**Custom Booster Systems**

**Features**
- No Routine Maintenance Required
- Energy-Saving Variable Speed Controls
- For Medium to High Pressure Applications
- Cartridge-Type Shaft Seal Eases Maintenance
- Reliable Vertical Multistage Centrifugal Pumps
- Intuitive Color Touch Screen Interface

**Semi Instantaneous Water Heaters**

**Features**
- Single and Double Wall Units Available
- Copper Tubes Standard, 90/10 Cupro-Nickel and 304/316 Stainless Steel Tubes Available
- Steam Specialties (Control Valve, Steam Trap and Strainers) Come Factory Piped and Assembled for a "Drop-In" Packaged System Ready for Installation.
- Duplex and Triplex Packaged Systems Available
- Waterside distribution piping with VFD domestic Water Booster System and hydro-pneumatic expansion tank available
- Factory packaged electric condensate pump for condensate return available
Sump/Sewage Self Priming Pump Systems

Features

- Quick Cleanout - Access cover or rotating unit can be removed quickly for access to impeller
- Close-Coupled Design - Entire rotating assembly can be removed without disturbing piping
- Always Clean and Dry - Entire pump rests on basin cover for easy access
- Easy Maintenance - No long-shafts; no bearings to maintain or grease
- Premium Efficiency Motor - NEMA-Premium keeps pace with EISA, TEFC enclosure, and 1.15 service factor

Air Gap/Break Tank Pump Systems

Features

- Reservoir, pumps and control systems from a single source, factory packaged and tested
- Provides isolation of fresh water for secondary protected water systems
- Several tank, pump and control options are available to meet any specification
- Positive air gap outperforms backflow preventers
Laars High Efficiency Heating Systems

Neotherm Series
Commercial Modulating Boilers & Water Heaters

Rheos +
High Efficiency Condensing Boilers & Water Heaters

Mighty Therm 2
Hydronic Boilers & Volume Water Heaters

U.H.E. Series
Indirect Water Heaters
Laars: Innovative Heating Solutions

Products
- High Efficiency Condensing Boilers
- Cast Iron Boilers
- Combi Heating Systems
- Indirect Fired DHW Tanks
- Storage Vessels
- Controls

Benefits
- State-Of-The-Art Designs
- Maintenance Friendly
- Exceptional Warranties
- Robust Heat Exchanger Designs
- Very Low Emissions
- Complete Heating System Integration

MagnaTherm is Now Available!

All Laars products are proudly made in America.
PolyPro

PolyPro is superior in performance and easier to install than PVC or CPVC pipe, which were designed for irrigation, not venting. PolyPro has been successfully venting appliances in Europe for over 15 years.

Tested and listed to the ULC S636 standard in Canada.

Features

• Can be cut to desired length.
• No messy solvents to work with.
• Gasketed connections have a precise, tight seal and does not require installation lubricant.
• Higher sustained operating temperatures than PVC/CPVC.
• Corrosion resistant.
• Flexible venting options available in custom lengths

CIX/CAX Secure Stack

Features

• Designed for low heat loss and maximum possible draft
• CIX: certified at 1” clearance to combustibles and 2” for grease ducting applications;
• CAX: certified at 4” clearance to combustibles
• Inside Casing Available in 304 SS or 316 SS
• Outside Casing Available in 304 SS, 316 SS or Galvalume® (Aluminum-zinc coated)
• Available in sizes from 5” to 36” diameters
• 1-year and 15-year limited warranty options available

Secure Seal SS, SSD, and SSID

Features

• Categories I, II, III and IV
• Listed as Type BH gas vent systems for appliances having a rated operating flue temperature of 480°F
• Viton-seals more resistant than silicone against chemicals
• AL29-4C® stainless steel (corrosion resistant)
• Tested and listed to UL-1738 and ULC-S636
• 15-year warranty
• Outside Casing Available in 304 SS, 316 SS or Galvalume® (Aluminum-zinc coated)
• Available in sizes from 5” to 36” diameters
• 1-year and 15-year limited warranty options available
Custom Steel Tanks

