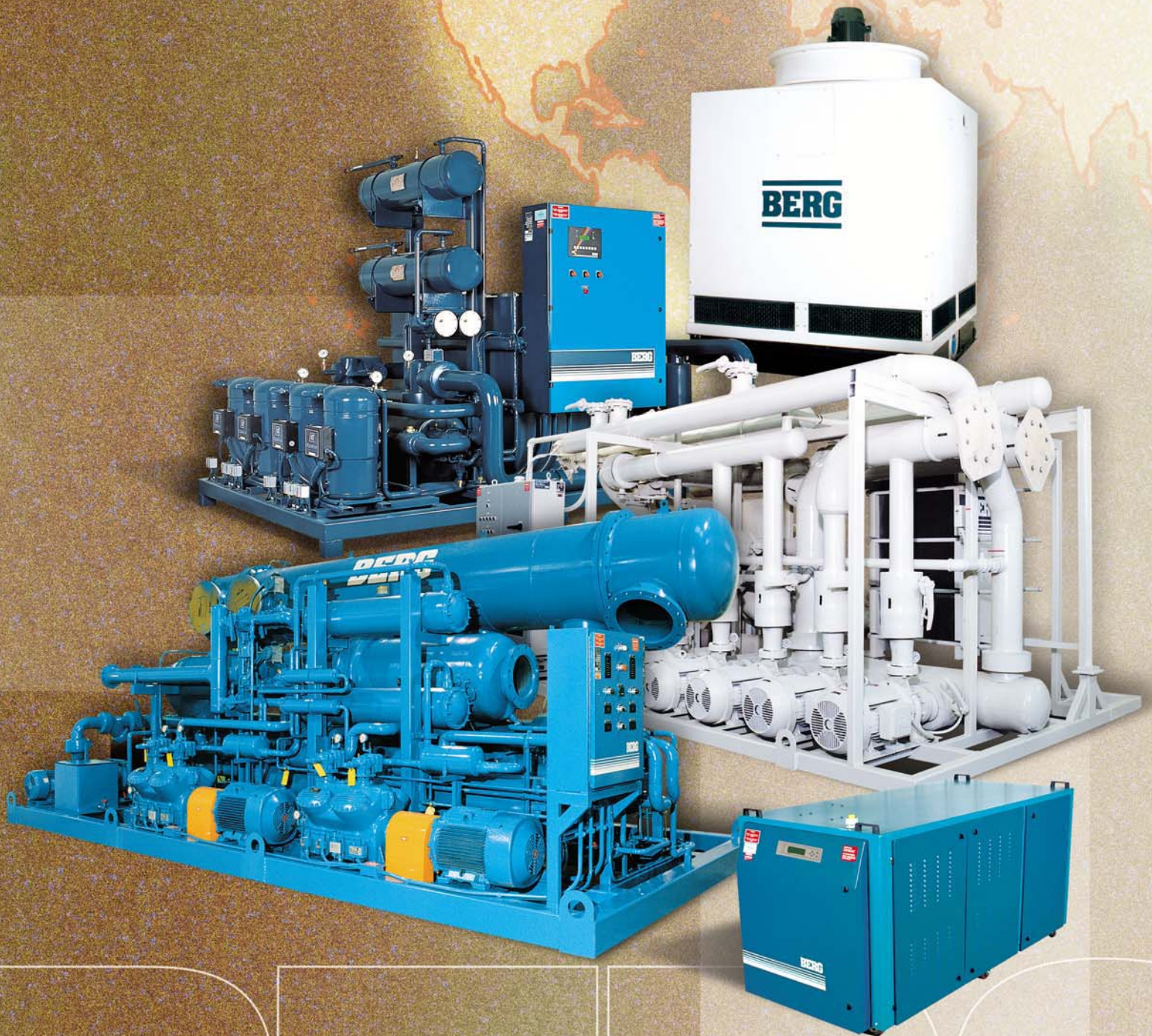


# Total Chilling Solutions

**BERG**  
Chilling Systems Inc.





# Pump/Tank Assemblies

## Pump/Tank Assemblies

Berg offers complete flexibility in pumping systems. Stainless steel reservoirs are mounted on a structural steel base with banding for additional long term structural support. Single and dual loop systems come standard with factory installed valved headers, and pre-wired central control panels, which include: a NEMA 12 enclosure, 120 Volt single phase control voltage, starters, fusing, and UL/CSA approved components.

