



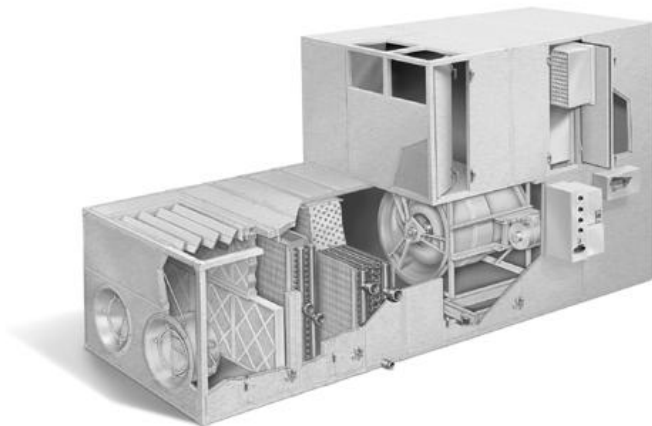
# M-Series Climate Changer™ Air Handler

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## Quick Select for Unit Sizes 3 to 120

### Selection Procedure

- 1 Size the air-handling unit based on airflow through the cooling coil (see Table 2). The unique fin design of Trane coils enables cooling coil selections at velocities in excess of 625 fpm with no moisture carryover. The coil moisture carryover curves from tested data are built into the Trane Official Product Selection System (the TOPSS™ program). Use this system to select coils.
- 2 Choose the coil module (see Table 3). Unit size, coil type, and coil rows determine the minimum coil module size required.
- 3 Select a filter type and check face velocities (see Table 4). The maximum recommended face velocity for pleated media, permanent, bag, and 12-inch cartridge filters is 625 fpm; for throwaway and HEPA filters, it is 500 fpm.
- 4 Design the basic air-handling system. Choose all required sections, including custom modules. Contact your local Trane sales office for more information on custom modules.
- 5 Estimate system static pressure requirements and select a fan (see Figure 5). Refer to M-Series air handler product catalog CLCH-PRC003-EN for pressure drops and catalog CLCH-PRC008-EN for fan curves.
- 6 Total the overall air-handling unit dimensions and weights. Use Table 1 for module dimensions and weights.
- 7 Select a control system. Factory-mounted, -wired, and -tested end devices, starters, VFDs, and direct-digital, interoperable controllers are available to minimize construction cycles and job-site coordination.
- 8 Contact your local Trane sales office to order an air-handling system or to ask questions.





# M-Series Air Handler Quick Select

**Table 1. Module Dimensions (inches) and Weights (pounds)**

- Refer to product catalog CLCH-PRC003-EN for application considerations for M-Series Climate Changer air handlers.
- For each module-to-module connection, add 0.19 inch to the total unit length to account for gasketing.
- These module weights are for double-wall panels.

