

COMMERCIAL CATALOG

HEATING, PLUMBING & COOLING SOLUTIONS
POWERED BY WATER





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A Leader in Commercial and Fabricated Solutions

For over 100 years, Taco has been a leader in providing commercial and fabricated solutions for building services.

We offer our customers products and packaged systems with high system efficiency and maximum energy and cost savings. The engineering capabilities of our ASME dedicated design team extend even further, fulfilling custom requests to meet unique requirements. With in-house equipment, we can lift 20 tons, roll 1-1/4" plate, cut 5" steel or 2-1/2" stainless steel, and weld with flawless precision and consistency. These capabilities in conjunction, with our streamlined manufacturing process, allow us to provide quality products and fast, flexible lead times—even emergency replacements.

Taco also utilizes the award-winning B.E.S.T (Building Efficiency Systems Tool), which is a quick, easy and reliable way to compare the energy and life cycle cost of up to four HVAC systems at one time. This helps in the conceptual phase to better evaluate and compare various systems before final design and construction.

Vertical In-line Pumps

Split-Coupled Pumps



KS Series

Designed for optimum performance, easy installation, and simplified maintenance. Change the seal without disturbing the motor or piping. Ideal for HVAC, industrial, and domestic water applications.

FLOW RANGE: 40–12,500 GPM

HEAD RANGE: 10'–380'

MAX. WORKING PRESSURE: 175 PSIG (1210 KPA);
OPTIONAL: 300 PSIG (2070 KPA)

TEMPERATURE: 250°F (120°C), Optional: 300°F (149°C)

HP: ¾–600

SIZES: 1½"–14"



SKS Series

Designed for both constant flow chiller/boiler pumping and secondary variable flow applications. The VFD's SelfSensing capabilities make do-it-yourself system balancing fast, easy, and accurate. Part of the SelfSensing Series with ECM permanent magnet technology for Optimized Efficiency.

FLOW RANGE: .1–7,998 GPM

HEAD RANGE: .1'–282'

MAX. WORKING PRESSURE: 175 PSIG (1210 KPA);
OPTIONAL: 300 PSIG (2070 KPA)

TEMPERATURE: 250°F (120°C), **OPTIONAL:** 300°F (149°C)

HP: 1½–250

SIZES: 1"–10"

NOTE: All pumps are also available with 50Hz or 60Hz motors

Close-Coupled Pumps



KV Series

Pump design provides improved alignment and longer seal life. Hydraulically balanced axial load increases bearing life and pump efficiency, lowering NPSH requirements. Ideal for HVAC and industrial applications.

FLOW RANGE: 10–2,400 GPM

HEAD RANGE: 11'–382'

MAX. WORKING PRESSURE: 175 PSIG (1210 KPA);

OPTIONAL: 300 PSIG (2070 KPA)

TEMPERATURE: 250°F (120°C), -300°F (149°C)

HP: ¾–60

SIZES: 1½"–8"



SKV Series

Designed for both constant flow chiller/boiler pumping and secondary variable flow applications. The VFD's SelfSensing capabilities make do-it-yourself system balancing fast, easy, and accurate. Part of the SelfSensing Series with ECM permanent magnet technology for Optimized Efficiency.

FLOW RANGE: .1–2,400 GPM

HEAD RANGE: .1'–382'

MAX. WORKING PRESSURE: 175 PSIG (1210 KPA);

OPTIONAL: 300 PSIG (2070 KPA)

TEMPERATURE: 250°F (120°C), **OPTIONAL:** 300°F (149°C)

HP: 1½–60

SIZES: 1½"–8"

End Suction Pumps

Based Mounted Pumps



FI Series

Configured with rear pullout design for fast and easy servicing. The exclusive dry shaft design protects the pump shaft from system fluid. Suitable for a variety of applications including heating, air conditioning, pressure-boosting, cooling water transfer, and water supply.

FLOW RANGE: 8–4,800 GPM

HEAD RANGE: 5'–350'

MAX. WORKING PRESSURE: 175 PSIG (1210 KPA);

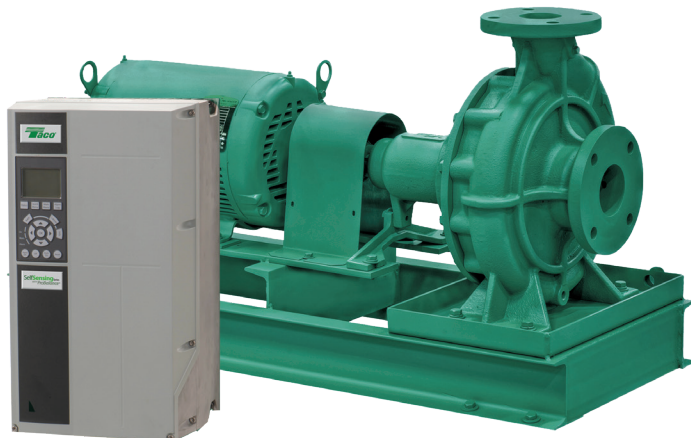
OPTIONAL: 300 PSIG (2070 KPA)

TEMPERATURE: 250°F (120°C)

RPM RANGE: 1160–3500

HP: ½–200

SIZES: 1½"–8"



SFI Series

Configured with rear pullout design for fast and easy servicing. The VFD's SelfSensing capabilities make do-it-yourself system balancing fast, easy, and accurate. Part of the SelfSensing Series with ECM permanent magnet technology for Optimized efficiency.

FLOW RANGE: 8–4,800 GPM

HEAD RANGE: 5'–390'

MAX. WORKING PRESSURE: 175 PSIG (1210 KPA);

OPTIONAL: 300 PSIG (2070 KPA)

TEMPERATURE: 250°F (120°C)

HP: ½–200

SIZES: 1½"–8"

NOTE: All pumps are also available with 50Hz or 60Hz motors

Foot Mounted Pumps



CI Series

Configured with rear pullout design for easy servicing. The exclusive dry shaft design protects the pump shaft from system fluid. Suitable for a variety of applications including heating, air conditioning, pressure-boosting, cooling water transfer, and water supply.

FLOW RANGE: 8–2,500 GPM

HEAD RANGE: 5'–390'

MAX. WORKING PRESSURE: 175 PSIG (1210 KPA);

OPTIONAL: 300 PSIG (2070 KPA)

TEMPERATURE: 250°F (120°C)

HP: ½–60

SIZES: 1½"–6"

SCI Series

Configured with rear pullout design for fast and easy servicing. The VFD's SelfSensing capabilities make do-it-yourself system balancing fast, easy, and accurate. Part of the SelfSensing Series with ECM permanent magnet technology for Optimized Efficiency.

