

# ***Modular Small Cabinet Fan***

## **Model MSCF**



- ***Modular Design***
- ***Ultra-Low Profile***
- ***Easy Access***

## Unique Construction Features



**Ultra-Low Profile** - Compact design enables unit to be placed in tight ceiling spaces.

**Double Wall** - Allows unit to be wiped down with a dry or damp rag. Eliminates exposed insulation fibers and reduces the contaminants in the air stream such as mildew and mold. It has a solid interior liner with 1 inch, 1.5 lb. density fiberglass insulation between the walls to prevent unit from sweating or dripping. (3 pound optional)

**Lifting Lug/Mounting Bracket** - Enable installers to lift unit into place and may be used to fasten the unit to a permanent fixed structure.

**Insulated Stainless Steel Drain Pan** - Corrosion resistant drain pan utilizes a sloped, double pitched, two connection design to prevent overflowing, directing the condensation to either a main or auxiliary drain connection. It is insulated with an additional 1 inch of 1.5 lb density fiberglass insulation.

**Side Access Panels** - Two panels on every module are interchangeable and may be removed for inspection or servicing and are bolted to the unit. Bolt holes are threaded to prevent it from stripping out while tightening. Removal of either side panel allows easy access to all internal components. (1/4 turn fasteners optional)

**Inlet/Outlet Duct Collars** - Collars provide for quick, easy duct connection.

**Drive Frame** - This unique drive frame is mounted to a rail, which allows it to slide making belt tensioning easy. The drive frame is constructed of heavy gauge steel enabling it to support the motor, scroll, and wheel to ensure long life and durability.

**Vibration Isolation** - Internal neoprene isolators reduce the transmission of noise and vibration to the building structure. They are placed between the housing and the drive frame rail, which supports the entire drive assembly, wheel, and scroll to assure long life and quiet operation. (Spring isolators are optional)

**Motor** - Motors are carefully matched to the fan load for every application. In the event that a heating coil is used, the max motor temperature is 40 degrees C (104 degrees F), based on the motor ambient rating.

**Belts/Sheaves/Pulleys** - Belts and pulleys are sized for 150% of driven horsepower. Machined cast pulleys are adjustable for final system balancing. Belts are static free and oil resistant.

**Bearings with Grease Fittings** - Sealed cast pillow block bearings are 100% factory tested and designed specifically for air handling applications with minimum (L10) life in excess of 100,000 hours.

**Shafts** - Turned, ground, and polished to precise tolerances. Close tolerance between the shaft and bearing result in longer life.

**Wheel** - The MSCF houses a forward curved wheel (FC). All wheels are statically and dynamically balanced to ensure smooth vibration free operation. The FC wheel is constructed of galvanized steel and provides high efficiency with low sound levels.

**Name Plate** - A mylar name plate is used for model, mark and serial number identification.

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# Options and Accessories

**Sealed Double Wall** - Allows the unit to be wiped down with hot water. Eliminates exposed insulation fibers from entering the air stream and significantly reduces the chance of mildew or mold buildup.

**Insulation** - Cabinet may also be selected with 1 inch, 3 lb. density hardboard insulation.

**Spring Vibration Isolation** - Internal spring vibration is available on all units 14 inches and taller.

**Base or Hanging isolators** - Complete base and hanging isolator kits are available with either neoprene or spring isolators. The isolators are sized to match the weight of the fan. (Hanging rods supplied by others)

**Disconnect Switch** - Nema-1 switch is factory mounted and wiring is provided from the motor as standard (other switches are available). All wiring and electrical components comply with the National Electric Codes (NEC) and are either UL listed or recognized.

**Coils** - Available for both heating and cooling applications. Coil modules may be attach in any order.

**Hot Water** - 1 or 2 or 4 row

**Chilled Water** - 4, 6, or 8 row

**Direct Expansion** - 4, 6, or 8 row - Sizes 45-85 will have Interlaced DX Coils

**Steam** - 1 or 2 row

**Electric** - See CAPS for more information

**Filters** - Sloped or vertical pre-filters are available as either aluminum or pleated. Aluminum 2 inch filters are 70% efficient and the 4 inch pleated filters efficiencies are MERV-8 (30%) and MERV-11 (60%).

**Mixing Box** - The mixing box may be configured in multiple ways. Inlet positions may be selected in any two of the three inlet positions, top, end, or bottom. Selection include dampers, 24 volt actuators and vertical or sloped filter banks.

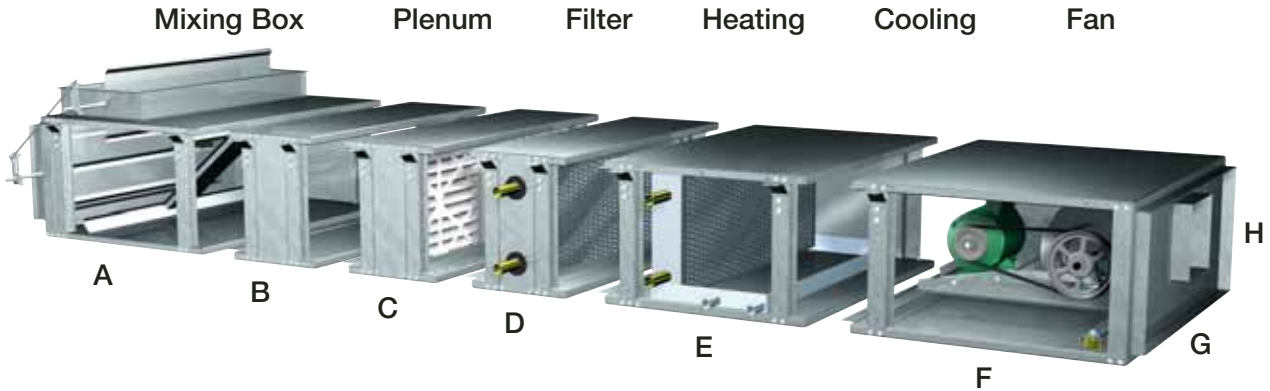
**Plenums** - Access plenums may be placed between any module providing additional access, space for mounting controls, or reducing turbulent air.

**1/4 Turn Fasteners** - An option that allows easy access to module without any tools necessary.

**Stainless Steel Shafts** - are available in all sizes.



# MSCF General Data



## MSCF Dimensional Data

Unit Size	A		B		C		D	E	F	G	H	Inlet		Outlet	
	w/o Filter	w/ Filter	12"	24"	Vertical	Sloped						Height	Width	Height	Width
15	11.0	24.5	12.75	24.5	12.75	24.5	12.75	24.5	25	38	11.0	9.0	36	6.75	4.0
20	14.0	24.5	12.75	24.5	12.75	24.5	12.75	24.5	25	38	14.0	12.0	36	6.75	6.5
25	16.0	27.0	12.75	24.5	12.75	27.0	12.75	24.5	29	38	16.0	14.0	36	8.50	8.0
30	18.5	31.0	12.75	24.5	12.75	31.0	12.75	24.5	32	38	18.5	16.5	36	9.00	9.0
45	18.5	32.0	12.75	24.5	12.75	32.0	12.75	24.5	32	50	18.5	16.5	36	10.00	9.0
50	21.0	32.0	12.75	24.5	12.75	32.0	12.75	24.5	38	50	21.0	19.0	48	10.00	6.5
65	26.0	38.0	12.75	24.5	12.75	38.0	12.75	24.5	42	50	26.0	24.0	48	12.75	12.0
85	26.0	38.0	12.75	24.5	12.75	38.0	12.75	24.5	42	62	26.0	24.0	60	15.00	12.0

For complete dimensional information, see CAPS submittal drawings. All dimensions are in inches.

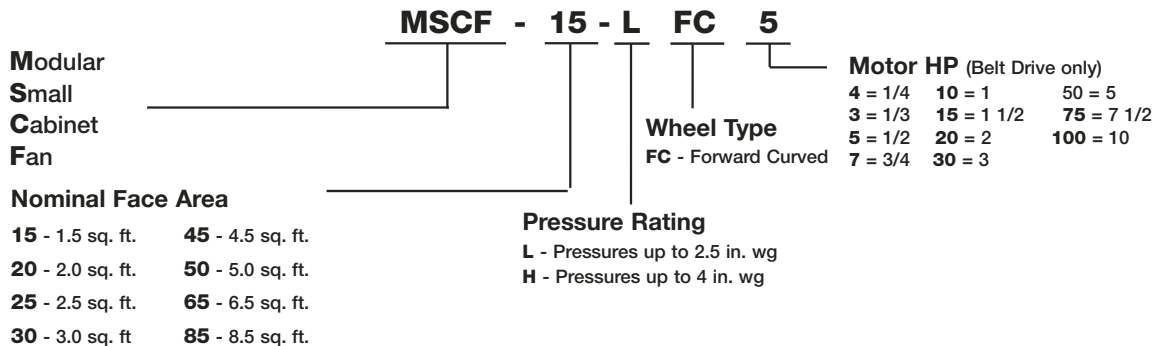
## MSCF Weight Information

Unit Size	A		B		C		D	E	F		Total
	w/o Filter	w/ Filter	12"	24"	Vertical	Sloped			HW	CW/DX	
15	80	107	31	57	34	61	61	145	94	50	144
20	95	126	36	68	41	72	72	171	111	50	161
25	105	140	40	75	45	80	80	190	130	60	190
30	118	157	45	84	50	90	88	209	150	75	225
45	132	176	50	94	55	100	99	234	194	75	269
50	151	202	58	108	64	115	113	269	253	100	353
65	197	263	75	141	77	150	136	323	328	125	453
85	226	302	85	170	90	175	140	350	360	140	500

For complete dimensional information, see CAPS submittal drawings. All dimensions are in pounds.

## Model Number Code

The Model number system is designed to identify the fan. The correct code letters must be specified to designate size, pressure rating, wheel type and horsepower. The remainder of the model number is determined by the size and performance selected from pages 5 through 15.

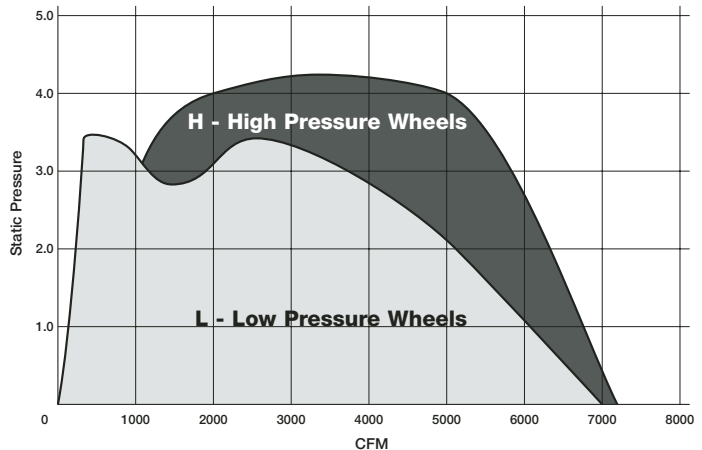


# MSCF General Data



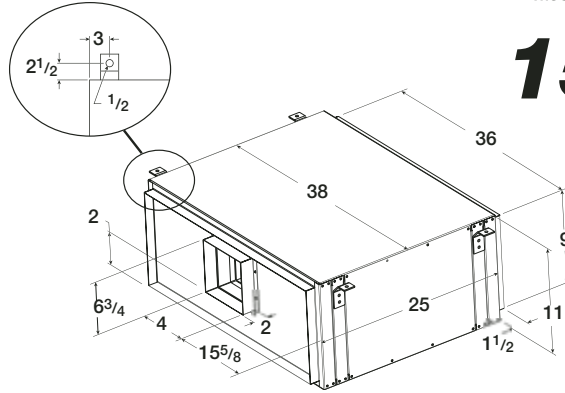
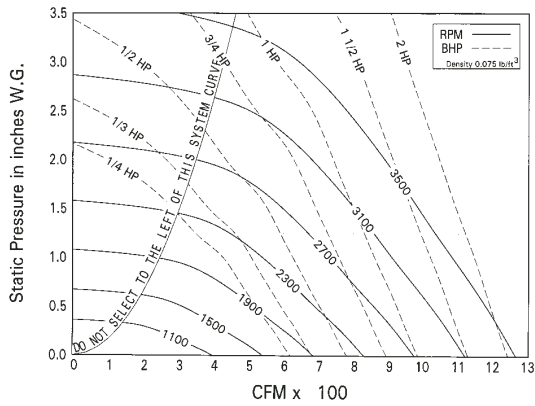
Unit Size Nominal CFM	15 800	20 1100	25 1350	30 1600	45 2250	50 2600	65 3350	85 4300
<b>Fan/Motor Data</b>								
RPM Range	1100 - 3500	1100 - 3500	800 - 3050	750 - 2500	725 - 2400	650 - 2200	500 - 2000	500 - 2200
HP Range	.25 - 2	.25 - 2	.25 - 3	.25 - 3	.25 - 3	.25 - 5	.25 - 7.5	.25 - 10
Max. BHP	2.1	2.1	3.15	3.15	3.15	5.25	7.875	10.5
CFM Range	300 - 800	600 - 1100	900 - 1800	1200 - 2400	1500 - 2900	1800 - 3600	2400 - 4200	3000 - 5800
<b>Vertical Filter Data</b>								
Qty. & Size - in.	2- 9x18	1-12x12 1-12x24	2-14x18	1-16x16 1-16x20	2-16x24	2-18x24	2-24x24	1-12x24 2-24x24
Area - ft <sup>2</sup>	1.8	2.5	3	3.4	4.8	5.4	7.2	8.9
Velocity - ft/min.	444	440	450	471	469	481	465	483
<b>Sloped Filter Data</b>								
Qty. & Size - in.	1 - 12x12 1 - 12x24	1 - 16x16 1 - 16x20	2 - 16x20	1 - 12x24 1 - 24x24	2 - 24x24	2 - 24x24	4 - 24x24	2 - 12x24 4 - 24x24
Area - ft <sup>2</sup>	2.5	3.4	3.8	5.3	7.2	7.2	14.4	17.8
Velocity - ft/min.	320	324	355	302	313	361	233	242
<b>Coil Data</b>								
Area - ft <sup>2</sup>	1.6	2.2	2.7	3.2	4.5	5.2	6.7	8.6
Width - in.	7.50	10.00	12.50	15.00	15.00	17.50	22.50	22.50
Length - in.	31.00	31.00	31.00	31.00	43.00	43.00	43.00	55.00
Velocity- ft/min.	500	500	500	500	500	500	500	500
<b>1 - Row</b>								
Max. gpm	20	28	35	42	42	48	62	62
Dry coil weight - lbs.	6.2	8.1	10.5	12.3	14.7	17.9	24.7	28.2
Wet coil weight - lbs.	7.6	10.0	13.6	16.0	19.2	24.0	33.6	37.5
<b>2 - Row</b>								
Max. gpm	20	28	35	42	42	48	62	62
Dry coil weight - lbs.	9.5	12.6	16.1	19.2	23.6	28.3	37.5	44.2
Wet coil weight - lbs.	12.1	16.2	20.5	24.4	30.6	38.6	51.6	61
<b>4 - Row</b>								
Max. gpm	10	14	16	20	20	24	30	30
Dry coil weight - lbs.	16.2	21.3	27.1	32.3	41.1	50.0	63.7	77.0
Wet coil weight - lbs.	21.5	28.3	35.9	42.7	55.0	69.1	88.1	106.8
<b>6 - Row</b>								
Max. gpm	10	14	16	20	20	24	30	30
Dry coil weight - lbs.	22.8	30.1	38.3	45.5	58.7	70.5	90.1	110.0
Wet coil weight - lbs.	30.6	40.5	51.3	61.0	79.6	97.6	124.8	152.7
<b>8 - Row</b>								
Max. gpm	10	14	16	20	20	24	30	30
Dry coil weight - lbs.	31.3	41.0	50.8	60.5	79.2	92.0	117.6	144.0
Wet coil weight - lbs.	43	56.5	70	83.5	110.6	128.6	164.5	201.5

## MSCF Performance Chart



ETL Listed for Fan Coil Unit  
and in accordance with  
UL/cUL 1995.

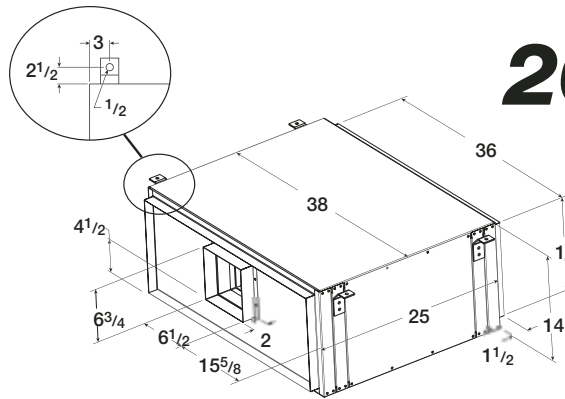
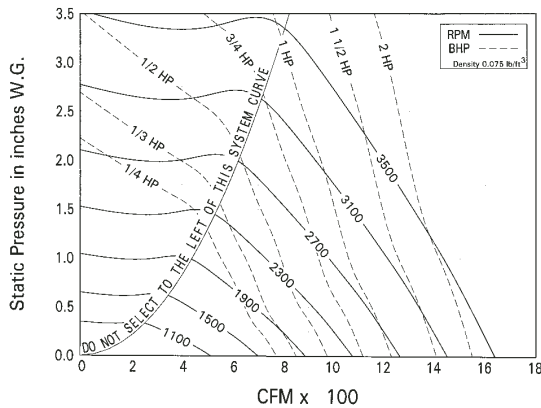
# MSCF Fan Data



## 15 L

All dimensions are in inches.

