

HEAT TRANSFER MODULES

P SERIES TRANSPORTABLE UNITS



Lab units designed for low volume flow with reduced heating/ cooling duties
Transportable single zone units
Or multiple zone systems
Caster or base mounted
Self contained operation
Single point electrical connection

Z SERIES VERTICAL UNITS

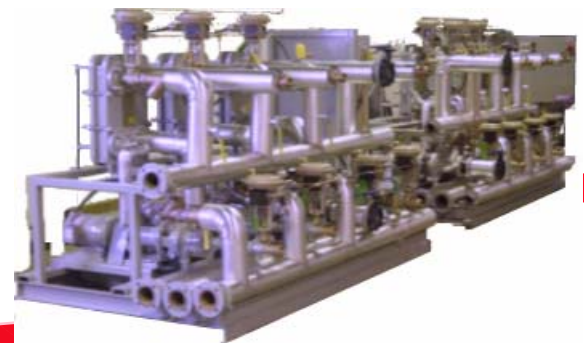
Vertically stacked multiple zone units designed for moderate volume flow and heating/cooling duties
Steel structural frame for vertical design
Self contained independent operation
Single point electrical connection



WATER/GLYCOL TEMPERATURE CONTROL SYSTEMS



Y SERIES HORIZONTAL SYSTEMS



- Generous flow ranges from 3 GPM through 1,500 GPM designs
- -20 to 300 degrees F temperature range
- Industrial duty components for reliability
- Designed for precise temperature control on critical processes
- Single and multiple zones
- Systems designed for higher volume flow heating/cooling, Steam or electric heat
- Closed Loop or Direct Injection Cooling
- General Purpose, Water Tight, and Explosion Proof Designs, controls and electrical class to meet application requirements
- Single Loop PID Controllers or PLC based Systems

Designed for tight temperature control for critical processes
Side by side mounted zones
Single through multiple zones
Systems designed for higher volume flows and heating/cooling
Steam or electric heat
Welded open frame design
Controls and electrical class to meet application requirements
PLC or single loop PID controllers
Single point electrical connection

Website: www.tempest-eng.com

Q Series Thermal Fluid Systems



- Temperature Ranges from -150 to 650 deg F
- Transportable Lab type systems from 10 to 50 GPM
- Skid mounted systems from 60 to 1,200 GPM
- Designed for specific heat transfer media such as Dynalene®, Paratherm, Dowtherm® or Therminol® Products recommended based on fluid characteristics and application criteria
- Positive displacement, centrifugal or magnetic drive pumps
- Electric or Direct Injection from Central Heat source
- Shell & Tube or Plate & Frame cooling exchanger
- Single loop PID or PLC based controls



LIQUID NITROGEN EXCHANGE SYSTEMS
with heating and intermediate mechanical
refrigeration, PLC controlled, stainless
steel components and piping



ENGINEERING & MANUFACTURING

TEMPEST specializes in designing refrigeration systems to fit your particular unique critical process needs whether the unit is for a medium or low temperature application, lab unit or a scaled up version for mass production. Our engineering and manufacturing experience in ammonia and Freon refrigeration is second to none. Packaged systems save costs associated with field erection. Providing single source integrated mechanical/electrical systems for process incorporation.

- Engineers and Fabricators experienced in food, pharmaceutical and fine chemical applications, controls, mechanical piping and refrigeration
- Systems are designed for continuous duty in rugged industrial designs
- ASME Section IX code welders in GTAW, GMAW, SMAW & Orbital welding for stainless and carbon steel pipe. Process piping designs available in ANSI B31.3, refrigeration piping in ANSI B31.5
- Underwriters Laboratories 508 certified electrical control panels
- Project services available include: Validation, Material and Operation Certification, Equipment Approval Drawings, Component Data Sheets, Installation & Operating Manuals, Start Up Service, After the Sale Engineering Support



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