FLOW RANGE: 8–2,500 GPM

HEAD RANGE: 5'–390'

MAX. WORKING PRESSURE: 175 PSIG (1210 KPA);

OPTIONAL: 300 PSIG (2070 KPA)

TEMPERATURE: 250°F (120°C)

HP: ½–60

SIZES: 1½"–6"

Optimized Efficiency Oe Package

Take your system to the next level with our Optimized Efficiency Packages

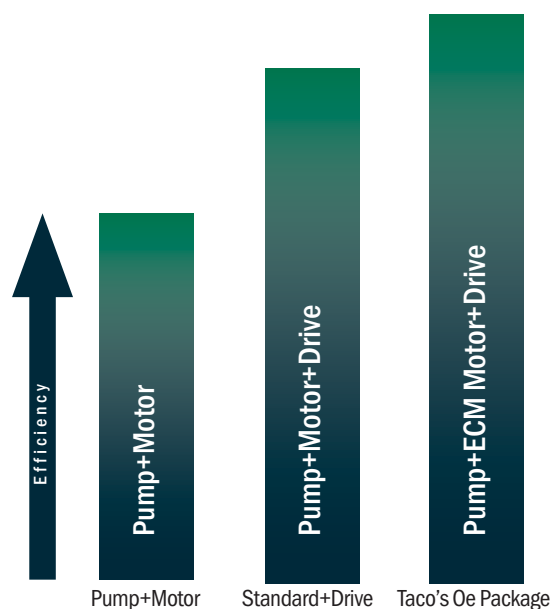
In today's environment, hydronic systems need to be up to date with the latest technology. The market is now driven towards high-efficiency solutions by ever-increasing regulations and environmental factors. Whether you need the best efficiency to combat high utilities or to reduce your carbon footprint, Taco has you covered.

By utilizing Permanent Magnet motor technology, Taco is bringing the largest ECMs available to the hydronic industry. In combination with our pumps, we aim to optimize your overall efficiency with the latest technology available. Don't get caught wishing you had a more efficient system, lead the charge with pumps that exceed regulations, utilize the latest technology available, and decrease total cost of ownership.

A Variable Frequency Drive is required to operate the Permanent Magnet motor. The Oe package cannot be sold without a drive.

Features

- ➔ **HORSEPOWER RANGE:** 3-10hp
- ➔ **RPM:** 1750
- ➔ **VOLTAGE OPTIONS:** 230V/460V/60/3
- ➔ **MOTOR ENCLOSURE TYPE:** TEFC
- ➔ **DRIVE ENCLOSURE OPTIONS:** NEMA 1, NEMA 12, NEMA 4X



Benefits

- ➔ Longer service life, more uptime & higher reliability
- ➔ Increased performance, quieter & smoother operation
- ➔ Reduced lubrication frequency, resulting in lower maintenance costs
- ➔ Low operating temperature
- ➔ Flatter motor efficiency profile than the equivalent induction motor as the speed & load decline

Increase Total Efficiency

Taco not only meets, but exceeds the regulations passed down by the DOE.

In doing so, we also deliver a complete package to our users that saves on energy and the environment.

Our Oe package is simple, we take our pump, add a Permanent Magnet motor, and top the equipment off with a drive to increase your savings at slower speeds!

Oe Package including SelfSensing

Everything the Oe package has to offer and the added benefits of the Taco programmed SelfSensing drives!

Increase your performance with the Taco SelfSensing drives included with the Permanent Magnet motor pumps for the best energy rating Taco has to offer. The added benefits of DIY balancing will decrease the total cost of ownership over the lifetime of the pump.



Vertical Turbine Series

Provide ultimate **reliability** and **ease of installation** in applications including condenser water, chilled water, water transfer, pressure boosting, and water supply. Quiet, dependable, with proven performance.

FLOW RANGE: 50–15,000 GPM

HEAD RANGE: 6'–1,800'

WORKING PRESSURE: 200 PSIG (1379 KPA)

TEMPERATURE: 140°F (60°C)

HP: 5–600

CONNECTION SIZES: 5"–21"

FLANGE: ANSI 150 lb.



NOTE: All pumps are also available with 50Hz or 60Hz motors

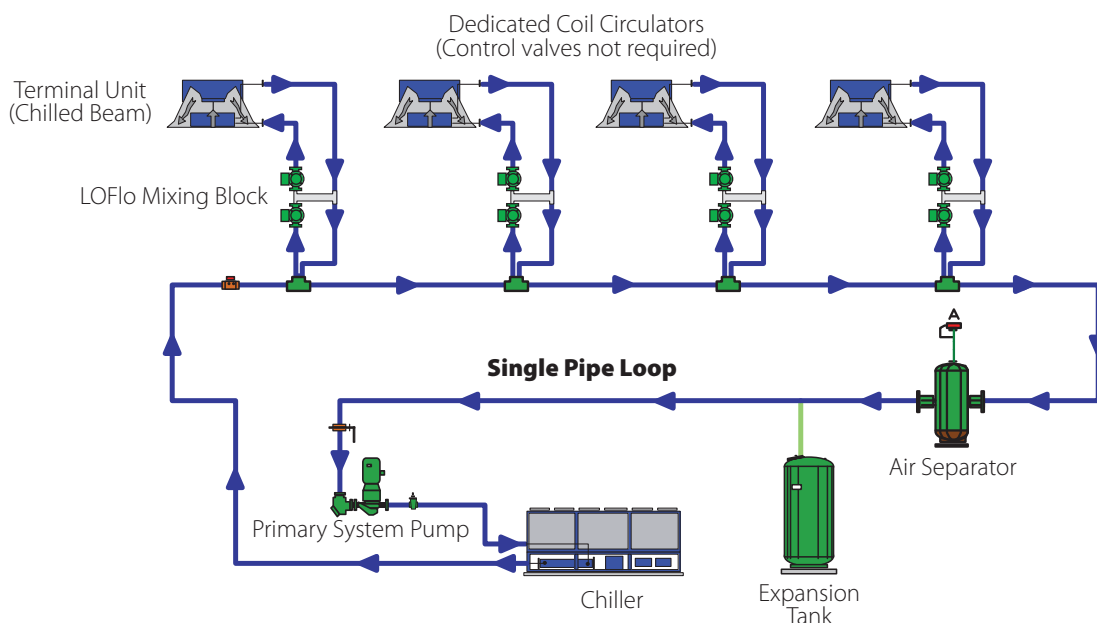
Cartridge/Wet Rotor Circulators



LOFlo® Injection Pumping

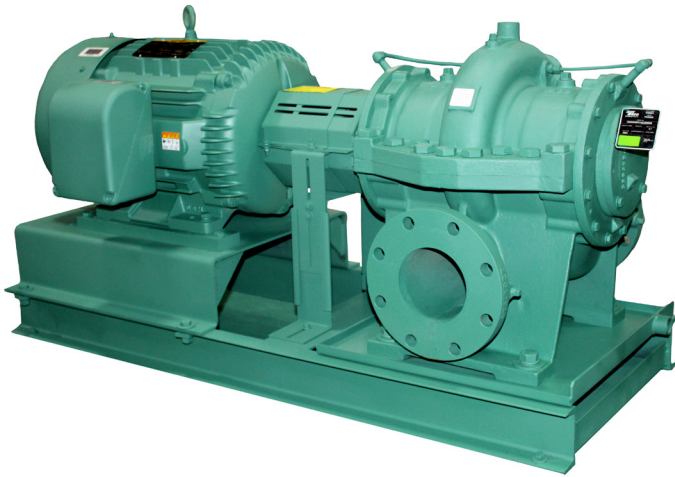
The Taco LOFlo Injection Pumping System is used in hydronic heating and cooling systems to significantly reduce the flow of water. Typically used in radiant panel (ceiling, wall, or floor) and chilled beam (passive and active) applications, the technology significantly reduces pump flows and pipe sizes for reduced energy consumption and lower first costs. In addition, the LOFlo Injection Pumping System also provides precise control of supply water to the terminal, e.g., chilled beam, and precise control of room temperatures.

