



General Data

Table GD-2. BCHC/BCVC Fan, Filter, & Mixing Box General Data

Unit Size	12	18	24	36	54	72	90
nominal cfm	400	600	800	1200	1800	2400	3000
airflow							
minimum cfm	250	375	500	750	1125	1500	1875
maximum cfm	500	675	1000	1600	2400	3000	4000
Fan Data							
fan wheel dia., in.	9.5 x 4.5	9.5 x 4.5	9.5 x 4.5	9.5 x 4.5	9.5 x 4.5	9.5 x 4.5	9.5 x 4.5
max rpm	2300	2300	1800	1800	1500	1500	1500
motor hp	0.33-1.0	0.33-1.0	0.33-1.0	0.33-1.5	0.33-2.0	0.33-3.0	0.33-3.0
Unit Flat Filter							
qty. - size, in.	1 - 12x 24	1 - 12x 24	1 - 16x 25	2 - 16x 20	1 - 20x 20 1 - 20x 25	3 - 16x 25	2 - 20x 25 1 - 16x 25
area, sq. ft.	2.000	2.000	2.778	4.444	5.556	6.250	8.333
velocity, ft./min.	200	300	288	270	324	384	360
Angle Filter							
qty. - size, in.	2 - 12x24	2 - 12x24	2 - 12x24	2 - 20x20	4 - 16x20	4 - 16x20	4 - 20x20
area, sq. ft.	4.000	4.000	4.000	5.556	8.889	8.889	11.111
velocity, ft./min.	100	150	200	216	203	270	270
Bottom/Top Access Filter Box							
qty. - size, in.	1 - 12x20	1 - 12x24	1 - 16x25	1 - 16x20 1 - 16x16	1 - 16x20 1 - 20x20	1 - 20x25 1 - 20x20	2 - 16x25 1 - 14x25
area, sq. ft.	1.7	2.0	2.8	4.0	5.0	6.3	8.0
velocity, ft./min.	240	300	288	300	360	384	375
Mixing Box							
damper opening width, in.	15.5	19.5	19.5	31.5	31.5	31.5	31.5
damper opening height, in.	7	7	7	7	12.75	12.75	12.75
area, sq. ft.	0.753	0.948	0.948	1.531	2.789	2.789	2.789
velocity, ft./min.	531	633	844	784	645	861	1076

Note: Minimum airflow limits apply to units with hot water or electric heat only. There is no minimum airflow limit on cooling on units. Maximum airflow limits are to help prevent moisture carryover.

**Table GD-3. BCHC/BCVC Piping Package
Waterflow Limits**

Piping Size	gpm
1/2"	8.6
3/4"	19.3
1"	34.3
1 1/4"	53.5

Note: Trane recommends these maximum gpm's to help prevent erosion and/or noise problems. However lower gpm's may be necessary, depending on the system design, to avoid exceeding close-off pressure limit of the control valve.