

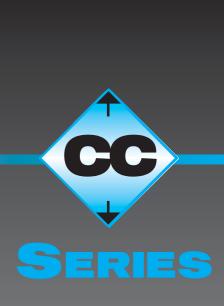
Compressed Air Aftercoolers

- Advanced Technology Design Provides Compact Cooling
- Electric, or Air Motors Available from Stock
- Canadian Registry Numbers Available

Moisture Separators

- > 99% Efficient Over a Wide Range of Air Flow
- **Low Pressure Drop**
- Light Weight All Aluminum Construction









BULLETIN CCB-3

Performance

AFTERCOOLERS

The CC Series is a complete aftercooler package designed to work on most models of rotary and piston air compressors. To select the appropriate model, simply determine compressor horsepower, and select the model from the chart.

Rotary Compresser

Internal Airflow Maximun CFM	Recommended CC Series Model Number
113	CC100
245	CC200
539	CC450
78 5	CC600
1,569	CC1000
2,300	CC1600
3,016	CC2000
4,316	CC2500
4,800	CC3500
	Maximun CFM 113 245 539 785 1,569 2,300 3,016 4,316

Piston Compressor

Air Compressor Horsepower	Internal Airflow Maximum CFM	Recommended CC Series Model Number
20 HP	83	CC100
25-30 HP	181	CC200
40-70 HP	432	CC450
75-100 HP	638	CC600
125-200 HP	1,256	CC1000
225-300 HP	2,133	CC1600
350-400 HP	2,400	CC2000
500-600 HP	3,458	CC2500
700-850 HP	4,800	CC3500

Sizing Notes, Recommendations Are Based On The Following:

Heat Removal: Aftercooler=Compressor horsepower x 1.15 (motor service factor) x .17 (this assumes 17% of input horsepower is rejected to heat)

15°F Approach Temperature: Compressor air outlet temperature - ambient air temperature

Temperatures: Ambient Air Temperature + 15° F = Compressed Air Outlet Temperature

Flows: Compressor Horsepower x 4.5 = SCFM Air Flow

All flow rates are based on less than a 4 PSI pressure drop @ 100 PSI operating & 100° F ambient and 50% relative humidity

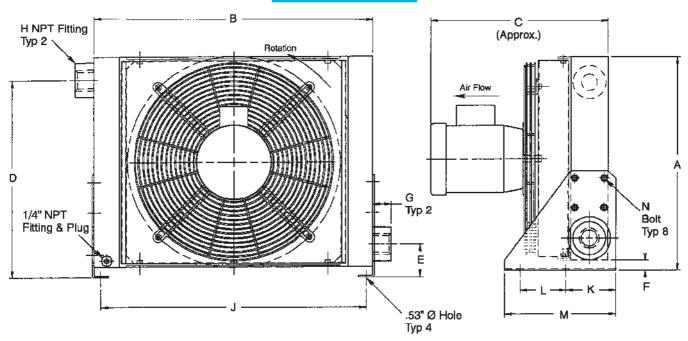
SEPARATORS

<u>Aftercooler</u>	<u>Separator</u>	<u>Separator Maximum Capacity</u>
CC100	MS300E	375 CFM
CC200	MS300G	375 CFM
CC450	MS750H	925 CFM
CC600	MS750H	925 CFM
CC1000	MS1700I	2100 CFM
CC1600	MS1700J	2100 CFM
CC2000	CONSULT FACTORY	
CC2500	CONSULT FACTORY	
CC3500	CONSULT FACTORY	

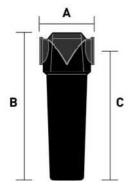
Pressure drop is 1.0 PSI at the above flow rates. Reference Bulletin #MSB-2 For additional details.

imensions

AFTERCOOLERS



MODEL SIZE	A	В	C Approx.	D	E	F	G	H (NPT)	J	K	L	M	N		Weights Shipping
CC100	12.64	15.94	14.72	10.86	2.52	0.75	1.18	1.00	14.65	3.94	3.50	8.19	M8x10 Bolt	30	40
CC200	16.30	19.88	15.59	14.53	2.52	0.75	1.77	1.50	18.66	3.94	3.50	8.19	M8x10 Bolt	50	60
CC450	21.00	26.38	17.75	18.81	3.15	1.00	1.77	2.00	25.19	4.92	4.53	10.98	M10x20 Bolt	95	137
CC600	23.19	30.31	18.74	21.02	3.15	1.00	1.77	2.00	29.13	4.92	4.53	10.98	M10x20 Bolt	125	163
CC1000	27.72	37.00	22.60	25.23	4.33	1.85	1.77	2.50	37.80	5.91	7.87	16.00	M12x20 Bolt	195	240
CC1600	35.90	40.94	24.76	30.83	4.33	1.85	1.77	3.00	37.80	5.91	7.87	16.00	M12x20 Bolt	296	350
CC2000	37.44	42.91	29.84	30.55	10.91	2.08	1.77	4.00	43.62	5.39	7.87	15.47	M12x20 Bolt	320	380
CC2500	44.25	48.82	30.28	34.25	11.57	1.57	1.77	4.00	49.29	5.39	7.87	15.47	M12x20 Bolt	440	505
CC3500	57.87	52.76	33.82	43.98	17.56	3.35	2	4.00*	50.55	7.80	10.00	20.00	¾x1½ Bolt	550	645



MODEL	PIPE Size	A	B	C	WEIGHTS (LUS)
MS 85C	⅓" NPT	3.8	9.3	7.9	3
MS 900D	¾" NPT				
MS 300E	1" NPT	5.1	10.8	9.2	7
WS 300E	1½" NPT				
MS 750H	2" NPT	6.7	17	15	15
MS 17001	2½" NPT	0.1	19.9	17.5	0.5
MS 1700J	3" NPT	8.1	19.9	6.11	25

- Dimensions are in inches.
 We reserve the right to make reasonable design changes without notice.