Nominal airflow <sup>1</sup>	1500	3000	4000	5000	6000	7000	8500	10500	12500	15000	17500	20000	25000	28500	33000	40000	50000	60000	
Airflow at 625 fpm <sup>2</sup>	2169	3475	4338	6075	8331	9025	10938	12500	15000	17500	19963	22569	30206	35938	40625	50419	64238	76388	
Unit size	3	6	8	10	12	14	17	21	25	30	35	40	50	57	66	80	100	120	
Height (inches)	26.25	28.75	34.0	34.0	39.0	40.5	44.0	50.25	56.5	56.5	63.75	63.75	75.0	86.5	92.0	107.0	119.5	119.5	
Width (inches)	31.0	44.0	48.0	60.0	64.0	68.0	74.0	76.0	78.0	91.0	96.0	109.0	120.0	120.0	137.0	137.0	152.0	179.0	
<b>Intake</b>																			
□	Length	15.5	15.50	15.5	15.5	15.5	15.5	15.5	15.5	15.5	16.0	16.0	20.0	20.0	29.5	29.5	29.5	29.5	29.5
	Weight	134	183	221	263	307	332	380	432	485	553	670	747	973	1096	1513	1699	2023	2326
□	Mixing box with filter	36.0 <sup>3</sup>	28.75	34.0	34.0	34.0	34.0	34.0	34.0	40.0	40.0	48.0	48.0	48.0	48.0	49.0	54.0	60.0	60.0
		181	223	277	319	367	390	437	495	577	646	890	982	1158	1290	1589	1798	2133	2387
□	Mixing box without filter	26.25	28.75	34.0	34.0	34.0	34.0	34.0	40.0	40.0	48.0	48.0	48.0	48.0	49.0	54.0	60.0	60.0	60.0
		142	202	253	288	332	341	381	432	512	573	809	891	1051	1143	1410	1575	1847	2056
□	Traq™ mixing box	36.0	28.75	34.0	34.0	34.0	34.0	34.0	50.25	40.0	56.5	48.0	48.0	48.0	48.0	84.0	92.0	96.0	96.0
		159	191	239	275	309	341	376	512	487	676	770	840	978	1056	1743	1936	2161	2328
□	Air Blender® module	26.57	30.07	34.0	34.0	39.0	40.5	34.0	34.0	40.0	40.0	48.0	48.0	48.0	48.0	49.0	54.0	60.0	96.0
		129	174	193	221	297	322	282	309	366	407	507	564	646	700	801	902	1071	1665
□	Filter, angled	26.25	28.75	24.5	24.5	24.5	24.5	24.5	24.5	24.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
		133	175	178	205	223	260	284	295	312	342	409	457	509	599	852	923	1054	1185
□	Filter, short bag or cartridge-18 in	26.25	28.75	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
		128	170	168	193	213	243	268	276	295	324	446	495	571	637	857	927	1042	1175
□	Filter, flat	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.5	11.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
		66	82	94	105	124	134	145	155	164	180	234	255	328	367	562	607	692	779
□	Filter, flat combination	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	16.0	16.0	14.5	14.5	14.5	14.5	14.5	14.5	14.5
		91	116	131	148	178	190	207	219	232	257	287	313	353	397	598	649	745	841
□	Filter, flat, open-return	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
		11	16	19	22	34	39	43	44	45	53	68	78	99	120	146	169	210	247
<b>Filter, HEPA</b>																			
□	Length	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
	Weight	185	209	223	251	277	288	310	337	353	383	475	509	573	605	867	891	965	1059
	Height	32.0	32.0	34.0	34.0	41.0	41.0	44.0	53.0	56.5	56.5	66.5	66.5	78.5	86.5	96.5	108.5	119.5	119.5
	Width	31.0	44.0	56.0	70.0	64.0	70.0	82.0	76.0	82.0	96.0	97.0	109.0	120.0	123.0	137.0	137.0	161.0	187.0
□	Filter, long bag-30 in.	36.0	41.0	44.0	34.0	39.0	40.5	44.0	50.25	56.5	56.5	48.0	48.0	48.0	48.0	49.0	54.0	60.0	60.0
		158	218	257	241	292	334	408	443	516	565	586	642	728	793	1104	1244	1464	1635
□	Blank/inspection, small	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.5	11.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
		65	79	88	99	107	112	121	131	139	150	193	207	265	283	484	495	541	605
□	Blank/access, medium	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	16.0	16.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		80	95	105	119	129	136	147	158	168	182	228	244	n/a	n/a	n/a	n/a	n/a	n/a
□	Blank/access, extended medium	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
		92	109	122	137	150	157	170	182	193	210	262	282	318	339	516	529	575	638
□	Blank/access, medium-large	n/a	n/a	24.5	24.5	24.5	24.5	24.5	24.5	24.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
		n/a	n/a	151	171	186	195	210	225	238	259	357	384	431	460	669	686	746	828
□	Blank/access/turning, large	26.25	28.75	34.0	34.0	34.0	34.0	34.0	40.0	40.0	48.0	48.0	48.0	48.0	49.0	54.0	60.0	60.0	60.0
		115	152	190	221	240	247	267	290	344	376	514	551	619	659	965	1058	1252	1384
□	Blank/access/turning, extra-large	36.0	41.0	44.0	34.0	39.0	40.5	44.0	50.25	56.5	56.5	63.75	63.75	68.5	68.5	84.0	92.0	96.0	96.0
		141	195	231	212	261	282	326	395	463	502	697	744	873	926	1197	1361	1548	1686
<b>Face-and-bypass, external</b>																			
□	Length	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	16.0	16.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
	Weight	117	156	185	221	256	271	315	350	385	439	500	548	674	732	1061	1186	1398	1623
	Height	31.25	33.75	39.0	39.0	44.0	45.5	49.0	55.25	61.5	61.5	68.75	68.75	80.0	91.5	97.0	112.0	124.5	124.5
□	Face-and-bypass, Internal	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	16.0	16.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
		94	127	153	181	213	224	244	293	328	372	453	495	654	734	990	1082	1274	1467
□	Face damper	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	16.0	16.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
		99	129	156	184	216	228	268	301	335	381	427	468	584	642	905	1030	1223	1415
□	Coil, small with 2-row UW	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.5	11.50	14.5	14.5	14.5	14.5	14.5	14.5	14.5
		108	139	159	186	215	232	256	296	329	370	444	483	625	693	899	1008	1169	1333

