

For more info: Southgate Process Equipment, Inc. / Ph: (770) 345-0010 / Email: Sales@southgateprocess.com

- **Temperature Control Units**
Water & Oil
30° - 500°F

- **Package Chillers**
Air & Water-Cooled
20° - 70°F

- **Central Chillers**
Air & Water-Cooled
Packages & Modules
20° - 70°F

- **Pump Tank Stations**
Chilled or Tower Water
200 - 3600 gallons

- **Cooling Tower Cells**
45 - 540 tons

- **Fluid Coolers**
Hybrid
Dry

- **Filters**

- **Heat Exchangers**

- **Heat Recovery Units**

WARRANTY

- **1 Year:**
Covering parts and labor

- **2nd Year:**
FREE preventative
maintenance visit

CUSTOM UNITS

If one of our standard models does not meet your application needs, then we can custom build a unit that will! Call us at 317-887-0729 for more details.

MAXIMUM SERIES

- **Air-Cooled Unit with Remote Condenser**
- **5 - 40 Tons**
- **20°F to 70°F**
- **Using Non-Ozone Depleting Refrigerants**

Southgate
Process Equipment, Inc.



M1-10A-RC indoor unit.



Remote Condenser.

INDUSTRIAL DUTY PACKAGE CHILLERS

When your process cooling requirements call for recirculated fluids at temperatures between 20°F and 70°F, the ADVANTAGE Maximum Series water chiller is your choice.

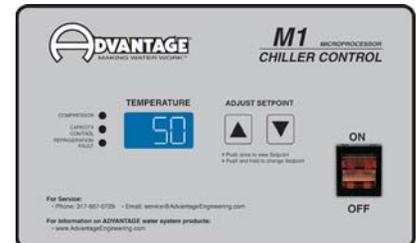
The Maximum Series chiller with remote condenser provides process cooling while rejecting the absorbed heat outside, eliminating heat gain to your building.

The included high flow pump circulates cooling water from the internal reservoir to process where heat is removed. The warmed process cooling water returns to the chiller where it is cooled by its refrigeration system.

Maximum Series chillers are controlled by a tailor made microprocessor control instrument that provides precise temperature control and system diagnostics.

The remote condenser is installed outside and requires field piping and system charging by a qualified installer.

M1 CHILLER CONTROL



Designed for chilled water applications in industrial environments, offers digital temperature display and setpoint selection with machine function and diagnostic indicators.

Since 1977 Advantage has been applying, designing and servicing the best chillers available.

APPLICATIONS

Maximum Series chillers can be used on a variety of process applications that require 20°F to 70°F chilled water.



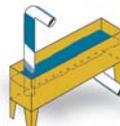
Molds & Dies



Nozzles, Barrels & Tools



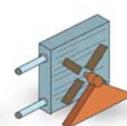
Heat Exchangers



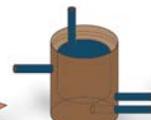
Troughs & Tanks



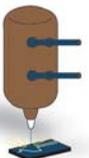
Rolls



Radiators and Air Coils



Jacketed Vessels and Mixers



Lasers



STANDARD FEATURES

CONSTRUCTION (Interior Unit):

- Powder coated steel upright frame members
- Galvanized steel cross frame members
- Powder coated lift-off enclosure panels
- Lift-off molded front panel

REFRIGERANT CIRCUIT:

- Compressors:
 - Hermetic scroll
- Air-Cooled Condensers
 - Remote, located outdoors
 - Finned tube
 - Fan generated air flow
 - Ambient control to -20°F
- Filter-drier
- Liquid line solenoid valve
- Refrigerant sight glass with moisture indicator
- Thermostatic expansion valve
- Microprocessor controlled hot gas bypass capacity control system
- Stainless Steel Brazed Plate evaporator
- Liquid receiver
- Oil separator

PRESSURE GAUGES:

- Refrigerant high pressure
- Refrigerant low pressure
- Coolant pressure gauge

ELECTRICAL:

- Process pump motor starter
- Compressor motor
- Fused transformer
- Power entry terminal block
- 5 kA RMS SSCR

COOLANT CIRCUIT:

- Coolant pump
 - High flow stainless steel centrifugal pump in 5 to 30 tons models (up to 5 HP)
 - High flow cast iron centrifugal pump on the 40 ton model (above 5 HP)
- Large capacity insulated non-ferrous reservoir
- Reservoir level sight tube
- Automatic water make-up system
- Standard NPT process fittings

LIMIT DEVICES:

- High refrigerant pressure
- Low refrigerant pressure
- Refrigerant pressure relief valve
- Process pump motor overload
- Instrument control circuit fuse

WARRANTY:

- 1 Year covering parts and labor
- Free preventative maintenance check in the 2nd year
- 4 Years on the control instrument

Standard unit features listed.
Customized models may include other or different features.

OPTIONS

REFRIGERANT CIRCUIT:

- Flooded head pressure control for extreme environments

COOLANT CIRCUIT:

- Overhead piping kit - prevents tank overflow when overhead piping is used
- No tank for gravity return applications
- Low flow bypass circuit - manual or automatic
- Process line shut-off valves
- Larger process pump

ALARMS:

- Audible alarm
- Visual / audible alarm beacon

WARRANTIES:

- Extended compressor warranty

ELECTRICAL:

- Branch circuit fusing
- UL rated electrical enclosures

DIGITAL SCROLL COMPRESSORS

The Copeland Scroll Digital™ compressor controlled by Advantage's M1D advanced microprocessor instrument is an option on 5, 10 & 15 ton models.



Using a simple and effective method to modulate chiller capacity from 20 - 100 %, the digital scroll compressor gives unparalleled energy efficient performance in the modulation field.

OTHER PRODUCTS

Pump Tank Stations

Chilled & Tower Water, 450-3600 Gallons

Central Chilling Modules

Air & Water-Cooled, 5-300 Tons



Cooling Tower Cells

Fiberglass or Metal, 45-540 tons

Central Chilling Packages

Air & Water-Cooled, 20-200 Tons

Temperature Controllers

Water & Oil Units, 30°-500°F

CUSTOM MACHINE DESIGNS

If one of our standard chiller models does not meet your application needs, then we can custom build a unit that will! Our Engineering Department is staffed with experienced machine designers to provide you with a machine built to your exact specifications.



Phone: 770-345-0010 Web: www.southgateprocess.com

ADVANTAGE PRODUCTS: TEMPERATURE CONTROLLERS • PORTABLE CHILLERS • CENTRAL CHILLERS • PUMP TANK STATIONS • TOWER SYSTEMS • FILTERS