Types Of Tanks Available

- Air Tanks
- Brine Tanks
- Condensate Receivers
- Expansion Tanks
- Hot Water Storage Tanks
- Hot Water Generators
- Blow Down Tanks
- Flash Tanks
- Surge Tanks
- Jacketed Tanks
- Processing Tanks
- Mixing Tanks
- Rubber Lined Tanks
- Plastic Lined Tanks
- Stainless Tanks
- Pressure Piping
Wilo Benefits

- Field Service, Startup & Training Available
- Energy Audits Available
- Maximum Energy Savings With ECM Technology
- Simple to Operate
- No Condensate Build Up / All Applications
- Easy to Install
- Energy Saving Considerations
- Large Local Inventory

Wilo Hydronic Pumps

- Helix Excel: Variable Speed Multistage Pump
- Wilo ECO RFC / Stratos: High Efficiency Circulators
- Wilo MVI / Helix: Vertical Multistage Pumps
- Wilo IL: Dry Rotor Inline Centrifugal Circulators
- Wilo NL: Base Mount End Suction Pumps
- Wilo SCP: Horizontal Split Case Pumps
Aquaharvest Technologies
Reclaim >> Treat >> Reuse >> Sustain

Typical Facilities
- Data centers
- University campuses
- Sports stadiums & arenas
- Hospitals & medical centers
- Industrial process facilities
- Shopping malls
- Public schools
- Landfills
- Fleet vehicle wash facilities
- Industrial laundry facilities
- Hotels & vacation resorts

Common storage, filtering, treatment and pumping methods include:
- Buried storage vessels
- Above ground tanks
- Indoor water reservoirs
- Skid mounted filtering stations
- Buried filter vaults
- Underground pressurization stations
- Chlorination, UV, ultra-filtration, ozone disinfection, etc.
- Complete packaged pumping, filtering & treatment skids
- Fully enclosed housed systems with environmental controls

Typical HarvestZones™:
- Rainwater
- Graywater
- Subsoil drainage
- Surface runoff
- Mechanical drainage
- Industrial process waste
- Snowmelt collection
- Landfill leachate

Best places to use the harvested water:
- Flushing washroom fixtures
- Filling cooling towers
- Water features & fountains
- Firefighting water storage
- Washing trucks, busses and other vehicles
- Filter backwash water
- Landscape irrigation
- Industrial process cooling
Metropolitan Industries
Custom Controls

Temperature Control
- ThermoTech™
- Thermistors
- RTDs
- Flow Monitoring

Level Control
- Submersible Level Transducer
- Ultrasonic Level Transducer
- Bubbler/Pressure Switch(es) Capacitance Probe(s)
- Mechanical Float Switches
- Electronic Sensors (Digital/Analog) Ion®

Pressure Control
- (MetroTech™)
- Pressure Transducer(s)
- Pressure Transmitter
- Pressure Switches
- Differential Pressure Switches
- Variable Frequency Drives

Instrumentation
- Flow Meters
- Transducers
- Actuated Valves
- Hydraulic Valves
Capabilities

• Custom Piping: Fabricate piping to any dimension or configure for flexibility in tight quarters.
• Custom Fittings: Custom dimensioned fittings ensure new pump systems function in existing configurations and can replace leaking or undersized existing fittings.
• Pump Retrofit: Special fabrication for modifying existing installations to accommodate new/different model pumps.
• Custom Designed Prefabricated Housed Systems: Housed systems are available with a variety of third party approvals including UL 508A, UL QCZJ and UL QRNZ.
• Custom Design Features Include:
  • Pump System chemical equipment
  • Generators
  • Variable speed controls
  • Flow meters

