

PORTABLE WATER CHILLERS

- 2 - 40 Tons of Capacity
- 20°F - 80°F Fluid Temperatures
- Water-Cooled Condenser
- R410A Non Ozone Depleting Refrigerant
- Steel Frame & Lift-Off Cabinetry
- Stainless Steel Brazed Plate Evaporator

The CG-W Series portable chiller provides precision temperature control from an economically affordable and reliable unit. Perfect for applications such as plastic injection molding, blow molding, extrusion and other industrial applications.

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SOUTHWEST
HEATER & CONTROLS

CG-W SERIES

Water-Cooled Unit



CG-W indoor unit
10 ton shown

CG Control Instrument



CG Chiller Control Instrument

- For Air-Cooled and Water-Cooled Units
- Graphical LCD Display
- Intuitive Navigation Six Menus Deep
- Main Screen Display of To Process Temperature, Setpoint and Output
- Setpoint Selection via Main or Setpoints Display
- Controls Hot Gas Bypass or Digital Scroll Compressor for Capacity Control
- Soft Key Buttons for Intuitive Navigation
- Soft Key Buttons for Power On and Off
- Plain Language Error Reporting
- Machine Status Indication via Outputs Display
- Capacity Control Indication via Outputs Display
- Digital Refrigerant Pressure Display
- Digital Water Pressure Display
- Alarm Output with Audible Signal
- Industry 4.0 Ready ... Modbus RTU or SPI Communication Included
- Modbus TCP Communication Optional
- High Water Temperature Shut Down Feature

Product features include:

TEMPERATURE RANGE

- 20° - 80°F

REFRIGERANT CIRCUIT

- Scroll compressor
- Digital scroll compressor on 5, 10 and 15 ton units
- Water-cooled condenser
- Filter-drier
- Liquid line solenoid valve
- Refrigerant sight glass with moisture indicator
- Thermostatic expansion valve
- Coaxial evaporator
- Full component insulation
- Environmentally friendly refrigerants

COOLANT CIRCUIT

- Stainless steel process pump on 5-20 ton models
- Cast iron process pump on 25 - 40 ton models
- Insulated non-ferrous reservoir
- All non-ferrous construction

LIMIT DEVICES

- Compressor motor overload protection
- Refrigerant high pressure switch
- Refrigerant low pressure switch
- Instrument control circuit fuse

ELECTRICAL

- Nema rated electrical cabinet
- Process pump motor starter
- Compressor motor starter
- Fused transformer
- Factory installed power cord

FRAME

- Female NPT process connections
- Galvanized steel frame
- Enclosure panels (optional)
- 3" bearing casters

WARRANTY & SERVICE

- 1 year on parts & labor
- Nationwide network of service contractors



SPECIFICATIONS

MODEL CG-		5W	7.5W	10W	15W	20W	25W	30W	40W
CAPACITY @ 50°F LWT	Tons ²	5.1	7.6	10.5	15	20	25	30	40
	KW ²	17.9	26.7	36.8	52.6	70.2	87.7	105.3	140.4
COMPRESSOR	HP	5	7½	10	15	10 ⁽²⁾	13 ⁽²⁾	15 ⁽²⁾	20 ⁽²⁾
	Type ³	SC	SC	SC	SC	SC	SC	SC	SC
REFRIGERANT		410A	410A	410A	410A	410A	410A	410A	410A
PROCESS PUMP	HP	2	2	2	3	3	5	5	7½
	GPM	12	19	26	36	48	60	72	92
	PSI	52	48	47	55	43	59	57	61
	Type ⁴	C	C	C	C	C	C	C	C
	Construction ⁵	SS	SS	SS	SS	SS	SS	SS	C
CONNECTION	Process (to/from)	1¼	1¼	1¼	2	2	2	2	2½
SIZES	Condenser	¾	¾	1	1¼	1¼	1½	1½	2½
	Make-Up	½	½	½	½	½	½	½	½
WATER-COOLED	City ⁶	8	14	17	23	32	39	45	60
CONDENSER	Tower ⁷	15	28	43	45	63	78	90	120
FULL LOAD ⁸	230 volt	30	40	48	68.4	78	106	134	178
AMPERAGE	460 volt	15	20	24	34.2	39	53	67	89
	575 volt	12	16	20	27.5	32	43	54	72
TANK CAPACITY (gallons)	Holding	25	25	25	65	65	65	65	65
	Tank Lid ⁹	S	S	S	S	S	S	S	S
	Auto Make Up ⁹	S	S	S	S	S	S	S	S
DIMENSIONS (inches)	Height	40	56	56	57	57	57	57	57
	Width	34	32	34	34	34	34	34	34
	Depth	45	45	56	80	80	80	80	80
WEIGHTS (pounds)	Shipping ¹⁰	655	740	760	1,500	1,900	2,100	2,200	2,500

Notes

1. Since product innovation and improvement is our constant goal, all features and specifications are subject to change without notice or liability. Selection of certain optional features may change listed specifications. 2. Tons or Kilowatts capacity at 12,000 Btu/hr/ton @ 50°F LWT, 85°F condensing water and 105°F condensing. Capacity multipliers are 50°F - 1.00; 40°F - .80; 30°F - .60; 20°F - .40. The minimum recommended operating temperature when no glycol is used is 48°F. 3. R = hermetic reciprocating. SC = hermetic scroll. 4. P = positive displacement. C = centrifugal. 5. B = brass. SS = stainless steel. C = cast iron. 6. City water requirements based on 60°F water supply at 20 PSI differential with a clean condenser. 7. Tower water requirements based on 85°F water supply at 20 PSI differential with a clean condenser. 8. Full load amps are higher than run load amps and must be used for sizing disconnects and supply wiring. 9. S = standard. O = optional. 10. Approximate unit weight crated for shipment.

OPTIONS

ALARM OPTIONS:

- Audible alarm
- Visual / audible alarm beacon

ELECTRICAL:

- E-Stop
- Branch circuit fusing
- UL508A Electrical Enclosures panel

COOLANT CIRCUIT OPTIONS:

- Overhead piping kit - prevents tank overflow when overhead piping is used
- No tank for reverse flow applications
- Process line shut-off valves
- Larger process pumps

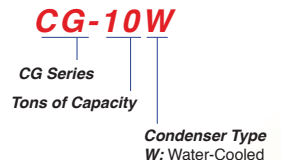
REFRIGERANT CIRCUIT:

- Centrifugal blower generated air flow for air-cooled condensers in 5 to 20 ton models
- Low temperature models to 0°F leaving water temperature
- Tandem scroll compressors
- Condenser screen guard / air filter

WARRANTIES:

- Extended compressor warranty

Model Designator for CG-W Chillers



For More Information ... call SWHC 214-340-7500
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