



# Cool-Line CR



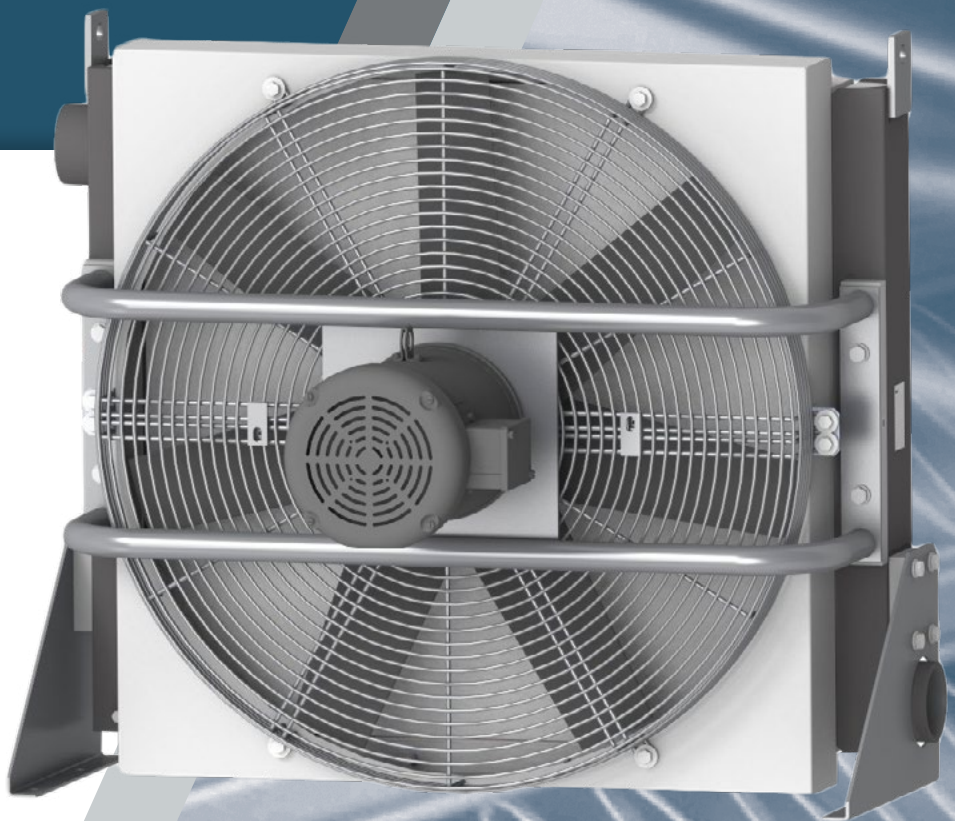
## CR SERIES FEATURES

- Bar and Plate Aluminum Design
- High Efficiency & Low Fouling
- Three-Phase, Single Phase, Class 1, Division 2, 575-Volt Three Phase & Three-Phase Explosion Proof & Pneumatic Air Motor Options
- Assemblies From Stock

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The **CR Series** is a complete aftercooler package specifically designed for cooling compressed air for most rotary compressors. The rugged bar and plate aluminum design features an optimized design construction for high efficiency heat transfer and minimal pressure drop.

## Capacity Selection Chart Maximum SCFM @ 5°F, 10°F and 15°F Approach

Model Number	Inlet Temperature	150°F			200°F			250°F		
		Approach Temperature	5°F	10°F	15°F	5°F	10°F	15°F	5°F	10°F
CRL50	SCFM	36	75	121	23	37	54	18	28	38
CR75	SCFM	50	110	190	30	50	75	21	35	47
CRL150	SCFM	108	234	310	73	110	151	57	88	111
CR200	SCFM	135	255	400	85	135	190	70	105	135
CRL425	SCFM	323	542	795	227	325	426	187	260	324
CR550	SCFM	415	715	1,065	290	415	560	235	335	415
CRL600	SCFM	500	805	1,165	344	490	637	287	398	489
CR800	SCFM	600	1,015	1,500	425	605	800	350	495	605
CRL1075	SCFM	850	1,346	1,887	617	850	1,075	508	694	839
CR1400	SCFM	1,100	1,800	2,550	800	1,130	1,425	670	950	1,130
CRL1800	SCFM	1,454	2,300	3,200	1,438	1,438	1,810	870	1,180	1,426
CR2350	SCFM	1,850	3,000	4,250	1,325	1,875	2,375	1,100	1,525	1,850