Total Static Pressure																					
CFM	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.50		3.00		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
350	1311	0.08	1567	0.11	1792	0.15	1994	0.20	2192	0.25	2376	0.30	2546	0.35							
400	1421	0.11	1659	0.14	1869	0.18	2063	0.23	2241	0.29	2413	0.34	2583	0.40	2741	0.46	3030	0.58			
450	1536	0.14	1761	0.18	1958	0.23	2137	0.27	2311	0.33	2471	0.39	2621	0.45	2777	0.52	3066	0.65	3327	0.78	
500	1650	0.18	1865	0.23	2052	0.28	2226	0.32	2384	0.37	2541	0.44	2689	0.50	2827	0.57	3103	0.72	3364	0.86	
550	1768	0.23	1975	0.28	2154	0.33	2316	0.39	2472	0.44	2615	0.49	2758	0.56	2895	0.64	3149	0.79	3401	0.95	
600	1887	0.28	2088	0.34	2258	0.40	2415	0.46	2562	0.52	2704	0.58	2835	0.63	2966	0.70	3217	0.87	3446	1.03	
650	2010	0.35	2203	0.41	2366	0.47	2518	0.54	2658	0.60	2794	0.66	2924	0.73	3046	0.79	3287	0.95			
700	2134	0.42	2318	0.49	2478	0.56	2622	0.63	2760	0.70	2888	0.76	3014	0.83	3135	0.90	3358	1.04			
750	2259	0.51	2434	0.58	2592	0.66	2730	0.73	2864	0.80	2989	0.87	3107	0.95	3225	1.02	3446	1.17			
800	2386	0.61	2553	0.68	2707	0.76	2842	0.84	2969	0.92	3092	1.00	3208	1.07	3318	1.15					



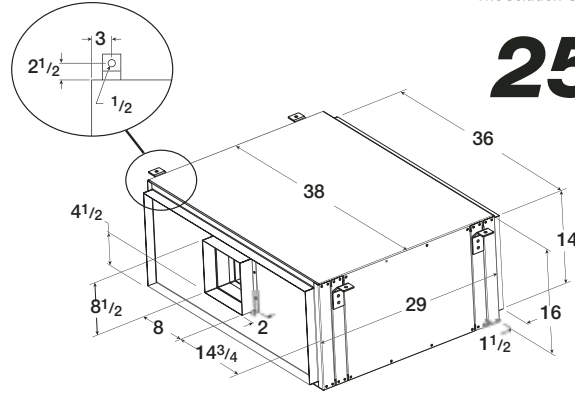
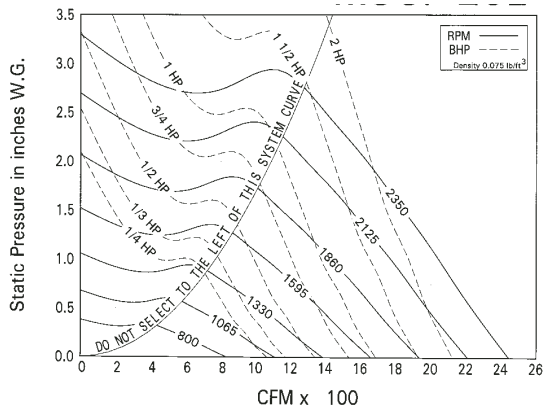
## 20 L

All dimensions are in inches.

Total Static Pressure																					
CFM	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.50		3.00		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
650	1627	0.20	1836	0.25	2019	0.29	2183	0.33	2332	0.38	2475	0.43	2614	0.48	2744	0.52					
700	1718	0.24	1919	0.30	2096	0.34	2255	0.38	2402	0.44	2538	0.49	2671	0.54	2800	0.59	3039	0.69			
750	1810	0.29	2003	0.35	2174	0.40	2330	0.45	2474	0.50	2608	0.55	2733	0.60	2857	0.66	3094	0.77			
800	1906	0.34	2089	0.41	2255	0.47	2407	0.52	2547	0.56	2679	0.62	2803	0.68	2919	0.74	3150	0.85	3366	0.97	
850	2002	0.40	2177	0.48	2338	0.54	2485	0.59	2623	0.64	2751	0.69	2874	0.76	2989	0.82	3207	0.94	3421	1.07	
900	2100	0.46	2266	0.54	2422	0.62	2565	0.67	2700	0.73	2826	0.78	2945	0.84	3060	0.91	3271	1.04	3478	1.17	
950	2198	0.53	2356	0.62	2507	0.70	2647	0.77	2778	0.83	2902	0.88	3019	0.94	3131	1.01	3341	1.14			
1000	2297	0.61	2447	0.70	2594	0.80	2731	0.87	2857	0.93	2979	0.99	3095	1.05	3204	1.11	3412	1.26			
1050	2396	0.70	2539	0.79	2682	0.89	2815	0.97	2939	1.04	3058	1.11	3171	1.17	3279	1.23	3483	1.38			
1100	2496	0.79	2635	0.89	2771	0.99	2900	1.09	3023	1.16	3137	1.23	3249	1.30	3356	1.37					

Performance shown is for installation type D: ducted inlet, ducted outlet. Power ratings (BHP/kW) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 210 and comply with the requirements of AMCA Certified Ratings Program.

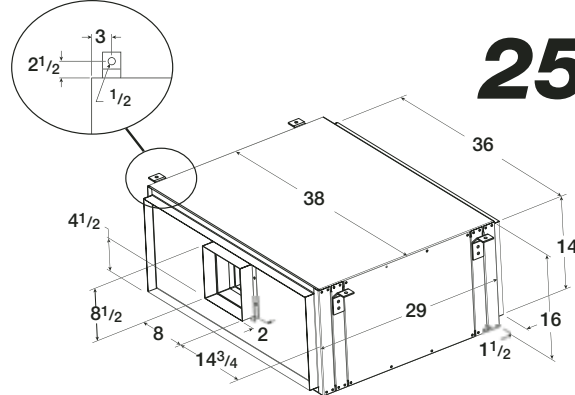
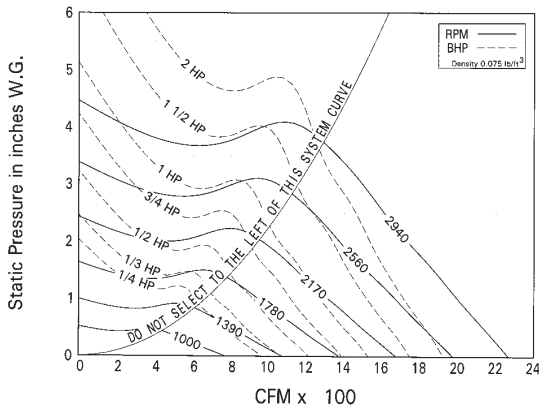
# MSCF Fan Data



## 25 L

All dimensions are in inches.

Total Static Pressure																				
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
925	1094	0.24	1252	0.32	1388	0.38	1512	0.44	1628	0.51										
1000	1156	0.29	1308	0.38	1438	0.44	1559	0.51	1669	0.58	1777	0.66								
1075	1219	0.35	1364	0.44	1492	0.52	1607	0.59	1716	0.67	1817	0.74	1916	0.82						
1150	1283	0.42	1422	0.51	1546	0.60	1657	0.68	1764	0.76	1862	0.84	1957	0.92	2049	1.01				
1225	1348	0.50	1481	0.59	1602	0.69	1711	0.78	1812	0.86	1910	0.94	2001	1.03	2089	1.11	2176	1.21	2258	1.30
1300	1414	0.58	1540	0.68	1658	0.79	1765	0.89	1863	0.97	1958	1.06	2048	1.15	2133	1.24	2217	1.33	2298	1.43
1375	1479	0.67	1602	0.77	1716	0.89	1820	1.00	1916	1.10	2007	1.19	2096	1.28	2180	1.38	2260	1.47	2339	1.57
1450	1545	0.77	1665	0.89	1774	1.00	1876	1.13	1971	1.23	2059	1.33	2145	1.43	2228	1.53	2307	1.62		
1525	1612	0.89	1728	1.01	1833	1.12	1933	1.26	2026	1.38	2113	1.48	2195	1.58	2276	1.69				
1600	1678	1.01	1792	1.14	1892	1.26	1991	1.40	2081	1.53	2167	1.64	2248	1.75	2325	1.86				



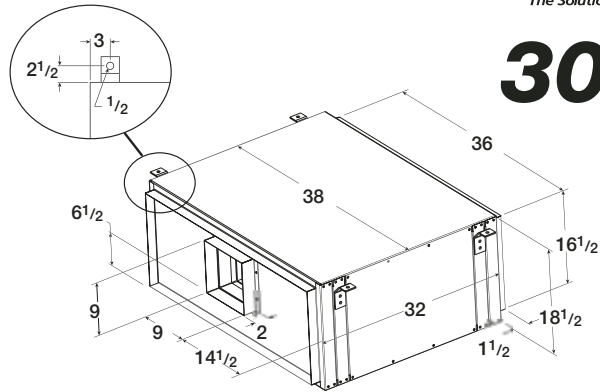
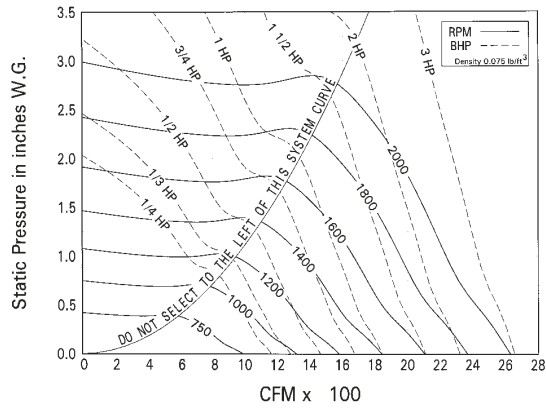
## 25 H

All dimensions are in inches.

Total Static Pressure																				
	1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00		3.50	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	1733	0.48	1837	0.55	1935	0.63	2026	0.70												
1000	1837	0.60	1931	0.67	2025	0.74	2115	0.83	2199	0.91										
1100	1944	0.73	2035	0.80	2120	0.88	2206	0.97	2289	1.06	2368	1.15	2443	1.24						
1200	2049	0.88	2141	0.96	2224	1.05	2302	1.13	2380	1.22	2458	1.32	2532	1.42	2603	1.52	2672	1.62		
1300	2153	1.04	2248	1.14	2330	1.24	2406	1.33	2479	1.42	2550	1.51	2623	1.62	2693	1.73	2761	1.83	2889	2.04
1400	2258	1.24	2351	1.34	2438	1.45	2512	1.55	2583	1.65	2651	1.75	2717	1.85	2785	1.96	2851	2.07	2978	2.30
1500	2367	1.45	2456	1.57	2541	1.68	2620	1.79	2689	1.90	2756	2.01	2820	2.11	2882	2.22	2943	2.33		
1600	2479	1.69	2562	1.82	2645	1.94	2724	2.06	2797	2.18	2862	2.30	2925	2.41	2986	2.52	3044	2.64		
1700	2592	1.95	2672	2.09	2750	2.23	2827	2.36	2901	2.49	2970	2.61	3031	2.73						
1800	2707	2.24	2784	2.39	2858	2.54	2932	2.68	3004	2.82										

Performance shown is for installation type D: ducted inlet, ducted outlet. Power ratings (BHP/kW) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 210 and comply with the requirements of AMCA Certified Ratings Program.

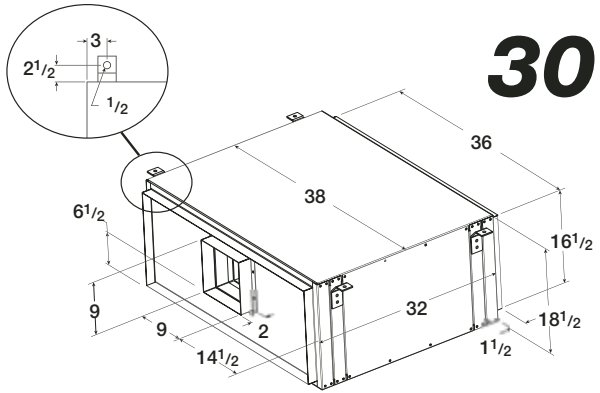
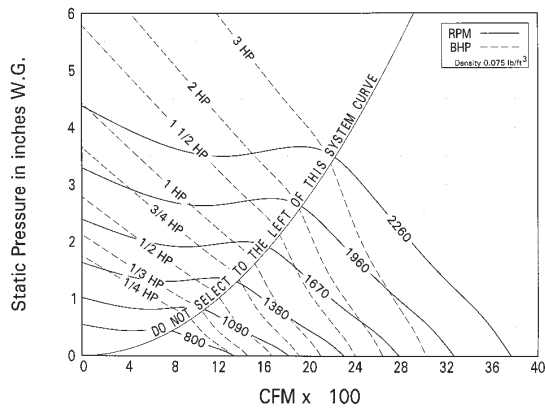
# MSCF Fan Data



All dimensions are in inches.

## 30 L

Total Static Pressure																				
CFM	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1057	0.36	1149	0.43	1232	0.49	1321	0.55	1409	0.62	1497	0.70								
1300	1130	0.45	1216	0.52	1295	0.59	1375	0.66	1454	0.72	1538	0.80			1618	0.88				
1400	1199	0.54	1285	0.62	1361	0.70	1430	0.77	1508	0.85	1580	0.92	1659	1.00	1734	1.09				
1500	1267	0.65	1355	0.74	1427	0.82	1495	0.90	1563	0.98	1634	1.06	1701	1.14	1775	1.23	1846	1.33	1913	1.42
1600	1335	0.77	1426	0.88	1495	0.96	1560	1.05	1622	1.13	1688	1.22	1754	1.30	1817	1.38	1887	1.49	1953	1.59
1700	1405	0.91	1497	1.03	1564	1.12	1627	1.21	1686	1.30	1743	1.39	1808	1.48	1869	1.57	1928	1.66	1994	1.76
1800	1474	1.06	1569	1.20	1633	1.29	1694	1.39	1752	1.48	1807	1.58	1863	1.68	1923	1.77	1981	1.87		
1900	1545	1.23	1642	1.38	1704	1.48	1762	1.58	1818	1.69	1872	1.79	1923	1.89	1978	1.99				
2000	1615	1.41	1709	1.58	1775	1.70	1831	1.80	1886	1.91	1938	2.02	1988	2.13						
2100	1687	1.62	1777	1.79	1847	1.93	1901	2.04	1953	2.15										



All dimensions are in inches.

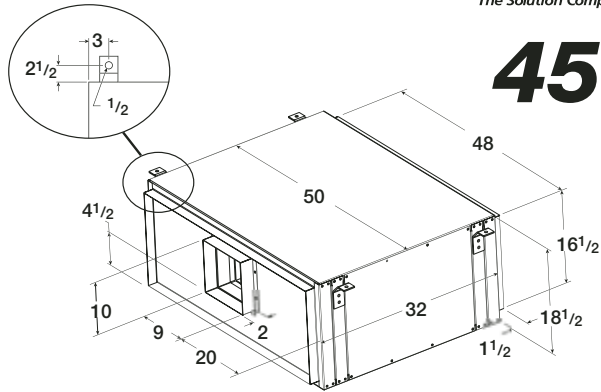
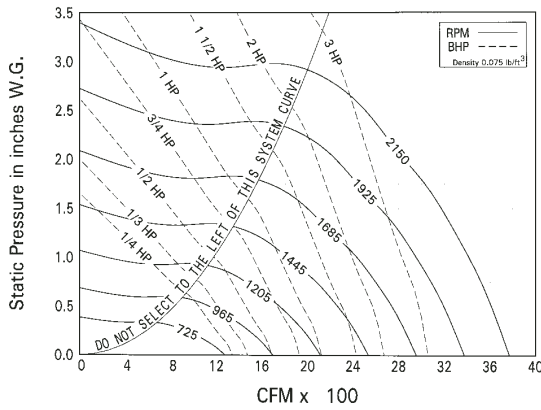
## 30 H

Total Static Pressure																				
CFM	1.00		1.25		1.50		1.75		2.00		2.25		2.50		3.00		3.50		3.75	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1450	1393	0.81	1461	0.89	1524	0.96	1596	1.05	1679	1.15										
1550	1449	0.94	1517	1.03	1579	1.11	1637	1.19	1706	1.28	1784	1.39								
1650	1498	1.08	1574	1.18	1635	1.27	1692	1.36	1746	1.44	1811	1.54	1885	1.66						
1750	1547	1.22	1628	1.34	1692	1.44	1748	1.54	1801	1.63	1852	1.72	1912	1.82	2050	2.06				
1850	1598	1.39	1677	1.51	1749	1.64	1804	1.74	1857	1.83	1907	1.93	1955	2.02	2077	2.26				
1950	1648	1.56	1727	1.70	1800	1.83	1862	1.95	1913	2.06	1962	2.16	2010	2.26	2104	2.46	2230	2.74	2290	2.87
2050	1698	1.74	1777	1.90	1849	2.04	1917	2.18	1970	2.30	2019	2.41	2065	2.51	2154	2.72	2257	2.97	2317	3.11
2150	1748	1.93	1828	2.11	1899	2.27	1965	2.41	2028	2.55	2076	2.67	2122	2.79	2209	3.01	2292	3.23	2344	3.37
2250	1798	2.14	1877	2.33	1949	2.51	2015	2.66	2078	2.82	2133	2.96	2179	3.08	2265	3.32	2347	3.55	2386	3.66
2350	1849	2.37	1927	2.57	1999	2.77	2064	2.93	2126	3.09	2186	3.25	2236	3.39	2321	3.64	2402	3.89	2441	4.01

Performance shown is for installation type D: ducted inlet, ducted outlet. Power ratings (BHP/kW) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 210 and comply with the requirements of AMCA Certified Ratings Program.