The basic concept of the LOFlo Mixing Block, shown here, is to provide a complete injection mixing station in a simple factory-assembled package. Each individual zone is controlled at the lowest possible flow rate by maintaining the highest possible supply water temperatures in cooling and lowest possible supply water temperatures in heating.



Large Split Case Pumps

Horizontal Split Case Pumps



HS Series

The ultimate in reliability and ease of installation and serviceability for heating, air conditioning, pressure boosting, cooling water transfer, and water supply applications.

Quiet, dependable, proven performance and high efficiency. The mechanical seal and bearings can be easily removed without disturbing the top casing. Rigid engineered shaft design has low deflection at all operating points resulting in long running life.

FLOW RANGE: 100–2,000 GPM

HEAD RANGE: 10'–250'

MAX. WORKING PRESSURE: 175 PSIG (1210 KPA);
OPTIONAL: 300 PSIG (2070 KPA)

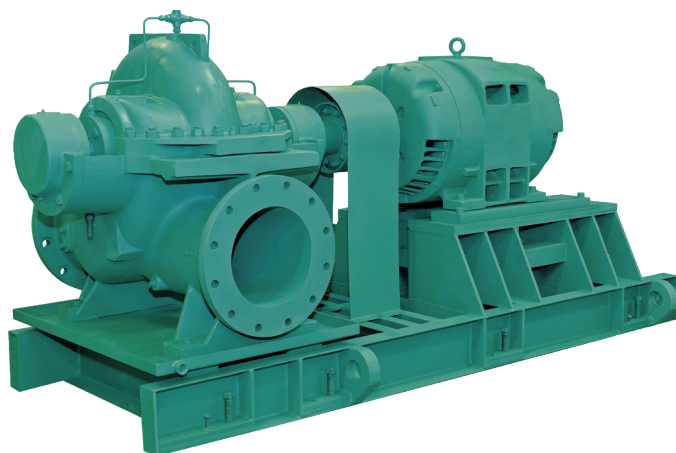
TEMPERATURE: 250°F (120°C)

HP: 10–100

SIZES: 6"

NOTE: All pumps are also available with 50Hz or 60Hz motors

Single-Stage, Double-Suction Horizontal Pumps



GT Series

The ultimate in reliability and ease of installation for heating, air conditioning, pressure boosting, cooling water transfer, and water supply applications. Quiet, dependable, and proven performance.

FLOW RANGE: 1,800–18,000 GPM

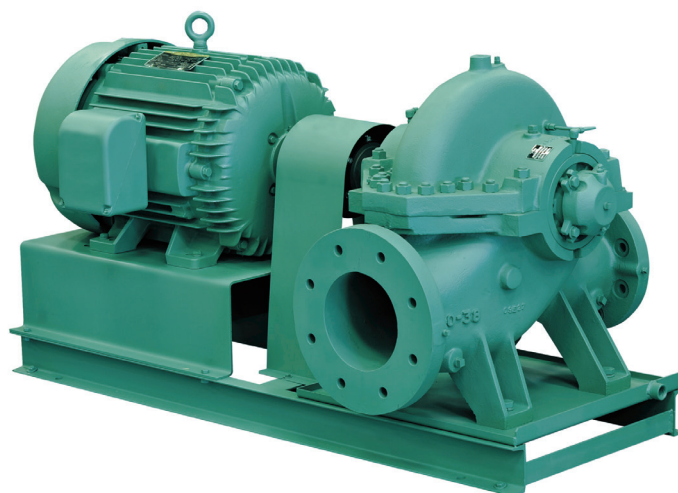
HEAD RANGE: 25'–430'

MAX. WORKING PRESSURE: 175 PSIG (1210 KPA);
Optional: 300 PSIG (2070 KPA)

TEMPERATURE: 250°F (120°C)

HP: 50–1,500

SIZES: 10"–18"



TA Series

A new, modular construction technique, these pumps are a major advancement in pump design. With just three basic bearing and shaft modules, there are multiple seal and construction options for application flexibility, simplified maintenance, and design versatility to accommodate future performance needs.

FLOW RANGE: 40 – 5,800 GPM

HEAD RANGE (FT): 10' – 380'

TEMPERATURE: 250°F (standard); 300°F (optional)

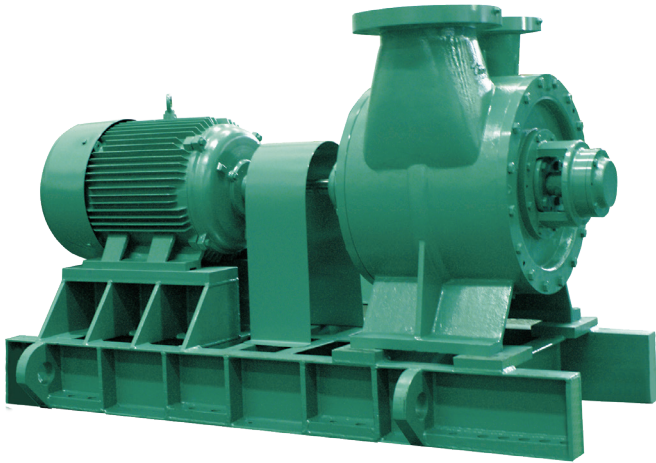
WORKING PRESSURE: 300 PSIG

HP: 3 – 400

SIZES: 2" – 12"

Large Split Case Pumps

Single-Stage, Double-Suction Vertical Pumps



TC Series

Provides the ultimate in reliability and ease of installation for heating, air conditioning, pressure boosting, cooling water transfer, and water supply applications. The TC Series' top suction and discharge make this product line the ideal choice for minimizing your installation footprint.

Frame-mounted pumps featuring high efficiency, rugged construction, compact design, foot-mounted volute, center drop-out coupler, and re-greaseable bearings. These features, along with the vertically split case make installation, operation, and service easy to perform.