**Table 1. (continued) Module Dimensions (inches) and Weights (pounds)**

Nominal airflow <sup>1</sup>	1500	3000	4000	5000	6000	7000	8500	10500	12500	15000	17500	20000	25000	28500	33000	40000	50000	60000	
Airflow at 625 fpm <sup>2</sup>	2169	3475	4338	6075	8331	9025	10938	12500	15000	17500	19963	22569	30206	35938	40625	50419	64238	76388	
Unit size	3	6	8	10	12	14	17	21	25	30	35	40	50	57	66	80	100	120	
Height (inches)	26.25	28.75	34.0	34.0	39.0	40.5	44.0	50.25	56.5	56.5	63.75	63.75	75.0	86.5	92.0	107.0	119.5	119.5	
Width (inches)	31.0	44.0	48.0	60.0	64.0	68.0	74.0	76.0	78.0	91.0	96.0	109.0	120.0	120.0	137.0	137.0	152.0	179.0	
Coil, medium with 8-row UW	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	16.0	16.0	n/a	n/a	n/a	n/a	n/a	n/a	
Coil, extended-medium with 8-row UW	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
Coil, Medium-Large with 10-row W	n/a	n/a	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	29.5	29.0	29.5	29.5	29.5	29.5	29.5	29.5	
Coil, Large or Vertical <sup>3</sup> with 10-row W	26.25	28.75	34.0	34.0	34.0	34.0	34.0	34.0	40.0	40.0	48.0	48.0	48.0	48.0	n/a	n/a	n/a	n/a	
Coil, Electric Heat <sup>4</sup>	26.25	28.75	34.0	34.0	34.0	34.0	34.0	34.0	40.0	40.0	48.0	48.0	48.0	48.0	49.0	n/a	n/a	n/a	
Coil, Integral Face-and-Bypass <sup>5</sup>	312	398	500	559	611	677	788	820	1019	1064	1161	1188	1691	1715	1901	2014	2162	2371	
Coil, Multizone/Double-Duct																			
Length	n/a	46.7	46.7	46.7	65.2	65.2	65.2	65.2	71.2	71.2	80.2	80.2	88.2	n/a	n/a	n/a	n/a	n/a	
Weight	n/a	733	818	1031	1303	1384	1511	1719	1897	2139	2718	2993	3818	n/a	n/a	n/a	n/a	n/a	
Height	n/a	45.75	51.0	54.0	59.0	60.5	64.0	73.25	79.5	79.5	91.75	91.75	103.0	n/a	n/a	n/a	n/a	n/a	
Humidifier	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	32.0	32.0	29.0	29.0	29.0	43.5	43.5	43.5	
Moisture Eliminator	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.5	11.5	14.5	14.5	14.5	14.5	14.5	14.5	
Fan <sup>6</sup>	36.0	41.0	44.0	34.0	39.0	40.5	44.0	50.25	56.5	56.5	63.75	63.75	68.5	68.5	84.0	92.0	96.0	96.0	
Diffuser	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	16.0	16.0	20.0	20.0	49.0	54.0	60.0	60.0	
Discharge Plenum, Horizontal	26.25	28.75	34.0	34.0	34.0	34.0	34.0	34.0	40.0	40.0	48.0	48.0	48.0	48.0	49.0	54.0	60.0	60.0	
Discharge Plenum, Vertical																			
Length	36.0	41.0	44.0	34.0	39.0	40.5	44.0	50.25	56.5	56.5	63.75	63.75	68.5	n/a	n/a	n/a	n/a	n/a	
Weight	148	205	249	251	279	296	327	357	428	475	633	689	801	n/a	n/a	n/a	n/a	n/a	
Height	26.25	28.75	34.0	34.0	34.0	34.0	34.0	34.0	40.0	40.0	48.0	48.0	48.0	n/a	n/a	n/a	n/a	n/a	
Silencer, 3 ft.	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	
Silencer, 5 ft.	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	
Energy Wheel																			
Length	29.0	29.0	29.0	45.0	48.0	48.0	50.0	50.0	52.0	57.5	58.0	59.0	67.0	n/a	n/a	n/a	n/a	n/a	
Weight <sup>7</sup>	417	555	617	837	1051	1165	1311	1399	1778	1979	2325	2634	3079	n/a	n/a	n/a	n/a	n/a	
Height	52.75	57.75	68.25	68.25	78.25	81.25	88.25	100.75	113.25	113.25	127.75	127.75	150.25	n/a	n/a	n/a	n/a	n/a	
Width <sup>8</sup>	38.00	48.0	52.0	60.0	68.0	72.0	78.0	80.0	89.0	95.0	101.0	114.0	120.0	n/a	n/a	n/a	n/a	n/a	
Gas Heat <sup>9</sup>	n/a	72.0	78.0	70.0	70.0	70.5	82.0	93.75	83.0	81.0	95.75	95.75	108.5	108.5	98.5	106.5	96.0	96.0	
	n/a	1170	1226	1407	1437	1491	1806	2482	2450	2441	3133	3222	3854	3949	4491	4750	4508	4646	

