

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

- **Package Chillers**
Air-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

- **Filters**

- **Heat Exchangers**

D1 SERIES

- **Outdoor or Indoor Chiller Package**
- **20°F to 70°F Fluid Temperatures**
- **Integral Pump & Reservoir**
- **Air-Cooled Unit**
- **3 to 10 Tons Capacity**
- **5 - 50 GPM**

WARRANTY

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

INDUSTRIAL DUTY PACKAGE CHILLERS

Save your valuable
indoor floor space.

“D1 Series” chillers are designed
for outdoor or indoor installations
in many climates.

The air-cooled condenser,
refrigeration components, pump and
tank are packaged in a single frame
that eliminates costly field installation
of separate components.

The “D1 Series” Water Chillers are a
complete chiller system and do not
require a separate pump assembly.
All units are pre-wired, charged with
refrigerant, piped and tested.

The microprocessor control includes
automatic hot gas by-pass capacity
control and can be easily monitored
with its included 50 foot remote
cable.

CUSTOM DESIGNS...

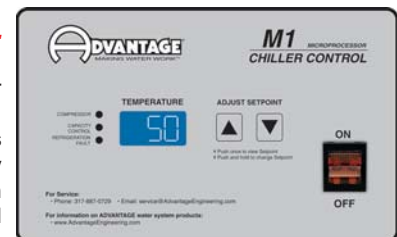
if one of our standard models do not
meet your process requirements,
ADVANTAGE can design and build a
unit that will! Ask about our popular
“Tailor Made” package chillers.



Illustration of D Series Package
Chiller, 10 ton model shown.

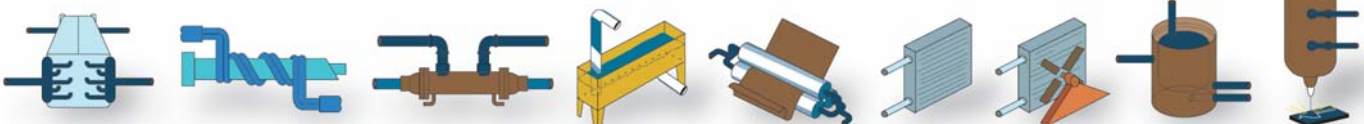
CHILLER CONTROL

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



APPLICATIONS

D1 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

Dry Cleaner Solvent
Recovery Systems

Radiators
and Air Coils

Jacketed Vessels
and Mixers

Lasers

SPECIFICATIONS

D1 Series		D1-3A	D1-5A	D1-7.5A	D1-10A
COMPRESSOR	Capacity ²	2.6	4.6	7.2	9.4
	HP	3	5	7.5	10
PROCESS PUMPS	HP	1	1	2	2
	GPM	8	12	22	28
	PSI	38	35	45	44
CONNECTION SIZES (inches)	To Process	1	1	1 1/4	1 1/4
	From Process	1	1	1 1/4	1 1/4
AIR-COOLD CONDENSER	Type	Fan	Fan	Fan	Fan
	Motor Quantity	1	1	1	1
FULL LOAD AMPERAGE ¹	230/3/60	16	23	36	48
	460/3/60	8	11	19	24
	575/3/60	n/a	n/a	16	19
	230/1/60	24	35	n/a	n/a
REFRIGERANT	Type HFC	410A	410A	410A	410A
TANK CAPACITY (gallons)	Holding	25	25	25	25
DIMENSIONS (inches)	Height	78	86	84	84
	Width	35	35	42	42
	Depth	44	44	54	54
WEIGHTS (pounds)	Shipping ³	850	950	1,400	1,500

Notes:

1. Full load amps are higher than run load amps and must be used for sizing disconnects and supply wiring. Service disconnect by owner.

2. Tons capacity at 12,000 BTU/ton @ 55°F LWT @ 95°F ambient. Capacities may be +/- 5% as reserved by the compressor manufacturer.

3. Approximate unit weight crated for shipment.

STANDARD FEATURES & OPTIONS

CHILLER CONTROL:

- Accurate control
- Large & Bright LED temperature display
- Digital Setpoint selection with soft touch keys
- Illuminated Chiller On / Off switch
- Compressor On light
- Basic chiller diagnostics with Refrigeration Fault light
- Capacity control light
- 50' remote cable

FRAME CONSTRUCTION:

- Galvanized steel cabinetry
- Galvanized steel frame members

REFRIGERANT CIRCUIT:

- High efficiency and reliable hermetic compressors
- Air-cooled condenser
- Fan style air-flow
- Filter-drier
- Liquid line solenoid valve
- Refrigerant sight glass with moisture indicator
- Brazed plate evaporator
- Thermostatic expansion valve
- Component insulation
- Microprocessor controlled hot gas by-pass capacity control
- Low ambient control
- Suction & discharge pressure gauge

COOLANT CIRCUIT:

- Stainless steel process pump
- Large capacity insulated non ferrous vented reservoir
- Reservoir level sight indicator
- Standard NPT process connections
- Pump discharge pressure gauge
- Non ferrous wetted (fluid) system

SYSTEM LIMIT DEVICES:

- Process pump motor overload
- Refrigerant high pressure switch
- Refrigerant low pressure switch
- Refrigerant pressure relief valve
- Instrument control circuit fuse

WARRANTIES:

- 1 year on parts and labor

ELECTRICAL:

- UL labeled electrical panel
- Single point electrical connection
- Branch circuit fusing
- Nema rated electrical cabinet
- Process pump motor starter
- Compressor motor contactor
- Fused transformer
- Power entry terminal block
- 5 kA RMS SSCR

OPTIONS:

- Overhead piping - factory or field installed
- No tank for gravity return applications
- Process line shut-off valves
- Larger process pump
- Extended compressor warranty



Phone: 317-887-0729 Web: www.AdvantageEngineering.com

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

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