FLOW RANGE: 70–11,000 GPM

HEAD RANGE: 10'–560'

MAX. WORKING PRESSURE: 175 PSIG (1210 KPA);

OPTIONAL: 300 PSIG (2070 KPA)

TEMPERATURE: 250°F (120°C)

HP: 2–800

SIZES: 3"–14"



TS Series

The ultimate in reliability and ease of installation for heating, air conditioning, pressure boosting, cooling water transfer, and water supply applications. The TS Series' side inlet connection and top outlet connection make this product line an ideal choice for minimizing your installation footprint.

Frame-mounted pumps featuring high efficiency, rugged construction, compact design, foot-mounted volute, center drop-out coupler, and re-greaseable bearings. These features along with the vertically split case make installation, operation, and service easy to perform.

FLOW RANGE: 70 – 11,000 GPM

HEAD RANGE: 10'–560'

MAX. WORKING PRESSURE: 175 PSIG (1210 KPA);

OPTIONAL: 300 PSIG (2070 KPA)

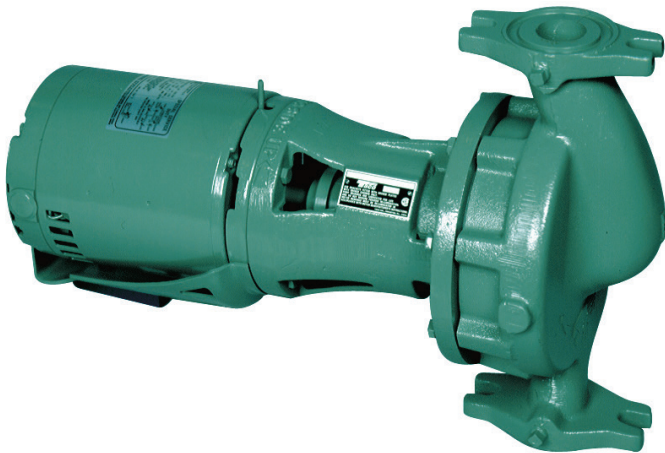
TEMPERATURE: 250°F (120°C)

HP: 2–800

SIZES: 3"–14"

NOTE: All pumps are also available with 50Hz or 60Hz motors

In-line Pumps



1600 Series (Loadmatch compatible)

Featuring a replaceable, permanently lubricated bearing cartridge and the exclusive cool-bearing cartridge design isolates the bearing from the effects of system temperatures to greatly extend bearing life. A standard bearing design also means that a single-bearing cartridge can be used to service the entire line, making servicing a snap.

FLOW RANGE: 20–200 GPM

HEAD RANGE: 10'–68'

WORKING PRESSURE: 175 PSI with cold water,
125 PSI at rated temperature

TEMPERATURE: 250°F (120°C), 300°F (149°C) with
Hi-Temp Seal

HP: ¼–3

SIZES: 1½"–2"



1900 Series (Loadmatch compatible)

Meets the latest industry standards for hydraulic performance and reliability and is designed to be energy efficient and fit anywhere in the piping layout. The 1900 Series® Close-Coupled In-Line Pump is self-supported by the piping and can be installed horizontally or vertically. The pump and sealed ball-bearing motor are maintenance-free. Rear pull-out design and standard motor simplify servicing and a single seal and shaft sleeve fits all models.

FLOW RANGE: 7–280 GPM

HEAD RANGE: 6'–164'

WORKING PRESSURE: 175 PSI in accordance with ASA
B16.1

TEMPERATURE: 250°F (120°C), 300°F (149°C) with
Hi-Temp Seal

HP: ¼–7½

SIZES: 1½"

NOTE: All pumps are also available with 50Hz or 60Hz motors

In-line Pumps



110-120 Series

Designed to efficiently circulate heated or chilled water in residential or light commercial Hydronic Systems. These 110-120 Series In-Line Circulators may also be used for zoning large installations and are available in bronze or stainless steel construction for domestic hot water applications. 110-120 Series In-Line Circulators demonstrate proven performance, dependability, quiet operation, and long-lasting performance.

FLOW RANGE: 0-68 GPM

HEAD RANGE: 0'-22'

MAX. WORKING PRESSURE: 125 PSI

TEMPERATURE: 240°F (116°C)

HP: 1/12, 1/8, 1/6, 1/3

CONNECTION SIZES: 3/4"-2"



121-138 Series

With millions in service and backed by more than five decades of experience, the Taco 121-138 Series In-Line Circulators have earned their reputation for proven performance and dependable, quiet operation. These circulators are designed to efficiently circulate heated or chilled water in a full range of residential and commercial hydronic and solar systems; including zoning large installations, primary-secondary systems, and parallel pumping designs. These rugged workhorses are available in sizes and configurations to meet all your needs, including stainless steel construction for freshwater service.

FLOW RANGE: 0-160 GPM

HEAD RANGE: 0'-40'

MAX. OPERATING PRESSURE: 150 PSI

TEMPERATURE: 250°F (120°C)

HP: 1/4-1

CONNECTION SIZES: 2 1/2"-3"

NOTE: All pumps are also available with 50Hz or 60Hz motors



1900 VFD Series (Loadmatch compatible)

Meets the latest industry standards for hydraulic performance and reliability and is compact, energy-efficient, and can be installed anywhere in the piping layout. The variable frequency drive (VFD) on the 1900 VFD Series Close-Coupled In-Line Pump operates your buildings with greater efficiency; using them to control your pumps can significantly reduce energy costs. The VFD can reduce the motor speed when full flow is not needed, thereby reducing the power required and the electrical energy used.

FLOW RANGE: 10–270 GPM

HEAD RANGE: 50'–160'

WORKING PRESSURE: 175 PSI in accordance with ASA B16.1

TEMPERATURE: 250°F Standard, 300°F with Hi-Temp Seal

HP: ¼–7½

SIZES: 1"–2"



2400 Series

Specifically designed for quiet, efficient, dependable operation in a wide range of medium to high flow/head hydronic heating, chilled water cooling, and hot water recirculation applications. The space-saving, close-coupled, maintenance-free motor with permanently lubricated, sealed-for-life bearings, stainless steel shaft, Noryl® impeller, and durable, carbon/silicon-carbide mechanical seal provide unmatched reliability. Available in Cast Iron or Stainless Steel construction.

FLOW RANGE: 0–90 GPM

HEAD RANGE: 0'–46'

MIN. FLUID TEMP: 40°F (4°C)

MAX. FLUID TEMP: 225°F (107°C)

MAX. WORKING PRESSURE: 150 PSI

HP: ½, 1/3, 1/6, 1/10

CONNECTION SIZES: ¾"–3"

ECM High-Efficiency Series



1900e® High-Efficiency Series

Self-sensing, close-coupled, mechanically sealed in-line circulator pumps that exceed industry and efficiency standards with an advanced hydraulic design. They feature an ECM motor and integrated frequency drive. Simple yet versatile control options include constant pressure, constant speed, proportional pressure, 0-10Vdc, and parallel pump alternation. These standard features combined with the intuitive user interface allow for quick start-ups achieving optimum system efficiency and maximum comfort. These pumps are available in Ductile Iron for closed-loop hydronic heating and cooling systems or Stainless Steel, NSF Commercial Hot Certified for DHW applications.