All flow rates based on less than 4-PSI pressure drop @ 120-PSI operating and 100°F ambient with 50% relative humidity.

Materials	
Cooler	Aluminum
Shroud	CRL50 – CR800 Composite / CRL1075 – CR2350 Steel
Fan Guard	Zinc Plated Steel
Fan Blade	Polypropylene Blades, Aluminum Hub

Specifications	
Maximum Working Pressure	205 psi
Maximum Working Temperature	250 °F

## Water Separators

Separator	Separator Maximum Capacity (SCFM)	Inlet & Outlet	Approx. Weight (Lbs.)
WS85S	70	½" NPT	3.7
WS125	125	¾" NPT	4.4
WS175	175	1.0 NPT	4.4
WS300G	325	1 ½" NPT	6.6
WS750H	700	2.0" NPT	12.1
WS1700J	850	2-1/2" NPT	23.1
WS1700K	1,500	3.0" NPT	27.6



- Aftercoolers and water separators work hand-in-hand to cool and remove damaging water from compressed air systems.
- AKG Thermal System Water Separators will maintain 98% efficiency all the way down to 50% of the rated flow capacity.

## THREE PHASE ELECTRIC MOTOR DATA

Model Number	Approx. CFM	Approx. Sound dB(A) @ 1-Meter	HP	Voltage	Full Load Amps 230V	RPM	Frame	Approx. Shipping Weight (lbs.)
CRL50	725	68	1/3	230/460	1.3	1800	56C	46
CR75	1,380	83	1/2	230/460	2.0	3600	56C	
CRL150	1,770	66	1/2	230/460	2.4	1200	56C	67
CR200	2,520	75	1/2	230/460	2.0	1800	56C	
CRL425	2,820	70	1/2	230/460	2.4	1200	56C	137
CR550	4,130	79	1.0	230/460	1.6	1800	56C	
CRL600	4,270	75	3/4	230/460	1.5	1200	56C	205
CR800	6,210	84	2.0	230/460	2.9	1800	56C	
CRL1075	5,490	81	1.0	230/460	3.6	1200	56C	277
CR1400	8,020	90	3.0	230/460	7.8	1800	182C	
CRL1800	8,400	89	1-1/2	230/460	5.0	1200	182C	414
CR2350	12,300	98	5.0	230/460	6.3	1800	182C	

## SINGLE PHASE ELECTRIC MOTOR DATA

Model Number	Approx. CFM	Approx. Sound dB(A) @ 1-Meter	HP	Voltage	Full Load Amps 230V	RPM	Frame	Approx. Shipping Weight (lbs.)
CRL50	725	68	1/3	115/208-230	6.0	1800	56C	46
CR75	1,380	83	1/2	115/208-230	7.0	3600	56C	
CRL150	1,770	66	1/2	115/208-230	6.4	1200	56C	67
CR200	2,520	75	1/2	115/208-230	8.0	1800	56C	
CRL425	2,820	70	1/2	115/208-230	6.4	1200	56C	137
CR550	4,130	79	1.0	115/208-230	13.6	1800	56C	
CRL600	4,270	75	3/4	115/208-230	9.4	1200	56C	205
CR800	6,210	84	2.0	115/208-230	20.0	1800	143/145TC	
CRL1075	5,490	81	1.0	115/208-230	Consult Factory	Consult Factory	Consult Factory	277
CR1400	8,020	90	3.0	115/208-230	33.6	1800	184TC	
CRL1800	8,400	89	1-1/2	115/208-230	Consult Factory	Consult Factory	Consult Factory	414
CR2350	12,300	98	5.0	115/208-230	Consult Factory	1800	184TC	

- Electric motors are TEFC.
- Actual ratings may vary with motor brand. Check nameplate for actual ratings.
- Motor RPM is reduced by 1/6 for 50Hz service.
- Sound ratings are for fan only, under laboratory conditions. Fan noise is influenced by many factors, including inlet geometry, proximity of walls, sheet metal vibrations, and obstructions in the air stream.

