6	12.3	12.9	13.5	14.0
	Through the Coil, Δ Ps		0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.35
2 Row Multi Ciruit	1	0.1	13.5	15.0	16.2	17.2	18.1	18.9	19.5	20.1
	2	0.5	15.2	17.2	18.9	20.3	21.6	22.7	23.7	24.5
	4	1.6	16.1	18.4	20.3	22.0	23.5	24.8	26.0	27.1
	6	3.4	16.5	18.9	21.0	22.8	25.8	25.8	27.1	28.3
	Through the Coil, Δ Ps		0.13	0.20	0.27	0.35	0.47	0.54	0.65	0.77

Unit Size 10 – High Capacity

Rows	Coil GPM	HD Loss	Airflow Rate (cfm)							
			275	350	425	500	575	650	725	800
1 Row Multi Ciruit	0.5	0.17	8.3	8.9	9.4	9.8	10.2	10.4	10.7	10.9
	1	0.58	10.8	11.9	12.8	13.6	14.2	14.7	15.2	15.6
	2	2.01	12.6	14.2	15.5	16.6	17.5	18.4	19.1	19.8
	3	4.19	13.4	15.2	16.7	18.0	19.2	20.2	21.1	21.9
	Through the Coil, Δ Ps		0.03	0.05	0.07	0.09	0.11	0.14	0.16	0.19
2 Row Multi Ciruit	1	0.16	17.4	19.5	21.1	22.4	23.5	24.4	25.2	25.9
	2	0.55	20.4	23.4	26.0	28.1	30.0	31.7	33.1	34.4
	4	1.92	22.0	25.7	28.9	31.7	34.2	36.4	38.4	40.2
	6	4.02	22.7	26.7	30.2	33.3	38.5	38.5	40.8	42.8
	Through the Coil, Δ Ps		0.07	0.11	0.15	0.19	0.26	0.30	0.36	0.42

Unit Size 20 – Standard Capacity

Rows	Coil GPM	HD Loss	Airflow Rate (cfm)							
			325	400	475	550	625	700	775	850
1 Row Multi Ciruit	0.5	0.21	7.4	7.8	8.2	8.6	8.8	9.1	9.3	9.5
	1	0.73	9.2	10.0	10.6	11.2	11.7	12.1	12.5	12.8
	2	2.53	10.5	11.5	12.4	13.1	13.8	14.4	14.9	15.4
	3	5.25	11.0	12.2	13.1	14.0	14.8	15.5	16.1	16.7
	Through the Coil, Δ Ps		0.06	0.08	0.11	0.14	0.17	0.21	0.25	0.29
2 Row Multi Ciruit	1	0.17	15.9	17.4	18.6	19.6	20.5	21.2	21.9	22.5
	2	0.60	18.5	20.5	22.3	23.8	25.2	26.4	27.4	28.4
	4	2.10	19.9	22.3	24.4	26.3	28.0	29.5	30.9	32.2
	6	4.39	20.4	23.1	25.4	27.4	29.2	30.9	32.4	33.8
	Through the Coil, Δ Ps		0.13	0.18	0.24	0.31	0.38	0.46	0.55	0.64

Unit Size 20 – High Capacity

Rows	Coil GPM	HD Loss	Airflow Rate (cfm)							
			325	400	475	550	625	700	775	850
1 Row Multi Ciruit	0.5	0.25	9.3	9.8	10.3	10.6	10.9	11.2	11.4	11.6
	1	0.84	12.5	13.6	14.4	15.2	15.8	16.3	16.8	17.2
	2	2.90	15.1	16.7	18.0	19.2	20.2	21.1	21.9	22.6
	3	6.03	16.3	18.2	19.7	21.1	22.4	23.5	24.5	25.4
	Through the Coil, Δ Ps		0.03	0.05	0.06	0.08	0.09	0.11	0.14	0.16
2 Row Multi Ciruit	1	0.21	20.0	21.9	23.4	24.7	25.7	26.6	27.4	28.1
	2	0.71	24.2	27.2	29.8	32.0	33.9	35.6	37.1	38.5
	4	2.48	26.6	30.5	33.9	36.9	39.6	42.0	44.2	46.2
	6	5.18	27.6	31.8	35.6	38.9	42.0	44.8	47.4	49.7
	Through the Coil, Δ Ps		0.07	0.10	0.13	0.17	0.21	0.25	0.30	0.35

For performance notes, see end of section.

PERFORMANCE DATA

FDCLP2 with Sensible Cooling Coil (DOAS) – Heating Coil Data

Unit Size 30 – Standard Capacity

Rows	Coil GPM	HD Loss	Airflow Rate (cfm)							
			300	400	500	600	700	800	900	1000
1 Row Multi Ciruit	0.5	0.21	7.2	7.8	8.3	8.7	9.1	9.3	9.6	9.8
	1	0.73	8.9	10.0	10.8	11.5	12.1	12.6	13.0	13.4
	2	2.53	10.1	11.5	12.6	13.6	14.4	15.1	15.7	16.3
	3	5.25	10.6	12.2	13.4	14.5	15.5	16.3	17.0	17.7
	Through the Coil, Δ Ps		0.05	0.08	0.12	0.16	0.21	0.26	0.32	0.38
2 Row Multi Ciruit	1	0.17	15.3	17.4	18.9	20.2	21.2	22.1	22.8	23.5
	2	0.60	17.7	20.5	22.8	24.7	26.4	27.8	29.0	30.1
	4	2.10	18.9	22.3	25.1	27.5	29.5	31.3	32.9	34.4
	6	4.39	19.4	23.1	26.1	28.6	30.9	32.9	34.7	36.3
	Through the Coil, Δ Ps		0.11	0.18	0.26	0.36	0.46	0.58	0.70	0.84