MAX. SHUT-OFF HEAD: 1911ecm: 50'
1915ecm: 65'

MAX. FLOW: 1911ecm: 105 GPM
1915ecm: 120 GPM

MAX. OPERATING PRESSURE: 175 PSI
(12 bar)

WATER TEMPERATURE RANGE: 36° to
230° F (2 to 110° C)

AMBIENT TEMPERATURE RANGE: 32°
to 104° F (0 to 40° C)

AMBIENT HUMIDITY: Less than 95% RH
(Indoor Use Only)



Stainless Steel models only

NOTE: All pumps are also available with 50Hz or 60Hz motors



00e® High-Efficiency Series VR 15-30

ECM high-efficiency, wet-rotor, self-sensing commercial circulators ideal for HVAC and potable water applications. The wide range of models with Low, Medium, or High head options provides differential head pressures up to 65 ft. and flow ranges up to 320 GPM. BMS communication with Modbus, BACnet, 0-10Vdc, and PWM comes standard while high-efficiency ECM technology reduces power consumption by up to 85%. The stainless steel models are NSF 61 & 372 domestic and commercial hot rated.

FLOW RANGE: 0-320 GPM

HEAD RANGE: 0'-65'

MAX. OPERATING PRESSURE: 175 PSI

WATER TEMP. RANGE: 36°-230°F
(2.2°-110°C)

AMBIENT OPERATION TEMP. RANGE:
32°-104°F (0°-40°C)

HP: 0.4-2.1

CONNECTION SIZES: 1½"-3"



Stainless Steel models only

Electronic Controls, Accessories & Valves

Clarity3®

Simple, Turn-Key BAS Solution Designed Around the User, Not the Hardware.

Taco's industry-leading Clarity3® control platform can provide powerful control options for any property and can be integrated into existing building controls through our GCE integration platform. This means seamless integration with most control manufacturers and advanced building analytics. Clarity3® by Taco's Innovative Energy Solutions helps building owners find, learn, and act. Rely on Taco to help you take control of your building. Choose the system that is simple to use, narrowing the focus to what you truly need. Easy-to-use dashboards make reporting easy to understand enabling owners to act on reliable information. Clarity3® open protocol integration capability means you are no longer tied to proprietary systems or single source suppliers. You'll get an objective analysis of the most cost-effective way to improve your building automation system.



For the building owner:

FIND: Quickly narrow your focus.

LEARN: Easy-to-use dashboards, reports, and graphics.

ACT: Command, modify, or watch features.

For the controls integrators:

SIMPLE: Easy to install, allows you to be mobile.

STANDARDIZED: Follows standards but allows for customization.

SCALABLE: To all building types.

SmartDrive+TSL

No one knows more about controlling pumps than the people who make the pumps. That's why our variable speed SmartDrives deliver the finest precision performance for maximum system efficiency and reduced life cycle costs. There's a SmartDrive that's perfect for your application. SmartDrive HVAC is upgradeable with Taco System Logic (+TSL) software to control VFDs in applications such as Delta T or Delta P, geothermal hot/cold changeover, or domestic water boosters.

SmartDrive
Basic Drive



SmartDrive
HVAC Drive



SmartDrive
SP Side Panel Bypass



SmartDrive
VP Vertical Panel Bypass



+TSL +TSL upgrade is available



Plus Two Multi-Purpose Valve

Offers performance— low-pressure drops that are equal to or better than any valve on the market today—and convenience: You can replace the stem seal packing under full system pressure. Made of ductile iron with stainless steel and bronze fitted construction to provide years of trouble-free service.

RANGE FLOW: 20–10,000 GPM

WORKING PRESSURE: 175 PSI, 300 PSI

CONNECTION SIZES: 1½", 2", and 2½", threaded, 3"–14", flanged



Accu-Flo Balancing Valve

Taco Accu-Flo Balancing Valves use a modified venturi design to deliver four to five times greater accuracy than most conventional balancing valves. Flow Measurement is independent of stem and ball position, and the tamper-resistant memory stop provides accurate resetting. With a calibrated nameplate for presetting, all-brass interior parts, precision machining, and 100% factory testing, these valves are the highest-quality fixed-port venturi balancing valves on the market today.

FIXED-PORT VENTURI BALANCING VALVE

BRONZE BODY (½"–2", Sweat and NPT)

CAST IRON BODY (2½", 3", 4", Flanged)

Electronic Controls, Accessories & Valves



Suction Diffuser Rear Strainer Pullout (RSP)

Incorporates numerous features into one device that simplifies installations and reduces costs. It is a flow-straightening device that provides maximum flow efficiency at the suction inlet of the pump. At the same time, it reduces space and fitting requirements and eliminates the need for an equivalent length of ten pipe diameters of straight run on the suction side of the pump. It is an elbow (and in some cases a reducing elbow) with a built-in strainer that is easily maintained and will provide years of trouble-free system performance.

FLOW RANGE: 20–10,000 GPM

WORKING PRESSURE: ANSI Class 125 Flanged units–175 PSI, ANSI Class 250 Flanged units–300 PSI

CONNECTION SIZES: 1½"–16"



DPS629

SmartDrives with +TSL Delta-P programs come preprogrammed with all the Taco DPS629 information. Sensor connects directly to VFD.

FLOW RANGE: 70-11,000 GPM

ACCURACY: +0.5% F.S. (includes linearity, hysteresis & repeatability)

TEMPERATURE LIMITS: 0 to 200°F (-18 to 93°C).

COMPENSATED TEMPERATURE LIMITS: 0 to 175°F (-18 to 79°C).

PRESSURE LIMITS: 0-25 PSI with an overpressure limit of 250 PSI

THERMAL EFFECT: 0.02%/°F (0.036%/°C) includes zero span

POWER REQUIREMENTS: 13-30 VDC (2-wire)

OUTPUT SIGNAL: 4 to 20 mA. Optional 0-5, 0-10 VDC



DPS3100D

ACCURACY: ±0.075% FS (@ 20°C)

RANGE ABILITY: 100:1 turn down

STABILITY: ±0.125% FSO/Year

TEMPERATURE LIMITS:

PROCESS

-40 to 248°F (-40 to 120°C)

AMBIENT

Without LCD: -40 to 185°F (-40 to 85°C)

With LCD: -22 to 176°F (-30 to 80°C)

MAX. PRESSURE RANGE:

-14.5 to 2000 PSI

Burst Pressure: 10,000 PSI

THERMAL EFFECT: ±0.125% span/32°C

POWER REQUIREMENTS: 11.9 to 45 VDC

OUTPUT SIGNAL: 4 to 20 mA

Mission Critical Solutions

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.