(1) Nominal airflow is based on 500 fpm through a nominal coil (i.e. 500 x unit size 8 = 4000 cfm).  
(2) Airflow @ 625 fpm through the flat filter (maximum filter velocity)  
(3) Vertical coil modules are not available in size 57 units. Refer to Table 3 for row limitations in vertical coil modules.  
(4) For sizes 3-50 blow-thru applications, electric heat modules require, at a minimum, a large module immediately downstream and a medium module immediately upstream. For size 66 blow-thru applications, electric heat modules require, at a minimum, a medium-large access module downstream and a medium module immediately upstream.  
(5) IFB coil modules require a module immediately downstream: (at a minimum) a large module on size 3, medium module on sizes 6 to 40, or an extended-medium module on sizes 50 to 120.  
(6) Fan module weights include the heaviest fan with the largest ODP motor available.  
(7) The weight of the energy wheel module is with the largest wheel available for each unit size. The weights include all dampers and filter rack, they do not include end devices, control wiring or a starter.  
(8) All energy wheel widths will be the same for 100 percent and mixed air units except the size 25 mixed air energy wheel module is 82 inches wide.  
(9) Lengths and weights of the gas heat modules are with the largest capacity burner. Refer to the M-Series Gas Heat Quick Select (CLCH-SLB004-EN) or the TOPSS selection program for detailed dimensions.



## M-Series Air Handler Quick Select

**Table 2. Size the Air-Handling Unit**

Coil Type	Unit Size	3	6	8	10	12	14
1/2-inch Unit	Area (ft <sup>2</sup> )	3.32	5.86	7.54	9.64	12.30	14.22
	Qty-Size	1-21.25 x 22.50	1-23.75 x 35.50	1-27.50 x 39.50	1-27.50 x 50.50	1-32.50 x 54.50	1-35.00 x 58.50
5/8-inch Unit <sup>1</sup>	Area (ft <sup>2</sup> )	2.98	5.47	7.31	9.38	12.38	13.90
	Qty-Size	1-19.50 x 22.00	1-22.50 x 35.00	1-27.00 x 39.00	1-27.00 x 50.00	1-33.00 x 54.00	1-34.50 x 58.00
5/8-inch Modified	Area (ft <sup>2</sup> )	1.83	2.92	4.88	6.25	9.00	9.67
	Qty-Size	1-12.00 x 22.00	1-12.00 x 35.00	1-18.00 x 39.00	1-18.00 x 50.00	1-24.00 x 54.00	1-24.00 x 58.00
Coil Type	Unit Size	17	21	25	30	35	40
1/2-inch Unit	Area (ft <sup>2</sup> )	16.80	20.78	24.38	29.01	34.14	39.33
	Qty-Size	1-37.50 x 64.50	1-45.00 x 66.50	1-51.25 x 68.50	1-51.25 x 81.50	1-57.50 x 85.50	1-57.50 x 98.50
5/8-inch Unit <sup>1</sup>	Area (ft <sup>2</sup> )	16.67	19.94	23.38	27.70	32.76	37.77
	Qty-Size	1-37.50 x 64.00	1-43.50 x 66.00	1-49.50 x 68.00	1-49.25 x 81.00	1-55.50 x 85.00	1-55.50 x 98.00
5/8-inch Modified	Area (ft <sup>2</sup> )	13.33	30.25	17.00	20.25	21.25	24.50
	Qty-Size	1-30.00 x 64.00	2-33.00 x 66.00	2-8.00 x 68.00	2-18.00 x 81.00	2-18.00 x 85.00	2-18.00 x 98.00
Coil Type	Unit Size	50	57	66	80	100	120
1/2-inch Unit	Area (ft <sup>2</sup> )	49.43	57.03	65.63	78.75	100.36	119.58
	Qty-Size	2-32.5 x 109.5	2-37.50 x 109.50	2-37.50 x 126.00	2-45.00 x 126.00	2-51.25 x 141.00	2-51.25 x 168.00
5/8-inch Unit <sup>1</sup>	Area (ft <sup>2</sup> )	47.69	56.77	65.63	78.75	99.88	119.00
	Qty-Size	1-30.00 x 109.00 1-33.00 x 109.00	2-37.50 x 109.00	2-37.50 x 126.00	2-45.00 x 126.00	2-51.00 x 141.00	2-1.00 x 168.00
5/8-inch Modified	Area (ft <sup>2</sup> )	36.33	43.15	49.88	60.38	76.38	91.00
	Qty-Size	2-24.00 x 109.00	1-24.00 x 109.00 1-33.00 x 109.00	1-24.00 x 126.00 1-33.00 x 126.00	2-18.00 x 126.00 1-33.00 x 126.00	2-24.00 x 141.00 1-30.00 x 141.00	2-24.00 x 168.00 1-30.00 x 168.00

(1) The area given is for the largest 5/8inch coil per unit size. Other 5/8-inch unit coil areas are available; refer to product catalog CLCH-PRC003-EN or the TOPSS program.

