AXIOM

Specialty Products
For Hydronic Systems

2024

Digital Mini System Feeder

- [Feat]ure-Rich User Friendly Digital
  [Con]trol
- [U]ser Defined Pressure Setting
  [(-]45psi)
  - With adjustable cut-in /
    cut-out setting
- [U]ser Defined Low Pressure Alert
- [U]ser Defined High Pressure Alert
- [L]ow Level Alert Output
- [L]ED Warning Indicator
- [S]et-up and Diagnostic Menu

[...]d 5" easy fill access on front of

[DM]F150 (4.5 USG) or DMF300
[(USG) tank for storage and mixing
[sy]stem make-up fluid

[Tran]slucent reservoir provides
[visua]l notice that system may have
[deve]loped a leak and mitigates
[pote]ntial for flooding disaster

DMF300
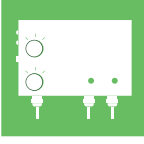
DMF150

Integrated easy connect wall bracket

Table of Contents

Category		Page

Pressure Pal

Axiom System Feeders are designed to simplify the process of maintaining the cold static fluid pressure in closed-loop heating and cooling systems. Having a reservoir of suitable make-up fluid eliminates the need for backflow prevention and helps solve many of the associated problems when using domestic water as a make-up fluid.

Applications:

System Feeders are ideal for boiler/chiller systems, snow/ice melt circuits, outside air heating/cooling glycol coils, geothermal and solar heating systems.

Features and Benefits

* Automatically maintains a minimum system pressure at a user defined setting
* Feeders are compatible with both water and glycol/water solutions
* **Provides leak detection** – dropping fluid level provides immediate notice that the system is losing fluid
* **Prevents major floods** – in the event of a system rupture, only the contents of the tank will be pumped into the system
* All units plug into any standard 115 VAC outlet
* Diverter valve allows easy purging of air on initial start-up and manual mixing of fluid in the tank
* Fluid drained for service from the system can easily be recovered and used to replenish the system following service
* Fluid level switch shuts the pump off if the storage tank level gets too low
* Does not require any annual recertification testing

THIS

REPLACES THIS
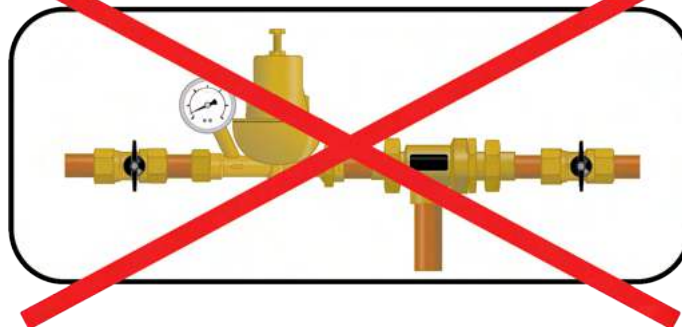
Residential

DMF150

- 0-45 psi (0-310 kPa)
- 4.5 USG
- Feature Rich Digital Pressure Controller
    - Large digital display
    - Simple up/down button set-up
    - Dry contact alarm (low level, low/high pressure)
    - Comes with wall bracket

MF200

- 10-25 psi (70-172 kPa)
- 6.0 USG
- Comes with funnel to simplify filling

DMF150

MF200

Light Commercial

DMF300

- 0-45 psi (0-310 kPa)
- 17 USG
- Feature Rich Digital Pressure Controller
    - Large digital display
    - Simple up/down button set-up
    - Dry contact alarm (low level, low/high pressure)
    - Comes with wall bracket

DMF300

Commercial

SF100

- 5-55 psi (Higher pressure models also available)
- 55 USG (Larger reservoir tanks also available)
- Can be configured with multiple pumps, multiple PRV's for independent system control
- Accumulator tank prevents internal pump from cycling
- Eliminates the need for backflow prevention on closed-loop systems
- ETL Listed
- Additional configuration with multiple PRV's, pumps, & alternating control panel are available

SF100

SF100 Specialty Build Options (SF100-x-xx):

- HP-L (100 USG, 25-85 psi)
- 2PRV (Unit Designed for 2 Systems)
- 2PRV-L (100 USG, 2 Systems)
- 2PRV-HP (25-85psi, 2 Systems)
- D-P-4x (Dual Pump, Alternating Control Panel NEMA4X)
- UHP (35-125 psi)
- UHP-L (100 USG, 35- 125 psi)
- D (Dual Pump)
- D-2PRV (Dual Pump, 2 Systems)
- D-P (Dual Pump, Alternating Control Panel)

Custom units available upon request

System Feeders

Which System Feeder is right for you ?