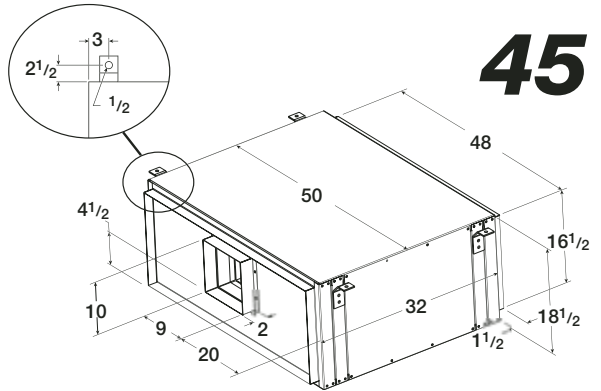
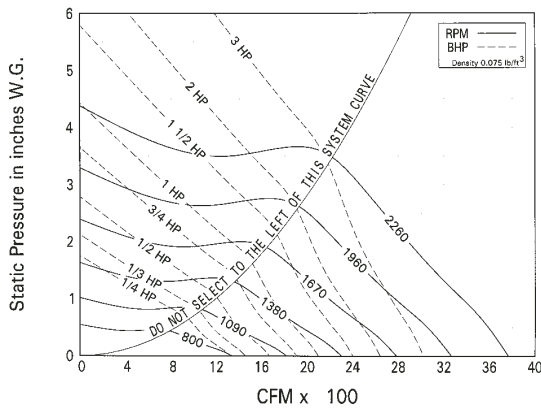
# MSCF Fan Data



## 45 L

All dimensions are in inches.

Total Static Pressure																				
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.50		2.75	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	974	0.43	1104	0.54	1224	0.64	1337	0.74	1446	0.85	1557	0.98								
1650	1048	0.55	1162	0.67	1281	0.78	1383	0.89	1487	1.00	1586	1.12	1686	1.26						
1800	1123	0.70	1228	0.82	1338	0.94	1439	1.06	1530	1.18	1627	1.31	1718	1.44	1807	1.57				
1950	1200	0.86	1297	1.00	1396	1.13	1496	1.26	1586	1.39	1669	1.52	1759	1.66	1844	1.80	2012	2.12	2098	2.31
2100	1277	1.06	1367	1.20	1457	1.35	1553	1.49	1642	1.63	1724	1.76	1801	1.90	1885	2.06	2040	2.35	2118	2.52
2250	1356	1.28	1440	1.43	1525	1.58	1611	1.74	1699	1.89	1780	2.04	1855	2.19	1927	2.33	2081	2.66		
2400	1437	1.54	1515	1.69	1594	1.85	1671	2.02	1757	2.19	1837	2.34	1911	2.50	1981	2.66	2122	2.99		
2550	1519	1.84	1591	1.98	1664	2.15	1739	2.33	1815	2.51	1894	2.68	1968	2.85	2037	3.02				
2700	1601	2.17	1667	2.31	1736	2.49	1807	2.68	1876	2.87	1952	3.05	2025	3.23	2094	3.41				
2850	1684	2.54	1744	2.67	1811	2.86	1877	3.05	1944	3.26	2010	3.46	2082	3.65						



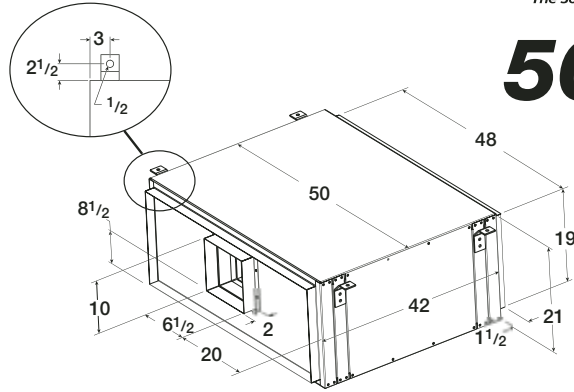
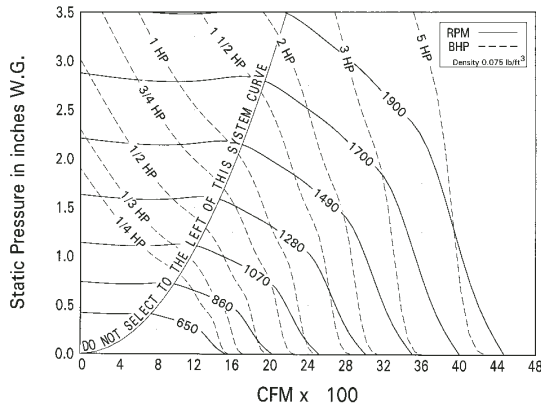
## 45 H

All dimensions are in inches.

Total Static Pressure																				
	1.00		1.25		1.50		1.75		2.00		2.25		2.50		2.75		3.00		3.25	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1700	1434	1.01	1509	1.12	1585	1.22	1656	1.31	1722	1.41										
1800	1481	1.15	1556	1.26	1627	1.37	1697	1.47	1763	1.57	1826	1.67								
1900	1530	1.30	1603	1.42	1671	1.53	1738	1.65	1804	1.75	1866	1.86	1925	1.96						
2000	1578	1.45	1650	1.59	1717	1.71	1781	1.83	1845	1.95	1907	2.06	1966	2.17	2022	2.28				
2100	1626	1.62	1698	1.77	1764	1.90	1827	2.03	1887	2.15	1948	2.28	2007	2.40	2063	2.51	2117	2.63		
2200	1675	1.80	1746	1.96	1812	2.10	1874	2.24	1932	2.37	1990	2.50	2048	2.63	2104	2.76	2157	2.88	2209	3.00
2300	1724	1.99	1795	2.16	1860	2.32	1921	2.47	1979	2.61	2034	2.75	2090	2.88	2145	3.02	2198	3.15	2249	3.28
2400	1774	2.19	1843	2.37	1908	2.55	1969	2.71	2026	2.86	2080	3.01	2133	3.15	2187	3.29	2239	3.43	2290	3.57
2500	1824	2.42	1893	2.60	1956	2.79	2017	2.97	2073	3.13	2127	3.28	2179	3.43	2229	3.58	2281	3.73	2332	3.88
2600	1873	2.65	1942	2.85	2005	3.04	2065	3.24	2121	3.41	2174	3.57	2226	3.73	2275	3.89	2323	4.05	2373	4.20

Performance shown is for installation type D: ducted inlet, ducted outlet. Power ratings (BHP/kW) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 210 and comply with the requirements of AMCA Certified Ratings Program.

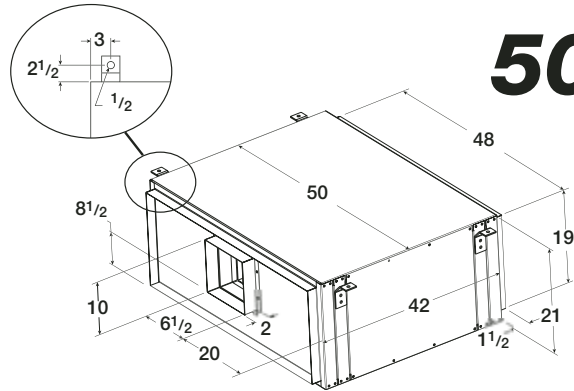
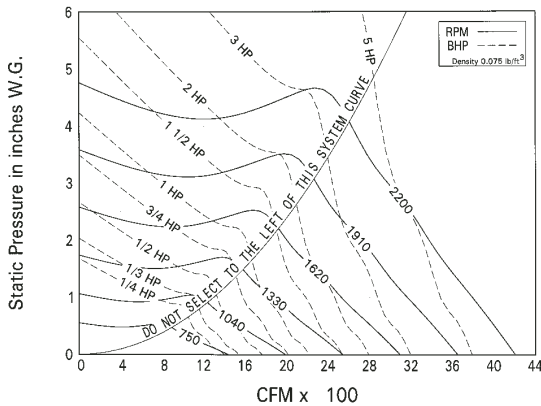
# MSCF Fan Data



All dimensions are in inches.

## 50 L

Total Static Pressure																				
CFM	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.50		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1800	864	0.48	932	0.52	1031	0.60	1128	0.70	1220	0.80	1305	0.88	1387	0.99	1464	1.11				
2000	945	0.64	1008	0.69	1082	0.76	1172	0.86	1258	0.97	1342	1.07	1420	1.17	1495	1.28	1635	1.53		
2200	1027	0.84	1086	0.90	1140	0.95	1221	1.05	1302	1.16	1380	1.29	1457	1.40	1529	1.51	1665	1.75	1793	2.02
2400	1109	1.07	1165	1.14	1216	1.20	1274	1.28	1350	1.39	1425	1.52	1496	1.65	1566	1.78	1699	2.01	1823	2.28
2600	1192	1.35	1244	1.43	1293	1.50	1339	1.56	1402	1.66	1471	1.78	1540	1.92	1607	2.07	1736	2.34	1855	2.59
2800	1271	1.65	1325	1.76	1371	1.84	1415	1.91	1456	1.97	1523	2.10	1587	2.23	1651	2.38	1773	2.70	1892	2.98
3000	1352	1.99	1406	2.14	1450	2.22	1492	2.30	1532	2.37	1576	2.46	1639	2.60	1698	2.73	1817	3.07		
3200	1432	2.38	1488	2.57	1530	2.66	1570	2.75	1609	2.83	1645	2.90	1692	3.01	1750	3.16	1862	3.47		
3400	1513	2.82	1571	3.05	1611	3.15	1649	3.25	1686	3.34	1722	3.42	1756	3.50	1803	3.63				
3600	1595	3.31	1654	3.60	1692	3.70	1729	3.81	1764	3.90	1799	4.00	1832	4.09	1864	4.17				



All dimensions are in inches.

## 50 H

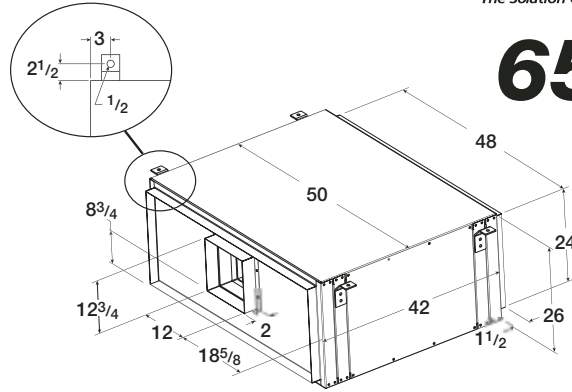
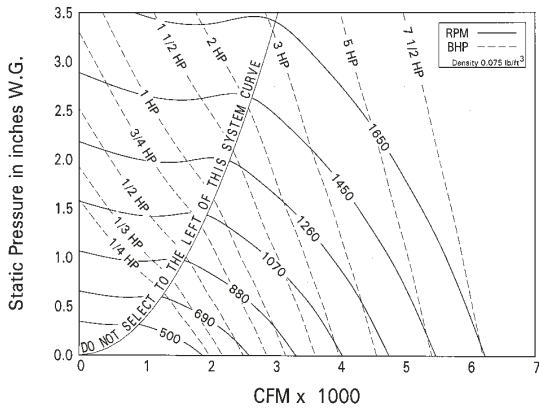
Total Static Pressure																				
CFM	1.00		1.50		2.00		2.25		2.50		2.75		3.00		3.25		3.50		4.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2100	1425	1.39	1550	1.63	1663	1.85	1709	1.92	1753	1.99										
2200	1470	1.54	1590	1.80	1701	2.04	1753	2.15	1796	2.22	1837	2.29								
2300	1515	1.71	1631	1.98	1741	2.24	1792	2.36	1839	2.47	1880	2.54	1920	2.62						
2400	1561	1.89	1671	2.18	1780	2.45	1831	2.58	1879	2.70	1924	2.81	1963	2.89	2001	2.97				
2500	1607	2.08	1714	2.39	1820	2.67	1870	2.81	1918	2.94	1964	3.07	2006	3.18	2044	3.27	2080	3.35		
2600	1652	2.30	1758	2.61	1860	2.91	1910	3.06	1957	3.20	2003	3.34	2047	3.47	2087	3.58	2123	3.67	2193	3.83
2700	1697	2.54	1803	2.84	1901	3.17	1950	3.32	1997	3.47	2042	3.61	2086	3.76	2129	3.90	2167	4.01		
2800	1741	2.79	1848	3.09	1942	3.44	1990	3.59	2037	3.75	2082	3.90	2125	4.05	2167	4.20				
2900	1787	3.06	1894	3.36	1985	3.72	2031	3.89	2077	4.05	2121	4.21	2164	4.37						
3000	1832	3.35	1940	3.64	2029	4.01	2072	4.19	2118	4.37	2161	4.53								

Performance shown is for installation type D: ducted inlet, ducted outlet. Power ratings (BHP/kW) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 210 and comply with the requirements of AMCA Certified Ratings Program.

# MSCF Fan Data

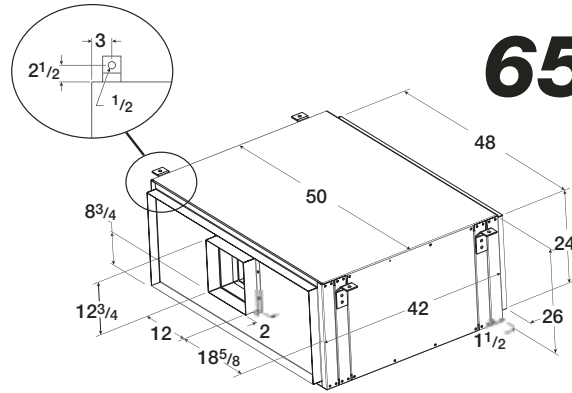
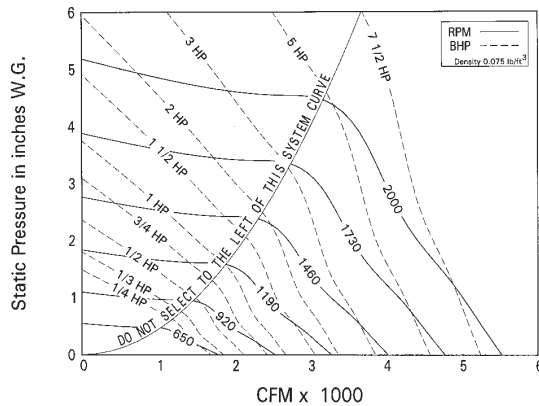


## 65 L



All dimensions are in inches.

		Total Static Pressure																			
		0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.50		3.00	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
2575	768	0.66	858	0.79	940	0.93	1018	1.08	1093	1.22	1162	1.36	1231	1.51	1296	1.67					
2750	810	0.78	893	0.93	971	1.06	1047	1.22	1119	1.38	1187	1.53	1251	1.67	1315	1.84	1435	2.17			
2925	851	0.92	930	1.07	1005	1.22	1077	1.38	1146	1.55	1213	1.72	1276	1.87	1335	2.03	1454	2.38	1562	2.73	
3100	894	1.08	967	1.24	1040	1.40	1107	1.56	1175	1.74	1238	1.91	1301	2.09	1360	2.25	1474	2.60	1581	2.98	
3275	936	1.26	1005	1.42	1075	1.59	1140	1.76	1205	1.94	1267	2.13	1327	2.31	1385	2.49	1494	2.84	1601	3.24	
3450	979	1.45	1044	1.62	1110	1.80	1175	1.98	1235	2.15	1296	2.36	1354	2.55	1411	2.75	1519	3.12	1620	3.51	
3625	1022	1.67	1083	1.83	1148	2.03	1209	2.22	1268	2.40	1326	2.60	1383	2.81	1437	3.02	1544	3.42	1642	3.80	
3800	1065	1.90	1124	2.08	1185	2.28	1244	2.48	1302	2.67	1357	2.86	1413	3.09	1466	3.31	1569	3.74			
3975	1109	2.16	1165	2.35	1223	2.55	1280	2.76	1337	2.96	1390	3.16	1443	3.38	1495	3.61	1595	4.07			
4150	1153	2.44	1207	2.64	1261	2.84	1317	3.06	1372	3.28	1424	3.49	1474	3.69	1525	3.94	1622	4.42			

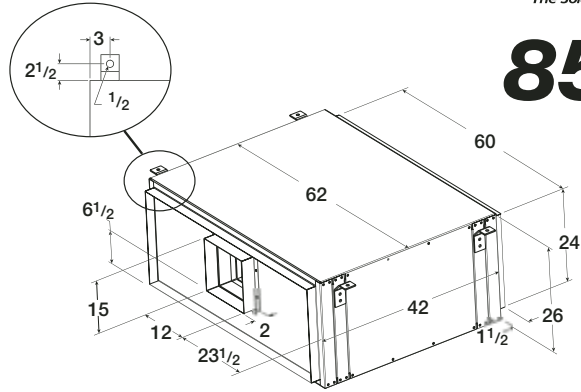
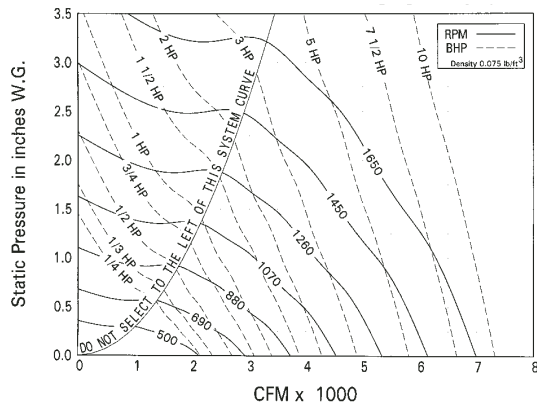


All dimensions are in inches.

