

Gardner Denver

INDUSTRIAL PROCESS COOLING | INDUSTRIAL CHILLERS ½ TON-200 TON

XGCH Series



X Series: NeXt-Generation Gardner Denver Air Treatment

Why a Chiller?

The real cost of water includes both its acquisition and disposal. If your manufacturing process utilizes cooling water, you will recognize savings immediately with a closed loop chiller. Using a closed loop unit eliminates costs associated with increasingly stringent local and federal water regulations. Chillers completely eliminate the need for discharge water monitoring and annual permits.

How Much Are You Spending on Water?

In the past, plants often connected process equipment to their incoming city water supply and never gave it a second thought. However, since the days of plentiful and cheap water are gone, and sewer charges are often substantial, self-contained water recirculators and chillers have become a popular option.



USAGE GPM	ANNUAL WATER & SEWAGE COST		
	1	\$240	\$600
5	\$1,200	\$3,000	\$4,800
10	\$2,400	\$6,000	\$9,600
25	\$6,000	\$15,000	\$24,000
50	\$12,000	\$30,000	\$48,000
100	\$24,000	\$60,000	\$96,000

Based on 52 weeks @ 40 hours/week



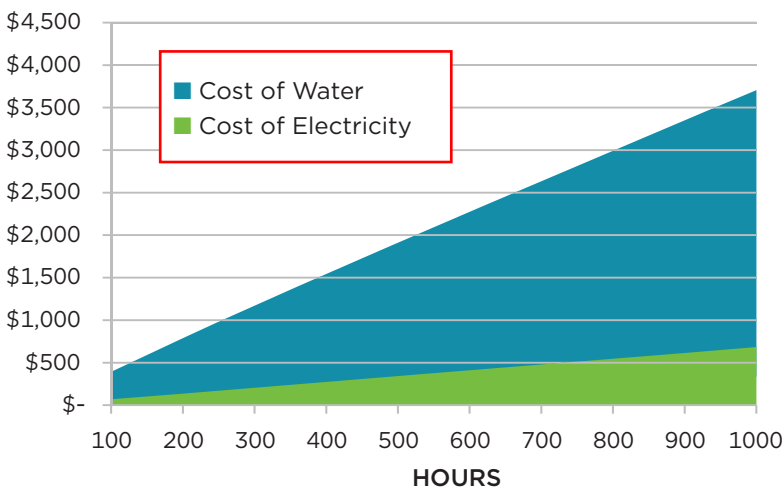
Conserve Water & Cash

With an immediate reduction in water usage and a consistent cooling water temperature, chillers offer a significant improvement to the process and fast ROI.

- Wide variety of units in stock for immediate shipment
- Competitive pricing
- Excellent customer service
- Service & support available
- Replacement parts

COST COMPARISON: WATER VS. ELECTRICITY

Typical 5.6 Ton Chiller — 460/3 @20 GPM



Water calculations based on 20 gpm @ \$0.003/gallon (blue).
 Electricity calculations based on continual operation of 6 kW/hr @ \$0.10 kW/hr (green).

Savings Explained

This graph explains the cost savings if you were to use city water to cool, draining it over and over continuously for your application, versus using a chiller with cost of electricity. If a customer has a rate for water at \$0.003 per gallon, the cost of water for 1000 hours per year is estimated to be \$3,600. If that same customer used a Gardner Denver X Series Chiller, their cost of electrically cooling the same application at 1000 hours per year at \$0.10 per KWH, the estimated cost would be \$600. This provides an estimated \$3,000 in cost savings using the X Series Chiller over the city water cooling technology.

Benefits & Advantages

Industrial water chillers offer protection to your valuable process equipment—such as spot welders, injection molding equipment, and various other industrial applications. A chiller provides solid protection of your investment twenty-four hours a day, seven day a week during the chiller's lifetime.

Improved Productivity

Experience reduced production cycle times and fewer interruptions. With precise water temperature control, industrial chillers reduce production cost by eliminating waste.

Closed Circuit Operation

Extremely precise water temperature control ensures steady operating conditions and a quick response to any sudden load changes.

Built for Industry

Gardner Denver perfectly matches the needs of a diverse range of industries—from machinery to pharmaceutical, and food and beverage to plastics and rubber.

Personalized for Your Needs

An extensive range of accessories and upgrades are available making your chiller flexible and fully customizable.

Gardner Denver offers various-sized compact water and oil chillers to fit industrial applications.