Use the calculator below to determine which System Feeder will best suit your application.

Feeder Sizer
System Details :

Total System Volume (Gal):

_____

Cold Static Fill Pressure (psi):

_____

SELECT

SCAN ME

[Online Calculator]

Use our (**Feeder Sizer**) calculator online at
https://axiomind.com/axiom_products_cat/system-feeders/

System Feeder Selection Chart

Model	System Volume	System Cold Static Fill Pressure
DMF150 (4.5 USG)	Below 285 L (75 US Gal)	0 to 310 kPa (0-45 psi)
MF200 (6 USG)	Below 285 L (75 US Gal)	69 to 170 kPa (10-25 psi)
DMF300 (17 USG)	285-1135 L (75-300 US Gal)	0 to 310 kPa (0-45 psi)
SF100 (55 USG)	1135-3030 L (300-800 US Gal)	35-380 kPa (5-55 psi)
SF100-HP (55 USG)	1135-3030 L (300-800 US Gal)	170-585 kPa (25-85 psi)
SF100-L (100 USG)	Above 3030 L (800 US Gal)	35-380 kPa (5-55 psi)

ACCESSORIES

Alarm Panel	**Wall Bracket**	**Hydro-NODE Bracket**	**Expansion Tank Valve**

NEW
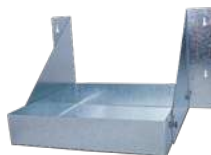
NEW

RIA10-1-SAA

Low-Level Audible & Visual Alarm Panel for use with building management systems

MF200-1430

Wall Bracket Assembly for mounting MF200 System Feeder to the wall

HN-3
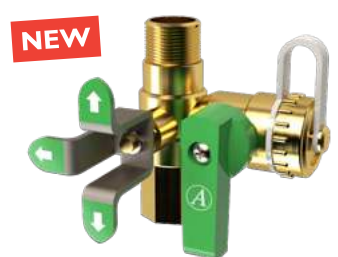
Expansion Tank Wall Bracket comes with pressure gauge, manual air vent, two ½ " isolation ball valves and one ETV-1

ETV-1

Multi-Position Service Valve that simplifies the process of filling, isolating and servicing hydronic expansion tanks

Another innovative product from Axiom

NC–1W

PATENTED

Normal Operation

Reversible wall-mounted bracket

Manual reset float indicates unit in bypass mode and requires maintenance

Li*pH*ter+ media

Twist off capsule allows quick media replacement
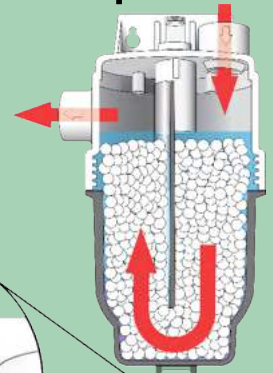
Clogged with Debris
Integral bypass prevents condensate backup
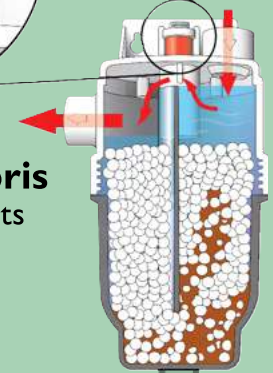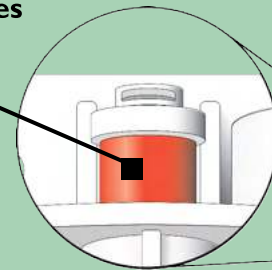
* NEW 100% POLYPROPYLENE CAPSULE *

JOINS OUR FAMILY OF CONDENSATE NEUTRALIZERS

NC-1

NC-2

NT15

NT1-P

NC-S "HARD PIPE KIT" INCLUDES:

NC "FULL KIT" INCLUDES:

NT25

NT25-P18

Ideal for condensing appliances

NeutraPal™

NC-1 "Full Kit"
NC-1S "Hard Pipe Kit"

NC-2 "Full Kit"
NC-2S "Hard Pipe Kit"

NC-1W "Wall mounted"

* New 100% Polypropylene Capsule *

★ PATENTED ★

Condensate fluid that is formed inside fuel burning appliances is acidic and has the potential to harm the environment and drainage systems.