- » More Efficient Power Usage
- » Dielectric Fluid Compatibility
- » Stainless Steel Construction
- » Thermal Energy Storage
- » Decreased Maintenance Costs



Mission Critical Solutions



Tier	KS Series & F1 Series*	MPT Tank**	Buffer Tank**	Plate & Frame Heat Exchanger	4900 Series Air/Dirt Separator
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	25PSI @ 375° F Carbon Steel Construction	150PSI @ 284° F 0.5mm 304L 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
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	150PSI @ 284° F & 300PSI @ 284° 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 Top or Bottom Cover Integral Air Vent with Maintenance Shut-off Valve BAS-Friendly Automatic Blow-Down Valve Compatible
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	150PSI @ 284° F & 300PSI @ 284° 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 NBR-HT or Viton Gaskets (dielectric fluid-ready)	Extended Serviceable Life 150PSI @ 240° F Carbon Steel Construction Removable Top or Bottom Cover On/Off Style Neodymium Magnet Assembly Integral Air Vent with Maintenance Shut-off Valve BAS-Friendly 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	150PSI @ 284° F & 300PSI @ 284° 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 NBR-HT or Viton Gaskets (dielectric fluid-ready)	Extended Serviceable Life 150PSI @ 240° F 304L Stainless Steel Construction Removable Top or Bottom Cover On/Off Style Neodymium Magnet Assembly Integral Air Vent with Maintenance Shut-off Valve BAS-Friendly Automatic Blow-Down Valve Compatible Clean-in-Place (CIP) System

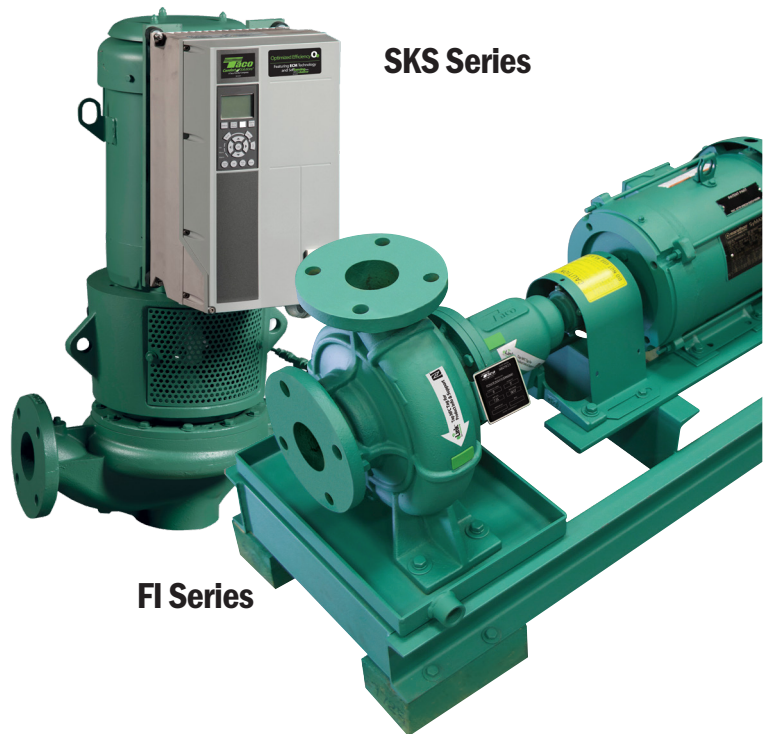
* SelfSensing technology, stainless steel impellers available on all pumps

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

Mission Critical Solutions

Pumps and FI Series Base-Mounted End Section Pumps

- Easy installation and quiet, dependable performance
- Taco's patented SelfSensing technology provides accurate, do-it-yourself system balancing, reducing construction costs, energy usage, and increasing pump life expectancy
- Stainless steel shaft and 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



SKS Series

FI Series



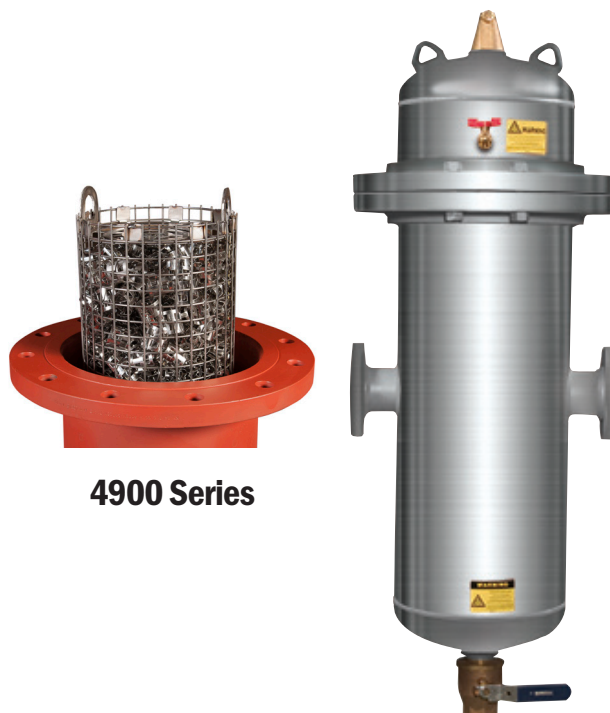
Plate & Frame Heat Exchanger

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

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



Thermal Energy Storage Tank

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

Fabricated Products

A Culture of **Pride**

For over 100 years, Taco has been committed to designing and manufacturing innovative and dependable HVAC, plumbing, and industrial solutions.

Taco's 120,000 sq. ft. 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.

We are **YOUR PARTNER**
for peace of mind in meeting your
specific job requirements

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.

-
- We are YOUR PARTNER in collaboration for your specific job requirements
 - Performance Validation (CFD)
 - Simulation results for performance assurance
 - Delivery

The right solutions at the right time

Fabricated Products

Engineering **Capabilities**

The engineering capabilities of our ASME dedicated design team extend even further, fulfilling custom requests to meet unique requirements.

With equipment in-house, we can lift 20 tons, roll 1-1/4" plate, cut 5" steel or 2-1/2" stainless steel, and weld with flawless precision and consistency. These capabilities, with our streamlined manufacturing process, allow us to provide quality products and fast, flexible lead times—even emergency re-placements.

All phases of the fabrication process are handled by our team of experienced professionals. Their skill and expertise stem from a culture of pride and close attention to detail, resulting in industry-leading quality and customer satisfaction.

Becoming part of the Taco Family opens the door to a vast network of support. Questions can be answered with a phone call to our knowledgeable support staff. System and product trainings are offered throughout the year to help advance your professional development. We believe in the shared success of all members of the Taco Family, and that includes you.

Taco Tags

The award-winning Taco Tags use QR Code technology to provide you with all relevant information, for a specific product, right on your phone. Detailed specifications, technical documents, instruction manuals, how-to videos, and more, are all quickly and easily accessible. This digital library contains the most up-to-date information for that specific piece of equipment.

By utilizing the power of Taco Tags, Taco is ensuring you have the resources you need to make fast, informed decisions in the field, increasing your productivity while saving you time.

