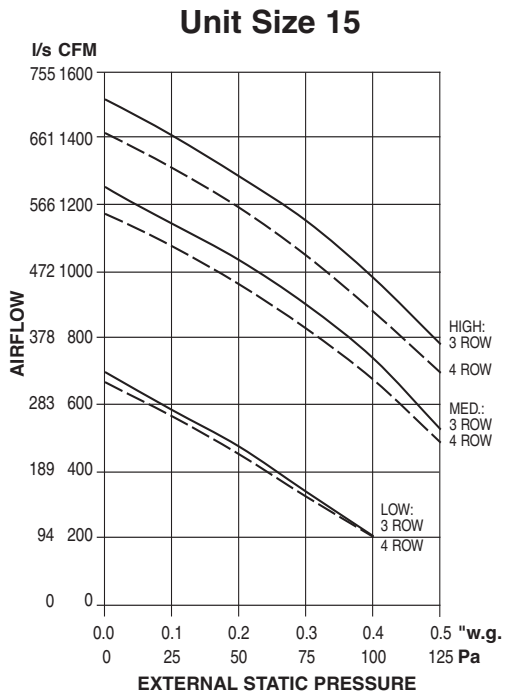
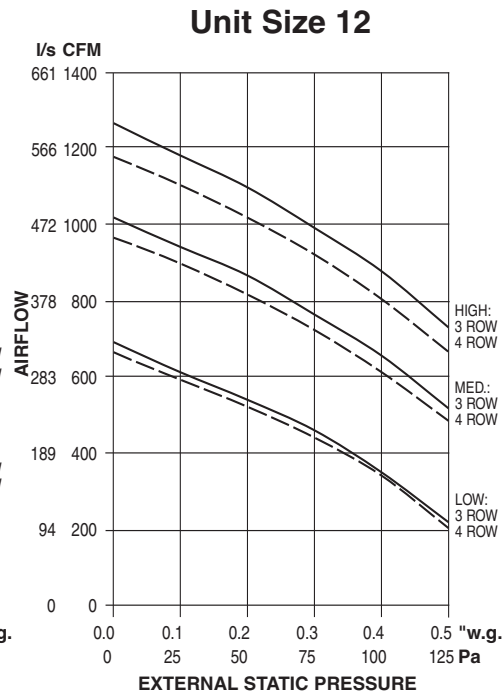
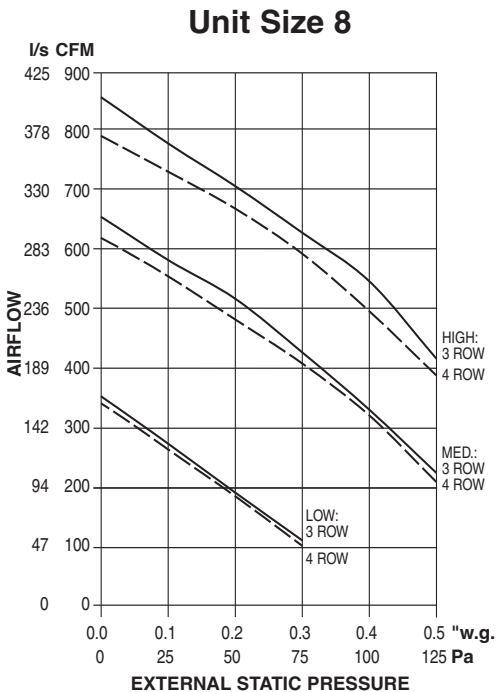