Axiom condensate neutralizers:

- Raise the pH level of the acidic condensate to a more neutral level which:
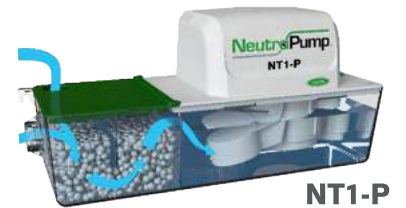 - Prevents acidic fluid from damaging drains, sewer systems and concrete
  - Helps maintain a safe environment for bacteria in septic systems
- Made with corrosion resistant materials for long term durability
- Tanks and capsules come with connection hardware kits
- Includes an initial charge of Axiom's unique blend of LipHter$^+$ neutralizing media

NeutraPal Series are designed with versatility in mind. Units can be either floor or wall mounted and are ideal for use with gas burning condensing appliances with low condensate outlets.

Features

- **Compact capsules minimize the overall footprint**
- **Offset outlet connection increases the fluid contact time with LipHter$^+$ media for maximum performance**
- **Ideal for residential and light commercial appliances (up to 1,000,000 btu/h)**
- **Three available kit options**
  - NC-1 & NC-2 "Full Kit" comes with connection hardware and tubing.
  - NC-1S & NC-2S "Hard Pipe Kit" comes with ¾ PVC socket adapters
  - NC-1W " Wall Hung" Neutralizer

NeutraPro™

NT15

NT25

NeutraPro Series are designed to neutralize large volumes of acidic condensate at higher flow rates. They are constructed of corrosion resistant polypropylene material and include 1" NPT PVC union connections.

Features

- **Integral baffles that weave the acidic fluid through Axiom's unique blend of LipHter media for maximum neutralization**
- **Low inlet connections accommodate near floor condensate outlets**
- **Ideal for commercial gas-burning appliances (up to 7,000,000 btu/h)**
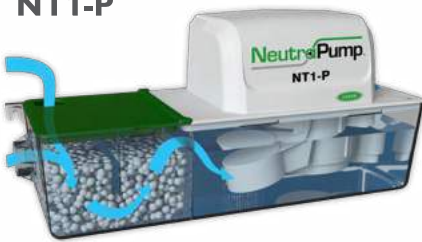- **Integral bypass feature prevents condensate backflow**

Condensate Fluid Flow

Lip$H$ter Neutralization Media

Baffles channel condensate through Lip$H$ter media
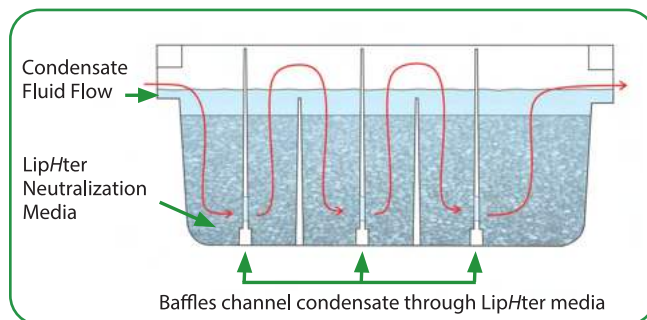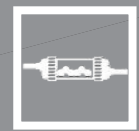
NeutraPump Series are designed for the dual purpose of neutralizing acidic condensate and pumping the fluid to a suitable location.
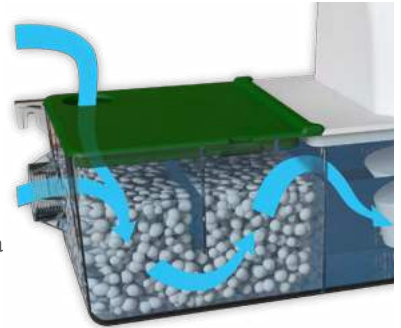
Features

- Integral baffles force the acidic fluid through Axiom's Neutralizer media for maximum performance.
- Pumps come with auxiliary dry contacts in event of a high-level fluid condition
- Pumps are ETL certified and come with standard 120v plug-in connection

NT1-P

NT1-P Features

- Ideal for residential or light commercial appliances (up to 500,000 btu/h)
- Low profile design that can be wall or floor mounted with multiple connection options:

    - Two connections (one top inlet & one side inlet) that direct fluid through LipHter$^+$ media

    - Tank is designed with baffles to weave acididc fluid

    - One connection that bypasses neutralizing media

- Pump is capable of 20-feet of vertical lift
- Pump includes high level safety switch

NT25-P18

NT25-P18 Features

- Ideal for commercial appliances (up to 6,000,000 btu/h)
- Pump is capable of 18-feet of vertical lift at design flow rate
- 1" NPT condensate inlet connection
- Pump includes high level safety switch

NT70-AP43

NEW

NT70-AP43 Features

- Ideal for large commercial and industrial appliances (up to 20,000,000 btu/h)
- Pump is capable of 10-feet of vertical lift at design flow rate
- 1½" NPT condensate inlet connection on tank
- Multiple (1") condensate inlets on pump

Condensate Neutralizers

Which Condensate Neutralizer is right for you ?