## Three Phase Explosion Proof Motors (Class I, Grp. D & Class II)

Model Number	Approx. CFM	Approx. Sound dB(A) @ 1-Meter	HP	Voltage	Full Load Amps 230V	RPM	Frame	Approx. Shipping Weight (lbs.)
CRL50	725	68	1/3	230/460	1.2	1800	Consult Factory	46
CR75	1,380	83	1/2	230/460	1.7	3600	56C	
CRL150	1,770	66	1/2	230/460	2.0	1200	Consult Factory	67
CR200	2,520	75	1/2	230/460	2.9	1800	56C	
CRL425	2,820	70	1/2	230/460	2.0	1200	145TC	137
CR550	4,130	79	1.0	230/460	5.6	1800	143/145TC	
CRL600	4,270	75	3/4	230/460	2.7	1200	Consult Factory	205
CR800	6,210	84	2.0	230/460	5.6	1800	143/145TC	
CRL1075	5,490	81	1.0	230/460	3.3	1200	143/145TC	277
CR1400	8,020	90	3.0	230/460	7.8	1800	182/184TC	
CRL1800	8,400	89	1-1/2	230/460	4.6	1200	182/184TC	414
CR2350	12,300	98	5.0	230/460	13.1	1800	182/184TC	

All data based at nominal speed

## Pneumatic Air Motor Data

Model Number	Approx. CFM	Approx. Sound dB(A) @ 1-Meter	Air Pressure to Motor (PSI)	Motor Air Consumption (CFM)	Air Motor Connection Size	RPM	Approx. Shipping Weight (lbs.)
CRL50	725	68	10	5	1/4" NPT	1,800	46
CR75	1,125	83	40	35	1/4" NPT	3,000	
CRL150	1,770	66	15	5	1/4" NPT	1,200	67
CR200	2,520	75	30	15	1/4" NPT	1,800	
CRL425	2,820	70	40	20	1/4" NPT	1,200	137
CR550	4,130	79	60	30	1/4" NPT	1,800	
CRL600	4,270	75	50	25	1/4" NPT	1,200	205
CR800	6,210	84	60	50	1/2" NPT	1,800	
CRL1075	5,490	81	60	25	1/4" NPT	1,200	277
CR1400	8,020	90	70	70	1/2" NPT	1,800	
CRL1800	8,400	89	80	60	1/2" NPT	1,200	414
CR2350	11,070	98	100	75	1/2" NPT	1,650	

All data based at nominal speed

- ▶ Air pressure to motor **MUST** be regulated and lubricated.
- ▶ Do not exceed fan RPM listed above.
- ▶ Muffler are included with all pneumatic air motors.

- ▶ Sound ratings are for fan only, under laboratory conditions. Fan noise is influenced by many factors, including inlet geometry, proximity of walls, sheet metal vibrations, and obstructions in the air stream.