		Total Static Pressure																			
		1.00		1.50		2.00		2.25		2.50		2.75		3.00		3.25		3.50		4.00	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
2400	1186	1.30	1280	1.50	1394	1.77	1449	1.90	1501	2.04											
2575	1243	1.53	1335	1.75	1430	2.00	1484	2.15	1536	2.30	1586	2.45									
2750	1296	1.77	1391	2.04	1471	2.27	1520	2.42	1572	2.58	1621	2.74	1668	2.89	1714	3.05					
2925	1349	2.04	1448	2.35	1526	2.60	1563	2.72	1608	2.88	1657	3.05	1704	3.22	1749	3.39	1793	3.55			
3100	1403	2.33	1505	2.70	1582	2.97	1618	3.10	1653	3.23	1693	3.38	1740	3.56	1785	3.75	1828	3.92	1911	4.28	
3275	1458	2.66	1559	3.06	1638	3.37	1674	3.51	1708	3.65	1741	3.78	1776	3.93	1821	4.13	1864	4.32	1947	4.70	
3450	1511	3.01	1612	3.44	1695	3.81	1730	3.96	1763	4.11	1796	4.25	1827	4.39	1858	4.53	1901	4.74	1982	5.14	
3625	1563	3.39	1666	3.85	1753	4.29	1787	4.45	1820	4.60	1852	4.76	1882	4.91	1913	5.06	1942	5.21			
3800	1616	3.80	1720	4.30	1805	4.76	1845	4.98	1877	5.14	1908	5.31	1938	5.47	1968	5.63	1997	5.78			
3975	1669	4.24	1775	4.78	1859	5.27	1898	5.50	1934	5.72	1965	5.90	1995	6.07							

Performance shown is for installation type D: ducted inlet, ducted outlet. Power ratings (BHP/kW) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 210 and comply with the requirements of AMCA Certified Ratings Program.

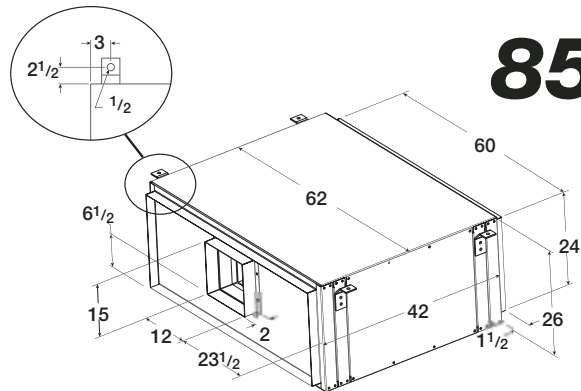
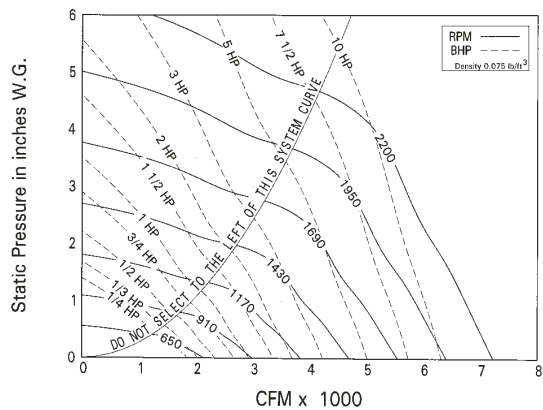
# MSCF Fan Data



All dimensions are in inches.

## 85 L

Total Static Pressure																				
CFM	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.50		3.00	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	797	0.85	899	1.03	983	1.22	1056	1.38	1135	1.60	1209	1.81	1278	2.00	1344	2.19	1464	2.54		
3200	838	1.00	935	1.19	1018	1.40	1090	1.58	1160	1.78	1233	2.01	1300	2.23	1366	2.44	1486	2.82	1594	3.19
3400	880	1.18	970	1.37	1053	1.60	1124	1.80	1188	1.99	1258	2.22	1325	2.46	1388	2.70	1507	3.12	1616	3.53
3600	923	1.37	1006	1.58	1088	1.81	1159	2.04	1222	2.24	1283	2.45	1350	2.71	1412	2.96	1529	3.44	1638	3.88
3800	965	1.59	1042	1.81	1123	2.04	1194	2.29	1256	2.51	1314	2.73	1375	2.97	1437	3.24	1551	3.77		
4000	1008	1.83	1079	2.06	1159	2.29	1228	2.56	1291	2.81	1348	3.04	1402	3.26	1462	3.53	1576	4.10		
4200	1052	2.10	1118	2.33	1195	2.58	1264	2.85	1326	3.12	1383	3.37	1436	3.61	1487	3.84	1600	4.44		
4400	1096	2.39	1159	2.63	1231	2.89	1299	3.16	1361	3.45	1417	3.73	1470	3.98	1520	4.22	1625	4.80		
4600	1141	2.71	1201	2.96	1267	3.23	1335	3.49	1396	3.80	1452	4.10	1504	4.37	1554	4.64				
4800	1186	3.06	1243	3.32	1303	3.59	1371	3.87	1431	4.18	1487	4.50	1539	4.80	1588	5.07				



All dimensions are in inches.

## 85 H

Total Static Pressure																					
CFM	1.00		1.50		2.00		2.25		2.50		2.75		3.00		3.25		3.50		4.00		
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
3500	1330	2.54	1424	2.91	1540	3.36	1594	3.57	1658	3.84	1720	4.11	1780	4.38	1838	4.64	1898	4.96	2013	5.58	
3750	1398	3.00	1488	3.41	1588	3.85	1641	4.09	1692	4.32	1747	4.58	1807	4.88	1864	5.16	1919	5.44	2030	6.07	
4000	1460	3.50	1553	3.96	1636	4.39	1688	4.65	1738	4.90	1787	5.15	1834	5.40	1891	5.72	1946	6.02	2051	6.63	
4250	1522	4.06	1620	4.57	1698	5.03	1737	5.26	1786	5.54	1834	5.81	1880	6.07	1924	6.33	1973	6.63	2078	7.29	
4500	1586	4.68	1687	5.24	1763	5.73	1799	5.97	1834	6.22	1881	6.51	1927	6.80	1971	7.08	2013	7.36	2105	7.98	
4750	1650	5.37	1751	5.97	1828	6.51	1863	6.76	1898	7.02	1931	7.27	1975	7.58	2018	7.88	2060	8.18	2141	8.77	
5000	1716	6.12	1813	6.76	1895	7.35	1929	7.62	1962	7.90	1995	8.17	2026	8.43	2066	8.74	2108	9.07	2188	9.70	
5250	1785	6.95	1876	7.62	1962	8.27	1996	8.56	2028	8.85	2060	9.13	2091	9.42	2121	9.70	2156	10.01			
5500	1853	7.86	1940	8.56	2025	9.25	2063	9.58	2095	9.88											
5750	1923	8.84	2004	9.58																	

Performance shown is for installation type D: ducted inlet, ducted outlet. Power ratings (BHP/kW) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 210 and comply with the requirements of AMCA Certified Ratings Program.

# MSCF Plenum Data

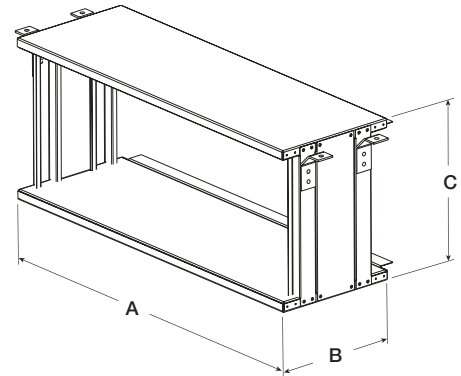


Access plenums are available to be placed between any module providing additional access, space for mounting controls, or reducing turbulent air.

## Plenum Module

Size	A	B		C	Weight	
		12	24		12	24
15	38	12.75	24.5	11	29	54
20	38	12.75	24.5	14	34	64
25	38	12.75	24.5	16	40	75
30	38	12.75	24.5	18.5	46	86
45	50	12.75	24.5	18.5	53	99
50	50	12.75	24.5	21	61	114
65	50	12.75	24.5	26	70	131
85	62	12.75	24.5	26	80	151

All dimensions are in inches.



# MSCF Coil Data

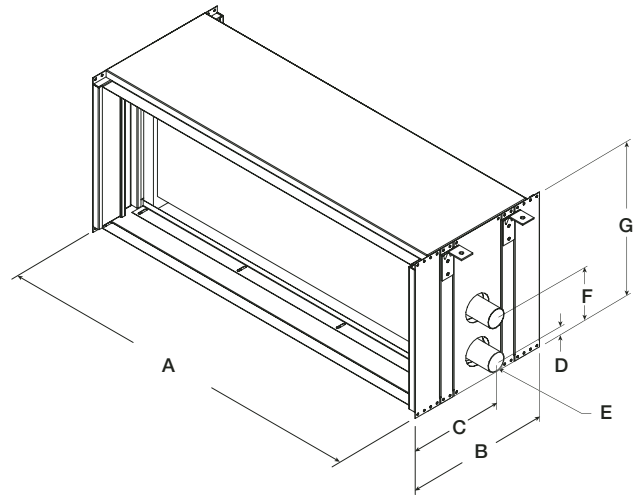


## Steam - 1 Row

### Dimensional Data

Size	Face	A	B	C	D	E	F	G
15	1.6	38	15.5	7.75	3.31	1.5	5.18	11.0
20	2.2	38	15.5	7.75	3.00	1.5	6.50	14.0
25	2.7	38	15.5	7.75	3.31	2.5	7.69	16.0
30	3.2	38	15.5	7.75	3.00	2.5	9.00	18.5
45	4.5	50	15.5	7.75	3.00	2.5	9.00	18.5
50	5.2	50	15.5	7.75	4.31	2.5	10.18	21.0
65	6.7	50	15.5	7.75	3.00	2.5	12.50	26.0
85	8.6	62	15.5	7.75	3.00	2.5	12.50	26.0

All dimensions are in inches.



### Performance Data

Refer to CAPS 2.1 for performance data information.

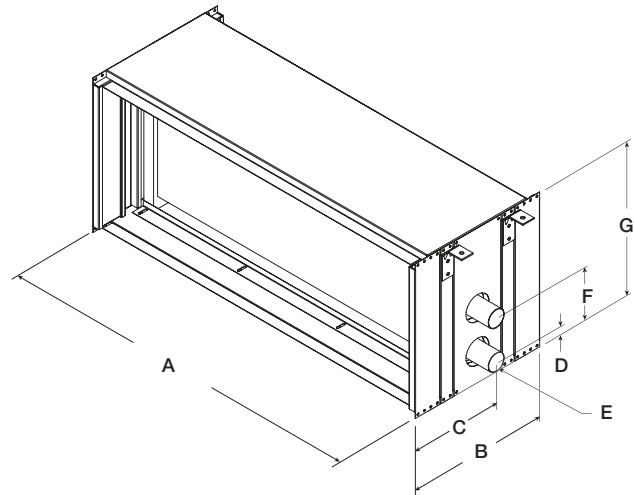
# MSCF Coil Data

## Steam - 2 Row

### Dimensional Data

Size	Face	A	B	C	D	E	F	G
15	1.6	38	15.5	7.75	3.31	1.5	5.18	11.0
20	2.2	38	15.5	7.75	3.00	1.5	6.50	14.0
25	2.7	38	15.5	7.75	3.31	2.5	7.69	16.0
30	3.2	38	15.5	7.75	3.00	2.5	9.00	18.5
45	4.5	50	15.5	7.75	3.00	2.5	9.00	18.5
50	5.2	50	15.5	7.75	4.31	2.5	10.18	21.0
65	6.7	50	15.5	7.75	3.00	2.5	12.50	26.0
85	8.6	62	15.5	7.75	3.00	2.5	12.50	26.0

All dimensions are in inches.



### Performance Data

Refer to CAPS 2.1 for performance data information.

# MSCF COIL Data

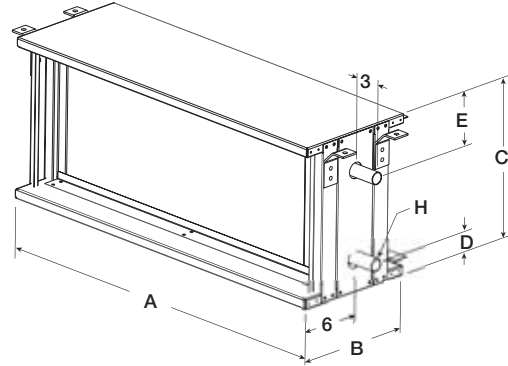


## Hot Water - 1 Row

### Dimensional Data

Size	Face	A	B	C	D	E	H
15	1.6	38	12.75	11.0	2.25	3.0	0.75
20	2.2	38	12.75	14.0	3.19	4.5	0.75
25	2.7	38	12.75	16.0	3.19	4.0	0.88
30	3.2	38	12.75	18.5	3.19	4.0	0.88
45	4.5	50	12.75	18.5	3.19	4.0	0.88
50	5.2	50	12.75	21.0	3.19	4.0	1.13
65	6.7	50	12.75	26.0	3.19	4.0	1.38
85	8.6	62	12.75	26.0	3.19	4.0	1.38

All dimensions are in inches.



### Performance Data

Heating Capacities based on 60°F EAT and 180°F EWT.

Size	CFM	1.0 GPM				2.0 GPM				3.0 GPM				4.0 GPM				5.0 GPM			
		MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD
15	400	14.0	92.2	151.4	0.08	16.4	97.7	163.3	0.28	17.4	100.1	168.	0.60	18.0	101.4	170.8	1.04	18.3	102.3	172.5	1.60
	600	16.1	84.8	147.0	0.08	19.4	89.9	160.1	0.28	20.9	92.1	165.7	0.60	21.8	93.4	168.9	1.04	22.3	94.3	170.9	1.60
	800	17.6	80.3	144.0	0.08	21.7	85.0	157.8	0.28	23.6	87.2	163.9	0.60	24.7	88.4	167.4	1.04	25.4	89.3	169.6	1.60
20	700	18.6	84.5	142.0	0.04	23.0	90.3	156.4	0.16	25.1	93.0	162.9	0.35	26.3	94.6	166.5	0.60	27.1	95.7	168.9	0.92
	900	20.0	80.5	139.1	0.04	25.3	85.9	154.1	0.16	27.8	88.5	161.0	0.35	29.3	90.0	165.0	0.60	30.3	91.1	167.6	0.92
	1100	21.1	77.7	136.9	0.04	27.1	82.7	152.3	0.16	30.1	85.2	159.5	0.35	31.8	86.7	163.7	0.60	33.0	87.7	166.5	0.92
25	1000	22.1	80.3	135.0	0.03	28.5	86.3	150.9	0.11	31.7	89.2	158.4	0.23	33.6	90.9	162.8	0.40	34.8	92.1	165.7	0.60
	1150	22.8	78.3	133.4	0.03	29.9	84.0	149.5	0.11	33.4	86.8	157.2	0.23	35.5	88.5	161.8	0.40	37.0	89.7	164.9	0.60
	1300	23.5	76.7	132.0	0.03	31.1	82.1	148.2	0.11	34.9	84.8	156.2	0.23	37.3	86.5	160.9	0.40	38.9	87.6	164.1	0.60
30	1200	24.3	78.7	130.5	0.02	32.3	84.8	147.0	0.08	36.4	87.9	155.2	0.16	38.9	89.9	160.1	0.28	40.6	91.2	163.4	0.43
	1400	25.2	76.6	128.7	0.02	33.9	82.3	145.4	0.08	38.5	85.3	153.8	0.16	41.3	87.2	158.9	0.28	43.2	88.5	162.3	0.43
	1600	25.9	74.9	127.2	0.02	35.3	80.3	144.0	0.08	40.3	83.2	152.6	0.16	43.4	85.0	157.8	0.28	45.6	86.3	161.3	0.43
45	1650	42.0	83.5	137.2	0.09	51.9	89.0	153.5	0.32	56.4	91.5	160.8	0.69	59.0	93.0	164.9	1.18	60.7	93.9	167.6	1.79
	1950	44.1	80.9	135.0	0.09	55.2	86.1	151.8	0.32	60.4	88.6	159.4	0.69	63.4	90.0	163.8	1.18	65.4	90.9	166.6	1.79
	2250	45.9	78.9	133.2	0.09	58.1	83.8	150.3	0.32	63.9	86.2	158.2	0.69	67.4	87.6	162.8	1.18	69.6	88.5	165.7	1.79
50	1800	45.2	83.1	133.9	0.07	56.7	89.1	151.0	0.24	62.1	91.8	158.8	0.51	65.3	93.5	163.3	0.88	67.4	94.5	166.2	1.34
	2200	47.8	80.0	131.3	0.07	61.1	85.6	148.8	0.24	67.4	88.3	157.0	0.51	71.2	89.8	161.8	0.88	73.7	90.9	164.9	1.34
	2600	49.9	77.7	129.1	0.07	64.7	82.9	147.0	0.24	71.9	85.5	155.5	0.51	76.2	87.0	160.5	0.88	79.1	88.1	163.8	1.34
65	2575	69.8	85.0	144.4	0.15	78.2	88.0	153.4	0.32	78.2	88.0	153.4	0.32	86.7	91.0	162.3	0.83	89.1	91.9	164.8	1.17
	2925	72.8	82.9	142.9	0.15	82.0	85.8	152.1	0.32	82.0	85.8	152.1	0.32	91.4	88.8	161.3	0.83	94.2	89.7	163.9	1.17
	3275	75.4	81.2	141.5	0.15	85.4	84.0	150.9	0.32	85.4	84.0	150.9	0.32	95.7	87.0	160.4	0.83	98.8	87.8	163.2	1.17
85	3000	82.7	85.7	137.8	0.17	93.5	88.7	148.2	0.35	100.0	90.7	154.4	0.60	104.4	92.1	158.6	0.90	107.6	93.1	161.6	1.27
	3600	87.6	82.4	135.3	0.17	99.9	85.6	146.0	0.35	107.5	87.5	152.5	0.60	112.7	88.9	157.0	0.90	116.4	89.8	160.1	1.27
	4250	92.1	80.0	133.1	0.17	105.8	83.0	144.0	0.35	114.4	84.8	150.8	0.60	120.4	86.1	155.4	0.90	124.7	87.1	158.7	1.27