Use the calculator below to determine which Condensate Neutralizer will best suit your application.

Neutra Sizer

Appliance Details :

BTU/hr Input of the Appliance:

Condensing Appliance Efficiency:

SELECT

SCAN ME

[Online Calculator]

Use our (**Neutra Sizer**) calculator online at
https://axiomind.com/axiom_products_cat/condensate-neutralizers/

Condensate Neutralizer Selection Chart

Model	BTU/hr at operating efficiency	Condensate Flow Rate
NeutralPal Series		
NC-1 & NC-1S	400,000 @ 93%	1.6 Gal/hr
NC-2 & NC-2S	1,000,000 @ 93%	4.0 Gal/hr
NC-1W	400,000 @ 93%	1.6 Gal/hr
NeutraPro Series		
NT15	3,000,000 @ 96%	20 Gal/hr
NT25	7,000,000 @ 96%	45 Gal/hr
NeutraPump Series		
NT1-P	500,000 @ 93%	1.9 Gal/hr
NT25-P18	6,000,000 @ 96%	40 Gal/hr
NT70-AP43	20,000,000 @96%	132 Gal/hr

P/N: NM-1

P/N: NM-1P   P/N: NM-1BULK

LiPHter+ Replacement Media

- For residential and light commercial condensate neutralizers.
- Proven champion at neutralizing acidic condensate.
- Pellet design optimizes, fluid contact time.

Condensate Neutralizer Model Numbers	Exact Replacement Part #	Bulk Media Part #
NC-1, NC-1S, NC-1W	NM-1 x Qty 1	NM-1Bulk (15 Refills)
NT1-P	NM-1P x Qty 1	NM-1Bulk (10 Refills)
NC-2, NC-2S	NM-1 x Qty 2	NM-1Bulk (7 Refills)

LiPHter Replacement Media

- For commercial and industrial condensate neutralizers.
- Blended media provides an effective solution to treat high volumes of acidic condensate fluid.

Condensate Neutralizer Model Numbers	Exact Replacement Part #
NT15	NM-15 x Qty 1
NT20, NT25, NT25-P18	NM-25 x Qty 1
NT70-P, NT70-AP43	NM-15 x Qty 5

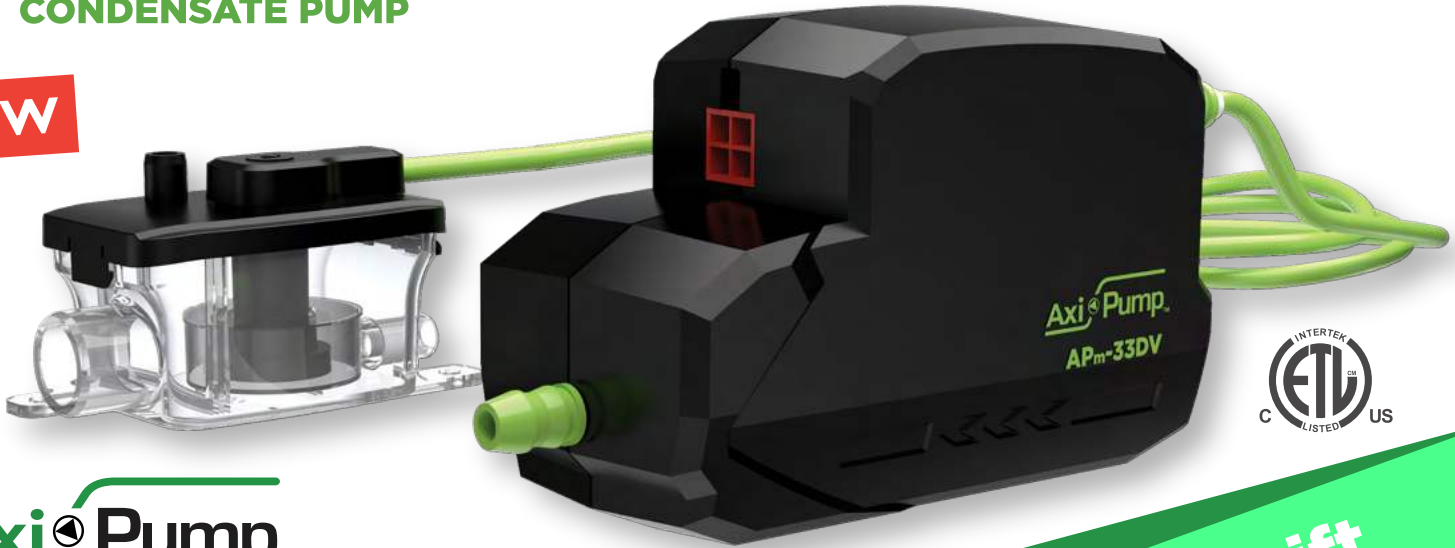P/N: NM-15

P/N: NM-25

Condensate Pumps

APm-33DV

ULTRA QUIET MINI SPLIT
CONDENSATE PUMP

NEW

Axi Pump™

Max 33' Lift
Built in high level-switch

APm-33DV

- Ultra Quiet
- Dual Voltage (100-240v)
- Suitable for mini-split (ductless)systems