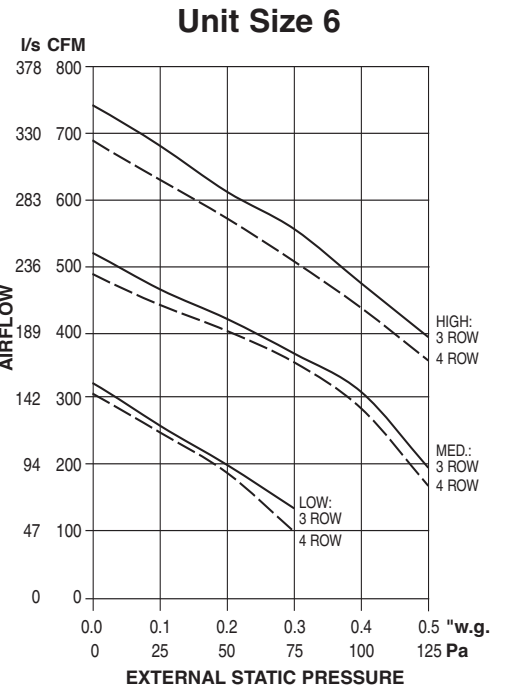
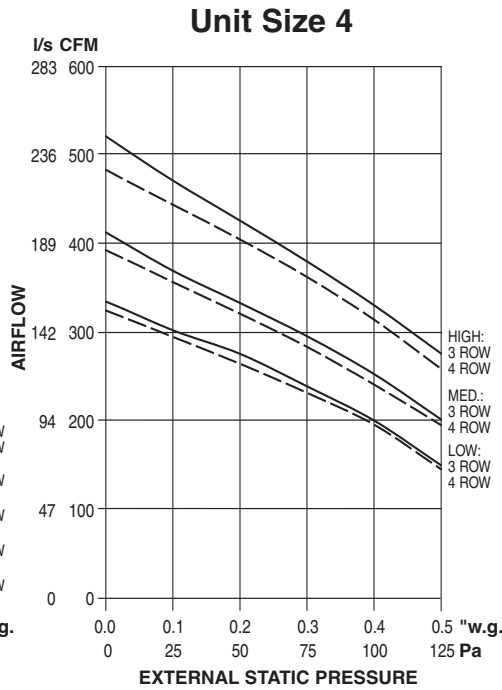
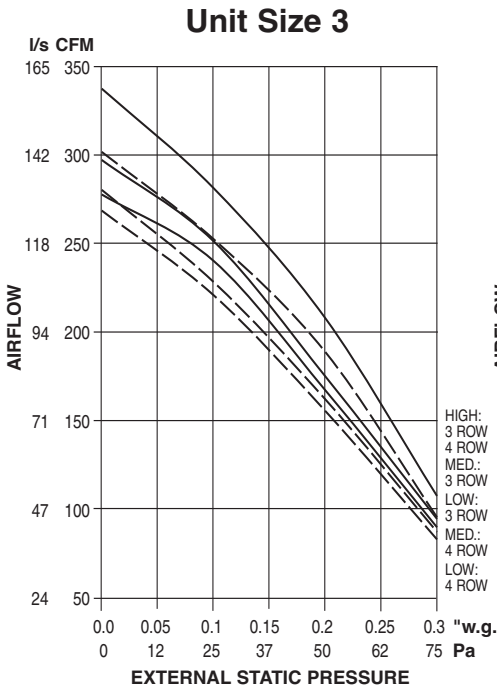