Taco Tags set a new standard for customer support and in 2019 they received the AHR Expo Innovation Award for the most inventive product and technology.



- Product Specifications
- CAD/REVIT Files
- Submittal Sheets
- Repair Parts Info
- Order Info
- Technical Support
- Taco Rep Info
- Catalog Sheets

Heat Exchangers

PF Series Plate & Frame



**Stainless
Steel PF
Series**

Taco PF Series Plate & Frame Heat Exchangers are designed, constructed, and tested to ASME Section VIII, Div. 1 requirements. Our digital product selection app helps you choose the right plate & frame heat exchanger for the job.

CONNECTION SIZES: 1"–20"

WORKING PRESSURE: 150, 300 PSI *

MAX STANDARD OPERATING TEMP: 230°F †

TB Series Brazed Plate



Rugged, reliable Taco Brazed Plate Heat Exchangers represent the latest technology in high-performance heat transfer products. These compact units feature copper-brazed, Stainless Steel plates that offer a highly efficient, low-fouling transfer service. Optional ASME Section VIII, Div. 1 certified models available.

CONNECTION SIZES: $\frac{3}{4}$ "–6"

* Optional Higher Pressures Available

† Optional Higher Temperatures Available

Shell & Tube



Taco U-Tube Liquid to Liquid Heat Exchangers are designed, constructed and tested to ASME Section VIII, Div. 1 requirements. Computerized product selection helps you choose the heat exchanger that is just the right fit for your application requirements.

SINGLE WALL & LEAK GUARD DOUBLE WALL

STEAM TO LIQUID—LIQUID TO LIQUID

DIAMETERS: 4"–30"

MAX. STANDARD LENGTH: 10'

WORKING PRESSURE: 150 PSI*

MAX. STANDARD OPERATING TEMP: 375°F †

Tank Heating Units



Taco Tank Heating Units are available in a wide range of materials to meet your application needs. All fabrication is done in-house to assure the highest high levels of quality.

SINGLE WALL & LEAK GUARD DOUBLE WALL

DIAMETERS: 4"–20"

MAX. STANDARD LENGTH: 10'

WORKING PRESSURE: 150 PSI*

MAX. OPERATING TEMP: 375°F †

* Optional Higher Pressures Available

† Optional Higher Temperatures Available

Air & Dirt Separators

Air Separators



Rid your system of free and entrained air with Taco AC/ACF in-line Air Separators. Taco AC/ACF Series In-Line Air Separator deliver all the quality and performance you expect from Taco products. Through the use of its internal baffle design, AC/ACF Series In-Line Air Separators work great in both constant and variable flow systems.

CONNECTION SIZES: 2"–36"

WORKING PRESSURE: 125, 150, 250, 300 PSI* Max.

OPERATING TEMP: 375°F†

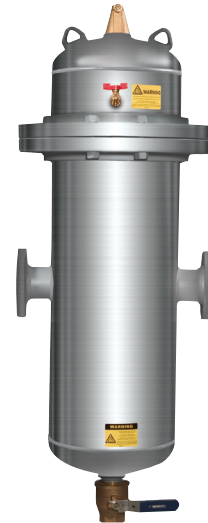
* Optional Higher Pressures Available
† Optional Higher Temperatures Available

4900 Series® Air & Dirt Separators

Stainless Steel 4900 Series Air & Dirt Separator



Patent# 5, 123, 938



4900 Series Air & Dirt Separator with Switchable On/Off Magnet

Taco 4900 Series Air/Dirt Separators utilize stainless steel PALL rings to rid systems of free, entrained and dissolved gases as well as particle separation helping ensure long lasting and efficient system operation. An optional on/off neodymium magnet assembly allows for easy maintenance reducing the time and effort required to collect and flush magnetite from your system.

Stainless Steel PALL Rings provide micro air bubble removal to 18 microns.

Dirt and other particle removal below 5 microns.

CONNECTION SIZES: 2"–36"

WORKING PRESSURE: 125, 150 PSI*

MAX. OPERATING TEMP: 240°F †

Optional removable Heads & PALL Ring baskets (recommended on open systems)

Optional on/off style Neodymium magnet assembly

ACT Tangential Air Separators



Save money and extend the life of system pumps, piping, and components with Taco ACT Series centrifugal air removal units.

CONNECTION SIZES: 2"-36"

WORKING PRESSURE: 125, 150 PSI*

MAX. OPERATING TEMP: 375°F †

Optional Stainless Steel removable strainer available.
Single Wall & Leak Guard Double Wall

**STEAM TO LIQUID—LIQUID TO LIQUID
DIAMETERS:** 4"-30"

MAX. STANDARD LENGTH: 10'

WORKING PRESSURE: 150 PSI*

MAX. STANDARD OPERATING TEMP: 375°F †

5900 FlexBalance & 5900 FlexBalance—Plus Hydraulic Balancer



5900 FlexBalance

5900 FlexBalance—Plus

The patented 5900 FlexBalance & FlexBalance—Plus Separators act as a hydraulic bridge between the primary and secondary circuits in hydronic heating and cooling applications.

The FlexBalance—Plus product line incorporates PALL Ring technology for deep micro-bubble and dirt removal.

CONNECTION SIZES: 2"-12"

WORKING PRESSURE: 125, 150 PSI*

MAX. OPERATING TEMP: 240°F †

* Optional Higher Pressures Available

† Optional Higher Temperatures Available

Tanks

Buffer Tanks



Prevent short cycling of heating or cooling units with Taco buffer tanks. Taco Chilled & Hot Water Buffer Tanks are designed, constructed and tested to ASME Section VIII, Div. 1 requirements. Computerized product selection helps you choose the Buffer Tank that is just the right fit for your application requirements. All fabrication is done in-house to assure a high level of quality.

CAPACITY: 50–3,000 gal. (190–11,356 L)

CONNECTION SIZES: 2"–12" Standard

WORKING PRESSURE: 125 PSI*

MAX. OPERATING TEMP: 375°F †

Available with a wide range of standard insulation packages. Larger sizes available.

Multi-Purpose Tanks (MPT)



The MPT style Multi-Purpose Tanks product line offering incorporates the features of Taco's Buffer tank, hydraulic separator and Air/Dirt separator product line within a single product.

CAPACITY: 50–1,050 gal. (190–3,975 L)

CONNECTION SIZES: 2"–12"

DIAMETER: 20"–84"

HEIGHT: 43"–145"

WORKING PRESSURE: 125, 150 PSI*

MAX. OPERATING TEMP: 240°F †

Available with a wide range of standard insulation packages.

* Optional Higher Pressures Available

† Optional Higher Temperatures Available

Expansion Tanks



CA Expansion Tanks



Provide peace of mind during design and install with Taco full acceptance, replaceable bladder expansion tanks. The heavy duty-butyl rubber bladder design helps create permanent separation of air and system water.