JOINS OUR FAMILY OF CONDENSATE PUMPS

Suitable For All HVAC Equipment
(Boilers, Furnaces, Air Conditioners)

AP23

- 23' Lift
- Low Power Draw

AP23-S

- 23' Lift
- Low Power Draw
- Comes with High Level Switch

AP43-HTS

- 43' Lift
- Rated For High Temperature (Up to 212 °F/100 °C)
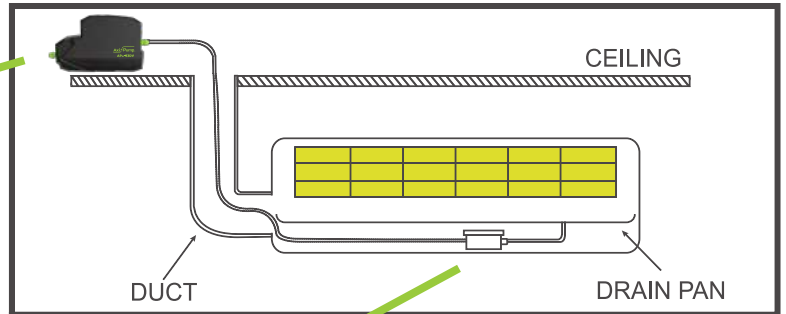- Comes with High Level Switch

Condensate Pumps

Axi Pump™

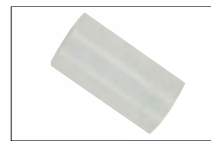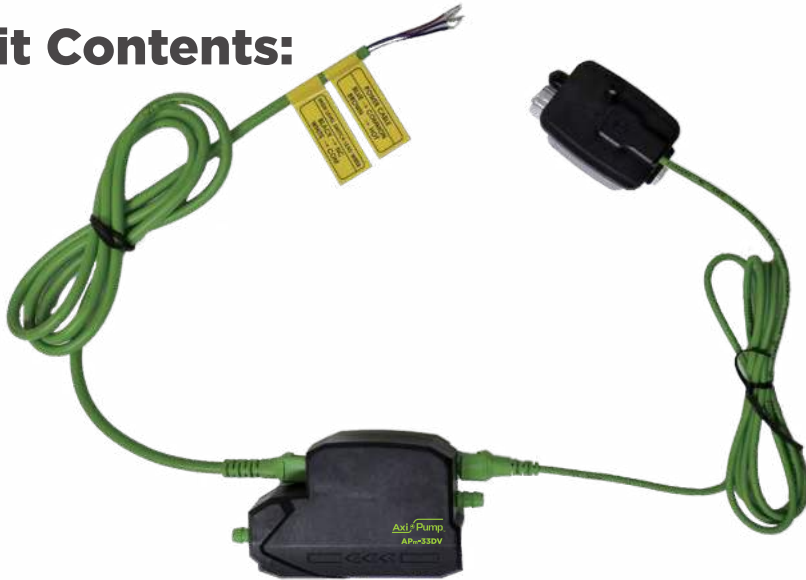Axi-Pump Mini-Split Condensate Pump is the best solution for ductless mini-split appliances.

CEILING

DUCT

DRAIN PAN

Pump

Reservoir & Level Sensor

◉ Max 33' Lift
◉ Dual Voltage (100-240v)
◉ Ultra Quiet

◉ Built-in high level switch
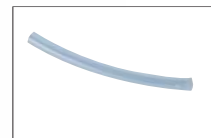◉ 1oz (35ml) reservoir
◉ Stainless steel serviceable filter

Kit Contents:

