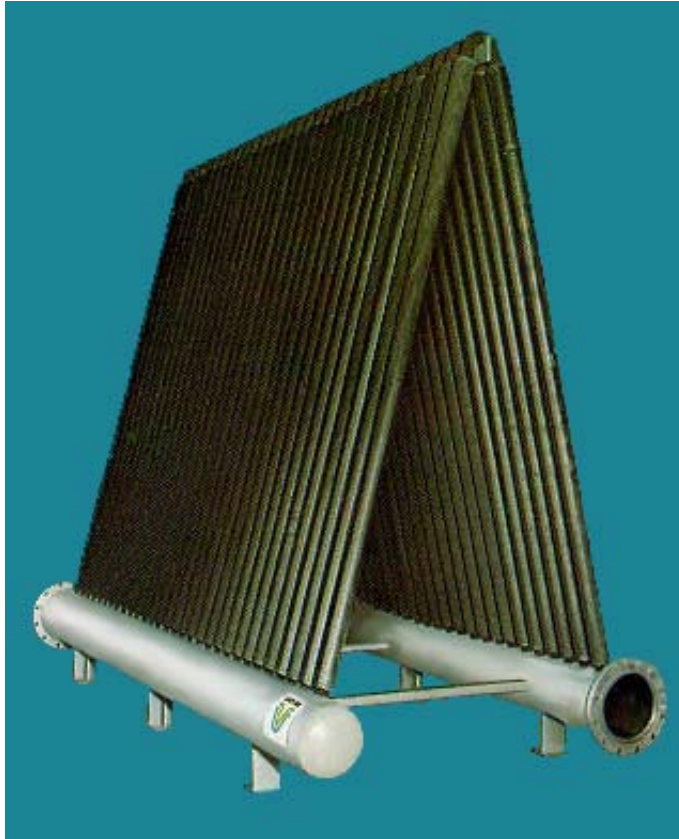


**VAN AIR SYSTEMS**



## Climate-Cool® Aftercoolers



**Operation:** Hot air from the compressor enters the separator / manifold and is divided into smaller streams as it flows through A-shaped cooling arms. Heat is transferred to the tubes and fins and is carried away by moving atmospheric air.

Water condensed during the cooling process falls to the bottom of the separator/ manifold on each side of the unit. These large capacity chambers provide an ample claim area and result in minimal pressure drop. The water may be discharged manually or automatically.

**Design and Construction:** The cooling arms are large diameter steel tubes fitted with evenly spaced steel fins over the entire length. The unit is fabricated in accordance with the ASME Code, Section VIII. Heavy duty legs are provided for mounting. Maximum working pressure is 150 psig and pressure differential is less than 0.5% of operating pressure.

**Energy-Free:** Van Air Climate-Cool® aftercoolers drop high compressed air temperatures to safe operating levels without using water or electricity. Heat is dissipated through finned-tube cooling arms and carried away by atmospheric air flowing over the fins. The Climate-Cool provides a very economical method of cooling large volumes of compressed air. Operation costs nothing since free atmospheric air is used as the coolant. Low pressure drop saves compressor energy.

**For All Seasons:** In summer or in winter, the Climate-Cool will supply a dependable approach to the ambient temperature. (Example: With a 10°F approach in weather of 80°F, outlet compressed air will be 90°F.)

**Durable Construction:** Ideal for dirty or dusty ambients that will plug forced air coolers. All steel construction is superior to copper and aluminum in corrosive environments.

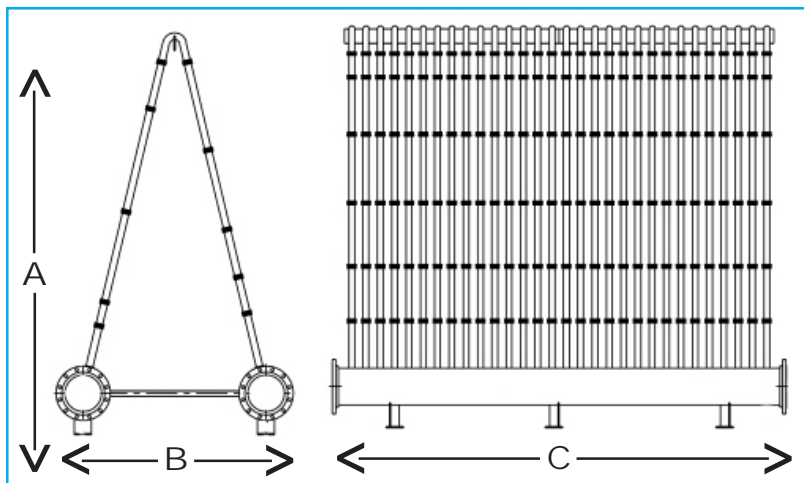


**Capacities:** Six standard modules are rated for capacities to 6450 SCFM. For greater volume, modules with identical connections may be combined for the required flow. Two factors which affect capacities are inlet and outlet compressed air temperature and wind velocity. As wind speed increases, the capacity also increases. See capacity chart on reverse side.