MBh - Million British Thermal Units Per Hour  
 LAT - Leaving Air Temperature (°F) - Do not operate at over 105 °F.  
 LWT - Leaving Water Temperature (°F)  
 WPD - Water Pressure Drop  
 GPM - Gallons per Minute



# MSCF COIL Data

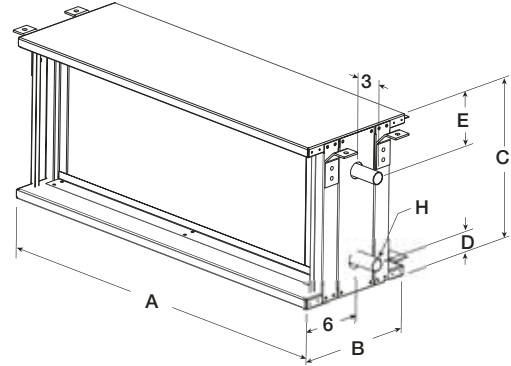


## Hot Water - 2 Row

### Dimensional Data

Size	Face	A	B	C	D	E	H
15	1.6	38	12.75	11.0	2.25	3.0	0.75
20	2.2	38	12.75	14.0	3.19	4.5	0.75
25	2.7	38	12.75	16.0	3.19	4.0	0.88
30	3.2	38	12.75	18.5	3.19	4.0	0.88
45	4.5	50	12.75	18.5	3.19	4.0	0.88
50	5.2	50	12.75	21.0	3.19	4.0	1.13
65	6.7	50	12.75	26.0	3.19	4.0	1.38
85	8.6	62	12.75	26.0	3.19	4.0	1.38

All dimensions are in inches.



### Performance Data

Heating Capacities based on 60°F EAT and 180°F EWT.

	1.0 GPM					2.0 GPM				3.0 GPM				4.0 GPM				5.0 GPM			
	CFM	MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD
15	400	21.9	110.4	135.4	0.09	25.9	119.8	153.5	0.32	27.6	123.7	161.2	0.67	28.6	125.8	165.4	1.13	29.1	127.2	168.1	1.70
	600	25.6	99.3	127.8	0.09	31.7	108.8	147.6	0.33	34.4	112.9	156.5	0.68	35.9	115.2	161.6	1.13	36.9	116.7	164.9	1.70
	800	28.1	92.4	122.7	0.10	36.0	101.5	143.3	0.33	39.6	105.6	153.0	0.68	41.7	108.0	158.7	1.14	43.1	109.6	162.4	1.70
20	2.0 GPM					4.0 GPM				6.0 GPM				8.0 GPM				10.0 GPM			
	CFM	MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD
	700	37.0	108.8	142.2	0.20	40.7	113.6	152.3	0.42	42.8	116.4	158.1	0.71	44.2	118.2	161.9	1.07	45.2	119.5	164.6	1.49
25	900	41.1	102.2	138.0	0.21	45.9	107.0	148.7	0.43	48.7	109.9	155.1	0.71	50.5	111.8	159.3	1.07	51.8	113.1	162.3	1.49
	1100	44.4	97.2	134.7	0.21	50.1	102.0	145.9	0.43	53.6	104.9	152.6	0.72	55.8	106.8	157.2	1.07	57.5	108.2	160.4	1.49
30	1000	45.6	102.1	133.5	0.14	51.5	107.5	144.9	0.30	55.0	110.7	151.9	0.50	57.4	112.9	156.5	0.75	59.0	114.4	159.9	1.04
	1150	48.1	98.5	131.0	0.14	54.8	103.9	142.7	0.30	58.8	107.1	150.0	0.50	61.5	109.3	154.8	0.75	63.4	110.9	158.4	1.04
	1300	50.2	95.6	128.9	0.14	57.6	100.9	140.8	0.30	62.1	104.1	148.3	0.50	65.2	106.3	153.3	0.75	67.4	107.8	157.0	1.04
45	1200	-	-	-	-	51.2	99.3	127.8	0.11	63.4	108.8	147.6	0.37	66.6	111.1	152.8	0.56	68.8	112.9	156.5	0.78
	1400	-	-	-	-	53.9	95.5	125.0	0.11	68.0	104.8	145.3	0.37	71.7	107.2	150.7	0.56	74.3	109.0	154.7	0.78
	1600	-	-	-	-	56.2	92.4	122.7	0.11	72.0	101.5	143.3	0.37	76.1	103.9	148.9	0.56	79.2	105.6	153.0	0.78
50	4.0 GPM					6.0 GPM				8.0 GPM				10.0 GPM				12.0 GPM			
	CFM	MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD	MBH	LAT	LWT	WPD
	1650	83.1	106.5	137.6	0.46	91.6	111.2	148.8	0.96	96.5	113.9	155.3	1.61	99.7	115.7	159.6	2.41	101.9	117.0	162.6	3.36
65	1950	89.1	102.1	134.6	0.46	99.2	106.9	146.2	0.96	105.0	109.7	153.2	1.61	108.9	111.5	157.7	2.42	111.6	112.8	161.0	3.36
	2250	94.2	98.6	132.0	0.47	105.8	103.3	144.0	0.96	112.6	106.1	151.2	1.62	117.0	108.0	156.1	2.42	120.2	109.3	159.5	3.37
85	1800	90.1	106.1	134.1	0.36	100.2	111.3	145.9	0.75	106.0	114.3	152.9	1.26	109.8	116.3	157.5	1.88	112.5	117.6	160.8	2.62
	2200	97.6	100.9	130.3	0.36	109.9	106.1	142.6	0.75	117.2	109.1	150.1	1.26	121.9	111.1	155.1	1.89	125.3	112.5	158.6	2.63
	2600	103.7	96.8	127.1	0.36	118.1	101.9	139.8	0.75	126.7	104.9	147.6	1.26	132.4	107.0	152.9	1.89	136.5	108.4	156.7	2.63
150	2575	109.7	99.3	124.1	0.24	125.8	105.1	137.2	0.50	83.3	89.8	158.7	0.55	142.0	110.8	151.0	1.25	146.6	112.5	155.0	1.74
	2925	115.2	95.7	121.3	0.24	132.6	101.8	134.9	0.50	87.6	87.6	157.6	0.55	151.0	107.6	149.1	1.25	156.3	109.3	153.4	1.74
	3275	118.8	93.5	119.5	0.24	138.6	99.0	132.9	0.50	91.5	85.8	156.6	0.55	159.1	104.8	147.5	1.25	165.1	106.5	151.9	1.75
200	3000	126.5	98.9	115.6	0.27	147.2	105.2	130.0	0.56	159.8	109.1	139.2	0.93	168.2	111.7	145.6	1.39	174.3	113.6	150.3	1.94
	3600	134.0	94.3	111.8	0.27	158.1	100.5	126.3	0.56	173.1	104.3	135.9	0.93	183.3	107.0	142.6	1.40	190.7	108.9	147.5	1.94
	4250	140.6	90.5	108.5	0.27	167.9	96.4	123.0	0.56	185.3	100.2	132.8	0.94	197.3	102.8	139.7	1.40	206.0	104.7	144.9	1.94

MBh - Million British Thermal Units Per Hour

LAT - Leaving Air Temperature (°F) - Do not operate at over 105 °F.

LWT - Leaving Water Temperature (°F)

WPD - Water Pressure Drop

GPM - Gallons per Minute

# MSCF COIL Data

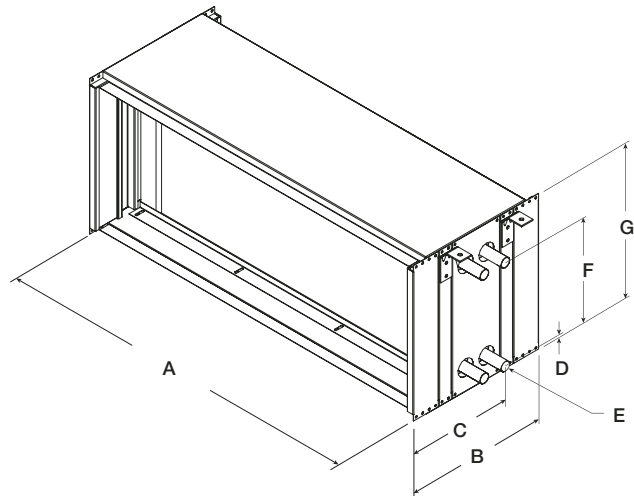


## Hot Water - 4 Row

### Dimensional Data

Size	Face	A	B	C	D	E	F	G
15	1.6	38	15.50	9.38	3.188	0.750	4.0	11.0
20	2.2	38	15.50	9.38	3.188	0.750	4.5	14.0
25	2.7	38	15.50	9.38	3.188	0.875	4.0	16.0
30	3.2	38	15.50	9.38	3.188	0.875	4.0	18.8
45	4.5	50	15.50	9.38	3.188	1.375	4.0	21.0
50	5.2	50	15.50	9.38	3.188	1.375	4.0	26.0
65	6.7	50	15.50	9.38	3.188	1.375	4.0	26.0
85	8.6	62	12.75	9.38	3.188	1.375	4.0	26.0

All dimensions are in inches.



### Performance Data

Refer to CAPS 2.1 for performance data information.

# **MSCF Coil Data**



Electrical

## **Dimensional and Performance Data**

Refer to CAPS 2.1 for dimensional and performance data information.

# MSCF COIL Data

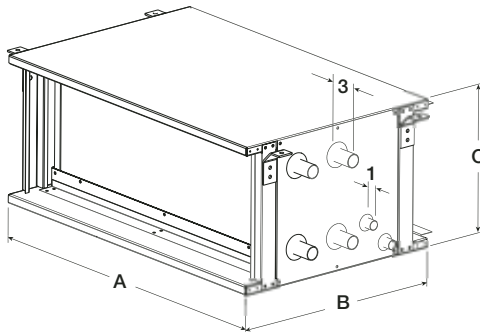


## Chilled Water

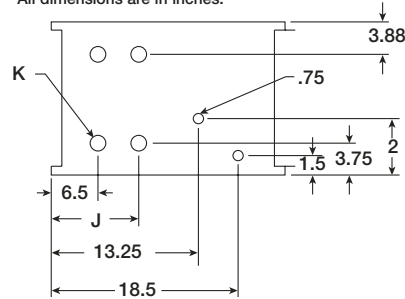
4, 6 or 8 Row

Size	Face	A	B	C	J			K	
					4	6	8	4&6	8
15	1.6	38	24.5	11.0	10	12	14	0.75	1.38
20	2.2	38	24.5	14.0	10	12	14	0.75	1.38
25	2.7	38	24.5	16.0	10	12	14	0.88	1.38
30	3.2	38	24.5	18.5	10	12	14	0.88	1.38
45	4.5	50	24.5	18.5	10	12	14	0.88	1.38
50	5.2	50	24.5	21.0	10	12	14	1.38	1.63
65	6.7	50	24.5	26.0	10	12	14	1.38	1.63
85	8.6	62	24.5	26.0	10	12	14	1.38	1.63

## Dimensional Data



All dimensions are in inches.



## Performance Data

Cooling Capacities based on 80°F DB, 67°F WB, and 45°F EWT.