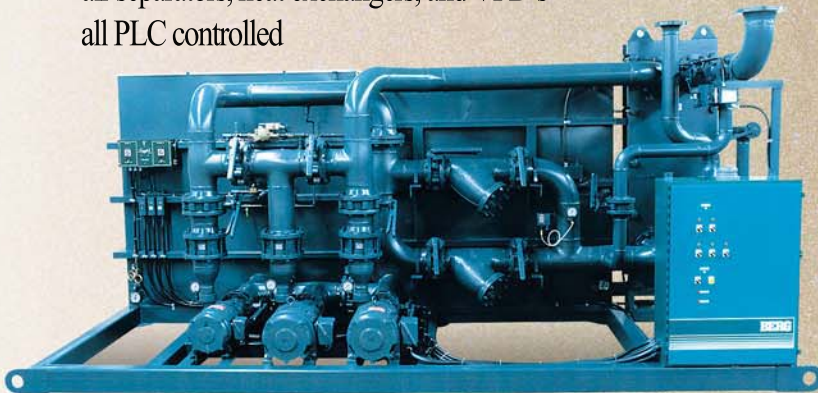
Options available:

- Detachable pump/tank skids to facilitate transportation and installation
- Double ended tank sets
- Dedicated or combined standby pumping
- PLC Controls
- Variable Frequency Drives
- Mounted auxiliaries – Chemical treatment and filtration, heat exchangers
- Custom configurations to meet specific requirements

## Closed Loop Cooling Systems

Maintains clean coolant throughout your process – extending service life, reducing maintenance costs and downtime.

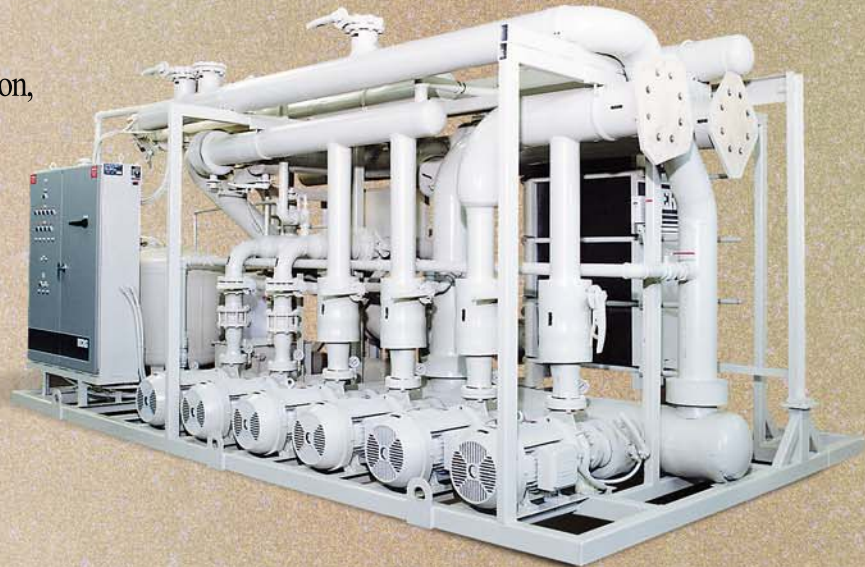
- Reduces/eliminates scaling, liming and corrosion on coils/piping/heat exchangers, etc.
- Full packaged systems can include expansion tanks, air separators, heat exchangers, and VFD's all PLC controlled



Clean-water pump/tank system complete with plate and frame heat exchanger



Single-Ended Tower Tank Package with a common standby pump and chemical treatment package



Multi-pump closed loop process water system

## Specialty Systems

Specialty Systems such as the Clean-Water Tower Tank (shown at left) has separate tanks for tower and process water. A heat exchanger is used to assure clean water is delivered to process. Filtration, chemical treatment packages and PLC controls are available.



