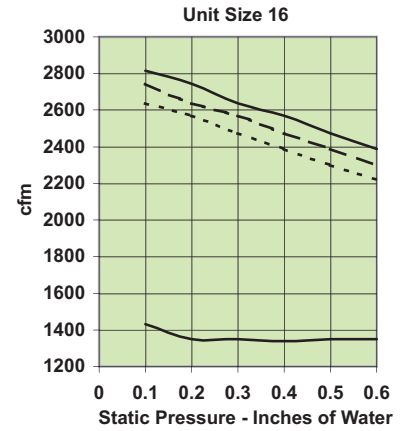
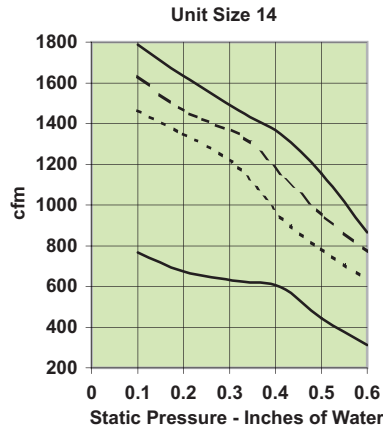
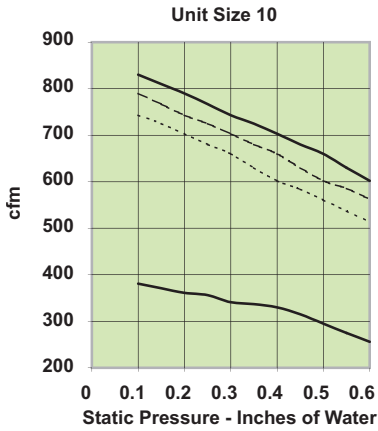
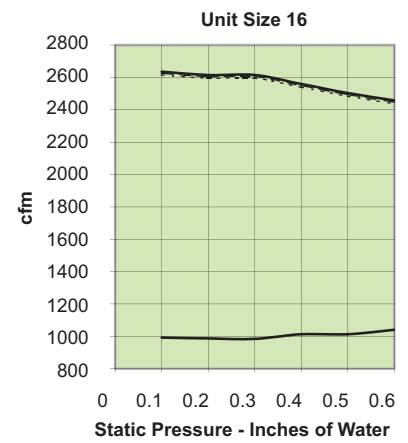
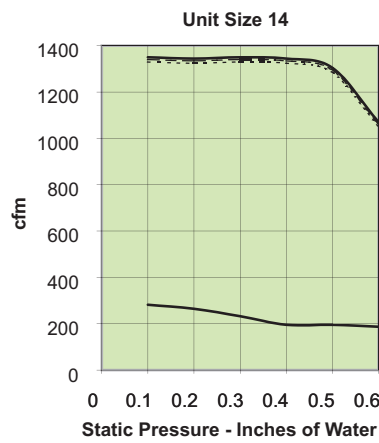
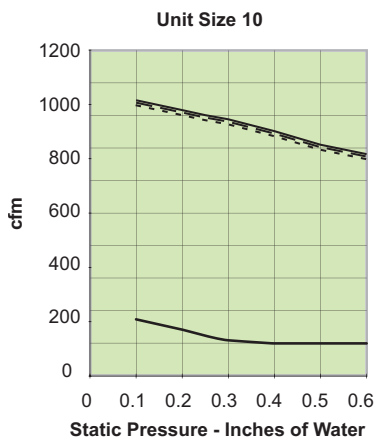


DPFC FAN CURVES



DPFC ECM FAN CURVES



No Coil or with Electric Coil ———
 1-Row Water Coil - - - - -
 2-Row Water Coil ·····

DPFC / WATER COIL HEATING CAPACITY (MBH)

Unit Size	Rows	gpm	Head Loss	Airflow, cfm								
				400	450	500	550	600	650	700	750	800
10	One Row	0.5	0.24	10.5	10.9	11.2	11.5	11.8	12.1	12.3	12.5	12.8
		1.0	0.71	12.6	13.2	13.8	14.3	14.7	15.2	15.6	15.9	16.3
		2.0	2.60	13.9	14.6	15.3	16.0	16.6	17.1	17.7	18.1	18.6
		4.0	9.78	14.6	15.5	16.3	17.0	17.7	18.3	18.9	19.5	20.0
		Airside ΔPs		0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.09	0.10
	Two Row	0.5	0.08	13.9	14.3	14.7	15.1	15.4	15.6	15.8	16.0	16.2
		1.0	0.24	19.6	20.6	21.5	22.3	23.0	23.7	24.3	24.8	25.3
		2.0	0.71	23.0	24.5	25.9	27.1	28.3	29.3	30.3	31.2	32.1
		4.0	2.63	25.0	26.8	28.5	30.0	31.5	32.8	34.1	35.3	36.4
		Airside ΔPs		0.06	0.08	0.09	0.11	0.12	0.14	0.16	0.17	0.19

- Hot water capacities are in MBH
- Data based on 180°F entering water and 65°F entering air
- Head loss is in feet of water
- Air temperature rise = 927 x MBH / cfm
- Water temperature drop = 2.04 x MBH / gpm

