Mission Critical Solutions

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- The need for more efficient, liquid cooling designs has never been greater due to the ever increasing power density of data centers, combined with rising energy costs.
- Taco Comfort Solutions offers energy efficient, **Mission Critical Rated Products** that help data center owners optimize their liquid cooling systems and decrease their maintenance costs and PUE.
- Featuring upgraded materials of construction, Taco's Mission
 Critical Rated Products help data centers increase their
 efficiency, reliability, and longevity.
 - Liquid cooled data center solutions
 - Dielectric fluid compatible
 - Optimizes chiller performance to improve data center efficiency
 - Stainless steel construction
 - Dependable, energy efficient, and corrosion resistant

Data Center Industry Stats



Data Centers use approximately 2% of total U.S. electricity consumption, representing over **70 Billion kWh.** An estimated **40% to 60%** of a data center's operating costs are generated by **humidity** and **temperature control**, according to the DOE.



Data Centers with hydronic cooling components comprise up to 41% of the 2017 market and are

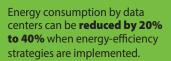
projected to grow 12-15% annually until 2022.

Energy-Efficient KS Series Vertical Split-Coupled In-Line Pumps and FI Series Base-Mounted End Section Pumps

- Easy installation and quiet, dependable performance
- Taco's patented SelfSensing ProBalance[®] technology provides accurate, do-it-yourself system balancing, reducing construction costs, energy usage, and increasing pump life expectancy
- Stainless steel shaft & impeller options
- Energy efficient, ECM motor options from 3HP 60HP, providing longer service life, lower maintenance costs and lower operating temperature
- Upgraded seals including dielectric fluid-ready Ni-Resist/Viton seals

Durable Multi-Purpose (MPT) and Buffer Tanks

- Designed and built to ASME standards
- Corrosion resistant stainless steel construction
- BAS-friendly automatic blow-down valve
- Convenient clean-in-place (CIP) system reduces
 maintenance costs and down time









KS Series

MPT Tank

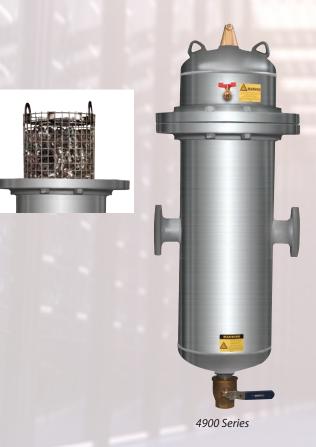
Dependable Plate & Frame Heat Exchangers

- Designed and built to ASME standards
- High-strength, corrosion resistant stainless steel frame plates
- High-strength, corrosion resistant stainless steel heating plates
- Dielectric fluid-ready Viton gaskets

4900 Series High-Efficiency Micro-Bubble Air & Dirt Separator

- Unique PALL ring technology provides superior air and dirt separation
- Designed and built to ASME standards
- BAS-friendly automatic blow-down valve
- Durable stainless steel construction
- Convenient clean-in-place (CIP) system
 reduces maintenance costs and down time







Mission Critical

Tier	KS Series & FI Series Pumps*	MPT Tank**	Buffer Tank**
Tier 1	Cast Iron Casing 125# Flange Connection Ceramic/EPT Seal Stainless Steel Shaft ODP (open drip proof) Motor	125PSI @ 240° F Carbon Steel Construction	125PSI @ 375° F Carbon Steel Construction
Tier 2	Ductile Iron Casing 250# 125# Flange Connection Silicon Carbide/EPT Seal ODP (open drip proof) Motor	Extended Serviceable Life 150PSI @ 240° F Carbon Steel Construction Integral Air Vent with Maintenance Shut-off Valve BAS-Friendly Automatic Blow- Down Valve	Extended Serviceable Life 150PSI @ 240° F Carbon Steel Construction
Tier 3	Ductile Iron Casing 250# 125# Flange Ni-Resist/Viton Seal (dielectric fluid-ready) TEFC (totallly enclosed, fan-cooled) Motor	Extended Serviceable Life 150PSI @ 240° F Carbon Steel Construction Integral Air Vent with Maintenance Shut-off Valve BAS-Friendly Automatic Blow-Down Valve Clean-in-Place (CIP) System	Extended Serviceable Life 150PSI @ 240° F Carbon Steel Construction Automatic Blow-Down Valve Clean-in-Place (CIP) System
Tier 4	Ductile Iron Casing 250# 125# Flange Connection Ni-Resist/Viton Seal (dielectric fluid-ready) ECM High-Efficiency Motor VFD	Extended Serviceable Life 150PSI @ 240° F 304L or 316L Stainless Steel Construction Integral Air Vent with Maintenance Shut-off Valve BAS-Friendly Automatic Blow-Down Valve Clean-in-Place (CIP) System	Extended Serviceable Life 150PSI @ 240° F 304L or 316L Stainless Steel Construction Automatic Blow-Down Valve Clean-in-Place (CIP) System

* SelfSensing ProBalance technology, stainless steel impellers available on all pumps

** Silicon/Fiberglass, Armaflex, Polyisocyanurate, & Aluminum Jacket insulation options on all MPT and Buffer tanks

Rated Products

Plate & Frame Heat Exchanger	4900 Series Air/Dirt Separator	
150PSI @ 230° F 0.35mm 304L or 316L Stainless Steel Heating Plates Carbon Steel Frame Plate, Pressure Plate & Upper Carry Bar Carbon Steel Lower Guide Bar with Stainless Steel Sleeve NBR-HT Gaskets	125PSI & 150PSI @ 240° F Carbon Steel Construction 2" to 36" Line Size	
150PSI @ 230° F & 300PSI @230° F 0.5mm/0.6mm 304L or 316L Stainless Steel Heating Plates Carbon Steel Frame Plate, Pressure Plate & Upper Carry Bar Carbon Steel Lower Guide Bar with Stainless Steel Sleeve NBR-HT Gaskets	Extended Serviceable Life 150PSI @ 240° F Carbon Steel Construction Removable Cover Integral Air Vent with Maintenance Shut-off Valve BAS-Friendly Automatic Blow-Down Valve	
150PSI @ 230° F & 300PSI @230° F 0.5mm/0.6mm 304L or 316L Stainless Steel Heating Plates 316L Stainless Steel Frame Plate Carbon Steel Pressure Plate, Upper Carry Bar Carbon Steel Lower Guide Bar with Stainless Steel Sleeve Viton Gaskets (dielectric fluid-ready)	Extended Serviceable Life 150PSI @ 240° F Carbon Steel Construction Removable Cover Integral Air Vent with Maintenance Shut-off Valve BAS-Friendly Automatic Blow-Down Valve Clean-in-Place (CIP) System	
150PSI @ 230° F & 300PSI @230° F 0.5mm/0.6mm High Strength/High Corrosion Resistant Titanium Heating Plates Duplex 2205 Stainless Steel Frame Plate Carbon Steel Pressure Plate, Upper Carry Bar Carbon Steel Lower Guide Bar with Stainless Steel Sleeve Viton Gaskets (dielectric fluid-ready)	Extended Serviceable Life 150PSI @ 240° F 304L or 316L Stainless Steel Construction Removable Cover Integral Air Vent with Maintenance Shut-off Valve BAS-Friendly Automatic Blow-Down Valve Clean-in-Place (CIP) System	

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