

Mission Critical Solutions





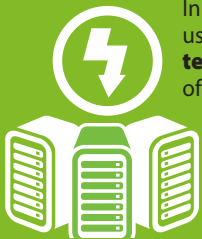
Taco Comfort Solutions offers energy-efficient, Mission Critical Rated Products

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. Our products help data center owners optimize their liquid cooling systems and decrease their maintenance costs and PUE.

Featuring upgraded materials of construction, our Mission Critical Rated Products help data centers increase their efficiency, reliability, and longevity.

- Dielectric fluid compatible
- Optimizes chiller performance to improve data center efficiency
- Stainless steel construction
- Customized thermal energy storage tank solutions

Data Center Industry Stats



In 2020, Data Centers used about **200 terawatt-hours (TWh)** of electricity, making up about 1% of global electricity consumption.

Data centers require **efficient cooling and air conditioning**, accounting for **40%** of its total energy consumption.



Data Center market was \$220 billion in 2021 and is **projected to grow to \$343.6 billion** by 2030 at a CAGR of 5.1%.



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

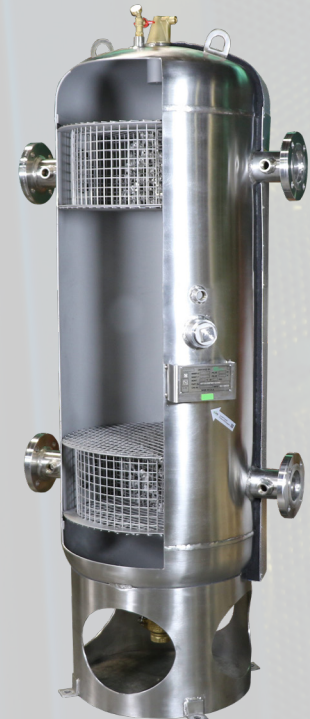


Durable Multi-Purpose (MPT) and Buffer Tanks

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



Buffer Tank



MPT Tank

In 2021, North America Revenue share was **greater than 40%**.



Dependable Plate & Frame Heat Exchangers

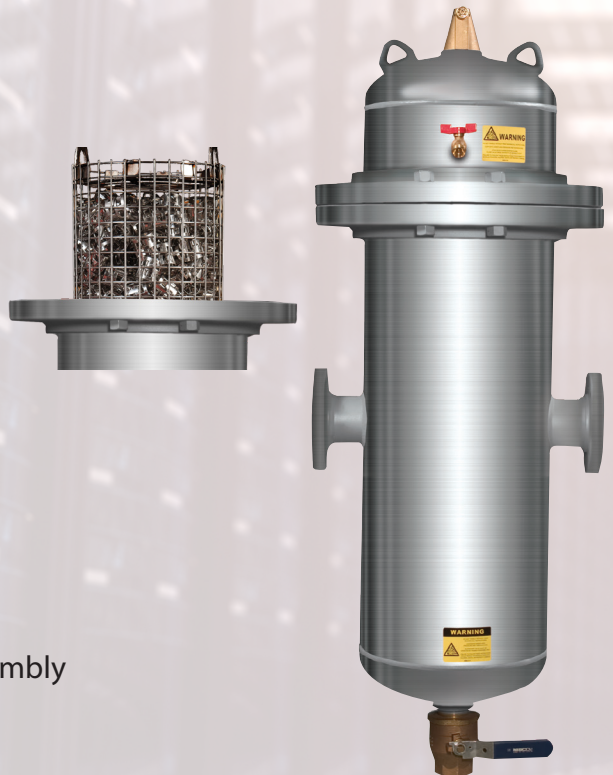
- Designed and built to ASME standards
- High-strength, corrosion resistant stainless steel frame plates
- High-strength, corrosion resistant stainless steel heating plates
- Optional dielectric fluid-ready Viton gaskets



Plate & Frame Heat Exchanger

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

- Patented PALL Ring technology provides superior air and dirt separation
- Designed and built to ASME standards
- BAS-friendly automatic blow-down valve compatible
- Durable stainless steel construction
- Convenient clean-in-place (CIP) system reduces maintenance costs and down time
- Optional on/off style Neodymium magnet assembly



4900 Series

Customized Thermal Energy Storage Tank Solutions

- Reduce first cost and operation cost with smaller UPS footprint
- Constant chilled water temperatures for reliable data center cooling
- Flexible installation configurations



Thermal Energy Storage Tank

We are YOUR PARTNER in collaboration for your specific job requirements

Space Constraints

The right tanks for your needs

Performance Validation (CFD)

Simulation results for performance assurance

Delivery

The right solutions at the right time

Building the best fabricated products in the industry!