CAPACITY: 23–3,962 gal. (90–15,000 L)

WORKING PRESSURES: 125, 150, 175, 250, 300 PSI*

MAX. OPERATING TEMP: 240°F †

Field replaceable, heavy duty, full-acceptance butyl bladder removes easily for inspection.

Available with NSF / ANSI / CAN 61-G Certification.

CAF Flow Through Expansion Tank



Taco flow-through expansion tanks are designed to help reduce the environmental conditions that help bacteria flourish in domestic hot water systems. Precise flow channeling technology controls the flow within the tank, minimizing erosion potential and promoting turbulence. The full-acceptance Captive Air design provides separation of air and water for optimal efficiency and are NSF / ANSI / CAN 61-G certified.

CAPACITY: 23–660 Gallons (90–2500 Liters)

DIAMETERS: 20–48"

HEIGHT: 34–115 3/8"

MAX. FLOW: 55–200 GPM (Higher Flows can be accommodated by using alternate piping diagram shown in IOM)

STANDARD PRESSURE: 125 PSI (8.6 bar) Higher

PRESSURES AVAILABLE MAX. OPERATING TEMP.: 240°F (115°C)

Field replaceable, heavy duty, full-acceptance butyl bladder removes easily for inspection

NSF / ANSI / CAN 61-G Certification

* Optional Higher Pressures Available

† Optional Higher Temperatures Available

Expansion Tanks

PAX Expansion Tanks



Field replaceable, heavy duty partial acceptance butyl bladder design for potable water systems. Available with NSF/ ANSI / CAN 61-G Certification.

CAPACITY: 8–132 gal. (30–500 L)

WORKING PRESSURES: 150PSI*

MAX. OPERATING TEMP: 240° F †

Micro PAX Expansion Tanks



Field replaceable, heavy duty partial acceptance butyl bladder design for potable water.

CAPACITY: 2.6–6.6 gal. (10–25 L)

WORKING PRESSURES: 150PSI*

MAX. OPERATING TEMP: 240° F †

* Optional Higher Pressures Available

† Optional Higher Temperatures Available

CBX Expansion Tanks



Field replaceable, molded butyl membrane allows permanent separation of air and hydronic system fluid. Field removable partial acceptance membrane design specifically developed for smaller heating and chilled water systems.

CAPACITY: 4-212 gal. (15-802 L)

WORKING PRESSURES: 125, 150 PSI Max. Operating
TEMP: 240°F

CX Expansion Tanks



Heavy-duty butyl diaphragm allows permanent separation of air & water.

CAPACITY: 8-92 gal. (29-350 L)

WORKING PRESSURES: 125 PSI

MAX. OPERATING TEMP: 240°F

PS Expansion Tanks



Available in vertical or horizontal configurations.

CAPACITY: 15-515 gal. (57-1,950L)

WORKING PRESSURES: 125, 150 PSI*

MAX. OPERATING TEMPERATURE: 375°F

Most Taco Expansion Tanks are available with either bladders or diaphragms so that water and air are permanently separated. No absorption can take place at any point during the system cycle, and you avoid the problems of waterlogged tanks, air-bound terminal units, excessive corrosion, inefficient balancing and pump cavitations. Exterior red oxide primer finish comes standard on all models.

All fabricated products are designed, constructed and tested to ASME Section VIII, Div. 1 requirements. (Brazed Plate Heat Exchangers optional)

* Optional Higher Pressures Available

† Optional Higher Temperatures Available

Fabricated Products

World Class Custom Engineering

Taco has grown to become a premier custom fabrication provider among global manufacturers.

Our veteran team of leading engineers, welders, assemblers and customer support carry with them an extensive wealth of industry knowledge, design logic and technical experience. From start to finish, our focus is set on delivering a finished product that exceeds expectations.

Customized design available.

Examples of custom projects include, but are not limited to:

- ➔ Flash Tanks
- ➔ De-Aerator Tanks
- ➔ Clean Steam Generation Instantaneous Water Heaters
- ➔ Domestic Water Storage Tanks

Customized Thermal Energy Storage Tank Solutions

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

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



Fabricated Products



Flexible Lead Times

With ASME certified welders, certified testers and a National Board Authorized Inspector in-house, Taco has the team and equipment needed to offer you fast, flexible lead times and accommodate quick-turnaround, emergency requests.

AREA

- 120,000 sq. ft. of manufacturing floor

DOOR SIZES

- (5) 14' X 14'
- (5) 14' X 16'
- (8) 10' X 10'

CRANES

- (3) 20 Ton bridge crane with (2) 10 ton hoists
- (3) 10 Ton bridge
- (3) 5 Ton bridge
- (3) 2 Ton bridge
- (10) 1 Ton bridge
- (3) 1/2 Ton bridge
- (10) 1 Ton jib

FORK LIFTS

- 6,000 lb.
- 5,000 lb.
- 4,500 lb.
- 4,000 lb.
- 400 lb.

PLATE ROLLERS

- 1 1/4" x 10'
- 5/16" x 6'
- 10 ga x 5'

PLATE BURNING

- 10' x 25' CNC burn table
- 8' x 25' CNC burn table up to 5" thick

FABRICATING MACHINERY

- 30" x 20 Ton press brake
- 18" Automatic band saw
- 30" dia. Pipe cutting pantograph
- 6 ft.3 Tumble blaster
- 6' dia. Shot blaster - table type
- Stamping & assembly presses
- 48" x 120" Tank assembly press
- 24" x 96" Tank assembly press
- 24" x 72" Tank assembly press

POSITIONERS & MANIPULATORS

- 12' x 12' Manipulator
- 6' x 6' Manipulator
- 4' x 4' Manipulator
- 54,000 lb. Positioner
- 6,000 lb. Positioner

TANK ROLLERS

- 45,000 lb.—Multiple

WELDING MACHINERY

- (16) Manual FCAW welders
- (3) Automatic FCAW welders
- (10) Manual plasma cutters
- (2) SAW longitudinal seam welders
- (2) SAW girth welders
- (3) SAW girth welding lathes
- (12) Pulse MIG welders
- (3) GTAW welders
- SMAW welder
- Genesis CRZ cutting & welding cell
- Genesis CM-3X dual robot cutting & welding cell
- Horn style A/C spot welder, 36" throat depth

TUBE BENDING

- (3) Pines rotary draw tube benders
- Manual tube bender for 3/4" and larger

TUBE CUTTING

- 14" dia. Cold saw
- T-Drill automatic tube straightener & cutoff

HYDROSTATIC TESTING

- Up to 2,000 PSI with 21,000 gallon capacity

CNC MACHINING CENTERS

- 122" x 47" Bridge mill
- 21" x 40" C-Frame VMC
- 80" x 42" Bridge mill
- Twin spindle, four-axis, vertical turret lathe
- 20" x 20", 3 axis, Vertical machining center

CONVENTIONAL MACHINERY

- 54" Vertical boring mill
- 4' Radial drill
- 10" Engine lathes

PAINTING

- (3) Spray booths



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