PORTABLE WATER CHILLERS

- 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 KCG-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.

KCG Control Instrument



KCG 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

KCG-A SERIES

Air-Cooled Unit



Product features include:

TEMPERATURE RANGE

• 20° - 80°F

REFRIGERANT CIRCUIT

- Scroll compressor
- Digital scroll compressor on 5, 10 and 15 ton units(Available as an option)
- 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 KCG- | | 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 | НР | 5 | 71/2 | 10 | 15 | 15 | 20 | 20 | 25 | 30 |
| | Type ³ | SC | SC | SC | SC | SC | SC | SC | SC | SC |
| REFRIGERANT | | s provided | with R-410A | R-454B, R | -513A Depe | nding on the | application | and site loca | ntion. | |
| PROCESS PUMP | НР | 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 | 43 | 43 | 59 | 57 |
| | Type⁴ | С | С | С | С | С | С | С | С | С |
| | Construction ⁵ | SS | SS | SS | SS | SS | SS | SS | SS | SS |
| CONNECTION | Process (to/from) | 11/4 | 11/4 | 11/4 | 2 | 2 | 2 | 2 | 2 | 2 |
| SIZES | Make-Up | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| AIR-COOLED | Type ⁶ | F | F | F | F | В | F | В | В | В |
| 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 |
| | | | | | | | | | | |
| TANK CAPACITY | Holding | 25 | 25 | 25 | 65 | 65 | 65 | 65 | 65 | 65 |
| (gallons) | 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 | Height | 60 | 60 | 60 | 66 | 96 | 66 | 96 | 96 | 96 |
| (inches) | Width | 34 | 34 | 34 | 59 | 74 | 59 | 74 | 74 | 74 |
| | 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 Btw/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
- Tandem scroll compressors
- Condenser screen guard / air filter

WARRANTIES:

· Extended compressor warranty