## Rated Capacities (SCFM)

Locate column for average wind velocity at proposed installation site and section for maximum inlet air temperature to aftercooler. In that block, read down the column for the desired approach to the flow rate which is the closest to, but does not exceed, the anticipated flow. Read directly across to the model number.

Air In Temp	Model Number	0 MPH WIND Approach				5 MPH WIND Approach				10 MPH WIND Approach			
		5°F	10°F	15°F	20°F	5°F	10°F	15°F	20°F	5°F	10°F	15°F	20°F
150°F	CA-5	70	85	100	120	220	270	360	445	270	375	495	645
	CA-10	135	170	205	245	435	540	720	890	540	750	990	1290
	CA-20	270	340	410	490	870	1080	1440	1780	1080	1500	1980	2580
	CA-30	410	510	620	730	1300	1620	2160	2670	1620	2250	2970	3870
	CA-40	610	765	930	1100	1955	2430	3240	4005	2430	3375	4455	5805
	CA-50	680	850	1030	1220	2170	2700	3600	4450	2700	3750	4950	6450
200°F	CA-5	65	80	100	120	200	260	330	400	265	365	460	560
	CA-10	130	165	205	240	405	520	655	800	530	730	920	1120
	CA-20	265	330	410	475	810	1040	1310	1600	1060	1455	1840	2240
	CA-30	395	500	610	715	1220	1560	1970	2400	1590	2185	2760	3360
	CA-40	595	750	920	1070	1830	2340	2950	3600	2385	3275	4140	5040
	CA-50	660	830	1020	1190	2030	2600	3280	4000	2650	3640	4600	5600
250°F	CA-5	65	80	100	120	190	255	300	360	260	350	430	510
	CA-10	125	165	200	235	380	510	600	720	520	700	860	1020
	CA-20	250	325	400	470	760	1020	1200	1440	1040	1400	1720	2040
	CA-30	380	490	600	700	1140	1530	1800	2160	1520	2100	2580	3060
	CA-40	570	735	895	1055	1710	2295	2700	3240	2340	3150	3870	4590
	CA-50	630	815	995	1170	1900	2550	3000	3600	2600	3500	4300	5100
300°F	CA-5	60	80	100	115	185	240	290	340	250	340	410	485
	CA-10	125	160	195	230	370	480	580	680	500	680	820	970
	CA-20	250	320	390	460	740	960	1160	1360	1000	1360	1640	1940
	CA-30	370	480	580	690	1110	1440	1740	2040	1500	2040	2460	2910
	CA-40	560	720	875	1035	1665	2160	2610	3060	2250	3060	3690	4365
	CA-50	620	800	970	1150	1850	2400	2900	3400	2500	3400	4100	4850
350°F	CA-5	60	80	95	110	160	200	240	280	240	325	390	450
	CA-10	120	155	190	220	320	400	480	560	480	650	780	900
	CA-20	240	310	375	440	640	800	960	1120	960	1300	1560	1800
	CA-30	360	460	565	660	960	1200	1440	1680	1440	1950	2340	2700
	CA-40	540	695	845	990	1440	1800	2160	2340	2160	2925	3510	4050
	CA-50	600	770	940	1100	1600	2000	2400	2800	2400	3250	3900	4500



### Dimensions and Weights

Model Number	Height A	Width B	Depth C	*In/Out	Weight (lbs)
CA-5	11'- 5"	6'- 4 1/2"	25"	8"	800
CA-10	11'- 5"	6'- 4 1/2"	40"	8"	1320
CA-20	11'- 5"	6'- 4 1/2"	70"	8"	2500
CA-30	11'- 9"	8' - 2 5/8"	8' - 2 5/8"	12"	3900
CA-40	11'- 9"	11'- 11 5/8"	11'-11 5/8"	12"	5250
CA-50	11'- 9"	13' - 2 5/8"	13'- 2 5/8"	12"	5600

\* In/out connections are ANSI CL.150 R.F. flanges



2950 Mechanic Street  
 Lake City, PA 16423 USA  
 Phone: (800) 840-9906  
 Corporate Fax: (814) 774-0778  
 Order Entry Fax: (814) 774-3482  
[info@vanairsystems.com](mailto:info@vanairsystems.com)