# Central and Packaged Chillers

## Central Chillers

Berg offers efficiency, customization and a wide range of cooling capacities to satisfy any central cooling system. Indoor, Outdoor, Remote Air-Cooled and Water-Cooled Central Chillers are available from 20 tons and above.

Depending on the application, semi-hermetic reciprocating, scroll and screw compressors are available. Single and multiple circuits, individual or multi-circuited evaporators can be used.



Air-cooled chiller with two 60hp screw compressors

## Packaged Chillers

Air-cooled (condenser integrated, remote condenser or complete outdoor units) or water-cooled packages come complete with pumping and tank, plus needed auxiliaries mounted for ease of installation and servicing.

Indoor integrated condensers allow for heat recovery in the winter and ventilation in the summer.

Outdoor units save plant space.



Outdoor Air-cooled chiller

## Central & Packaged Chiller Features

- Pre-wired/Pre-piped
- Berg exclusive – all units LOAD TESTED
- Liquid refrigerant receivers c/w head pressure controls for low ambient conditions on air cooled models



Packaged chiller utilizing semi-hermetic reciprocating compressors



# More Berg Solutions

## Cooling Towers

Berg's line of towers are manufactured of extra thick fiberglass and premium quality components to provide years of trouble-free, low maintenance performance. Berg towers include a host of standard features and a structural steel base for ease of installation and hook-up.

- All wetted surfaces are non-ferrous
- Non-moving water distributor with non-clogging nozzles
- Inlet baffles to keep debris and ultra-violet out of the sump
- Efficient low speed propeller fans
- Galvanized towers also available



## Portable Chillers

### Sized from 1 to 40 tons

Berg makes three series of portable chillers, all with a host of standard features that provide an economical solution for your process needs. Available in water or air-cooled, single or dual pump circuits with condensers remote or attached. Berg can customize to meet your specific needs:

- Process pumping to 90psi
- Stand-by pumping
- Single or dual circuited refrigeration loops
- Non-ferrous configurations
- Centrifugal blowers for heat reclaim
- High and low temperature designs
- Factory mounted disconnects

## Temperature Controllers

- Long-life, low-watt density incoloy heaters (9-24kw) resist corrosion better than copper or stainless steel
- High capacity pumps for turbulent flow (3/4 to 7.5 hp) come with bronze or stainless impellers
- Removable top and side panels provide easy access
- Bypass line protects heater and pump if process flow is shut off
- Adjustable water supply pressure switch prevents operation at low supply pressure
- Closed-Loop and Negative Pressure Units available.