Unit Size	Rows	gpm	Head Loss	Airflow, cfm								
				320	480	600	750	900	1000	1130	1280	1350
14	One Row	0.5	0.27	10.2	11.7	12.7	13.3	13.9	14.2	14.6	14.9	15.1
		1.0	0.79	12.0	14.3	15.6	16.9	17.9	18.5	19.2	19.9	20.2
		2.0	2.90	13.1	15.9	17.6	19.3	20.7	21.5	22.5	23.4	23.8
		4.0	9.77	14.3	15.9	17.7	19.5	21.0	21.8	22.9	23.9	24.4
		Airside ΔPs		0.02	0.04	0.05	0.07	0.10	0.11	0.14	0.17	0.18
	Two Row	0.5	0.55	15.5	17.8	19.0	20.0	20.7	21.1	21.5	21.9	22.0
		1.0	1.53	19.3	23.7	26.0	28.3	30.1	31.0	32.1	33.2	33.7
		2.0	5.60	21.6	27.4	30.8	34.3	37.2	38.8	40.7	42.6	43.4
		4.0	3.54	23.9	31.1	35.5	40.2	44.1	46.5	49.2	52.0	53.2
		Airside ΔPs		0.04	0.07	0.10	0.14	0.19	0.23	0.28	0.34	0.37

Unit Size	Rows	gpm	Head Loss	Airflow, cfm								
				1400	1550	1700	1850	2000	2150	2300	2450	2550
16	One Row	0.5	0.04	16.6	16.9	17.1	17.4	17.6	17.7	17.9	18.1	18.2
		1.0	0.14	22.6	23.2	23.8	24.3	24.7	25.1	25.5	25.9	26.1
		2.0	0.54	26.9	27.9	28.7	29.4	30.1	30.8	31.4	31.9	32.3
		4.0	2.04	24.7	27.9	26.4	27.1	27.8	28.4	28.9	29.5	29.8
		Airside ΔPs		0.14	0.17	0.19	0.22	0.25	0.28	0.31	0.35	0.37
	Two Row	0.5	0.08	19.9	20.1	20.3	20.4	20.6	20.7	-	-	-
		1.0	0.30	33.4	34.1	34.7	35.3	35.8	36.2	-	-	-
		2.0	1.14	45.5	47.0	48.4	49.6	50.7	51.7	-	-	-
		4.0	4.31	54.0	56.3	58.4	60.3	62.0	63.6	-	-	-
		Airside ΔPs		0.28	0.34	0.39	0.45	0.51	0.57	-	-	-



DPFC / SOUND APPLICATION DATA / NC VALUES

Radiated Sound	Octave Bands					
	2	3	4	5	6	7
Environmental Effect	2	1	0	0	0	0
Ceiling/Space Effect	29	33	33	35	35	36
Total dB reduction	31	34	33	35	35	36

Per AHRI Standard 885-2008

Assumed effect for Double Gypsum Board roughly equal to access floor tile

Discharge Sound	Octave Bands					
	2	3	4	5	6	7
Environmental Effect	2	1	0	0	0	0
Duct Lining	2	6	12	25	29	18
End Reflection	9	5	2	0	0	0
Flex Duct	6	10	18	20	21	12
Space Effect	5	6	7	8	9	10
Total dB reduction	24	28	39	53	59	40

Per AHRI 885-2008

Flex Duct - Vinyl Core Flex

End Reflection - 8-inch Termination to Diffuser

Fiberglass Flex Duct - 5-foot length, 1-inch duct work

Room Size - 2400 Cubic foot Room, 5 feet from sound source

The following dB adjustments are used, per AHRI 885-2008 for the calculation of NC above 300 cfm.

	Octave Bands					
	2	3	4	5	6	7
300-700 cfm	2	1	1	-2	-5	-1
Over 700 cfm	4	3	2	-2	-7	-1

DPFC / SOUND PERFORMANCE DATA

Size	CFM	Discharge Ps	Octave Band Sound Power, Lw													
			Radiated							Discharge						
			2	3	4	5	6	7	NC	2	3	4	5	6	7	NC
10	400	0.25	64	58	56	55	47	49	18	76	65	60	57	54	51	31
	500		65	61	59	57	53	50	20	77	69	64	61	59	56	32
	600		67	63	62	60	57	51	23	77	72	67	64	62	61	32
	675		68	65	63	61	60	51	26	77	74	69	66	64	64	34
	750		68	65	63	61	60	51	26	77	74	69	66	64	64	34
14	800	0.25	69	63	61	62	62	59	28	74	65	65	63	63	60	25
	1000		71	66	64	65	65	63	31	76	69	68	66	67	64	28
	1200		72	69	66	68	68	66	34	77	73	70	70	70	68	31
	1350		73	71	67	69	70	68	36	79	75	72	72	71	70	34
	1500		74	73	68	71	71	70	37	80	77	73	74	73	72	36
16	1400	0.25	69	66	64	64	63	60	29	72	66	65	63	63	60	23
	1700		73	70	68	68	67	64	33	77	72	69	68	68	65	30
	2000		76	73	70	71	71	68	37	81	76	73	73	72	70	35
	2300		78	76	73	74	74	72	40	84	81	76	77	76	74	41
	2600		80	79	75	77	77	75	43	87	84	79	80	79	77	44

- Discharge ΔP_s , the difference in static pressure from the terminal discharge to the room
- Radiated sound power is the noise transmitted through the unit casing
- Sound power levels are in decibel, re 10^{-12} watts
- Ratings in accordance with AHRI Standard 880-2011