Unit Size	Coil Rows	6° F						10° F						16° F						20° F							
		CFM	TC	SC	LDB	LWB	GPM	WPD	TC	SC	LDB	LWB	GPM	WPD	TC	SC	LDB	LWB	GPM	WPD	TC	SC	LDB	LWB	GPM	WPD	
15	4	400	17.0	11.1	54.6	53.1	6.0	4.6	15.2	10.3	56.4	54.8	3.6	1.9	12.9	9.4	58.5	56.8	2.3	0.8	11.9	9.0	59.4	57.7	1.8	0.6	
		600	23.1	15.3	56.7	54.6	9.0	9.3	20.6	14.3	58.3	56.0	5.4	3.8	17.7	13.1	60.0	57.8	3.4	1.7	16.3	12.6	60.9	58.5	2.7	1.1	
		800	28.3	19.0	58.3	55.7	12.1	15.2	25.5	17.8	59.6	57.0	7.2	6.3	22.1	16.5	61.2	58.4	4.5	2.8	20.3	15.8	61.9	59.2	3.6	1.9	
	6	400	20.2	12.9	50.6	50.0	6.0	6.9	18.0	11.9	52.7	52.2	3.6	2.9	15.6	11.0	55.0	54.4	2.3	1.3	14.3	10.4	56.1	55.5	1.8	0.9	
		600	27.9	18.1	52.4	51.5	9.0	13.9	25.1	16.9	54.3	53.4	5.4	5.8	21.7	15.5	56.3	55.4	3.4	2.5	20.1	14.8	57.4	56.4	2.7	1.7	
		800	35.0	22.9	53.8	52.6	12.1	22.9	31.3	21.4	55.5	54.3	7.2	9.5	27.3	19.8	57.4	56.2	4.5	4.2	25.3	19.0	58.3	57.0	3.6	2.8	
	8	400	22.0	13.8	48.4	48.2	6.0	9.3	19.9	12.9	50.5	50.2	3.6	3.8	17.4	11.8	52.9	52.7	2.3	1.7	16.0	11.3	54.3	54.0	1.8	1.1	
		600	31.1	19.8	49.8	49.4	9.0	18.6	28.1	18.5	51.8	51.4	5.4	7.7	24.5	17.0	54.1	53.7	3.4	1.9	22.6	16.2	55.3	54.9	2.7	2.3	
		800	39.4	25.4	51.0	50.5	12.1	30.6	35.7	23.7	52.9	52.3	7.2	12.6	31.1	21.9	55.0	54.4	4.5	5.6	28.7	20.9	56.1	55.5	3.6	3.8	
	20	4	700	27.8	18.4	56.0	54.1	10.6	7.5	24.9	17.1	57.6	55.6	3.1	2.7	21.3	15.7	59.5	57.4	4.0	1.4	19.6	15.1	60.3	58.3	3.2	0.9
			900	33.4	22.3	57.4	55.1	13.6	11.6	30.0	20.9	58.8	56.4	8.1	4.8	25.8	19.2	60.5	58.0	5.1	2.1	23.8	18.4	61.3	58.8	4.1	1.4
			1100	38.5	25.9	58.5	55.8	16.6	16.4	34.7	24.3	59.8	57.1	10.0	6.7	30.0	22.5	61.3	58.5	6.2	2.7	27.9	21.6	62.0	59.2	5.0	2.0
6		700	33.6	21.6	51.8	51.0	10.6	11.2	29.9	20.1	53.8	53.0	6.3	4.6	25.9	18.5	55.9	55.1	4.0	2.0	23.9	17.6	57.0	56.1	3.2	1.4	
		900	40.9	26.7	52.9	52.0	13.6	17.3	36.5	24.8	54.8	53.8	8.14	7.1	31.7	22.9	56.8	55.7	5.1	3.2	29.3	21.9	57.7	56.7	4.1	2.1	
		1100	47.7	31.4	53.9	52.8	16.6	24.5	42.7	29.3	55.7	54.4	10.0	10.1	37.3	27.0	57.5	56.2	6.2	4.5	34.4	25.9	58.4	57.1	5.0	3.0	
8		700	37.0	23.5	49.2	49.0	10.6	14.9	33.5	22.0	51.3	51.0	6.3	6.1	29.2	20.2	53.7	53.4	4.0	2.7	27.0	19.2	54.9	54.5	3.2	1.8	
		900	45.7	29.3	50.2	49.9	13.6	23.0	41.4	27.4	52.2	51.8	8.1	9.5	33.2	24.0	55.6	55.1	4.1	2.8	33.2	24.0	55.6	55.1	4.1	2.8	
		1100	53.9	34.7	51.2	50.6	16.6	32.6	48.7	32.5	53.0	52.4	10.0	13.4	42.6	29.9	55.1	54.5	6.2	5.9	39.3	28.7	56.2	55.6	5.0	4.0	
25		4	1000	38.4	25.5	56.7	54.6	15.1	9.6	34.4	23.8	58.3	56.0	9.0	4.0	29.5	21.8	60.0	57.8	5.7	1.7	27.2	20.9	60.9	58.5	4.5	1.2
			1150	42.5	28.3	57.5	55.1	17.3	12.3	38.2	26.5	58.9	56.5	10.4	5.0	32.8	24.4	60.6	58.1	6.5	2.2	30.2	23.5	61.4	58.8	5.2	1.2
			1300	46.3	31.1	58.1	55.6	19.6	15.2	41.6	29.1	59.5	56.9	11.8	6.2	35.9	26.9	61.1	58.4	7.4	2.8	33.3	25.9	61.8	59.1	5.9	1.9
	6	1000	46.6	30.2	52.4	51.5	15.1	14.3	41.8	28.1	54.3	53.4	9.0	5.9	36.2	25.9	56.3	55.4	5.7	2.6	33.5	24.7	57.4	56.4	4.5	1.8	
		1150	51.9	33.9	53.0	52.1	17.3	18.3	46.5	31.6	54.9	53.8	10.4	7.5	40.6	29.2	56.8	55.7	6.5	3.3	37.4	27.9	57.8	56.7	5.2	2.2	
		1300	57.1	37.5	53.6	52.6	19.6	22.6	51.3	34.9	55.4	54.2	11.8	9.3	44.7	32.3	57.3	56.0	7.4	4.1	41.1	30.9	58.3	57.0	5.9	2.8	
	8	1000	51.8	33.0	49.8	49.4	15.1	19.0	46.8	30.8	51.8	51.4	9.0	7.8	40.9	28.3	54.1	53.7	5.7	3.5	37.6	27.0	55.3	54.9	4.5	2.3	
		1150	58.2	37.3	50.4	49.9	17.3	24.2	52.6	34.8	52.3	51.9	10.4	10.0	46.0	32.1	54.5	54.0	6.5	4.4	42.3	30.6	55.7	55.2	5.2	3.0	
		1300	64.2	41.4	50.9	50.4	19.6	29.9	58.1	38.7	52.8	52.2	11.8	12.3	50.9	35.7	54.9	54.3	7.4	5.4	46.8	34.1	56.0	55.5	5.9	3.7	
	30	4	1200	46.1	30.6	56.7	54.6	18.1	9.9	41.3	28.5	58.3	56.0	10.9	4.0	35.4	26.2	60.0	57.8	6.8	1.8	32.7	25.1	60.9	58.5	5.4	1.2
			1400	51.5	34.4	57.5	55.2	21.1	12.9	46.0	32.2	59.0	56.6	12.7	5.3	32.9	29.6	60.7	58.1	7.9	2.3	36.8	28.4	61.4	58.8	6.3	1.6
			1600	56.5	38.0	58.3	55.7	24.1	16.3	50.9	35.7	59.6	57.0	14.5	6.7	44.1	32.9	61.2	58.4	9.1	2.9	40.5	31.6	61.9	59.2	7.2	2.0
6		1200	55.9	36.3	52.4	51.5	18.1	14.6	50.1	33.7	54.3	53.4	10.9	6.0	43.4	31.1	56.3	55.4	6.8	2.6	40.1	29.7	57.4	56.4	5.4	1.8	
		1400	63.0	41.2	53.1	52.1	21.1	19.0	56.4	38.4	54.9	53.9	12.7	7.8	49.2	35.4	56.9	55.8	7.9	3.4	45.3	33.9	57.9	56.7	6.3	2.3	
		1600	70.0	45.8	53.8	52.6	24.1	24.0	62.6	42.8	55.5	54.3	14.5	9.8	54.5	39.5	57.4	56.2	9.1	4.3	50.6	37.9	58.3	57.0	7.2	2.9	
8		1200	62.2	39.6	49.8	49.4	18.1	19.2	56.7	37.0	51.8	51.4	10.9	7.9	49.0	34.0	54.1	53.7	6.8	3.5	45.2	32.4	55.3	54.9	5.4	2.4	
		1400	70.7	45.3	50.4	50.0	21.1	25.1	63.8	42.3	52.4	51.9	12.7	10.3	55.8	39.0	54.6	54.1	7.9	4.6	51.5	37.1	55.7	55.2	6.3	3.1	
		1600	78.9	50.8	51.0	50.5	24.1	31.7	71.3	47.5	52.9	52.3	14.5	13.0	62.1	43.7	55.0	54.4	9.1	5.7	57.4	41.8	56.1	55.5	7.2	3.9	

MBh - Million British Thermal Units Per Hour

SC - Sensible Capacity (MBh)

LAT - Leaving Air Temperature (°F) - Do not operate at over 105 °F.

LWT - Leaving Water Temperature (°F)

WPD - Water Pressure Drop

GPM - Gallons per Minute

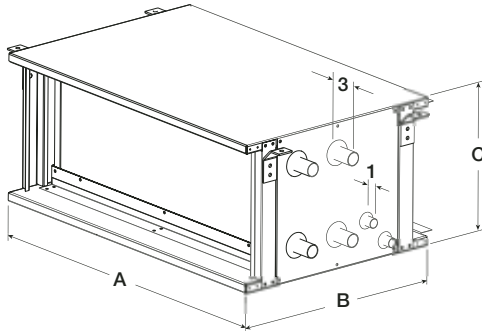
# MSCF COIL Data



## Chilled Water

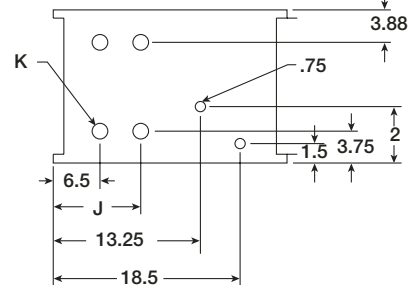
4, 6 or 8 Row

## Dimensional Data



Size	Face	A	B	C	J			K	
					4	6	8	4&6	8
15	1.6	38	24.5	11.0	10	12	14	0.75	1.38
20	2.2	38	24.5	14.0	10	12	14	0.75	1.38
25	2.7	38	24.5	16.0	10	12	14	0.88	1.38
30	3.2	38	24.5	18.5	10	12	14	0.88	1.38
45	4.5	50	24.5	18.5	10	12	14	0.88	1.38
50	5.2	50	24.5	21.0	10	12	14	1.38	1.63
65	6.7	50	24.5	26.0	10	12	14	1.38	1.63
85	8.6	62	24.5	26.0	10	12	14	1.38	1.63

All dimensions are in inches.



## Performance Data

Cooling Capacities based on 80°F DB, 67°F WB, and 45°F EWT.

Unit Size	Coil Rows	CFM	6° F					10° F					16° F					20° F									
			TC	SC	LDB	LWB	GPM	WPD	TC	SC	LDB	LWB	GPM	WPD	TC	SC	LDB	LWB	GPM	WPD	TC	SC	LDB	LWB	GPM	WPD	
45	4	1650	65.1	42.9	56.2	54.2	24.9	20.9	59.0	40.2	57.7	55.6	14.9	8.6	51.2	37.0	59.5	57.2	9.3	3.8	47.3	35.5	60.4	58.0	7.5	2.6	
		1950	73.5	48.6	57.2	54.9	29.4	27.9	61.5	45.7	58.6	56.2	17.6	11.4	58.1	42.3	60.2	57.7	11.0	5.0	53.8	40.6	60.9	58.4	8.8	3.4	
		2250	81.5	54.2	58.0	55.4	33.9	35.9	74.0	51.1	59.2	56.6	20.4	14.7	64.6	47.2	60.8	58.0	12.7	6.5	59.9	45.5	61.5	58.7	10.2	4.4	
	6	1650	78.6	50.6	52.0	51.1	24.9	30.8	70.8	47.3	53.8	52.9	14.9	12.7	62.1	43.7	55.8	54.9	9.3	5.6	57.2	41.7	56.9	55.9	7.5	3.8	
		1950	89.7	58.1	52.8	51.8	29.4	41.2	81.4	54.5	54.4	53.4	17.6	16.9	71.1	50.3	56.4	55.3	11.0	7.5	65.5	48.1	57.4	56.3	8.8	5.1	
		2250	100.0	65.3	53.5	52.3	33.9	52.8	90.7	61.3	55.1	53.9	20.4	21.7	79.4	56.6	57.0	55.7	12.7	9.6	73.6	54.2	58.0	56.6	10.2	6.5	
	8	1650	87.1	55.2	49.4	49.1	24.9	40.7	79.3	51.8	51.3	50.9	14.9	16.7	69.6	47.7	53.6	53.2	9.3	7.4	64.1	45.5	54.8	54.4	7.5	5.0	
		1950	100.0	63.8	50.1	49.7	29.4	54.4	91.0	59.8	51.9	51.5	17.6	22.4	80.0	55.2	54.1	53.6	11.0	9.9	74.0	52.7	55.3	54.8	8.8	6.7	
		2250	112.4	72.1	50.7	50.2	33.9	69.7	102.2	67.7	52.5	52.0	20.4	28.6	90.0	62.4	54.6	54.0	12.7	12.6	83.4	59.8	55.7	55.1	10.2	8.6	
	50	4	1800	72.6	47.5	55.9	53.9	27.1	19.0	65.5	44.5	57.4	55.4	16.3	7.8	56.4	40.9	59.2	57.1	10.2	3.4	52.5	39.3	60.1	57.9	8.2	2.3
			2200	83.9	55.4	57.0	54.7	33.1	27.0	75.7	52.1	58.4	56.0	19.9	11.0	65.9	48.0	60.1	57.6	12.5	4.8	61.0	46.1	60.8	58.4	10.0	3.3
			2600	94.2	62.7	58.0	55.4	39.2	36.1	85.5	59.1	59.2	56.6	23.5	14.8	75.0	54.8	60.7	58.0	14.7	6.5	69.2	52.6	61.5	58.7	11.8	4.4
6		1800	87.0	55.9	51.6	50.8	27.1	27.8	78.5	52.2	53.5	52.7	16.3	11.4	68.6	48.1	56.6	54.7	10.2	5.0	63.2	45.9	56.7	55.8	8.2	3.4	
		2200	101.8	65.9	52.6	51.6	33.1	39.5	92.5	62.0	54.3	53.3	19.9	16.2	80.6	57.0	56.3	55.2	12.5	7.1	74.3	54.6	57.3	56.3	10.0	4.8	
		2600	116.0	75.5	53.4	52.3	39.2	52.8	105.2	71.0	55.0	53.8	23.5	21.6	91.7	65.6	56.9	55.7	14.2	9.5	85.4	62.9	57.9	56.6	11.8	6.5	
8		1800	95.9	60.8	49.1	48.9	27.1	36.7	87.5	56.9	51.1	50.7	16.3	15.1	76.7	52.4	53.4	53.0	10.2	6.6	70.9	50.0	54.6	54.2	8.2	4.5	
		2200	113.5	72.3	49.9	49.6	33.1	52.0	103.3	67.9	51.8	51.4	19.9	21.3	90.5	62.5	54.0	53.6	12.5	9.4	83.8	59.7	55.2	54.7	10.0	6.4	
		2600	130.3	83.3	50.7	50.1	39.2	69.4	118.5	78.3	52.5	51.9	23.5	28.5	104.0	72.3	54.6	54.0	14.7	12.5	96.3	69.1	55.7	55.1	11.8	8.5	
65		4	2575	100.9	66.3	56.5	54.3	38.8	24.1	90.9	62.2	57.9	55.7	23.3	9.8	79.1	57.2	59.7	57.2	14.6	4.3	73.0	55.0	60.5	58.1	11.7	2.9
			2925	110.3	72.9	57.2	54.9	44.1	30.2	99.8	68.6	58.6	56.2	26.5	12.3	87.1	63.4	60.2	57.7	16.6	5.4	80.6	61.0	60.9	58.4	13.2	3.6
			3275	119.6	79.5	57.8	55.3	49.3	36.8	108.7	74.7	59.1	56.5	29.6	14.9	94.5	69.2	60.7	58.0	18.5	6.5	87.7	66.7	61.4	58.7	14.8	4.4
	6	2575	121.6	78.6	52.1	51.3	38.8	34.7	109.7	73.4	53.9	53.0	23.3	14.2	96.2	67.6	56.0	55.0	14.6	6.2	88.9	64.8	57.0	56.0	11.7	4.2	
		2925	134.5	87.1	52.8	51.8	44.1	43.4	122.1	81.8	54.4	53.4	26.5	17.7	106.7	75.4	56.4	55.3	16.6	7.8	98.3	72.2	57.4	56.3	13.2	5.3	
		3275	146.5	95.5	53.2	52.2	49.3	52.9	133.0	89.8	54.9	53.8	29.6	21.6	116.5	83.0	56.8	55.6	18.5	9.5	107.6	79.5	57.8	56.6	14.8	6.4	
	8	2575	134.8	85.7	49.6	49.2	38.8	45.3	122.7	80.4	51.4	51.1	23.3	18.6	107.8	74.0	53.7	53.3	14.6	8.2	99.6	70.7	54.9	54.5	11.7	5.5	
		2925	150.1	95.7	50.1	49.7	44.1	56.6	136.5	89.7	51.9	51.5	26.5	23.2	120.0	82.8	54.1	53.6	16.6	10.2	111.0	79.1	55.3	54.8	13.2	6.9	
		3275	164.5	105.3	50.6	50.1	49.3	68.9	149.7	98.9	52.4	51.9	29.6	28.2	131.5	91.4	54.5	54.0	18.5	12.4	121.4	87.4	55.6	55.1	14.8	8.4	
	85	4	3000	122.3	79.7	55.7	53.7	45.2	36.1	111.3	75.1	57.1	55.1	27.1	14.7	96.8	69.1	59.0	56.8	17.0	6.4	89.3	66.2	59.8	57.7	13.6	4.4
			3600	140.0	91.7	56.7	54.4	54.2	49.8	127.1	86.4	58.0	55.7	32.6	20.3	111.2	79.9	59.7	57.3	20.4	8.9	103.2	76.7	60.5	58.0	16.3	6.0
			4250	157.1	103.7	57.7	55.1	64.0	66.6	143.7	98.1	58.9	56.3	38.4	27.1	125.9	90.9	60.4	57.7	24.0	11.9	117.2	87.5	61.2	58.4	19.2	8.0
6		3000	146.2	93.7	51.4	50.7	45.2	52.2	133.8	88.2	53.1	52.3	27.1	21.3	116.5	81.0	55.3	54.4	17.0	9.4	107.6	77.5	56.4	55.5	13.6	6.3	
		3600	169.1	108.9	52.3	51.4	54.2	71.8	154.4	102.6	53.9	52.9	32.6	29.3	135.1	94.5	56.0	54.9	20.4	12.9	124.8	90.7	57.0	55.9	16.3	8.7	
		4250	191.9	124.7	53.2	52.1	64.0	95.9	175.6	117.5	54.7	53.5	38.4	39.2	153.8	108.6	56.6	55.4	24.0	17.2	142.8	104.1	57.6	56.3	19.2	11.6	
8		3000	161.0	101.8	49.0	48.7	45.2	68.3	147.4	95.6	50.9	50.5	27.1	28.0	129.9	88.1	53.1	52.8	17.0	12.3	120.0	84.1	54.4	54.0	13.6	8.3	
		3600	187.6	119.2	49.7	49.3	54.2	93.8	171.5	112.1	51.5	51.1	32.6	38.4	151.3	103.4	53.7	53.3	20.4	16.9	139.8	98.9	54.9	54.4	16.3	11.4	
		4250	215.2	137.5	50.4	49.9	64.0	125.2	196.6	129.4	52.2	51.6	38.4	51.2	173.7	119.5	54.3	53.7	24.0	22.5	160.6	114.2	55.4	54.8	19.2	15.2	

MBh - Million British Thermal Units Per Hour

SC - Sensible Capacity (MBh)

LAT - Leaving Air Temperature (°F) - Do not operate at over 105 °F.