Inlet hose

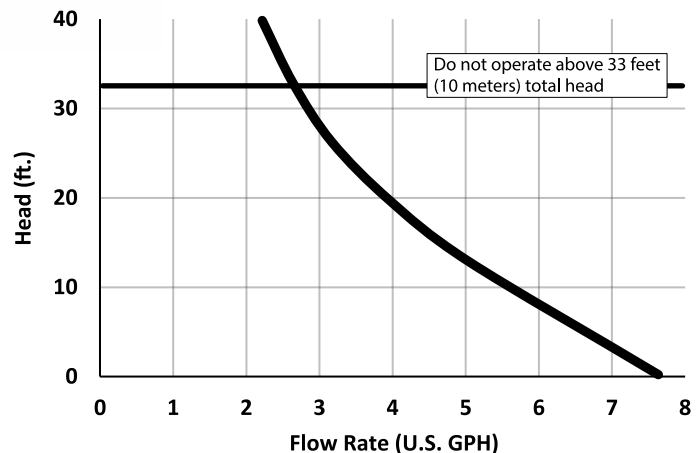**Pump-reservoir Connection hose**

Breather hose

Cable ties and double-sided adhesive pad

◉ Pump
◉ Reservoir
◉ Inlet Hose
◉ Pump reservoir connection hose
◉ Breather hose
◉ Cable ties and double sided adhesive pad
◉ Communication cable of pump
◉ overflow alarm cable

APm-33DV Pump Curve

Do not operate above 33 feet (10 meters) total head

Head (ft.)

Flow Rate (U.S. GPH)

Axi Pump™

Axi-Pump Condensate Pumps automatically remove the condensate fluid produced from HVAC appliances like air conditioners and dehumidifiers, and acidic water generated from high-efficiency furnaces, boilers, and tankless water heaters.
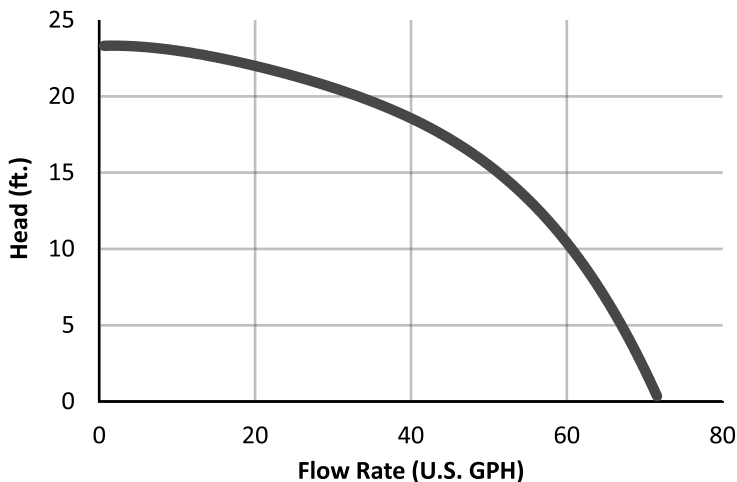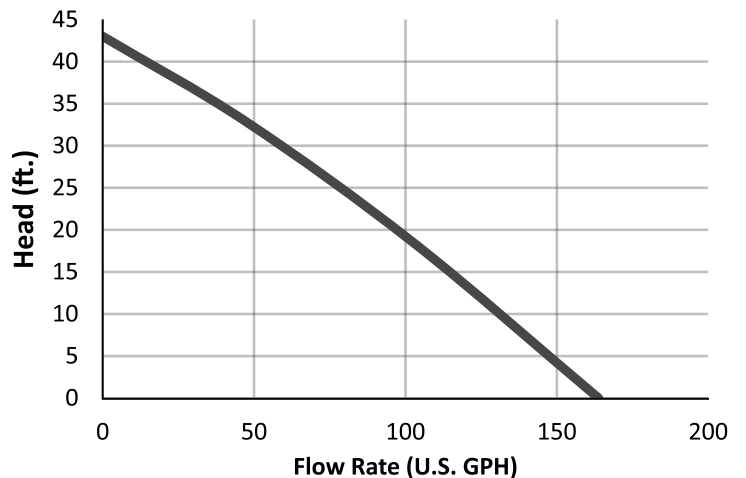
AP23

AP23-S

AP43-HTS

Features and Benefits

	AP23	AP23-S	AP43-HTS
High Level Switch		✓	✓
Integral Wall Mount	✓	✓	
Multiple Inlet Holes	✓	✓	✓
Quiet Pump Operation	38 dB	38 dB	60 dB
Thermally Protected	✓	✓	✓
Corrosion Resistant Material	✓	✓	✓
Stainless Steel Pump Shaft	✓	✓	✓
Max Fluid Temperature	140°F (60°C)	140°F (60°C)	212°F (100°C)
Continuous Duty	✓	✓	✓
Minimum Fluid pH	2.3	2.3	2.3
ETL Listed	✓	✓	✓

AP23 Series Pump Curve

Head (ft.) vs Flow Rate (U.S. GPH)