**Table 3. Size the Coil Module**

Coil type	Unit size	Rows Available					
		3-6	8-30	35-40	50	57	66-120
1/2-inch	Small	2	2	2	2 and 4	2 and 4	2 and 4
	Medium	2-8	2-8	2-8	n/a	n/a	n/a
	Extended-Medium	2-8	2-8	2-8	2-8	2-8	2-8
	Medium large	n/a	2-8	2-8	2-8	2-8	2-8
	Medium large w/ access	n/a	2-8	2-8	2-8	2-8	2-8
	Large	2-8	2-8	2-8	2-8	2-8	n/a
	Large w/ access	n/a	2-8	2-8	2-8	2-8	n/a
	Large vertical	2-8	2-8	2-8	2-8	n/a	n/a
5/8-inch	Multizone (cold deck)	2-8	2-8	2-8	2-8	n/a	n/a
	Small	1 and 2	1 and 2	1 and 2	1-4	1-4	1-4
	Medium	1-4	1-4	1-4	n/a	n/a	n/a
	Extended-Medium	1-6	1-6	1-6	1-6	1-6	1-6
	Medium large	n/a	1-10	1-10	1-10	1-10	1-10
	Medium large w/ access	n/a	1-4	1-6	1-6	1-6	1-6
	Large	1-10	1-10	1-10	1-10	1-10	n/a
	Large w/ access	n/a	1-8 <sup>1</sup>	1-10	1-10	1-10	n/a
Large vertical	1-6	1-6	1-6	1-6	1-6	n/a	n/a
	Multizone (cold deck)	1-4	1-4	1-4	1-6	n/a	n/a

(1) On unit size 21, there is a 6-row maximum for stacked coils.



## M-Series Air Handler Quick Select

**Table 4. Select the Filter Type**

Filter Type	Unit Size	3	6	8	10	12	14	17	21	25
Flat (2-in., 4-in.) T.A., permanent, pleated media, combination	Area (ft <sup>2</sup> )	3.47	5.56	6.94	9.72	13.33	14.44	17.50	20.00	24.00
	Qty-Size	1-25 × 20	2-20 × 20	2-20 × 25	2-20 × 25 1-16 × 25	6-20 × 16	4-20 × 16 2-25 × 16	1-20 × 16 1-20 × 20 2-25 × 16 2-25 × 20	4-20 × 20 4-16 × 20	6-24 × 24
Angled (2-in. or 4-in.) T.A., permanent, pleated media	Area (ft <sup>2</sup> )	5.56	8.89	11.11	13.89	16.67	26.67	28.89	31.11	38.89
	Qty-Size	2-25 × 16	4-20 × 16	4-20 × 20	4-25 × 20	6-20 × 20	12-20 × 16	8-20 × 16 4-25 × 16	4-20 × 16 8-25 × 16	4-20 × 20 8-25 × 20
Bag/cartridge, 2-in. prefilters	Area (ft <sup>2</sup> )	3.33	5.56	6.67	9.33	10.00	12.89	15.33	20.00	24.00
	Qty-Size	1-24 × 20	2-20 × 20	2-20 × 24	3-12 × 24 1-20 × 24	3-20 × 24	2-20 × 20 1-24 × 20 2-24 × 12	2-24 × 24 2-24 × 12 1-20 × 24	6-24 × 20	6-24 × 20
HEPA	Area (ft <sup>2</sup> )	4.00	6.00	8.00	10.00	12.00	14.00	18.00	22.00	24.00
	Qty-Size	1-24 × 24	1-12 × 24 1-24 × 24	2-24 × 24	1-12 × 24 2-24 × 24	2-24 × 12 2-24 × 24	2-24 × 12 1-12 × 24 2-24 × 24	3-24 × 12 3-24 × 24	2-12 × 24 2-24 × 24 2-30 × 24	6-24 × 24
Filter Type	Unit Size	30	35	40	50	57	66	80	100	120
Flat (2-in., 4-in.) T.A., permanent, pleated media, combination	Area (ft <sup>2</sup> )	28	31.94	36.11	48.33	57.50	65.00	80.67	102.78	122.22
	Qty-Size	6-20 × 24	6-20 × 25	4-20 × 25	3-16 × 20	4-20 × 16	8-20 × 16	6-20 × 20	12-16 × 25	4-16 × 25
		2-24 × 24	4-16 × 25	8-16 × 25	12-25 × 20	4-20 × 20	8-20 × 20	6-20 × 24	20-20 × 25	32-20 × 25
Angled (2-in. or 4-in.) T.A., permanent, pleated media	Area (ft <sup>2</sup> )	47.22	61.33	69.33	80.56	96.67	108.33	132.00	161.11	194.44
	Qty-Size	12-20 × 20 4-25 × 20	4-20 × 24 12-24 × 24	16-20 × 24 4-24 × 24	20-20 × 25 4-16 × 25	30-20 × 20 6-16 × 20	12-25 × 20 24-20 × 20	6-12 × 24 30-24 × 24	40-25 × 20 8-20 × 20	56-25 × 20
Bag/cartridge, 2-in. prefilters	Area (ft <sup>2</sup> )	28.00	30.67	36.89	51.56	54.67	64.00	80.67	106.22	125.78
	Qty-Size	6-24 × 24	6-24 × 24	4-24 × 12	4-24 × 24	8-24 × 12	6-20 × 24	6-20 × 24	20-20 × 20	16-20 × 20
		2-12 × 24	2-20 × 24	8-20 × 20 2-24 × 20	8-24 × 20 2-20 × 20 1-20 × 24	2-20 × 24 8-24 × 24	10-24 × 12 6-24 × 24	6-20 × 20 6-24 × 24 6-24 × 20	12-24 × 12 8-24 × 20	14-24 × 12 16-24 × 20
HEPA	Area (ft <sup>2</sup> )	28.00	34.00	40.00	51.00	54.00	70.00	80.00	102.00	119.00
	Qty-Size	2-12 × 24 6-24 × 24	3-24 × 12 2-12 × 24 6-24 × 24	4-24 × 12 8-24 × 24	9-24 × 24 3-30 × 24	3-12 × 24 12-24 × 24	5-24 × 12 15-24 × 24	20-24 × 24	18-24 × 24 6-24 × 30	21-24 × 24 7-24 × 30



