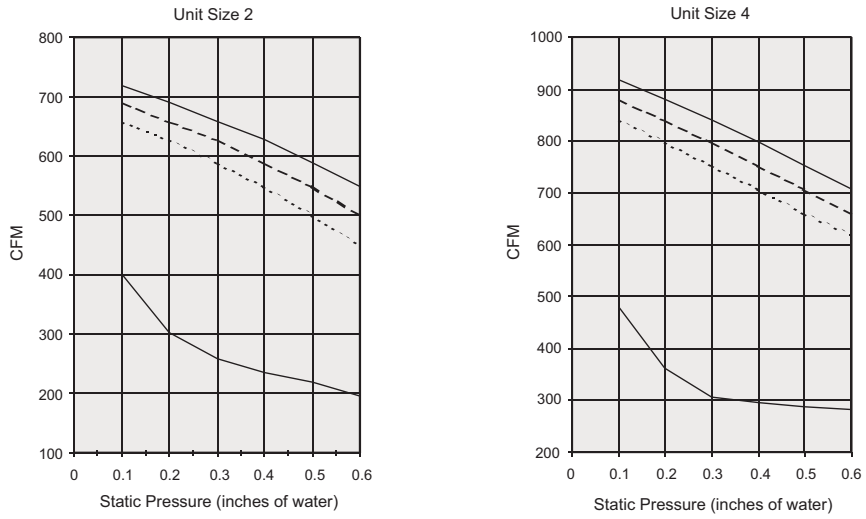
PFLP, AFLP, DFLP / AIRFLOW VS. DOWNSTREAM STATIC PRESSURE



No Coil or with Electric Coil
1 Row Water Coil
2 Row Water Coil

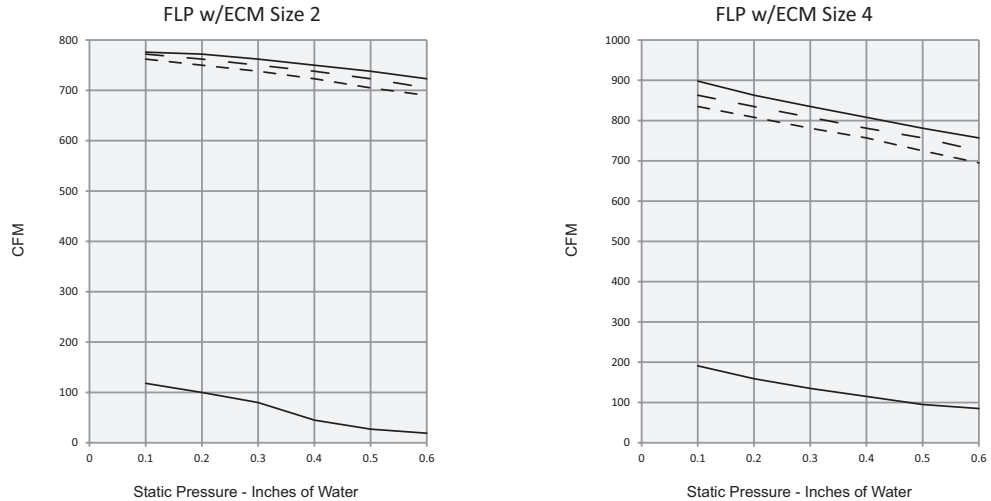
PRIMARY AIR CFM RANGES

Inlet Size	Total cfm Range	PFLP TITUS II Pneumatic Controller		PFLP TITUS I Pneumatic Controller		AFLP TITUS Analog TA1 Electronic Controller		DFLP Typical Digital Controller	
		Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
6	0-500	*80-330	150-500	*105-350	150-500	*80-500	80-500	*80-500	80-500
8	0-900	*145-590	265-900	*190-590	265-900	*145-900	145-900	*145-900	145-900
8 x 14	0-1860	325-1320	590-1860	420-1320	590-1860	325-1860	325-1860	325-1860	325-1860