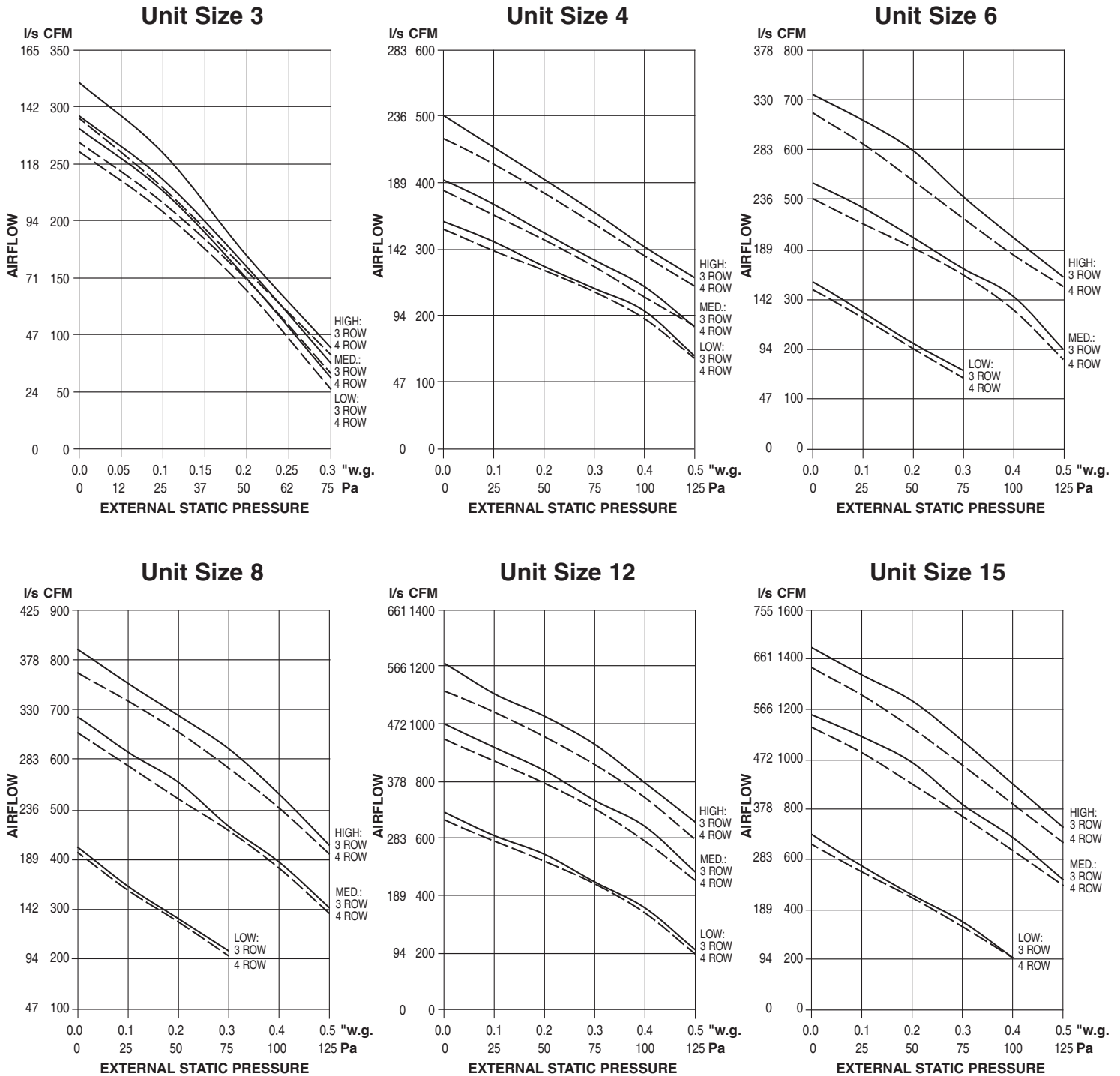
## Model 40HF Free Return • PSC Motor Fan Performance Curves Airflow vs. External Static Pressure