## M-Series Air Handler Quick Select

**Table 5. Select a Fan**

Nominal Airflow <sup>1</sup>	1500	3000	4000	5000	6000	7000	8500	10500	12500	
Airflow @ 625 fpm <sup>2</sup>	2169	3475	4338	6075	8331	9025	10938	12500	15000	
Unit Size	3	6	8	10	12	14	17	21	25	
Fan Identification										
A	Fan size / type	9.5 FC	12.25 FC	13.5 FC	15 FC	16.5 FC	18.25 FC	20 FC	22.38 FC	25 FC
	Max TSP/rpm	2.5/1800	2.5/1403	2.5/1273	2.5/1146	2.5/1042	2.5/942	2.5/859	3-972	3/811
	Motor hp range (ODP)	0.25-2	0.25-5	0.5-5	1-5	1-7.5	1-7.5	1-10	1-10	1-10
	Outlet area (ft <sup>2</sup> )	0.85	1.90	2.31	2.79	3.39	4.14	5.05	5.16	6.82
B	Fan size / type	9.5 FC	10.5 FC	12.25 FC	13.5 FC	15 FC	16.5 FC	18.25 FC	20 FC	22.38 FC
	Max TSP/rpm	5/2800	5/2365	5-2027	5/1839	5/1,655	5/1505	5/1,360	5-1241	5/1273
	Motor hp range (ODP)	1-5	1-5	1-7.5	1-7.5	1-10	1-10	1-10	1-15	1-20
	Outlet area (ft <sup>2</sup> )	0.65	1.41	1.90	2.31	2.79	3.39	4.14	5.05	5.16
D	Fan size / type	9 BC	12 AF	12 AF	15 AF	18 AF	18 AF	20 AF	22 AF	22 AF
	Max TSP/rpm	6/4100	6/3700	6/3700	6/2900	6/2450	6/2450	6/2200	6/1850	6/1850
	Motor hp range (ODP)	1-3	1-7.5	1-7.5	1-10	1-10	1-10	1-15	1-15	1-15
	Outlet area (ft <sup>2</sup> )	0.84	1.45	1.45	2.04	2.86	2.86	4.38	5.50	5.50
E	Fan size / type	9 BC	12 AF	12 AF	15 AF	18 AF	18 AF	20 AF	22 AF	22 AF
	Max TSP / rpm	8/4800	8/3900	8/4200	8/3400	8/2800	8/2800	8/2450	8/2300	8/2300
	Motor hp range (ODP)	1-5	1-7.5	1-10	1-15	1-15	1-15	1-20	1-25	1-25
	Outlet area (ft <sup>2</sup> )	0.84	1.45	1.45	2.04	2.86	2.86	4.38	5.50	5.50
F	Fan size / type	n/a <sup>3</sup>	n/a	n/a	12 AF	15 AF	15 AF	18 AF	20 AF	20 AF
	Max TSP / rpm	n/a	n/a	n/a	6/3700	6/2900	6/2900	6/2400	6/2200	6/2200
	Motor hp range (ODP)	n/a	n/a	n/a	1-7.5	1-10	1-10	1-10	1-15	1-15
	Outlet area (ft <sup>2</sup> )	n/a	n/a	n/a	1.45	2.04	2.04	2.86	4.38	4.38
G	Fan size / type	n/a	n/a	n/a	12 AF	15 AF	15 AF	18 AF	20 AF	20 AF
	Max TSP / rpm	n/a	n/a	n/a	8/4200	8/3400	8/3400	8/2600	8/2450	8/2450
	Motor hp range (ODP)	n/a	n/a	n/a	1-10	1-15	1-15	1-20	1-25	1-25
	Outlet area (ft <sup>2</sup> )	n/a	n/a	n/a	1.45	2.04	2.04	2.86	4.38	4.38
P	Fan size / type	13.22 AF	14.56 AF	16.19 AF	17.81 AF	19.69 AF	21.56 AF	24.00 AF	29.13 AF	32.38 AF
	Max TSP / rpm	6/4150	6/4017	6/3595	6/3525	6/3165	6/2950	6/2425	6/1886	6/1611
	Motor hp range (ODP)	1-3	1-7.5	1-7.5	1-10	1-15	1-15	1-15	2-15	3-20
	Outlet area (ft <sup>2</sup> )	n/a	n/a	n/a	n/a	19 Q	19 Q	21.5 Q	24.5 Q	27 Q
Q	Fan size / type	n/a	n/a	n/a	n/a	19 Q	19 Q	21.5 Q	24.5 Q	27 Q
	Max TSP / rpm	n/a	n/a	n/a	n/a	6/3145	6/3145	6/2780	6/2380	6/2160
	Motor hp range (ODP)	n/a	n/a	n/a	n/a	0.5-7.5	0.5-7.5	0.5-10	0.5-15	0.5-15
	Outlet area (ft <sup>2</sup> )	n/a	n/a	n/a	n/a	2.30	2.30	2.88	3.73	4.54
R	Fan size / type	n/a	n/a	n/a	n/a	21.5 Q	21.5 Q	24.5 Q	27 Q	30 Q
	Max TSP / rpm	n/a	n/a	n/a	n/a	6/2780	6/2780	6/2380	6/2160	6/1940
	Motor hp range (ODP)	n/a	n/a	n/a	n/a	0.5-10	0.5-10	0.5-15	0.5-15	0.5-20
	Outlet area (ft <sup>2</sup> )	n/a	n/a	n/a	n/a	2.88	2.88	3.73	4.54	5.66
V	Fan size / type	n/a	16.5 Q	16.5 Q	16.5 Q	19 Q	19 Q	21.5 Q	24.5 Q	27 Q
	Max TSP / rpm	n/a	6/3460	6/3460	6/3460	6/3145	6/3145	6/2780	6/2380	6/2160
	Motor hp range (ODP)	n/a	0.5-5	0.5-5	0.5-5	0.5-7.5	0.5-7.5	0.5-10	0.5-15	0.5-15
	Outlet area (ft <sup>2</sup> )	n/a	1.40	1.40	1.40	2.30	2.30	2.88	3.73	4.54
W	Fan size / type	n/a	19 Q	19 Q	19 Q	21.5 Q	21.5 Q	24.5 Q	27 Q	30 Q
	Max TSP / rpm	n/a	6/3145	6/3145	6/3145	6/2780	6/2780	6/2380	6/2160	6/1940
	Motor hp range (ODP)	n/a	0.5-7.5	0.5-7.5	0.5-7.5	0.5-10	0.5-10	0.5-15	0.5-15	0.5-20
	Outlet area (ft <sup>2</sup> )	n/a	2.30	2.30	2.30	2.88	2.88	3.73	4.54	5.66