AP43-HTS Pump Curve

Head (ft.) vs Flow Rate (U.S. GPH)

PURO PAL -1

Demineralizers prevent valuable metal components in closed loop hydronic systems from corroding and scaling

H2O Demineralizer Benefits
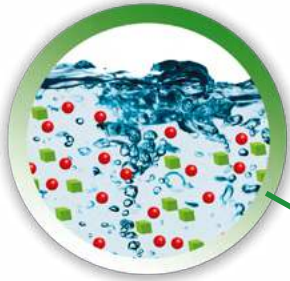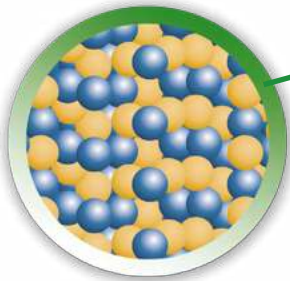
Domestic water with minerals and gases

Special Puropal 2-component mixed bed resin

Fully demineralized water through ion exchange

Flow

💧 Removes scale producing ions like calcium and magnesium that reduce boiler efficiency and can lead to heat exchanger failure

💧 Removes aggressive salts such as:
- Nitrates which cause corrosion
- Sulfates which attack copper piping
- Chlorides which cause stress corrosion cracking in stainless steel

💧 Lowers electrical conductivity, which reduces corrosion by slowing the rate of oxidation

💧 Demineralized water meets the strict water quality requirements from boiler and glycol manufacturers

💧 An economical and convenient alternative to pre-blended/diluted glycol

H₂O Demineralizers

Disposable cartridges are ideal for use on job specific residential and light commercial water treatment applications. Use the PuroPal series of disposable cartridges to provide demineralized water, rather than paying a premium and transporting treated water to site or purchasing pre-blended glycol solutions. Simply carry the cartridge inside, hook up to the site's water supply with garden hose connections, and begin delivering demineralized water through the PuroPal cartridge's ion-exchange resin.
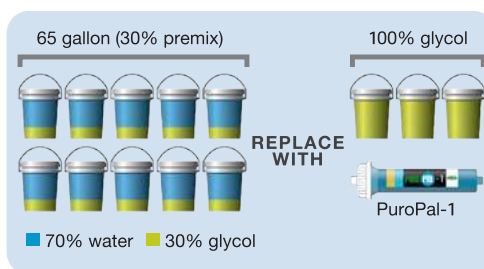
DISPOSABLE CARTRIDGES

PuroPal-1

PuroPal-1

◊ Disposable cartridge with a translucent exterior

  - When media is expired the resin will change from blue to beige

◊ Designed for single point of use applications

  - One PuroPal-1 cartridge will treat approximately 65 USG (inlet water 200ppm)

65 gallon (30% premix)   100% glycol

REPLACE WITH

■ 70% water   ■ 30% glycol   PuroPal-1

PuroPal-1000

PuroPal-1000

◊ Robust design, easy to handle

◊ Larger cartridges provide increased treated fluid volume

◊ Cartridge can be used with the PuroPal-Meter accessory to accurately measure treated fluid volume

◊ One cartridge will treat approximately 265 USG (inlet water 200ppm)

MOBILE FILLING UNITS

PuroPal Pro Series mobile filling units incorporate a robust design with integrated metering and intelligent controls, convenient drain valve allows for ease of transportation and storage. Ideal for larger (or multiple smaller) closed-loop systems, Mobile filling units provide the most economical method to providing demineralized water at individual job sites.

PuroPal Leader

◊ Small footprint, floor standing mobile filling unit

◊ PuroPal Console provides a real-time digital display of the incoming and outgoing water quality, flow rate and the total treated demineralized water

◊ Resin is self-contained in field replaceable cartridges, meaning down-time is mere seconds when exchanging the cartridge
  - One cartridge will treat approximately 793 USG (inlet water 200ppm)

Axi-Therm

Hydronic System Cleaners and Inhibitors

CLEANING AND PROTECTION FOR CLOSED LOOP HYDRONIC SYSTEMS

Suitable for all kinds of closed loop hydronic heating and cooling systems: traditional hydronic heating systems, chilled water systems, and geothermal systems.