LWT - Leaving Water Temperature (°F)

WPD - Water Pressure Drop

GPM - Gallons per Minute

# MSCF COIL Data

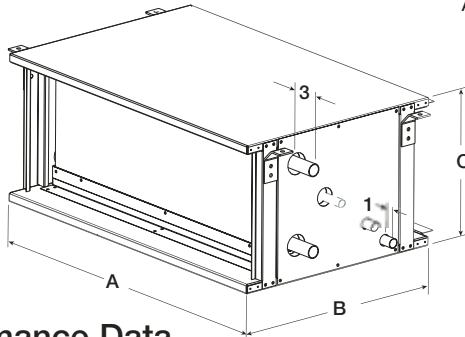


## Direct Expansion (DX)

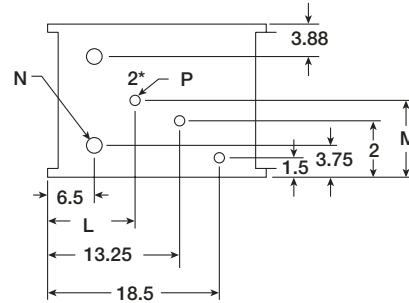
4, 6 or 8 Row

Unit Size	Face Area	A	B	C	L			M	N	P	
					4	6	8	All	All	4 & 6	8
15	1.6	38	24.5	11.0	8.75	10.75	12.75	5.25	0.63	0.63	1.38
20	2.2	38	24.5	14.0	8.75	10.75	12.75	7.00	0.63	0.63	1.38
25	2.7	38	24.5	16.0	8.75	10.75	12.75	8.00	0.88	1.38	1.38
30	3.2	38	24.5	18.5	8.75	10.75	12.75	9.00	0.88	1.38	1.38
45	4.5	50	24.5	18.5	8.75	10.75	12.75	9.00	0.88	1.38	1.38
50	5.2	50	24.5	21.0	8.75	10.75	12.75	10.25	0.88	1.38	1.63
65	6.7	50	24.5	26.0	8.75	10.75	12.75	13.00	1.13	1.38	1.63
85	8.6	62	24.5	26.0	8.75	10.75	12.75	13.00	1.13	1.38	1.63

## Dimensional Data



All dimensions are in inches.



\* Indicates diameter of hole in panel

## Performance Data

Cooling Capacities based on Refrigerant R-22.

Unit Size	Coil Rows	CFM	40° F Suction Temp.					45° F Suction Temp.					50° F Suction Temp.				
			TC	SC	LDB	LWB	RPD	TC	SC	LDB	LWB	RPD	TC	SC	LDB	LWB	RPD
15	4	400	18.1	11.7	52.9	52.2	0.4	13.9	10.0	56.8	56.1	0.2	9.9	8.5	60.3	59.5	0.1
		600	23.6	15.7	55.7	54.4	0.6	17.9	13.5	59.1	57.8	0.3	12.8	11.7	62.0	60.6	0.1
		800	27.9	19.2	57.8	56.0	0.8	21.1	16.6	60.8	59.0	0.4	15.2	14.5	63.2	61.4	0.2
	6	400	23.1	14.2	47.1	47.1	0.9	18.6	12.2	51.7	51.7	0.5	13.7	10.2	56.3	56.3	0.3
		600	31.3	19.6	49.7	49.5	1.6	25.0	17.0	53.8	53.5	0.9	18.5	14.4	57.8	57.5	0.5
		800	38.0	24.4	51.8	51.3	2.4	30.3	21.2	55.5	55.0	1.4	22.3	18.1	59.0	58.4	0.7
	8	400	25.4	15.4	44.3	44.3	1.4	21.0	13.3	49.1	49.1	0.9	16.1	11.3	53.9	53.9	0.5
		600	35.1	21.6	46.7	46.7	2.7	28.9	18.8	50.9	50.9	1.7	22.1	16.0	55.3	55.3	0.9
		800	43.2	27.0	48.7	48.7	4.1	35.6	23.8	52.5	52.5	2.5	27.2	20.4	56.4	56.3	1.3
20	4	700	31.7	20.2	53.2	55.2	5.0	25.8	17.8	56.4	55.3	3.0	19.6	15.5	59.5	58.4	1.5
		900	36.6	23.9	55.4	53.9	6.6	30.1	21.4	58.0	56.6	4.0	22.8	18.6	60.8	59.3	2.1
		1100	40.4	27.1	57.2	55.4	8.1	33.5	24.5	59.4	57.6	5.0	25.4	21.5	61.9	60.1	2.6
	6	700	37.8	23.6	48.8	48.7	1.3	30.4	20.4	53.1	52.9	0.8	24.2	17.9	56.4	56.1	3.5
		900	45.3	28.7	50.5	50.2	1.9	36.2	24.8	54.5	54.1	1.1	28.1	21.7	57.7	57.3	4.8
		1100	51.7	33.2	52.0	51.5	2.5	41.3	28.9	55.6	55.1	1.4	31.3	25.1	58.9	58.3	5.9
	8	700	42.0	25.7	46.0	46.0	2.2	34.8	22.5	50.3	50.3	1.4	26.7	19.1	54.8	54.8	0.7
		900	51.1	31.6	47.5	47.5	3.2	42.0	27.6	51.6	51.6	2.0	32.2	23.6	55.7	55.7	1.0
		1100	58.8	36.9	49.0	48.9	4.3	48.5	32.4	52.7	52.6	6.6	36.8	27.7	56.7	56.5	1.4
25	4	1000	39.3	26.2	55.7	54.4	0.6	49.8	22.6	59.1	57.8	0.3	21.3	19.5	62.0	60.6	0.1
		1150	42.7	28.9	56.7	55.2	0.7	32.3	25.0	59.9	58.4	0.4	23.2	21.7	62.6	61.0	0.2
		1300	45.9	31.5	57.6	55.9	0.8	34.6	27.3	60.6	58.9	0.4	24.9	23.8	63.1	61.3	0.2
	6	1000	52.1	32.7	49.7	49.5	1.6	41.7	28.3	53.8	53.2	0.9	30.8	24.0	57.8	57.5	0.5
		1150	57.4	36.4	50.7	50.3	2.0	45.9	31.6	54.6	54.2	1.1	35.7	28.7	58.7	58.3	0.6
		1300	62.3	39.9	51.6	51.1	2.3	49.8	34.6	55.3	54.8	1.3	36.6	29.6	58.9	58.4	0.6
	8	1000	58.5	36.0	46.7	46.7	2.7	48.2	31.4	50.9	50.9	1.7	36.9	26.7	55.3	55.3	0.9
		1150	64.9	40.2	47.6	47.6	3.4	53.4	35.2	51.7	51.7	2.0	40.9	30.1	55.8	55.8	1.1
		1300	70.8	44.2	48.5	48.5	4.0	58.3	38.8	52.4	52.3	2.4	44.5	33.3	56.3	56.2	1.3
30	4	1200	51.4	33.2	54.4	53.1	5.8	42.1	29.5	57.3	56.0	3.5	31.9	25.6	60.2	58.9	1.8
		1400	55.9	36.7	55.7	54.2	6.9	46.1	32.9	58.3	56.7	4.2	34.8	28.7	61.0	59.5	2.2
		1600	59.6	39.9	56.9	55.2	7.9	49.4	36.0	59.2	57.4	4.8	37.4	31.6	61.7	60.0	2.5
	6	1200	62.5	39.3	49.7	49.5	1.6	50.1	34.0	53.8	53.5	0.9	39.4	29.7	57.1	56.8	4.2
		1400	69.6	44.2	50.8	50.4	2.0	53.6	38.3	54.7	54.3	1.1	42.8	33.3	58.0	57.5	4.9
		1600	76.1	48.8	51.8	51.3	2.4	60.6	42.4	55.5	55.0	1.4	46.3	36.8	58.7	58.1	5.8
	8	1200	70.2	43.2	46.7	46.7	2.7	57.9	37.7	50.9	50.9	1.7	44.3	32.1	55.3	55.3	0.9
		1400	78.7	48.8	47.7	47.7	3.4	64.8	42.7	51.8	51.8	2.1	49.5	36.5	55.9	55.8	1.1
		1600	86.4	54.1	48.7	48.7	4.1	71.2	47.5	52.5	52.5	2.5	54.4	40.7	56.4	56.3	1.3

MBh - Million British Thermal Units Per Hour

SC - Sensible Capacity (MBh)

LDB - Leaving Dry Bulb (°F) - Do not operate at over 105 °F.

LWB - Leaving Wet Bulb (°F)

RPD - Refrigerant Pressure Drop (R-22)

# MSCF COIL Data

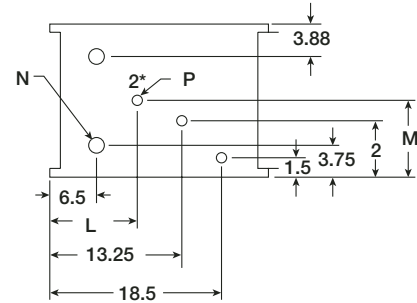
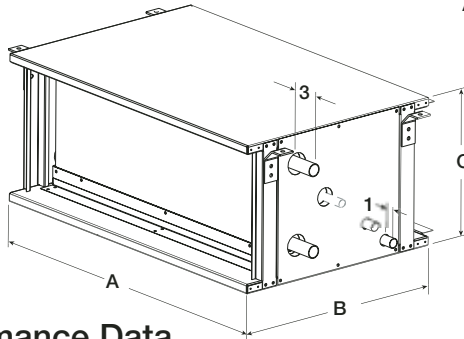


**Direct Expansion (DX)**  
4, 6 or 8 Row

Unit Size	Face Area	A	B	C	L			M	N	P	
					4	6	8	All	All	4 & 6	8
15	1.6	38	24.5	11.0	8.75	10.75	12.75	5.25	0.63	0.63	1.38
20	2.2	38	24.5	14.0	8.75	10.75	12.75	7.00	0.63	0.63	1.38
25	2.7	38	24.5	16.0	8.75	10.75	12.75	8.00	0.88	1.38	1.38
30	3.2	38	24.5	18.5	8.75	10.75	12.75	9.00	0.88	1.38	1.38
45	4.5	50	24.5	18.5	8.75	10.75	12.75	9.00	0.88	1.38	1.38
50	5.2	50	24.5	21.0	8.75	10.75	12.75	10.25	0.88	1.38	1.63
65	6.7	50	24.5	26.0	8.75	10.75	12.75	13.00	1.13	1.38	1.63
85	8.6	62	24.5	26.0	8.75	10.75	12.75	13.00	1.13	1.38	1.63

## Dimensional Data

All dimensions are in inches.



\* Indicates diameter of hole in panel

## Performance Data

Cooling Capacities based on Refrigerant R-22.

Unit Size	Coil Rows	40° F Suction Temp.					45° F Suction Temp.					50° F Suction Temp.					
		CFM	TC	SC	LDB	LWB	RPD	TC	SC	LDB	LWB	RPD	TC	SC	LDB	LWB	RPD
15	4	1650	70.6	45.7	54.4	53.1	1.7	55.9	39.8	57.7	56.4	7.8	44.7	35.6	60.0	58.7	4.5
		1950	78.4	51.4	55.6	54.1	2.1	61.4	44.7	58.8	57.2	1.2	48.4	39.9	61.1	59.5	5.3
		2250	84.9	56.5	56.8	55.0	2.5	66.7	49.5	59.7	57.9	1.4	51.7	44.0	61.9	60.1	6.0
	6	1650	87.2	54.5	49.4	49.2	4.0	71.9	48.0	53.1	52.8	2.4	54.2	40.9	57.1	56.8	1.2
		1950	97.2	61.6	50.8	50.4	4.9	80.4	54.5	54.1	53.7	3.0	61.5	47.1	57.6	57.2	1.6
		2250	106.4	68.2	51.9	51.4	5.9	87.9	60.6	55.1	54.5	3.6	67.0	52.5	58.4	57.8	1.9
	8	1650	94.6	58.5	47.2	47.2	0.8	79.1	51.6	51.1	51.1	3.9	62.5	47.7	54.9	54.9	2.2
		1950	107.6	67.1	48.2	48.2	1.0	88.8	58.8	52.1	52.1	4.9	70.2	51.3	55.7	55.6	2.8
		2250	119.6	75.2	49.1	49.0	1.2	97.2	65.5	53.0	53.0	5.9	77.1	57.5	56.4	56.2	3.3
20	4	1800	79.0	50.8	53.9	52.7	1.6	62.3	44.1	57.3	56.1	0.9	45.0	37.7	60.6	59.4	0.4
		2200	89.3	58.4	55.4	53.9	2.0	70.3	51.0	58.6	57.1	1.1	50.8	43.8	61.6	60.0	0.5
		2600	98.6	65.5	56.7	54.9	2.5	77.4	57.3	59.6	57.8	1.4	56.0	49.6	62.4	60.6	0.6
	6	1800	97.2	60.5	48.9	48.7	3.6	80.1	53.1	52.7	52.5	2.2	61.0	45.5	56.6	56.4	1.2
		2200	111.1	70.2	50.5	50.1	4.7	91.7	62.0	53.9	53.5	2.9	70.1	53.4	57.5	57.1	1.5
		2600	123.4	79.1	51.8	51.3	5.8	101.9	70.2	55.0	54.5	3.6	77.7	60.8	58.4	57.8	1.9
	8	1800	104.7	64.6	46.8	46.8	0.7	88.0	57.1	50.7	50.7	3.6	69.4	49.3	54.6	54.6	2.0
		2200	122.3	76.2	48.0	48.0	1.0	101.3	66.9	51.8	51.8	4.7	80.0	58.2	55.5	55.5	2.7
		2600	138.5	87.1	49.0	49.0	1.2	112.7	75.9	53.0	52.9	5.9	89.4	66.6	56.3	56.2	3.3
25	4	2575	108.1	70.3	54.7	53.4	1.8	85.4	61.2	58.0	56.6	1.0	61.8	52.5	61.1	59.8	0.5
		2925	117.7	77.1	55.6	54.1	2.1	92.1	67.1	58.8	57.2	1.2	66.6	57.7	61.7	60.2	0.6
		3275	125.3	83.1	56.5	54.8	2.4	98.2	72.6	59.5	57.7	1.3	71.1	62.7	62.3	60.5	0.6
	6	2575	134.3	84.3	49.7	49.4	4.2	110.8	74.2	53.3	53.0	2.6	83.9	63.5	57.2	56.8	1.3
		2925	145.9	92.4	50.8	50.4	4.9	120.5	81.7	54.1	53.7	3.0	92.3	70.6	57.6	57.2	1.6
		3275	156.4	100.1	51.7	51.2	5.7	129.4	88.9	54.9	54.4	3.5	98.6	77.0	58.2	57.7	1.8
	8	2575	146.3	90.7	47.4	47.4	0.8	122.0	79.9	51.3	51.3	4.2	96.4	69.3	55.1	55.1	2.3
		2925	161.3	100.6	48.2	48.2	1.0	133.2	88.2	52.1	52.1	4.9	105.2	76.9	55.7	55.6	2.8
		3275	175.5	110.1	48.9	48.9	1.2	143.1	96.1	52.8	52.8	5.7	113.4	84.2	56.2	56.1	3.2
30	4	3000	134.1	85.7	53.6	52.4	3.3	108.5	75.3	56.8	55.6	2.0	80.4	64.6	60.1	58.8	1.0
		3600	149.5	97.0	55.1	53.6	4.2	121.0	85.7	58.0	56.5	2.4	89.6	74.0	61.0	59.5	1.2
		4250	163.5	108.1	56.5	54.7	5.0	132.7	96.1	59.1	57.3	2.9	98.4	83.5	61.8	60.0	1.5
	6	3000	156.8	98.5	49.6	49.4	0.9	131.6	87.7	52.9	52.7	4.4	103.2	76.3	56.5	56.2	2.4
		3600	178.6	113.5	50.8	50.5	1.1	147.6	100.4	54.2	53.8	5.5	116.0	87.9	57.4	57.0	3.0
		4250	199.9	128.6	52.0	51.5	1.4	162.2	113.1	55.4	54.8	6.6	127.9	99.8	58.3	57.7	3.7
	8	3000	178.5	109.5	46.2	46.2	1.5	145.8	94.7	50.8	50.8	0.9	112.8	81.0	55.0	55.0	3.9
		3600	205.7	127.1	47.3	47.3	2.0	167.5	110.2	51.7	51.7	1.2	126.8	93.6	55.9	55.9	4.9
		4250	232.3	144.9	48.4	48.4	2.5	189.1	126.1	52.5	52.5	1.5	142.3	107.3	56.6	56.5	0.8

MBh - Million British Thermal Units Per Hour

SC - Sensible Capacity (MBh)

LDB - Leaving Dry Bulb (°F) - Do not operate at over 105 °F.

LWB - Leaving Wet Bulb (°F)

RPD - Refrigerant Pressure Drop (R-22)

# MSCF FILTER Data



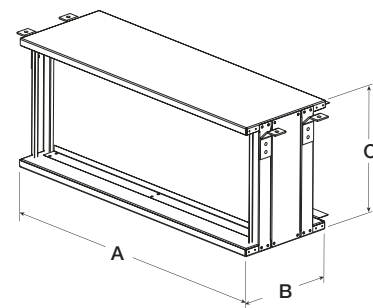
In recent years building owner and contractors are have been challenged with designing HVAC systems which provide better indoor air quality (IAQ). A new standard known as ASHRAE 52.2 (*Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size*) is offering a significant step forward in filter and IAQ testing. This new standard complements the old standard, it does not replace them, and has established a new controlled method of laboratory testing, which provides us with at Minimum Efficiency Reporting Value (MERV). It is to this standard to which Greenheck filters are tested.

