MOKON®

Design is the Difference℠

C³

Cold Climate Cooler System

Winter Cooling for Environmental and Energy Savings

Mokon's C³ cold climate cooler system offers a cost-effective solution to process cooling in cold weather areas. The system uses ambient air temperature to cool fluid in a closed loop system that requires no make-up water or expensive chemical treatments.

The C³ system saves water and energy and is environmentally friendly. The system also extends the life of your chiller. During cold weather, you can turn off your chiller and use the cold climate cooler.

The overall design provides for long life and durability. The only moving parts are the fans. Quality and craftsmanship can be found throughout, such as noncorrosive construction and the incorporation of side access panels for easy coil inspection and cleaning. The C³ system is available in multiple sizes and configurations with a variety of pumping capacities. All of these features and more in an energy-efficient design.

The C³ system is also an ideal addition to a Mokon central chiller and pump tank system. The cold climate cooler can be integrated to provide maximum cooling at minimal cost.

- **Closed circuit cooling system requires no make-up water or chemical treatment**
- **Noncorrosive construction**
- **Cooling capacities up to 130 tons**
- **Weather-resistant construction, including heavy gauge galvanized steel, weather-protected fans and aluminum fan blades**
- **Environmentally friendly design reduces water usage and energy costs**
- **Ideal when used in combination with a central chiller/pump tank system**

Winter Cooling for Environmental and Energy Savings

Cold Climate Cooler System (Ethylene Glycol)

Model	Capacity[1] (Tons)	Flow[2] (gpm)	Fans		Dimensions L x W x H	Shipping Weight (lbs.)	Voltage/Phase/Hz[4]
			HP	QTY			
FND124C-9-EG	20	57	2	2	117" x 48" x 52"	1,125	460/3/60
FND134C-6-EG	28	79	2	3	174" x 48" x 52"	1,582	380/3/50
FND134C-9-EG	30	86	2	3	174" x 48" x 52"	1,582	460/3/60
FND224E-6-EG	37	105	2	4	117" x 93" x 52"	2,105	380/3/50
FND224E-9-EG	40	114	2	4	117" x 93" x 52"	2,105	460/3/60
FND154C-6-EG	46	132	2	5	288" x 48" x 56"	2,398	380/3/50
FND154C-9-EG	50	143	2	5	288" x 48" x 56"	2,398	460/3/60
FND154F-6-EG	55	158	2	5	288" x 48" x 56"	2,616	380/3/50
FND154F-9-EG	60	172	2	5	288" x 48" x 56"	2,616	460/3/60
FND243F-6-EG	74	211	2	8	231" x 93" x 52"	3,231	380/3/50
FND243F-9-EG	80	229	2	8	231" x 93" x 52"	3,231	460/3/60
FND254C-6-EG	92	263	2	10	288" x 93" x 56"	4,356	380/3/50
FND254C-9-EG	100	286	2	10	288" x 93" x 56"	4,356	460/3/60
FND254F-6-EG	110	316	2	10	288" x 93" x 56"	4,707	380/3/50
FND254F-9-EG	120	343	2	10	288" x 93" x 56"	4,707	460/3/60
FND264C-6-EG	120	342	2	12	345" x 93" x 56"	5,457	380/3/50
FND264C-9-EG	130	372	2	12	345" x 93" x 56"	5,457	460/3/60

Cold Climate Cooler System (Propylene Glycol)

Model	Capacity[1] (Tons)	Flow[3] (gpm)	Fans		Dimensions L x W x H	Shipping Weight (lbs.)	Voltage/Phase/Hz[4]
			HP	QTY			
FND124C-9-PG	20	52	2	2	117" x 48" x 52"	1,125	460/3/60
FND134E-6-PG	28	72	2	3	174" x 48" x 52"	1,701	380/3/50
FND134E-9-PG	30	78	2	3	174" x 48" x 52"	1,701	460/3/60
FND224C-6-PG	37	97	2	4	117" x 93" x 52"	1,950	380/3/50
FND224C-9-PG	40	105	2	4	117" x 93" x 52"	1,950	460/3/60
FND233C-6-PG	46	121	2	6	174" x 93" x 52"	2,552	380/3/50
FND233C-9-PG	50	131	2	6	174" x 93" x 52"	2,552	460/3/60
FND234E-6-PG	55	144	2	6	174" x 93" x 52"	2,920	380/3/50
FND234E-9-PG	60	157	2	6	174" x 93" x 52"	2,920	460/3/60
FND263D-6-PG	74	193	2	12	345" x 93" x 56"	5,040	380/3/50
FND263D-9-PG	80	210	2	12	345" x 93" x 56"	5,040	460/3/60

[1] – Based on 1 ton of refrigeration equal to 12,000 BTUH.
[2] – Flows are based on cooling 2.8 gpm per ton of 50% water/50% ethylene glycol.
[3] – Flows are based on cooling 2.8 gpm per ton of 60% water/40% propylene glycol.
[4] – Other voltages available include 208-240/3/60, 575/3/60 and 380/3/50.
For higher tonnages and flow capacities, please consult the factory.

Chiller capacities are based on cooling from 60˚F to 50˚F with 35˚F ambient air temperature.
Specifications are for operation at elevations under 1000 feet above sea level.
Includes motor fusing and non-fused disconnect.
Standard cold climate cooler leg height is 22"; optional heights of 36", 48" and 60" are available upon request.

LOOK AT THE SAVINGS

460V Chiller Tonnage	Cooler Information	Chiller Information				Electrical Savings per Year*			
	Power Use of Cooler (Watts)	Power Use of Chiller @ 50°F (Watts)	Power Use of Chiller @ 55°F (Watts)	Power Use of Chiller @ 60°F (Watts)	Power Use of Chiller @ 65°F (Watts)	Water Temperature			
						50°F	55°F	60°F	65°F
20	3,542	15,226	15,180	15,180	15,180	$4,907	$4,888	$4,888	$4,888
30	5,106	24,380	24,564	24,702	24,840	$8,095	$8,172	$8,230	$8,288
40	6,670	28,704	28,888	29,072	29,164	$9,254	$9,332	$9,409	$9,447
50	8,234	33,764	34,040	34,132	34,224	$10,723	$10,839	$10,877	$10,916
60	8,234	42,320	42,596	42,872	43,240	$14,316	$14,432	$14,548	$14,703
80	12,926	33,350	33,488	33,626	33,810	$8,578	$8,636	$8,694	$8,771
100	16,054	38,364	38,640	38,732	38,824	$9,370	$9,486	$9,525	$9,563
120	16,054	84,180	84,732	85,376	86,020	$28,613	$28,845	$29,115	$29,386
190	25,852	156,400	156,400	156,400	156,400	$54,830	$54,830	$54,830	$54,830

* Estimated savings
Savings information is calculated based on Buffalo, New York, weather data, 50 weeks, 7 days, 24 hours a day. Energy cost used is $0.05 kWH. The cost savings above do not include additional savings on chiller maintenance.
Savings based on 50% water/50% ethylene glycol.

Technical data shown is subject to change without notice. The company will endeavor to supply the equipment as illustrated but reserves the right to make dimensional and other design changes as required.

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