Taco's fabrication facility located in Fall River, Massachusetts - USA, manufactures ASME Section VIII Div. 1, ISO 9001 and NSF-61 certified products. **We design, fabricate and test both custom and standard heat transfer units, expansion tanks, air & dirt separators, hydraulic balancers and other specialized pressure vessels.**

The engineering capabilities of our ASME dedicated design team extend even further, fulfilling custom requests to meet unique requirements. Our capabilities and streamlined manufacturing process allow us to **provide quality products and fast, flexible lead times – even emergency replacements.**

With equipment in-house, our capabilities include:

20 Ton

Lifting

1 ¼"

Plate Rolling

5"

Steel Cutting

2 ½"

Stainless Steel Cutting

Unmatched

Welding Precision

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 Compatible	Extended Serviceable Life 150PSI @ 240° F Carbon Steel Construction
Tier 3	Ductile Iron Casing 250# 125# Flange Ni-Resist/Viton Seal (dielectric fluid-ready) Totally Enclosed, Fan Cooled (TEFC) Motor	Extended Serviceable Life 150PSI @ 240° F Carbon Steel Construction Integral Air Vent with Maintenance Shut-off Valve BAS-Friendly Automatic Blow-Down Valve Compatible Clean-in-Place (CIP) System	Extended Serviceable Life 150PSI @ 240° F Carbon Steel Construction Automatic Blow-Down Valve Compatible 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 Variable Frequency Drive (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 Compatible Clean-in-Place (CIP) System	Extended Serviceable Life 150PSI @ 240° F 304L or 316L Stainless Steel Construction Automatic Blow-Down Valve Compatible 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
<p>150PSI @ 284° F</p> <p>0.5mm 304L Stainless Steel Heating Plates</p> <p>Carbon Steel Frame Plate, Pressure Plate & Upper Carry Bar</p> <p>Carbon Steel Lower Guide Bar with Stainless Steel Sleeve</p> <p>NBR-HT Gaskets</p>	<p>125PSI & 150PSI @ 240° F</p> <p>Carbon Steel Construction</p> <p>2" to 36" Line Size</p>
<p>150PSI @ 284° F & 300PSI @ 284° F</p> <p>0.5mm/0.6mm 304L or 316L Stainless Steel Heating Plates</p> <p>Carbon Steel Frame Plate, Pressure Plate & Upper Carry Bar</p> <p>Carbon Steel Lower Guide Bar with Stainless Steel Sleeve</p> <p>NBR-HT Gaskets</p>	<p>Extended Serviceable Life</p> <p>150PSI @ 240° F</p> <p>Carbon Steel Construction</p> <p>Removable Top or Bottom Cover</p> <p>Integral Air Vent with Maintenance Shut-off Valve</p> <p>BAS-Friendly Automatic Blow-Down Valve Compatible</p>
<p>150PSI @ 284° F & 300PSI @ 284° F</p> <p>0.5mm/0.6mm 304L or 316L Stainless Steel Heating Plates</p> <p>316L Stainless Steel Frame Plate</p> <p>Carbon Steel Pressure Plate, Upper Carry Bar</p> <p>Carbon Steel Lower Guide Bar with Stainless Steel Sleeve</p> <p>NBR-HT or Viton Gaskets (dielectric fluid-ready)</p>	<p>Extended Serviceable Life</p> <p>150PSI @ 240° F</p> <p>Carbon Steel Construction</p> <p>Removable Top or Bottom Cover</p> <p>On/Off Style Neodymium Magnet Assembly</p> <p>Integral Air Vent with Maintenance Shut-off Valve</p> <p>BAS-Friendly Automatic Blow-Down Valve Compatible</p> <p>Clean-in-Place (CIP) System</p>
<p>150PSI @ 284° F & 300PSI @ 284° F</p> <p>0.5mm/0.6mm High Strength/High Corrosion Resistant Titanium Heating Plates</p> <p>Duplex 2205 Stainless Steel Frame Plate</p> <p>Carbon Steel Pressure Plate, Upper Carry Bar</p> <p>Carbon Steel Lower Guide Bar with Stainless Steel Sleeve</p> <p>NBR-HT or Viton Gaskets (dielectric fluid-ready)</p>	<p>Extended Serviceable Life</p> <p>150PSI @ 240° F</p> <p>304L Stainless Steel Construction</p> <p>Removable Top or Bottom Cover</p> <p>On/Off Style Neodymium Magnet Assembly</p> <p>Integral Air Vent with Maintenance Shut-off Valve</p> <p>BAS-Friendly Automatic Blow-Down Valve Compatible</p> <p>Clean-in-Place (CIP) System</p>

For more information, please contact:

Ric Turmel

rictur@tacocomfort.com • 813-601-1698

Rich Medairos

ricmed@tacocomfort.com • 401-572-8950



Taco Inc., 1160 Cranston Street, Cranston, RI 02920 • (401) 942-8000
Taco (Canada) Ltd., 8450 Lawson Road, Unit #3 Milton, Ontario L9T 0J8 • (905) 564-9422

www.TacoComfort.com