Note 1: An asterisk (*) indicates Factory cfm settings (except zero) will not be made below this range because control accuracy is reduced

Note 2: For selection procedure, see the section Engineering Guidelines and the topic “ECM Motors - Fan Powered Terminals” for additional information

PFLP, AFLP, DFLP WITH ECM / AIRFLOW VS. DOWNSTREAM STATIC PRESSURE

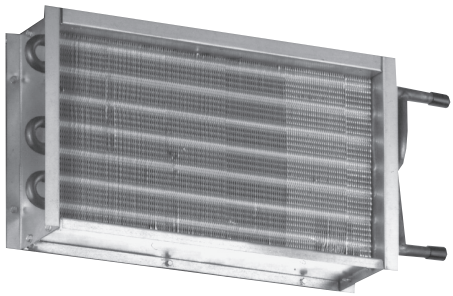


PFLP, AFLP, DFLP / WATER COIL HEATING CAPACITY (MBH)

Unit Size	Rows	gpm	Head Loss	Airflow, cfm							
				300	350	400	450	500	550	600	650
2	One Row	1.0	0.09	9.3	9.9	10.4	10.9	11.3	11.6	12.0	12.3
		2.0	0.31	10.4	11.2	11.8	12.4	13.0	13.5	13.9	14.3
		4.0	1.15	11.1	11.9	12.7	13.4	14.0	14.6	15.2	15.7
		6.0	2.52	11.3	12.3	13.0	13.8	14.4	15.1	15.6	16.2
		Airside ΔPs		0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
	Two Row	1.0	0.18	15.8	16.9	17.9	18.8	19.5	20.2	20.8	21.40
		2.0	0.57	18.0	19.6	21.1	22.4	23.5	24.6	25.6	26.50
		4.0	2.10	19.3	21.2	23.0	24.5	26.0	27.3	28.5	29.70
		6.0	4.54	19.8	21.8	23.7	25.3	26.9	28.3	29.6	30.90
		Airside ΔPs		0.06	0.07	0.09	0.11	0.13	0.15	0.18	0.20

Unit Size	Rows	gpm	Head Loss	Airflow, cfm							
				450	500	550	600	650	700	750	800
4	One Row	1.0	0.09	10.9	11.3	11.7	12.0	12.3	12.6	12.9	13.1
		2.0	0.31	12.5	13.0	13.5	14.0	14.4	14.8	15.2	15.5
		4.0	1.16	13.5	14.1	14.7	15.3	15.8	16.2	16.7	17.1
		6.0	2.53	13.9	14.5	15.2	15.7	16.3	16.8	17.2	17.7
		Airside ΔPs		0.06	0.07	0.08	0.09	0.10	0.11	0.13	0.14
	Two Row	1.0	0.19	18.8	19.6	20.3	20.9	21.5	22.0	22.5	22.9
		2.0	0.57	22.5	23.6	24.7	25.7	26.6	27.4	28.2	28.9
		4.0	2.10	24.6	26.1	27.4	28.7	29.8	30.9	31.9	32.8
		6.0	4.57	25.4	27.0	28.4	29.8	31.0	32.2	33.3	34.4
		Airside ΔPs		0.11	0.13	0.15	0.17	0.20	0.22	0.25	0.28

- All coil performance in accordance with AHRI 410-2001
- Heating capacities are in MBH
- Data based on 180°F entering water and 75°F entering air
- For temperature differentials other than 105°, multiply MBH by correction factors below
- Head loss is in feet of water
- Always supply water to lowest connection pipe to prevent air entrapment
- Air temperature rise = 927 x MBH/cfm
- Water temperature drop = 2.04 x MBH/gpm
- Connection size is ½" OD male solder
- Coils are not intended for steam applications and are labeled for a maximum water temperature of 200°F
- Coils are tested for leakage at test pressure of 500 psi
- Water volumes less than those shown may result in laminar flow and reduced heating capacity. If possible reduce the number of coil rows to increase water velocity into turbulent range.