### PSC MOTOR FAN NOTES:

1. Permanent split capacitor (PSC) motors are of the three speed type with separate taps (High, Medium and Low) which provide variable horsepower outputs. Commonly, units are selected and sized on a conservative basis and actual airflow and/or external static pressure requirements are lower than specified. When this is the case, the unit fan motor can be run at low or medium speed, reducing power consumption and operating cost.
2. All fan curves shown are for 120 volt single phase, 3-speed PSC motors and include internal losses for cabinet, electric heater and 3 or 4 row water coil.
3. For other coil combinations and filters, adjust performance curves based on pressure losses or use Selectworks.
4. Filter pressure drops table shown on page ???.

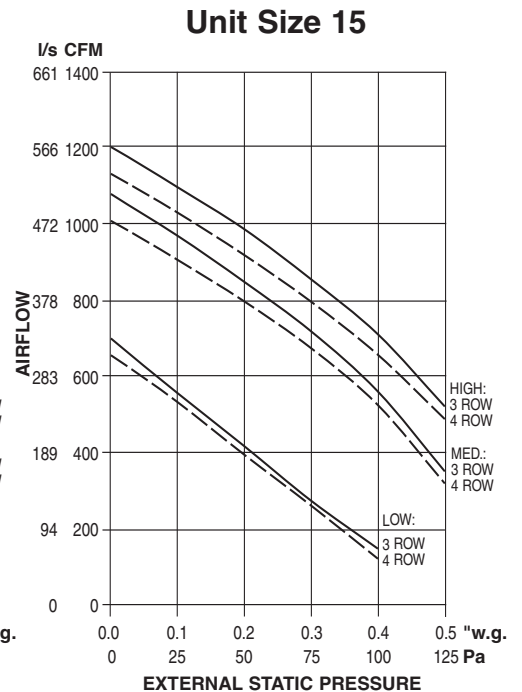
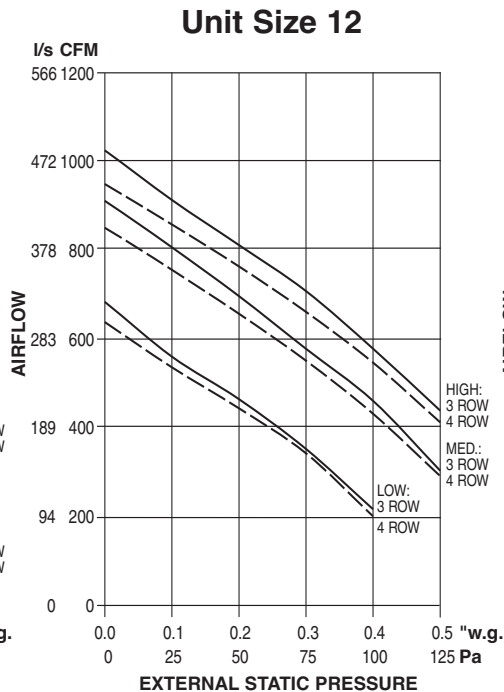
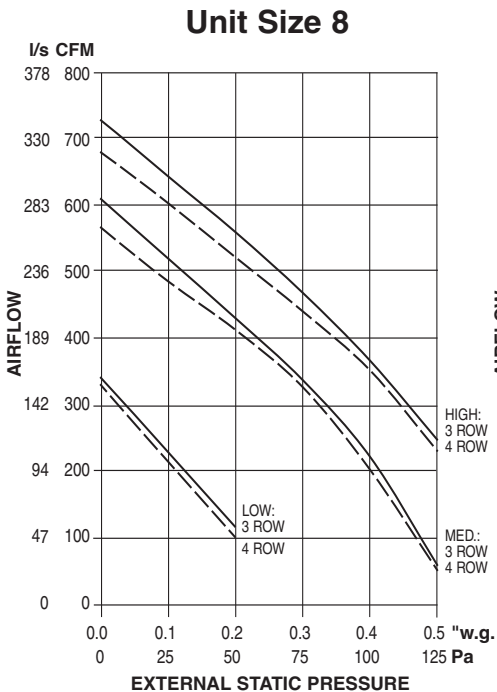
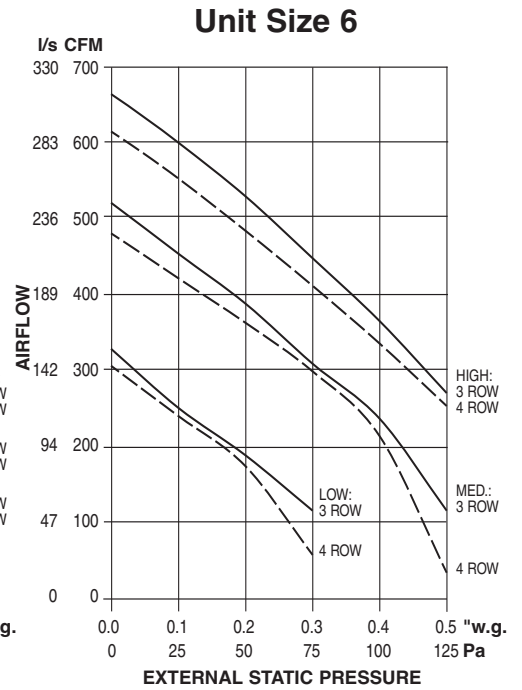
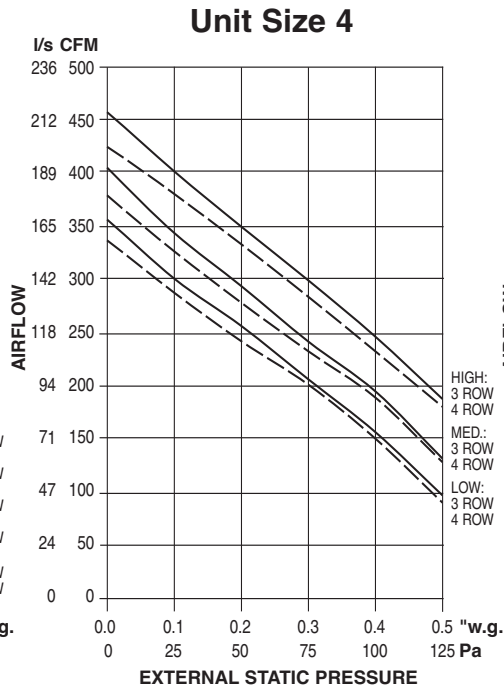
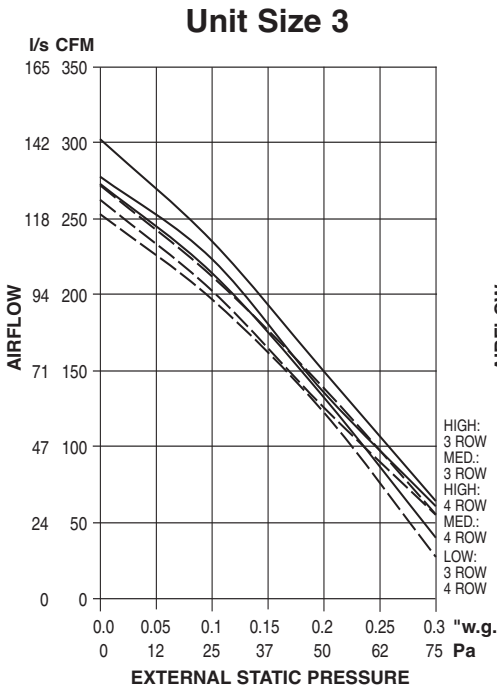
## Models 40HP Plenum & 40HT Telescoping • PSC Motor Fan Performance Curves Airflow vs. External Static Pressure