(1) Nominal airflow is based on 500 fpm through a nominal coil (i.e. 500 x unit size 8 = 4000 cfm).

(2) Airflow @ 625 fpm through the flat filter (maximum filter velocity)

(3) "n/a" selections are not available as standard, however, contact your local Trane sales representative for possible specials.



## M-Series Air Handler Quick Select

**Table 5. (continued) Select a Fan**

Nominal Airflow <sup>1</sup>	15000	17500	20000	25000	28500	33000	40000	50000	60000
Airflow @ 625 fpm <sup>2</sup>	17500	19963	22569	30206	35938	40625	50419	64238	76388
Fan ID/Unit Size	30	35	40	50	57	66	80	100	120
A Fan size/type	25 FC	27.63 FC	30.25 FC	33 FC	33 FC	33 FC	36 FC	40 FC	40 FC
Max TSP/rpm	3/811	3/698	3-664	3/580	3/580	6/760	3/600	3/550	3/550
Motor hp range (ODP)	1-20	5-25	5-25	5-30	5-30	10-60	15-40	15-40	15-40
Outlet area (ft <sup>2</sup> )	6.73	8.08	9.79	11.69	11.69	11.69	13.62	17.14	17.14
B Fan size/type	22.38 FC	25 FC	27.63 FC	30.25 FC	30.25 FC	36 FC	36 FC	40 FC	40 FC
Max TSP/rpm	5/1273	5/1062	5/905	5/870	5/870	5/665	5/665	5/600	5/600
Motor hp range (ODP)	1-25	5-30	5-30	5-40	5-40	15-75	20-75	25-75	25-75
Outlet area (ft <sup>2</sup> )	5.16	6.73	8.08	9.79	9.79	13.62	13.62	17.14	17.14
D Fan size / type	25 AF	25 AF	28 AF	32 AF	32 AF	36 AF	40 AF	44 AF	49 AF
Max TSP / rpm	6/1650	6/1650	6/1500	6/1300	6/1300	6/1250	6/1150	6/850	6/800
Motor hp range (ODP)	2-20	7.5-20	7.5-20	7.5-30	7.5-30	10-30	15-60	15-40	30-75
Outlet area (ft <sup>2</sup> )	6.84	6.84	8.61	10.86	10.86	13.65	17.27	17.12	21.40
E Fan size / type	25 AF	25 AF	28 AF	32 AF	32 AF	36 AF	40 AF	44 AF	49 AF
Max TSP / rpm	8/2100	8/2200	8/2050	8/1700	8/1700	8/1550	8/1350	8/1150	8/1025
Motor hp range (ODP)	2-40	7.5-40	7.5-50	7.5-60	7.5-60	15-75	15-75	15-100	30-125
Outlet area (ft <sup>2</sup> )	6.84	6.84	8.61	10.86	10.86	13.65	17.27	17.12	21.40
F Fan size/type	22 AF	22 AF	25 AF	28 AF	28 AF	32 AF	36 AF	40 AF	44 AF
Max TSP/rpm	6/1,850	6/1900	6/1650	6/1500	6/1500	6/1300	6/1,100	6/1,150	6/850
Motor hp range (ODP)	2-15	7.5-15	7.5-20	7.5-25	7.5-25	10-30	15-30	15-60	30-40
Outlet area (ft <sup>2</sup> )	5.43	5.43	6.48	8.61	8.61	10.86	13.59	17.27	17.13