Correction factors for other entering conditions:

ΔT	50	60	70	80	90	100	115	125	140	150
Factor	0.52	0.62	0.69	0.78	0.87	0.96	1.08	1.15	1.28	1.38

PFLP, AFLP, DFLP - RADIATED SOUND PERFORMANCE - PRIMARY AIR ONLY

Size	CFM	Min ΔPs	Octave Band Sound Power, Lw																			
			1.0"ΔPs							1.5" ΔPs							2.0" ΔPs						
			2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC
206	300	0.15	61	56	52	45	40	33	**27**	63	58	53	46	41	34	**28**	65	59	54	47	42	36	**29**
	350	0.21	62	57	53	46	40	34	**28**	64	59	54	47	42	36	**29**	66	60	55	48	42	37	**30**
	400	0.27	63	58	53	47	41	35	**28**	65	60	55	48	42	36	**30**	66	62	56	48	43	38	**32**
	450	0.35	64	60	54	47	41	35	**30**	66	61	55	48	43	37	**31**	67	63	56	49	43	39	**33**
	500	0.43	65	61	55	48	42	36	**31**	67	62	56	49	43	38	**32**	68	64	57	49	44	39	**35**
208	600	0.15	67	60	54	49	44	39	**31**	68	62	56	50	46	41	**32**	69	64	58	51	47	42	**34**
	650	0.17	67	61	55	49	44	39	**31**	69	63	57	51	46	42	**33**	70	64	58	51	47	43	**34**
	700	0.2	68	62	56	50	45	40	**32**	70	64	57	51	47	42	**34**	71	65	59	52	48	44	**36**
	750	0.23	69	63	56	50	46	40	**33**	70	65	58	52	47	43	**35**	71	66	59	53	49	44	**36**
	800	0.26	69	64	57	51	46	41	**34**	71	66	59	52	48	43	**36**	72	67	60	53	49	45	**37**
422 (8x14)	1250	0.58	68	60	58	56	49	45	**33**	70	64	61	60	52	50	**36**	72	66	63	63	55	54	**38**
	1400	0.73	68	61	58	57	49	46	**33**	71	64	62	61	53	51	**37**	73	66	64	64	56	55	**39**
	1550	0.89	69	61	59	58	50	47	**34**	72	65	62	62	54	52	**37**	74	67	65	65	56	56	**40**
	1700	1.07	NA	NA	NA	NA	NA	NA	**NA**	72	65	63	63	54	53	**38**	74	67	65	66	57	57	**40**
	1850	1.27	NA	NA	NA	NA	NA	NA	**NA**	73	65	63	64	55	54	**38**	75	68	66	67	57	58	**41**

PFLP, AFLP, DFLP - RADIATED SOUND PERFORMANCE - FAN ONLY

Size	CFM	Discharge Ps	Octave Band Sound Power, Lw						
			Fan Only						
			2	3	4	5	6	7	NC
2	300	0.25	58	54	54	48	40	28	**28**
	400		61	57	57	52	44	33	**31**
	500		65	60	59	55	48	37	**34**
	600		67	61	61	57	50	40	**36**
	650		68	62	62	58	51	42	**37**
4	400	0.25	62	59	61	51	42	32	**36**
	500		65	62	63	54	46	36	**38**
	600		68	64	65	57	50	40	**40**
	700		70	65	66	60	52	43	**41**
	850		72	67	67	63	56	47	**42**