### PSC MOTOR FAN NOTES:

1. Permanent split capacitor (PSC) motors are of the three speed type with separate taps (High, Medium and Low) which provide variable horsepower outputs. Commonly, units are selected and sized on a conservative basis and actual airflow and/or external static pressure requirements are lower than specified. When this is the case, the unit fan motor can be run at low or medium speed, reducing power consumption and operating cost.
2. All fan curves shown are for 120 volt single phase, 3-speed PSC motors and include internal losses for cabinet, electric heater and 3 or 4 row water coil.
3. For other coil combinations and filters, adjust performance curves based on pressure losses or use Selectworks.
4. Filter pressure drops table shown on page ???.

## Model 40HX Exposed Cabinet • PSC Motor Fan Performance Curves Airflow vs. External Static Pressure



### PCS MOTOR FAN NOTES:

1. Permanent split capacitor (PSC) motors are of the three speed type with separate taps (High, Medium and Low) which provide variable horsepower outputs. Commonly, units are selected and sized on a conservative basis and actual airflow and/or external static pressure requirements are lower than specified. When this is the case, the unit fan motor can be run at low or medium speed, reducing power consumption and operating cost.
2. All fan curves shown are for 120 volt single phase, 3-speed PSC motors and include internal losses for cabinet, electric heater and 3 or 4 row water coil.
3. For other coil combinations and filters, adjust performance curves based on pressure losses or use Selectworks.
4. Filter pressure drops table shown on page ???.

## Performance Data • AHRI Standard Ratings • Cooling Capacity

Unit Size	Water Coil				Airflow CFM (Dry Flow)	Cooling Capacity		Water		Power Input (Watts)
	Rows	FPI	Circ.	Conn.		QT (BTUH)	QS (BTUH)	Flow Rate (GPM)	WPD ft. w.g.	
<b>MODEL: 40HF • FREE RETURN</b>										
3	3	12	2	0.625	300	8200	6100	1.7	1.1	75
	4	12	2	0.625	265	9600	6500	2.0	1.9	75
4	3	12	2	0.625	470	12400	9300	2.6	2.8	150
	4	12	2	0.625	430	14900	10200	3.0	5.2	140
6	3	12	2	0.625	660	17100	12800	3.5	5.9	200
	4	12	2	0.625	600	20400	14000	4.2	10.8	190
8	3	12	3	0.625	770	20500	15200	4.3	4.5	230
	4	12	3	0.625	700	24400	16700	5.0	7.7	210
12	3	12	3	0.625	1150	29900	22200	6.2	10.7	350
	4	12	4	0.625	1060	34100	23900	7.0	9.1	310
15	3	12	3	0.875	1360	36900	26800	7.7	14.0	420
	4	12	4	0.875	1260	42100	29100	8.6	10.6	370
<b>MODELS: 40HP • PLENUM, 40HT • TELESCOPING</b>										
3	3	12	2	0.625	285	8000	5900	1.6	1.0	70
	4	12	2	0.625	245	9100	6100	1.9	1.7	70
4	3	12	2	0.625	450	12100	9000	2.5	2.6	140
	4	12	2	0.625	410	14400	9800	2.9	4.9	130
6	3	12	2	0.625	650	17000	12700	3.5	5.7	180
	4	12	2	0.625	580	20000	13700	4.1	10.3	170
8	3	12	3	0.625	730	19900	14600	4.1	4.2	235
	4	12	3	0.625	660	23400	15900	4.8	7.1	220
12	3	12	3	0.625	1090	29000	21400	6.0	10.1	330
	4	12	4	0.625	1000	32900	22900	6.7	8.5	290
15	3	12	3	0.875	1300	36000	26000	7.5	13.4	410
	4	12	4	0.875	1200	40700	27900	8.4	10.0	390
<b>MODEL: 40HX • EXPOSED CABINET</b>										
3	3	12	2	0.625	250	7300	5400	1.5	0.9	65
	4	12	2	0.625	215	8300	5500	1.7	1.4	65
4	3	12	2	0.625	380	10900	7900	2.3	2.2	130
	4	12	2	0.625	340	12700	8500	2.7	3.8	120
6	3	12	2	0.625	590	16100	11800	3.3	5.1	165
	4	12	2	0.625	490	17900	12000	3.7	8.3	155
8	3	12	3	0.625	610	17800	12700	3.7	3.4	220
	4	12	3	0.625	500	19300	12700	4.0	4.9	205
12	3	12	3	0.625	790	23900	16800	4.9	6.9	280
	4	12	4	0.625	750	27100	18200	5.6	5.9	270
15	3	12	3	0.875	1000	30700	21400	6.4	9.9	350
	4	12	4	0.875	930	34300	22900	7.1	7.2	340



**NOTES:**

1. Based on 80°F DB and 67°F WB EAT, 45°F EWT, 10°F water temperature rise, high fan speed. Motor type is 3-speed PSC, 120 volt single phase. Airflow under dry conditions. Models 40HF and 40HP tested at 0.05" w.g. external static pressure. Model 40HX tested at 0.0" w.g. external static pressure with filter.