- Aluminum filter - Seven layer aluminum mesh 2 inch
- Pleated filter - MERV-8 (30%) - controls mold spores 2 and 4 inch
- Box filter - MERV-11 (60%) - controls lead dust, milled flour 2 and 4 inch

## Filter Module Dimensional

Size	A	B		C	Weight	
		Vert.	Sloped		Vert.	Sloped
15	38	12.75	24.5	11.0	33	54
20	38	12.75	24.5	14.0	38	64
25	38	12.75	27.0	16.0	45	75
30	38	12.75	31.0	18.5	52	86
45	50	12.75	32.0	18.5	60	99
50	50	12.75	32.0	21.0	68	114
65	50	12.75	38.0	26.0	79	131
85	62	12.75	38.0	26.0	91	151

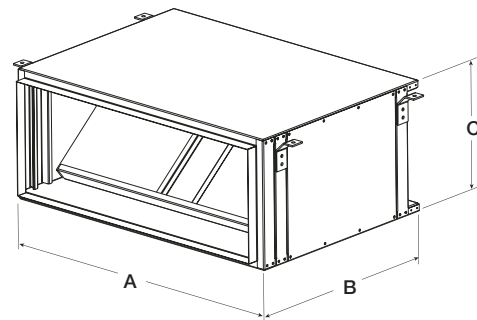
All dimensions are in inches.



## Filters Dimensional

Size	Vertical	Qty	Face	Sloped	Qty	Face
15	9x18	2	1.8	12x12	1	2.5
				12x24	1	
20	12x12	1	2.5	16x16	1	3.4
				12x24	1	
25	14x18	2	3.0	16x20	2	3.8
30	16x16	1	3.4	12x24	1	5.3
				16x20	1	
45	16x24	2	4.8	24x24	2	7.2
50	18x24	2	5.4	24x24	2	7.2
65	24x24	2	7.2	24x24	4	14.4
85	12x24	1	8.9	12x24	2	17.8
				24x24	2	

All dimensions are in inches.





# MSCF FILTER Data



Size	CFM	Vertical Filters						Sloped Filters					
		Filter Velocity	Alum. 2 in.	Pleated				Filter Velocity	Alum. 2 in.	Pleated			
				30%		65%				30%		65%	
				2 in.	4 in.	2 in.	4 in.			2 in.	4 in.	2 in.	4 in.
15	300	167	0.056	0.068	0.065	0.088	0.085	120	0.033	0.040	0.039	0.052	0.050
	400	222	0.100	0.121	0.116	0.157	0.151	160	0.059	0.071	0.069	0.093	0.090
	500	278	0.157	0.188	0.182	0.245	0.236	200	0.093	0.112	0.108	0.145	0.140
	600	333	0.226	0.271	0.262	0.353	0.340	240	0.134	0.161	0.155	0.209	0.201
	700	389	0.307	0.369	0.356	0.480	0.463	280	0.182	0.219	0.211	0.284	0.274
	800	444	0.401	0.482	0.465	0.627	0.604	320	0.238	0.286	0.275	0.371	0.358
20	600	240	0.117	0.141	0.136	0.183	0.176	176	0.072	0.087	0.084	0.113	0.109
	700	280	0.159	0.191	0.185	0.249	0.240	206	0.098	0.118	0.114	0.154	0.148
	800	320	0.208	0.250	0.241	0.325	0.313	235	0.128	0.154	0.149	0.201	0.194
	900	360	0.263	0.316	0.305	0.411	0.397	265	0.163	0.195	0.188	0.254	0.245
	1000	400	0.325	0.391	0.377	0.508	0.490	294	0.201	0.241	0.233	0.314	0.303
	1100	440	0.393	0.473	0.456	0.614	0.592	324	0.243	0.292	0.282	0.380	0.366
25	900	300	0.183	0.220	0.212	0.286	0.275	237	0.130	0.157	0.151	0.203	0.196
	990	330	0.221	0.266	0.256	0.346	0.333	261	0.157	0.189	0.183	0.246	0.237
	1080	360	0.263	0.316	0.305	0.411	0.397	284	0.187	0.225	0.217	0.293	0.282
	1170	390	0.309	0.371	0.358	0.483	0.465	308	0.220	0.264	0.255	0.344	0.332
	1260	420	0.358	0.431	0.415	0.560	0.540	332	0.255	0.307	0.296	0.399	0.384
	1350	450	0.411	0.494	0.477	0.643	0.620	355	0.293	0.352	0.340	0.458	0.441
30	1200	353	0.253	0.304	0.293	0.395	0.381	226	0.119	0.143	0.138	0.186	0.179
	1280	376	0.288	0.346	0.334	0.450	0.434	242	0.135	0.163	0.157	0.212	0.204
	1360	400	0.325	0.391	0.377	0.508	0.490	257	0.153	0.184	0.177	0.239	0.230
	1440	424	0.364	0.438	0.422	0.569	0.549	272	0.171	0.206	0.199	0.268	0.258
	1520	447	0.406	0.488	0.470	0.634	0.612	287	0.191	0.229	0.221	0.298	0.288
	1600	471	0.450	0.541	0.521	0.703	0.678	302	0.211	0.254	0.245	0.331	0.319
45	1500	313	0.198	0.238	0.230	0.310	0.299	208	0.101	0.121	0.117	0.157	0.152
	1650	344	0.240	0.288	0.278	0.375	0.362	229	0.122	0.147	0.141	0.190	0.184
	1800	375	0.285	0.343	0.331	0.446	0.430	250	0.145	0.174	0.168	0.227	0.219
	1950	406	0.335	0.403	0.388	0.524	0.505	271	0.170	0.205	0.197	0.266	0.257
	2100	438	0.389	0.467	0.451	0.607	0.586	292	0.197	0.237	0.229	0.309	0.297
	2250	469	0.446	0.536	0.517	0.697	0.672	313	0.227	0.272	0.263	0.354	0.342
50	1800	333	0.226	0.271	0.262	0.353	0.340	250	0.145	0.174	0.168	0.227	0.219
	1960	363	0.267	0.322	0.310	0.418	0.403	272	0.172	0.207	0.199	0.269	0.259
	2120	393	0.313	0.376	0.363	0.489	0.472	294	0.201	0.242	0.233	0.314	0.303
	2280	422	0.362	0.435	0.420	0.566	0.545	317	0.233	0.280	0.270	0.364	0.351
	2440	452	0.414	0.498	0.481	0.648	0.625	339	0.266	0.320	0.309	0.417	0.402
	2600	481	0.471	0.566	0.546	0.736	0.709	361	0.303	0.364	0.351	0.473	0.456
65	2400	333	0.193	0.310	0.299	0.403	0.389	167	0.064	0.078	0.075	0.101	0.097
	2590	360	0.225	0.361	0.348	0.469	0.453	180	0.075	0.090	0.087	0.117	0.113
	2780	386	0.259	0.416	0.401	0.541	0.521	193	0.086	0.104	0.100	0.135	0.130
	2970	413	0.296	0.475	0.458	0.617	0.595	206	0.099	0.119	0.114	0.154	0.149
	3160	439	0.335	0.537	0.518	0.699	0.674	219	0.112	0.134	0.130	0.175	0.168
	3350	465	0.377	0.604	0.582	0.785	0.757	233	0.126	0.151	0.146	0.196	0.189
85	3000	337	0.198	0.317	0.306	0.412	0.397	169	0.066	0.079	0.076	0.103	0.099
	3260	366	0.233	0.374	0.361	0.487	0.469	183	0.078	0.094	0.090	0.122	0.117
	3520	396	0.272	0.436	0.421	0.567	0.547	198	0.091	0.109	0.105	0.142	0.137
	3780	425	0.314	0.503	0.485	0.654	0.631	212	0.105	0.126	0.121	0.164	0.158
	4040	454	0.359	0.575	0.554	0.747	0.721	227	0.120	0.144	0.139	0.187	0.180
	4300	483	0.406	0.651	0.628	0.847	0.816	242	0.135	0.163	0.157	0.212	0.204

Max Velocity Limits  
 2 in. Aluminum - 650 fpm  
 2 in. Pleated - 500 fpm  
 4 in. Pleated - 625 fpm

# MSCF MIXING BOX Data



The **20** is a general purpose damper intended for applications in low to medium pressure and velocity systems under circumstances where low leakage performance is not necessary. This dampers has 3-V style blades for applications as an automatic control or manual balancing damper.

**Blades:** 16 gauge galvanized steel, reinforced with 3 longitudinal structurally designed vee's.

**Linkage:** Side linkage out of airstream (concealed in frame)

**Seals:** None



The low leakage control damper intended for applications in low to medium pressure and velocity systems. This damper has 3-V style blades for applications as an automatic control or manual balancing damper.

**Blades:** 16 gauge galvanized steel, reinforced with 3 longitudinal structurally designed vee's.

**Linkage:** Side linkage out of airstream (concealed in frame)

**Seals:** Extruded vinyl blade seals flexible metal compression type jamb seals

The Airfoil is designed to meet the highest standards established for commercial control dampers. It is an extremely low leakage damper intended for application in medium to high pressure and velocity systems. May be used for applications as an automatic control or balancing damper.



**Blades:** 16 gauge galvanized steel, reinforced with 3 longitudinal structurally designed vee's.

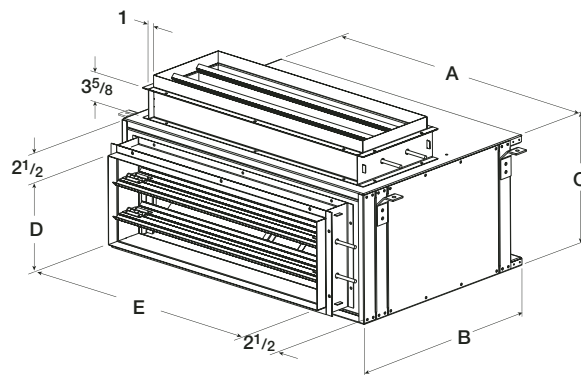
**Linkage:** Side linkage out of airstream (concealed in frame)

**Seals:** Extruded silicone rubber blade seals. Flexible metal compression type jamb seals

## Mixing Box Dimensional

Size	A	B		C	D	E	Weight	
		Vert.	Sloped				Vert.	Sloped
15	38	12.75	24.5	11.0	6.0	33	33	54
20	38	12.75	24.5	14.0	9.0	33	38	64
25	38	12.75	27.0	16.0	11.0	33	45	75
30	38	12.75	31.0	18.5	13.5	33	52	86
45	50	12.75	32.0	18.5	13.5	45	60	99
50	50	12.75	32.0	21.0	16.0	45	68	114
65	50	12.75	38.0	26.0	21.0	45	79	131
85	62	12.75	38.0	26.0	21.0	57	91	151

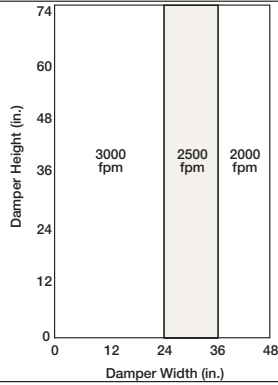
All dimensions are in inches.



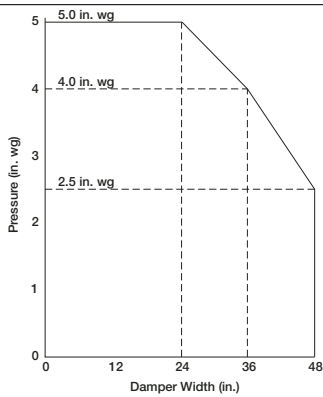
# MSCF MIXING BOX Data



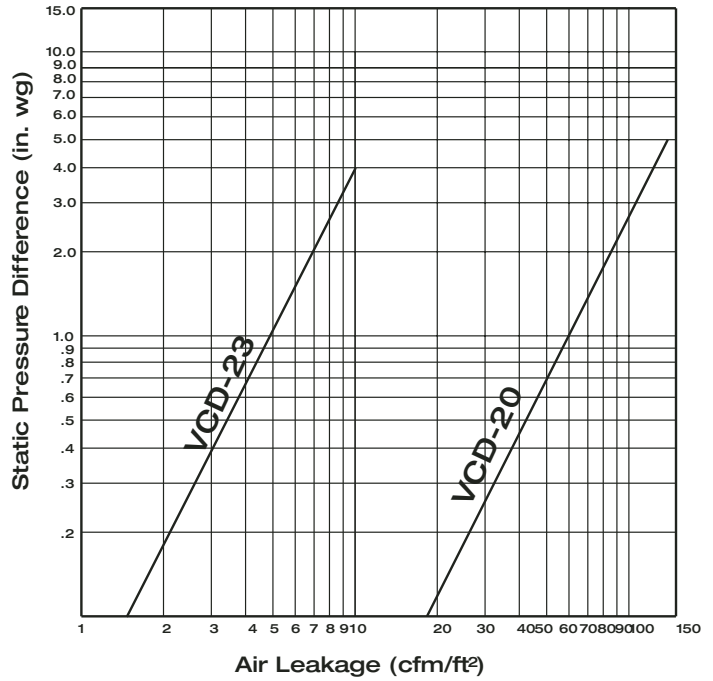
## Velocity Limitations



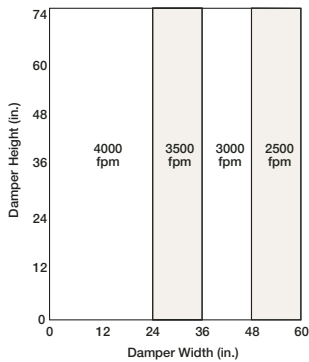
## Pressure Limitations



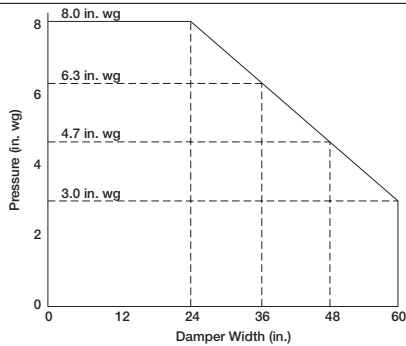
## Damper Pressure Drop



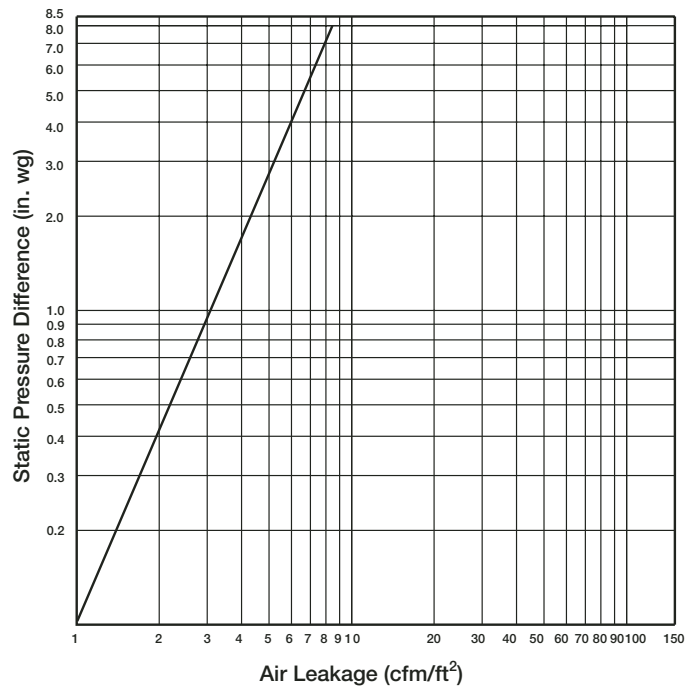
## Velocity Limitations



## Pressure Limitations



## Damper Pressure Drop



# Fan Coils and Indoor Air Handlers



MSCF (Modular Small Cabinet Fan) is designed for schools, medical facilities, office buildings, and many other commercial applications. Modules include: mixing boxes (with or without filters and dampers), plenums (12 or 24 in.), and coils (hot water, chilled water, and direct expansion), filters (2 in. 30% or 4 in. 60% efficiencies). Ultra low profile ranging from 11 to 26 inches. Capacities range from 250 to 5,000 cfm and up to 4 in. wg.



LFC (Low Profile Fan Coil) is a low profile blower coil unit designed as a low cost method of air conditioning/heating buildings or specific spaces. The LFC includes: heating coils (1, 2, or 4 row) and/or cooling coils (4, 6, or 8 row), and an optional (Inlet) vertical pre-filter (2 in. 30% or 4 in. 60% efficiencies). Capacities range from 250 to 5,000 cfm and up to 4 in. wg.



UFT (Underfloor Fan Terminal) is designed for raised floor applications and comes in two standard heights of 10 and 13 inches. They are both available with a single or double power pack. Hot water, electric, or no coiled units are available with a control center as standard. Capacities range from 130 to 1,798 cfm and up to .875 in. wg.

## Warranty

Greenheck warrants this equipment to be free from defects in material and workmanship for a period of one year from the purchase date. Any units or parts which prove defective during the warranty period will be replaced at our option when returned to our factory, transportation prepaid.

Motors are warranted by the motor manufacturer for a period of one year. Should motors furnished by Greenheck prove defective during this period, they should be returned to the nearest authorized motor service station. Greenheck will not be responsible for any removal or installation costs.

Due to continuing research, Greenheck reserves the right to change specifications without notice.



**Number one in air movement and control.**



Centrifugal and Vane Axial Fans



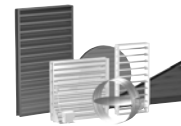
Fans and Ventilators



Energy Recovery Ventilators & Make-Up Air Units



Kitchen Ventilation Systems



Dampers and Louvers

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