G Fan size/type	22 AF	22 AF	25 AF	28 AF	28 AF	32 AF	36 AF	40 AF	44 AF
Max TSP/rpm	8/2300	8/2500	8/2200	8/2050	8/2050	8/1700	8/1450	8/1350	8/1150
Motor hp range (ODP)	2-30	7.5-40	7.5-50	7.5-60	7.5-60	10-60	15-75	15-100	30-125
Outlet area (ft <sup>2</sup> )	5.43	5.43	6.48	8.61	8.61	10.86	13.59	17.27	17.13
P Fan size/type	35.56 AF	35.56 AF	39.38 AF	43.44 AF	43.44 AF	52.88 AF	58.5 AF	64.75 AF	64.75 AF
Max TSP/rpm	6/1643	6/1643	6/1412	6/1334	6/1334	6/885	6/792	6/791	6/791
Motor hp range (ODP)	3-25	5-30	5-30	5-40	5-40	7.5-50	7.5-60	10-75	10-75
Q Fan size/type	30 Q	33 Q	33 Q	36.5 Q	40.25 Q	40.25 Q	44.5 Q	n/a	n/a
Max TSP/rpm	6/1,940	6/1822	6/1822	6/1647	6/1492	6/1492	6/1352	n/a	n/a
Motor hp range (ODP)	0.5-20	1-25	1-25	1-30	1.5-40	1.5-40	3-40	n/a	n/a
Outlet area (ft <sup>2</sup> )	5.66	6.84	6.84	8.36	10.16	10.16	12.40	n/a	n/a
R Fan size/type	33 Q	36.5 Q	36.5 Q	40.25 Q	44.5 Q	44.5 Q	n/a	n/a	n/a
Max TSP/rpm	6/1,822	6/1647	6/1647	6/1492	6/1352	6/1352	n/a	n/a	n/a
Motor hp range (ODP)	1-25	1-30	1-30	1.5-40	3-40	3-40	n/a	n/a	n/a
Outlet area (ft <sup>2</sup> )	6.84	8.36	8.36	10.16	12.44	12.40	n/a	n/a	n/a
V Fan size / type	30 Q	33 Q	33 Q	36.5 Q	40.25 Q	40.25 Q	44.5 Q	n/a	n/a
Max TSP / rpm	6/1940	6/1822	6/1647	6/1647	6/1492	6/1492	6/1352	n/a	n/a
Motor hp range (ODP)	0.5-20	1-25	1-25	1-30	1.5-40	1.5-40	3-40	n/a	n/a
Outlet area (ft <sup>2</sup> )	5.66	6.84	6.84	8.36	10.16	10.16	12.40	n/a	n/a
W Fan size / type	33 Q	36.5 Q	36.5 Q	40.25 Q	44.5 Q	44.5 Q	n/a	n/a	n/a
Max TSP / rpm	6/1822	6/1647	6/1647	6/1492	6/1352	6/1352	n/a	n/a	n/a
Motor hp range (ODP)	1-25	1-30	1-30	1.5-40	3-40	3-40	n/a	n/a	n/a
Outlet area (ft <sup>2</sup> )	6.84	8.36	8.36	10.16	12.44	12.40	n/a	n/a	n/a

(1) Nominal airflow is based on 500 fpm through a nominal coil (i.e. 500 x unit size 8 = 4000 cfm).

(2) Airflow @ 625 fpm through the flat filter (maximum filter velocity)

(3) "n/a" selections are not available as standard, however, contact your local Trane sales representative for possible specials.



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