

PORTABLE WATER CHILLERS

CG-A SERIES

Air-Cooled Unit

- 4 - 40 Tons of Capacity
- 20°F - 80°F Fluid Temperatures
- Indoor Chiller Unit with Integral Air-Cooled Condenser
- R410A Non Ozone Depleting Refrigerant
- Steel Frame & Lift-Off Cabinetry
- Stainless Steel Brazed Plate Evaporator

The CG-A 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.



CG-A 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
- Air-cooled condenser with fan induced air flow
- 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	CF-	5A	7.5A	10A	15AF	15AB	20AF	20AB	25A	30A
CAPACITY @ 50°F LWT	Tons ²	4.9	7.2	9.8	14.5	14.5	18.5	18.5	23.1	30
	KW ²	17.2	25.3	34.4	50.9	50.9	65.0	65.0	81.0	105.3
COMPRESSOR	HP	5	7½	10	15	15	20	20	25	30
	Type ³	SC	SC	SC	SC	SC	SC	SC	SC	SC
REFRIGERANT		410A	410A	410A	410A	410A	410A	410A	410A	410A
PROCESS PUMP	HP	2	2	2	3	3	3	3	5	5
	GPM	12	18	24	36	36	48	48	60	72
	PSI	52	50	48	55	55	50	50	59	57
	Type ⁴	C	C	C	C	C	C	C	C	C
	Construction ⁵	SS	SS	SS	SS	SS	SS	SS	SS	SS
CONNECTION	Process (to/from)	1¼	1¼	1¼	2	2	2	2	2	2
SIZES	Make-Up	½	½	½	½	½	½	½	½	½
AIR-COOLED	Type ⁶	F	F	F	F	B	F	B	B	B
CONDENSER	CFM x 1000	5	10	10	15	15	20	20	20	30
	S.P. ⁷	--	--	--	--	1.35	--	1.35	1.35	1.35
	Ambient ⁸	95	95	95	95	95	95	95	95	95
FULL LOAD ⁹	230/3/60 volt	34	48	56	80	87	92	103	148	184
AMPERAGE	460/3/60 volt	17	24	28	40	44	46	51.5	74	92
	575/3/60 volt	14	19	23	32	31	37	42	60	74
TANK CAPACITY (gallons)	Holding	25	25	25	65	65	65	65	65	65
	Tank Lid ¹⁰	S	S	S	S	S	S	S	s	S
	Auto Make Up ¹⁰	S	S	S	S	S	S	S	s	S
DIMENSIONS (inches)	Height	60	60	60	66	96	66	96	96	96
	Width	34	34	34	59	58	59	58	58	58
	Depth	40	56	56	58	70	58	70	70	70
WEIGHTS (pounds)	Shipping ¹¹	800	1,100	1,100	1,600	2,300	1,700	2,600	3,200	3,400

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, 95°F ambient and 115°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. F = fan. B = blower. 7. Static pressure in inches of water. 8. Design ambient conditions. Loss of capacity and/or difficulty operating will occur at higher ambient. 9. Full load amps are higher than run load amps and must be used for sizing disconnects and supply wiring. 10. S = standard. O = optional. 11. 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

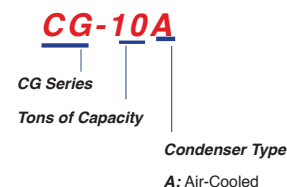
REFRIGERANT CIRCUIT:

- 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-A Chillers



Authorized Dealer

Southgate Process Equipment, Inc.

87 Hickory Springs IND. Drive

Canton, GA 30115

Ph: (770) 345-0010

Email: sales@southgatepe.com



For best pricing call [Southgate Process Equipment @ \(770\) 345-0010](tel:(770)345-0010)

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