Benefits

• Custom Engineered Solutions
• Single-Source Responsibility
• Factory Pre-Piped and Wired
• Fully Tested
• UL Certified
**Pressure Reducing Valve**
- Sensitive and Accurate Pressure Control
- Easy Adjustment and Maintenance
- Tamper Resistant
- Optional Check Feature
- Fully Supported Frictionless Diaphragm

**Level Control Valve**
- Accurate and Repeatable Level Control
- On-Off or Non-Modulating Action
- Fully Adjustable High and Low Level Settings
- Simple Design, Proven Reliable
- Easy Installation and Maintenance

**Pressure Relief Valve**
- Accurate Pressure Control
- Optional Check Feature
- Fast Opening to Maintain Line Pressure
- Slow Closing to Prevents Surges
- Completely Automatic Operation

**Flow Control Valve**
- Accurately Limits Flow Rate
- Completely Automatic Operation
- Includes Orifice Plate with Holder
- Optional Check Feature
- Easily Adjusted
Shell & Tube
Heat Exchangers

Applications
• Domestic Hot Water
• Process Heating & Cooling
• Condensers
• Heat Recovery
• Steam to Water
• Water to Water

Benefits
• Large selection of shell & tube heat exchangers available for commercial, industrial and specialty applications
• Varying sizes available from 1" to 30". Larger custom sizes are also available
• Exact fit bundles are available for any unit
• Single wall & double wall configuration available
• Copper, 90/10 cupro-nickel, 304/316SS, carbon steel & specialty metals available
• ASME SecVIII Div I U stamped & National Board Registered

Plate & Frame
Heat Exchangers

Applications
• HVAC
• Domestic Hot Water
• Chillers
• Milk Processing Pasteurization
• Domestic Heating
• Brewing
• Heat Recovery

Benefits
• Available in multiple configurations
• Single wall & double wall configurations available
• Wide gap plate design available
• Brazed & welded plates available
Prefabricated Housed Systems

Metropolitan Industries
Custom Prefabricated Housed Systems

Capabilities
- Water Harvesting Systems
- Booster Pump Systems
- Boiler House Systems
- Valve Stations
- Control Options
- Building Options
- Power Options

Benefits
- Custom Engineered Solutions
- Single-Source Responsibility
- Factory Pre-Piped and Wired
- Shipped Fully Assembled
- Climate Controlled
- Clean, Safe Work Environment
What should make Metropolitan your choice for a business partner is our people. Whether a new installation or upgrade, our degreed service technicians, including mechanical, electrical and computer engineers, ensure each system is up and running according to specifications. Their skill in new systems integration or trouble shooting existing installations keep systems up and running at optimum performance.

Trained dedicated and responsive, our team of service specialists recognize the urgency of field and in-shop repair with our 24/7 emergency service. We also offer comprehensive preventative maintenance contracts that include periodic reporting which can avoid costly, unscheduled downtime.

Whether your project is a new installation or upgrade, our degreed service technicians, including mechanical, electrical and computer engineers, ensure each system is up and running according to specifications. Their skill in new systems integration or trouble shooting existing installations keep systems up and running at optimum performance. Retrofit or replacement of motors, drives, process controllers or any other electronic or mechanical systems are handled quickly and efficiently.

Call us at 815 886 9200

For more information, or to begin your project, please feel free to contact one of our Equipment Specialists listed below:

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Other Metropolitan Products

Heat Transfer Systems

- Single source engineering & manufacturing
- Constant or variable speed configurations
- Heavy duty structural steel frames (engineered to fit space requirements)

Boiler Feed Systems

- Designed-to-order system & control panels (UL listed)
- Vertical multistage low NPSH pumps available
- Stainless steel pre-heat assemblies available
- Carbon steel & stainless steel construction

Condensate Return Unit

- Simplex and Duplex standard units available
- Stainless steel pump(s) and tank as standard
- Standard units available in 12, 25, 45, 70 gallon
- NEMA Rated control panels
- Custom units available for any application requirements
- Stainless Steel washdown units available (for food and pharmaceutical manufacturing applications)
- Basin style units available for underground or below grade installations