PFLP, AFLP, DFLP / DISCHARGE SOUND PERFORMANCE / PRIMARY AIR ONLY

Size	CFM	Min ΔPs	Octave Band Sound Power, Lw																			
			1.0"ΔPs							1.5" ΔPs							2.0" ΔPs						
			2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC
206	300	0.15	63	57	50	44	39	32	**15**	66	60	53	47	42	35	**19**	68	62	56	49	44	36	**21**
	350	0.21	65	60	52	46	42	34	**18**	68	62	55	49	44	37	**21**	70	65	57	51	47	39	**24**
	400	0.27	67	61	53	47	44	36	**20**	69	64	57	50	46	39	**23**	71	67	59	52	49	41	**26**
	450	0.35	68	63	55	49	45	38	**21**	71	66	58	52	48	41	**25**	72	68	60	54	50	43	**27**
	500	0.43	69	65	56	50	47	40	**24**	72	68	59	53	50	42	**27**	74	70	62	55	52	44	**30**
208	600	0.15	71	68	58	53	50	42	**27**	74	71	61	56	53	45	**31**	76	73	64	58	55	47	**33**
	650	0.17	72	69	59	54	51	44	**28**	75	72	62	57	54	46	**32**	76	74	65	59	56	48	**34**
	700	0.2	73	70	60	55	52	45	**30**	75	73	63	58	55	47	**33**	77	75	65	60	57	49	**36**
	750	0.23	74	71	61	56	53	46	**30**	76	74	64	59	56	48	**33**	78	76	66	61	58	50	**36**
	800	0.26	74	72	61	56	54	47	**31**	77	75	65	59	57	49	**34**	79	77	67	61	59	51	**37**
422 (8x14)	1250	0.58	74	68	63	58	55	49	**26**	78	72	67	64	59	54	**31**	80	75	70	67	61	57	**34**
	1400	0.73	75	68	64	59	56	50	**28**	78	72	68	64	59	55	**31**	81	75	70	68	62	58	**35**
	1550	0.89	75	69	64	60	57	51	**28**	79	73	68	65	60	56	**33**	81	76	71	68	63	59	**36**
	1700	1.07	NA	NA	NA	NA	NA	NA	**NA**	79	73	69	65	61	56	**33**	82	76	71	69	64	59	**36**
	1850	1.27	NA	NA	NA	NA	NA	NA	**NA**	80	73	69	66	62	57	**34**	82	76	72	69	64	60	**36**

PFLP, AFLP, DFLP / DISCHARGE SOUND PERFORMANCE / FAN ONLY

Size	CFM	Discharge Ps	Octave Band Sound Power, Lw						
			Fan Only						
			2	3	4	5	6	7	NC
2	300	0.25	67	63	59	55	50	46	**21**
	400		69	65	61	57	52	49	**24**
	500		71	67	62	59	54	51	**26**
	600		72	68	64	60	56	53	**27**
	650		73	69	64	61	56	54	**28**
4	400	0.25	74	68	65	62	57	57	**29**
	500		76	70	66	65	60	60	**31**
	600		77	71	68	67	62	63	**33**
	700		78	73	69	69	64	66	**34**
	850		80	75	71	71	66	69	**34**

PFLP, AFLP, DFLP / SOUND POWER LEVELS / FAN ONLY / HEATING CYCLE

Size	cfm	Radiated Sound Power						Discharge Sound Power					
		Octave Bands						Octave Bands					
		2	3	4	5	6	7	2	3	4	5	6	7
2	300	58	54	54	48	40	28	59	59	58	55	50	46
	400	62	57	57	52	44	33	61	61	60	57	52	49
	500	65	60	59	55	48	37	63	63	61	59	54	51
	600	67	61	61	57	50	40	64	64	63	60	56	53
	700	69	63	63	59	52	43	66	65	64	61	57	54
4	400	62	59	61	51	42	32	67	65	64	62	57	57
	500	65	62	63	54	46	36	69	67	65	65	60	60
	600	68	64	65	57	50	40	70	68	67	67	62	63
	700	70	65	66	60	52	43	71	70	68	69	64	66
	800	72	67	67	62	55	45	72	71	69	70	66	68