Unit Size 30 – High Capacity

Rows	Coil GPM	HD Loss	Airflow Rate (cfm)							
			300	400	500	600	700	800	900	1000
1 Row Multi Ciruit	0.5	0.25	9.0	9.8	10.4	10.8	11.2	11.5	11.7	11.9
	1	0.84	12.1	13.6	14.7	15.6	16.3	17.0	17.5	17.9
	2	2.90	14.5	16.7	18.4	19.9	21.1	22.1	23.0	23.8
	3	6.03	15.6	18.2	20.2	22.0	23.5	24.8	25.9	26.9
	Through the Coil, Δ Ps		0.03	0.05	0.07	0.09	0.11	0.14	0.17	0.21
2 Row Multi Ciruit	1	0.21	19.3	21.9	23.9	25.4	26.6	27.6	28.5	29.2
	2	0.71	23.1	27.2	30.6	33.3	35.6	37.6	39.3	40.8
	4	2.48	25.2	30.5	34.9	38.7	42.0	44.9	47.5	49.8
	6	5.18	26.1	31.8	36.7	41.0	44.8	48.2	51.2	53.9
	Through the Coil, Δ Ps		0.06	0.10	0.15	0.20	0.25	0.32	0.38	0.46

For performance notes, see end of section.

PERFORMANCE DATA

FDCLP2 with Sensible Cooling Coil (DOAS) – Heating Coil Data

Unit Size 50 – Standard Capacity

Rows	Coil GPM	HD Loss	Airflow Rate (cfm)							
			500	650	800	950	1100	1250	1400	1550
1 Row Multi Ciruit	1	0.84	13.4	14.7	15.6	16.4	17.0	17.5	18.0	18.4
	2	2.90	16.4	18.4	19.9	21.1	22.2	23.1	24.0	24.7
	3	6.03	17.8	20.1	22.0	23.5	24.9	26.1	27.1	28.1
	4	10.16	18.6	21.2	23.2	24.9	26.5	27.8	29.0	30.1
	Through the Coil, Δ Ps		0.05	0.08	0.11	0.15	0.19	0.23	0.28	0.34
2 Row Multi Ciruit	1	0.21	22.3	24.4	25.9	27.2	28.2	29.0	29.7	30.3
	2	0.71	28.0	31.7	34.5	36.9	38.9	40.6	42.0	43.3
	4	2.48	31.7	36.6	40.6	44.1	47.0	49.6	51.9	54.0
	6	5.18	33.2	38.7	43.3	47.3	50.7	53.8	56.6	59.0
	Through the Coil, Δ Ps		0.11	0.17	0.25	0.33	0.42	0.51	0.62	0.73

Unit Size 50 – High Capacity

Rows	Coil GPM	HD Loss	Airflow Rate (cfm)							
			500	650	800	950	1100	1250	1400	1550
1 Row Multi Ciruit	1	0.14	17.3	18.8	19.9	20.8	21.5	22.1	22.6	23.0
	2	0.48	23.0	25.6	27.8	29.5	31.0	32.2	33.3	34.2
	3	1.00	25.7	29.1	31.8	34.1	36.1	37.8	39.3	40.6
	4	1.68	27.2	31.1	34.3	37.0	39.3	41.3	43.1	44.7
	Through the Coil, Δ Ps		0.03	0.05	0.07	0.09	0.11	0.14	0.17	0.20
2 Row Multi Ciruit	1	0.10	26.7	29.1	30.8	32.1	33.1	34.0	34.6	35.2
	2	0.33	35.6	40.4	44.2	47.3	49.8	51.8	53.6	55.1
	4	1.15	41.6	49.0	55.1	60.2	64.6	68.5	71.8	74.8
	6	2.39	43.8	52.2	59.4	65.6	71.0	75.8	80.0	83.9
	Through the Coil, Δ Ps		0.07	0.10	0.15	0.19	0.25	0.30	0.37	0.43

Performance Notes:

1. Tabulated values are in MBH (thousands of Btu per hour).
2. Minimum air and water flow values are based on ASHRAE recommendations for coil selections. For selections below these tabulated air or water values, please consult your local Price representative.
3. HD (Head) loss is in ft. of water.
4. Through the Coil ΔPs, is the pressure drop in in. of water across the coil.
5. Air temperature rise = ATR
   ATR (°F) = 927 x MBH/cfm
6. Water temperature drop = WTD
   WTD (°F) = 2.04 x MBH/gpm
7. Values in tables are listed for 0 ft. of altitude and no glycol in the system.
8. For information outside the ranges used in the table, consult the current Price software or your Price representative for accurate coil information.
9. Cooling coils used in this unit have performance rated and certified in accordance with the current edition of AHRI Standard 410.
10. Connections: Single Circuit – 1 /2 in. OD male solder Multi Circuit – 7 /8 in. OD male solder.

price | TERMINAL UNITS

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