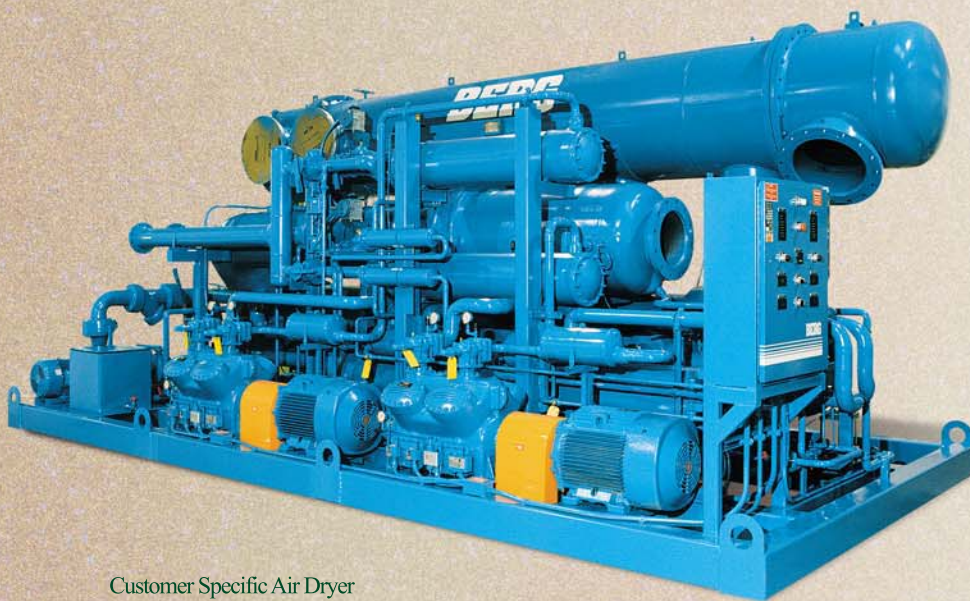
Shown is a 3/4 HP, 9kW TCU unit



# Customer Specific Packages

- Process Evaluation
- Design & Construction
- Installations
- Service & Support
- Multiple PLC Disciplines
- In-house Programming
- UL & CSA Approved
- A wide range of refrigerants available

Engineered to meet your precise requirements, taking into account space limitations, power and water efficiency, temperature, flow and pressure to optimize your process.



Customer Specific Air Dryer  
25,000 CFM, 160 HP refrigeration system

## Auxiliaries

### Blown Film Coolers

- Stainless steel housings
- Automatic two or three way valves
- Energy efficient coil design
- Rugged blowers with close-coupled TEFC motors

#### Optional

- Demister package to reduce moisture carry over
- Non-ferrous connections are available

### Filtration Systems

- Dual action – Fine Particle – Cartridge – Sand & Gravel – “Y” Strainers
- Available in full flow or by-pass format

### Chemical Treatment Systems

- Automatic, proportional chemical feed systems c/w conductivity controlled bleed off and LED display
- Automatic biocide feed systems, data acquisition and communication feature
- Chemical pot feeders
- Glycol feed systems
- Systems can be pre-wired, pre-piped and mounted on tank



1500 CFM unit c/w blower and three-way valve



# The Industrial Process Chilling Experts

Berg was founded in 1972 to provide industrial process cooling solutions. Berg is a highly regarded designer and manufacturer of advanced thermal control solutions in a variety of industries. Following are a few examples:

BERG SERVICE – 24/7/365  
National & International Service Network  
Installations – Start-Up – Service – Parts  
After Hours Number # 416-755-2226  
Fax Number # 416-755-6022  
Email - [bergservice@berg-group.com](mailto:bergservice@berg-group.com)

- Aerospace
- Anodizing
- Automotive
- Bio-Energy
- Brewery
- Chemical/Petro-Chemical
- Concrete
- Die Casting
- Environmental Test Chambers
- Food and Beverage
- Marine
- Metal Working
- Paint Lines
- Packaging
- Pharmaceutical
- Plastics
- Printing
- Pulp & Paper
- Rubber
- Stamping
- Welding/Laser Welding

## INDUSTRIAL PROCESS COOLING

CENTRAL CHILLERS  
PACKAGED CHILLERS  
PORTABLE CHILLERS  
PUMPING SYSTEMS  
FRP TOWERS

## AUXILIARIES

TEMPERATURE CONTROLLERS  
BLOWN FILM COOLERS  
WATER TREATMENT  
SYSTEMS  
FILTRATION SYSTEMS  
ENVIRONMENTAL CHAMBERS

## ICE MARINE FOOD PROCESSING

ICE MACHINES TO 50 TONS  
ICE STORAGE & DISTRIBUTION  
MARINE REFRIGERATION SYSTEMS  
CHILLERS & DX SYSTEMS  
COLD/FREEZER STORAGE ROOMS  
C/W REFRIGERATION



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