## Performance Data • Heating Capacity

Unit Size	Water Coil				Airflow CFM	Heating Capacity (MBH)	LAT (°F)	Water		Power Input (Watts)
	Rows	FPI	Circ.	Conn.				Flow Rate (GPM)	WPD ft. w.g.	
<b>MODEL: 40HF • FREE RETURN</b>										
3	1	12	1	0.625	250	9.3	103	0.5	0.14	75
	2	12	1	0.625	250	15.6	126	0.8	0.82	75
4	1	12	1	0.625	400	13.9	101	0.7	0.36	150
	2	12	1	0.625	400	23.6	123	1.2	2.11	140
6	1	12	1	0.625	500	17.5	101	0.9	0.64	200
	2	12	1	0.625	500	29.6	123	1.5	3.72	190
8	1	12	1	0.625	750	25.5	100	1.3	1.7	230
	2	12	2	0.625	750	41.1	120	2.1	1.13	210
12	1	12	1	0.625	1000	33.9	100	1.7	3.46	350
	2	12	2	0.625	1000	54.7	119	2.7	2.36	310
15	1	12	1	0.625	1400	41.3	96	2.0	0.75	420
	2	12	2	0.625	1400	73.3	117	3.7	4.85	370
<b>MODELS: 40HP • PLENUM, 40HT • TELESCOPING</b>										
3	1	12	1	0.625	250	9.3	103	0.5	0.14	75
	2	12	1	0.625	250	15.6	126	0.8	0.82	75
4	1	12	1	0.625	400	13.9	101	0.7	0.36	150
	2	12	1	0.625	400	23.6	123	1.2	2.11	140
6	1	12	1	0.625	500	17.5	101	0.9	0.64	200
	2	12	1	0.625	500	29.6	123	1.5	3.72	190
8	1	12	1	0.625	750	25.5	100	1.3	1.70	230
	2	12	2	0.625	750	41.1	120	2.1	1.13	210
12	1	12	1	0.625	1000	33.9	100	1.7	3.46	350
	2	12	2	0.625	1000	54.7	119	2.7	2.36	310
15	1	12	1	0.625	1400	41.3	96	2.0	0.75	420
	2	12	2	0.625	1400	73.3	117	3.7	4.85	370
<b>MODEL: 40HX • EXPOSED CABINET</b>										
3	1	12	1	0.625	250	9.3	103	0.5	0.14	65
	2	12	1	0.625	250	15.6	126	0.8	0.82	65
4	1	12	1	0.625	400	13.9	101	0.7	0.36	130
	2	12	1	0.625	400	23.6	123	1.2	2.11	120
6	1	12	1	0.625	500	17.5	101	0.9	0.64	165
	2	12	1	0.625	500	29.6	123	1.5	3.72	155
8	1	12	1	0.625	750	25.5	100	1.3	1.7	220
	2	12	2	0.625	750	41.1	120	2.1	1.13	205
12	1	12	1	0.625	1000	33.9	100	1.7	3.46	280
	2	12	2	0.625	1000	54.7	119	2.7	2.36	270
15	1	12	1	0.625	1400	41.3	96	2.0	0.75	350
	2	12	2	0.625	1400	73.3	117	3.7	4.85	340

### NOTES:

1. Based on 70°F DB EAT, 180°F EWT, 40°F water temperature drop, high fan speed. Models 40HF and 40HP tested at 0.05" w.g. external static pressure. Model 40HX tested at 0.0" w.g. external static pressure with filter.