**NOTE:** CRL50 & CR2350 have approximately 10% reduced performance with air motors due to RPM restrictions.

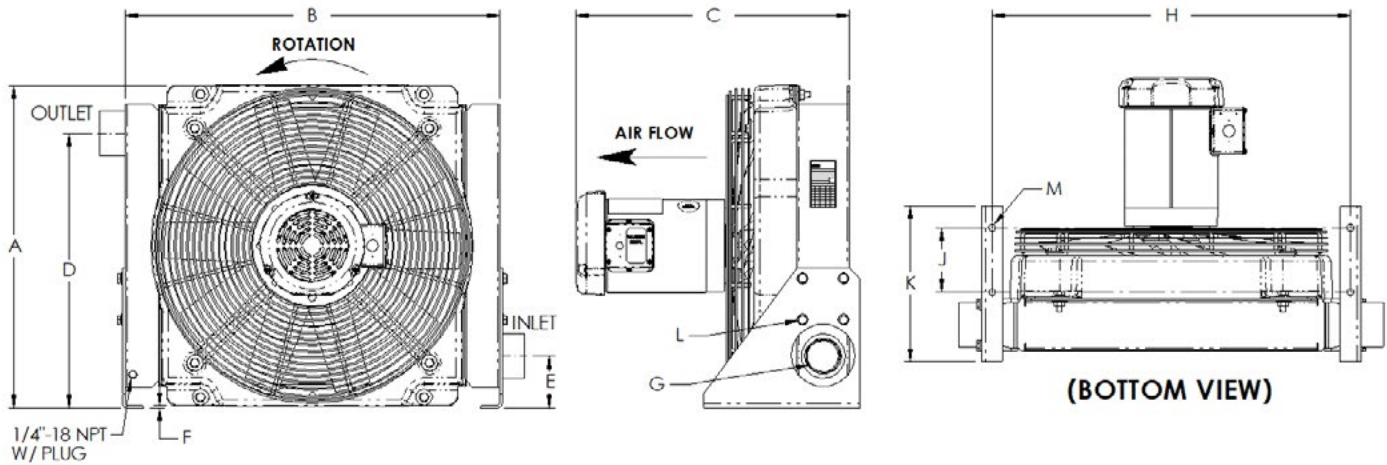
## CR SERIES DIMENSION CR/CRL

Model Number	A	B	C (Approx. +/- 2.0")	D	E	F	G	H	J	K	L	M
CRL50/ CR75	14.3	15.8	15.9	11.4	3.2	0.1	1"-11.5 NPT PORT	14.5	3.5	8.2	M8-1.25 • X16MM Bolt (8 PL)	Ø 0.53
CRL150/ CR200	18.7	21.7	16.8	15.4	3.6	0.1	1.5"-11.5 NPT PORT	20.4	3.5	8.2	M8-1.25 • X16MM Bolt (8 PL)	Ø 0.55
CRL425/ CR550	22.7	26.4	19.2	19.3	3.6	0.1	2"-11.5 NPT PORT	25.2	4.5	11.0	M10-1.5 • X16MM Bolt (8 PL)	Ø 0.55
CRL600/ CR800	25.1	30.3	20.2	21.5	3.7	0.1	2"-11.5 NPT PORT	29.2	4.5	11.0	M10-1.5 • X16MM Bolt (8 PL)	Ø 0.55
CRL1075/ CR1400	29.2	37.0	23.0	25.2	4.4	0.6	2.5"-8 NPT PORT	37.8	7.9	16.0	M12-1.75 • X30MM Bolt (8 PL)	Ø 0.55
CR1800/ CR2350	37.4	40.9	25.1	30.8	4.3	0.4	3"-8 NPT PORT	41.8	7.9	16.0	M12-1.75 • X30MM Bolt (8 PL)	Ø 0.55

\*All Dimensions are in Inches

\*Dimensions are for general information only; all critical dimensions should be verified by requesting a certified print.

## COOLER DIMENSIONS CR/CRL



## ORDERING INFORMATION

SERIES CODE: MODEL SIZE:

MOTOR CODE:

CUSTOM FEATURE CODE:





**SERIES:** CR = Standard, CRL = Low Noise

**MODEL SIZE:** Select (50-2300)

**MOTOR CODE:** 0 = No Motor, C = Core Only, 1 = Single Phase, 2 = Pneumatic Air Motor, 3 = Three Phase,

575 = 575 Volt, C1D2 = Class I, Division 2 3-phase, 3EXP = 3 Phase Explosion-Proof

**CUSTOM FEATURE CODE:** B = Blowing Fan, H = Heresite Coated Core