^{*} SAE 4-BOLT FLANGES MAY BE CONVERTED TO NPT BY ADDING "-- AD" TO THE END OF THE MODEL CODE
* Dimensions in inches. *Weights in pounds. * Air connections my be reversed. * We reserve the right to make reasonable changes without notice.

Motor Specifications

ELECTRIC MOTOR DATA

Madal	НР	Motor		INGLE PHASE	Full Load	THRE	E PHASE	ASE	
Model Size	RPM	Frame	Voltage	Vo l tage Hz		Voltage	Hz	Full Load Amps 230 V.	
C C100	1/3 3450	IEC 63	115/230	40	2.6	208-230/460 190/380	60 50	1.1	
CC200	1/2 3450	IEC 71	113/230	60	3.5	208-230/460 190/380	60 50	1.6	
C C450	1/2 1725	NEMA 56C	115-230/460	60	4.0	208-230/460	60*	2.0	
C C600	1 1725	NEMA 56C	115-230/460	60	6.4	208-230/460	60*	3.8	
CC1000	2 1725	NEMA 56C	115/230	60	9.2	208-230/460	60*	6.2	
CC1600	5 1 72 5	NEMA 184TC	230 60 23		208-230/460	60*	13.2		
CC2000	7.5 17 2 5	NEMA 213TC				208-230/460	60*	19.6	
CC2500	7.5 1725	NEMA 213TC	CONSULT FACTO RY			208-230/460	60*	19.6	
CC3500	10 1725	NEMA 213TC				208-230/460	60*	26.0	

AIR MOTOR DATA

Model Number	Air Pressure To Motor (PSI)	Motor Air Consumption (CFM)	Air Motor Connection Size	FAN RPM
CC100	30	10	1/4" NPT	3450
CC200	60	17	1/4" NPT	3450
CC450	40	25	1/4" NPT	1725
CC600	40	25	1/4" NPT	1725
CC1000	50	70	1/2" NPT	1725
CC1600	60	150	1 1/4" NPT	1725
CC2000	80	200	1 1/4" NPT	1725
CC2500	80	200	1 1/4" NPT	17 2 5
CC3500	100	240	1 1/4" NPT	1725

^{*}Air pressure to motor <u>Must</u> be regulated and lubricated.
*<u>Do Not Exceed</u> fan RPM listed above.
*Mufflers are included with all motors.

^{*}Electric motors are TEFC and are not thermally protected.

*Actual rating may vary with motor brand. Check motor nameplate for actual rating.

*Motor RPM is reduced by 1/6 for 50 Hz service.

^{* - 3} Phase motors available in 50 Hz.

Features



Fan BladePolypropylene Blades

Mounting BracketsPowder Painted Steel

- Advanced Technology Designs
- ► Up to 60% smaller than Conventional Fin and Tube Designs
- Rugged Bar & Plate Design
- Reduced Air Side Fouling
- Competitive Prices
- ► Shipments Available From Stock

Specifications

MOISTURE SEPARATOR AFTER COOLER RATINGS: RATINGS: Maximum Working250 PSI Maximum Working Pressure250 PSI Maximum Working Temperature......250°F Maximum Working Temperature......150°F Minimum Recommended Temperature......35°F **MATERIALS:** CoolerAlumium **Materials:** ShroudPowder Painted Steel Moisture SeparatorAluminum Housing with Stainless Fan GuardZinc Plated Steel Steel or Plastic Internals

Ordering Information

Áluminum Hub

			AFTERCOOLER	l	
SERIES CC=Series		MODEL SIZE SELECTED		MOTOR DATA 0=No Motor 1= Single Phase 2=Air Motor 3=Three Phase 575=575 Volt	CUSTOM FEATURE R=Reverse Air Flow AD=SAE to NPT Adapters Installed H=Heresite Coating/Core Assembly CRN Canadian Registry, 250 PSI
		MOI	STURE SEPARA	ATOR	
] — [
	SERIES MS=Series		MODEL SIZE SELECTED	Blank=	DRAIN OPTION Float Type Drain Included)=No Drain Included



AKG has been manufacturing high quality coolers and cooling systems since 1919. We have grown to include 10 facilities with over 1400 employees to serve you.

Your Business Partner



AKG Worldwide

AKG is a complete single source supply for all of your cooling requirements. Choose from both standard and custom engineered products depending on your specific needs.

Partnership

AKG believes in solid long-term business relationships built on partnerships with its customers.

Customer

AKG places heavy emphasis on development of leading edge technologies, products and finding creative solutions to our customers individual requirements.

AKG Thermal Systems, Inc.

Mebane Industrial Park 701 Mattress Factory Road P.O. box 189 Mebane, North Carolina 27302-0189

Tel.: (919) 563-4871 Fax: (919) 563-4917 Telephone: 919-563-4871 Fax: 919-563-4917 Website: akgts.com E-mail: tom@akgts.com