We serve all types of industrial applications, such as:

- Welding Equipment
- Molding Equipment
- Induction Heating Equipment
- Bakery
- Chemical Operations
- Food Processing
- Machine Tools
- Boiler Feed Sampling
- Cement Mixing
- Lasers
- Packaging Machinery
- Computers
- Plasma Cutting
- Film Processing
- Electric Generators





Mini Chillers

- Refrigerant R134A
- Scroll compressors
- High-efficiency coaxial tube in tube evaporators
- Non ferrous water circuit
- Single phase and three-phase models
- Advanced digital controller with diagnostic & storage alarms

SIZES	MODELS	CAPACITY
3	7	0.5-5 tons



Pro Chillers

- Refrigerant R410A
- Scroll compressors
- High-efficiency shell & tube evaporators
- 460V/3ph/60Hz
- Free-cooling version available

SIZES	MODELS	CAPACITY
4	12	6-45 tons



Pro MAX Chillers

- Refrigerant R410A
- Precise temperature control for any industrial application
- Electronic expansion thermostatic valve
- Separated compressor compartment with removable panels
- Refrigerant high and low pressure gauges

SIZES	MODELS	CAPACITY
3	5	50-200 tons

Specifications

MODEL	SERIES	COOLING CAPACITY		FLUID CONNECTIONS	FLOW, NOMINAL	HEAD PRESSURE, NOMINAL	RESERVOIR CAPACITY	VOLTAGE	FLA	DIMENSIONS (IN)			WEIGHT (LBS)	
		Tons	Btu/hr							W	H	D	Net	Gross
XGCH0.5	Mini	0.5	7,019	½" NPT	1.5	65	5.25	230/1/60	9.9	31	23	18	212	169
XGCH1.0	Mini	1.0	11,786	½" NPT	2.5	65	5.25	230/1/60	14.7	31	23	18	220	176
XGCH1.5	Mini	1.5	18,287	¾" NPT	3.5	75	14.5	460/3/60	7.4	29	26	44	436	315
XGCH2.3	Mini	2.3	27,640	¾" NPT	5.5	75	14.5	460/3/60	8.6	29	26	44	447	326
XGCH2.9	Mini	2.9	34,416	¾" NPT	7	75	14.5	460/3/60	11.5	29	26	44	447	326
XGCH3.4	Mini	3.4	40,587	1" NPT	8	70	21	460/3/60	12.0	39	30	51	682	507
XGCH6.1	Mini	6.1	72,756	1" NPT	15	65	21	460/3/60	16.6	39	30	51	704	529
XGCH6.2	Pro	6.2	74,552	1½" NPT	16	60	32	460/3/60	20.2	56	30	63	995	727
XGCH7.6	Pro	7.6	90,707	1½" NPT	18	70	58	460/3/60	25.0	74	31	65	1454	970
XGCH9.2	Pro	9.2	110,890	1½" NPT	22	70	58	460/3/60	26.9	74	31	65	1459	975
XGCH11.7	Pro	11.7	140,638	1½" NPT	28	70	58	460/3/60	31.8	74	31	65	1498	1014
XGCH14.1	Pro	14.1	168,777	1½" NPT	34	70	58	460/3/60	38.2	74	31	65	1498	1014
XGCH17.8	Pro	17.8	214,057	2" NPT	42	70	92	460/3/60	46.3	97	36	78	2355	1587
XGCH20.1	Pro	20.1	240,955	2" NPT	48	65	92	460/3/60	51.6	97	36	78	2420	1653
XGCH22.9	Pro	22.9	275,155	2" NPT	55	65	92	460/3/60	61.1	97	36	78	2420	1653
XGCH28.2	Pro	28.2	338,397	2" NPT	68	65	92	460/3/60	79.4	97	36	78	2490	1725
XGCH35.3	Pro	35.3	424,050	2½" NPT	85	65	132	460/3/60	93.2	137	48	78	3150	2050
XGCH39.5	Pro	39.5	474,037	2½" NPT	95	65	132	460/3/60	101.5	137	48	78	3275	2175
XGCH45.0	Pro	45.0	540,173	2½" NPT	110	65	132	460/3/60	147.0	137	48	78	3400	2300
XGCH53.2	Pro MAX	53.2	638,070	3" M Vic	128	40	132	460/3/60	196.0	124	87	95	6846	5747
XGCH59.8	Pro MAX	59.8	717,480	3" M Vic	143	40	132	460/3/60	227.0	124	87	95	6941	5908
XGCH75.6	Pro MAX	75.6	907,629	3" M Vic	182	40	132	460/3/60	257.0	124	87	95	7061	6029
XGCH94.6	Pro MAX	94.6	1,135,901	4" M Vic	227	40	200	460/3/60	315.0	175	87	95	9293	7835
XGCH106.0	Pro MAX	106.0	1,272,728	4" M Vic	255	40	200	460/3/60	365.0	175	87	95	9393	7935

NOTE: For chiller needs above 106 tons, contact customer service for a special quote.

CAPACITY RATINGS	SERIES		
	60F/70F	45F/55F	45F/55F
Fluid out/in	60F/70F	45F/55F	45F/55F
Ambient	95F	95F	95F
Min fluid outlet	41F	41F	32F
Max fluid inlet	86F	86F	68F
Min ambient	50F	32F	14F
Max ambient	113F	113F	113F

CORRECTION FACTORS (PRO & PRO MAX ONLY)								
	30	35	40	45	50	55	60	
Water Outlet Temp (F)								
Correction Factor	0.68	0.79	0.91	1	1.06	1.12	1.16	
Ambient Temp (F)	75	80	85	90	95	100	105	
Correction Factor	1.15	1.11	1.08	1.04	1	0.93	0.91	
Ethylene Glycol (%)	0	10	20	30	40	45	50	
Correction Factor	1	0.99	0.98	0.97	0.96	0.95	0.94	

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