Features and Benefits

● **Eco-friendly chemicals do not contain harmful or hazardous substances**

● **Easy to use. The heating system can be cleaned both with the boiler on or off**

● **Neutral pH does not corrode or damage gaskets, plastics, or metals (steel, copper, and aluminum)**

● **Keeps the heat exchanger, pipes, and radiators clean**

● **Low concentration requirements (0.5 L or 16.9 oz. treats 100 L or 25 U.S. gallons of water. Dosage: 0.5%)**

● **Provides energy savings by reducing fuel consumption - A clean heat exchanger is an efficient exchanger**

● **Restores heat transfer and water circulation to their original levels**

● **Reduces maintenance costs. Proper fill and inhibitors lead to longer running systems**

PROTECT 1

SYSTEM CORROSION AND SCALE INHIBITOR
Provides energy savings by protecting against corrosion and lime scale. Suitable for use with all metals (steel, copper, and aluminum).

Dosage: 0.4%
Available in 500mL, 2L, 20L

CLEAN 5

SYSTEM CLEANER FOR OLD HYDRONIC SYSTEMS
Provides energy savings by removing sludge and metal oxides from old hydronic systems.

Dosage: 0.5%
Available in 500mL, 2L, 20L

CLEAN 3

SYSTEM CLEANER FOR NEW HYDRONIC SYSTEMS
Provides energy savings by removing oil residue and metal oxides from new hydronic systems.

Dosage: 0.5%
Available in 500mL, 2L, 20L

CLEAN 10

SYSTEM AND BOILER CLEANER

Provides energy savings by removing limescale, sludge, and metal oxide incrustations inside the boiler and hydronic system.

Dosage: 5 - 10%
Available in 5L, 20L

Boiler

Boiler water and fire side cleaners remove incrustations from boiler components without damaging metal or plastic parts.

WATER SIDE CLEANER

CLEAN BOILER

BOILER WATER SIDE CLEANER
Removes metal oxides and limescale deposits from the water side of boiler's heat exchanger. Provides energy savings, reduces noise, and restores heat transfer to original levels.

Dosage: 10 to 20%
Available in 1L

Before

After

ACCESSORIES

P1-Test Kit

Axi-Therm Protect 1 Concentration Test Kit
→ Colour-coded drop test for accurate Protect 1 dosage
→ A single P1-Test kit can be used multiple times

| SKU	Purpose	Bottle Size	Treatment Volume	Case Qty
AXTH-BOILER-1L	Boiler Water Side Cleaner	1L (33.8oz)	5 to 10 litres (1.32 to 2.64 gal)	10
AXTH-CF9AL	2-Part, Aluminum Boiler Combustion Side Cleaner	2x1L (33.8 oz)		5
AXTH-CFSTEEL-1L	Stainless Steel Boiler Combustion Side Cleaner	1L (33.8 oz)		10
AXTH-P1-500mL	System Corrosion and Scale Inhibitor	500mL (16.9oz)	100 litres (25 gal)	12
AXTH-P1-2L	System Corrosion and Scale Inhibitor	2L (67.6 oz.)	400 litres (100 gal)	6
AXTH-P1-20L	System Corrosion and Scale Inhibitor	20L (5.28 gal)	4000 litres (1060 gal)	1
AXTH-C3-500mL	Chemical Cleaner for NEW Hydronic Systems	500mL (16.9oz)	100 litres (25 gal)	12
AXTH-C3-2L	Chemical Cleaner for NEW Hydronic Systems	2L (67.6 oz.)	400 litres (100 gal)	6
AXTH-C3-20L	Chemical Cleaner for NEW Hydronic Systems	20L (5.28 gal)	4000 litres (1060 gal)	1
AXTH-C5-500mL	Chemical Cleaner for OLD Hydronic Systems	500mL (16.9oz)	100 litres (25 gal)	12
AXTH-C5-2L	Chemical Cleaner for OLD Hydronic Systems	2L (67.6 oz.)	400 litres (100 gal)	6
AXTH-C5-20L	Chemical Cleaner for OLD Hydronic Systems	20L (5.28 gal)	4000 litres (1060 gal)	1
AXTH-C10-5L	System & Boiler Cleaner	5L (1.32 gal)	50 to 100 litres (12.5 to 25 gal)	4
AXTH-C10-20L	System & Boiler Cleaner	20L (5.28 gal)	200 to 400 litres (50 to 100 gal)	1

Fire Side Cleaners

Axi-Therm unique combustion-side chemical treatments quickly help clean and restore the heat transfer area of condensing appliances back to near new levels.

→ Restores combustion operating efficiency to near new levels by cleaning fume-side encrustations developed during the process of combustion

→ Comes with extension nozzle to help access hard to reach areas inside heat exchangers

→ Chemical is formulated to help reduce time on-site by breaking the bond between encrusted combustion residue and the surface of the heat exchanger. Simply spray, let the treatment sit, brush and thoroughly rinse away

CLEAN F-STEEL

CLEAN F9-AL

Before

After

Before

After
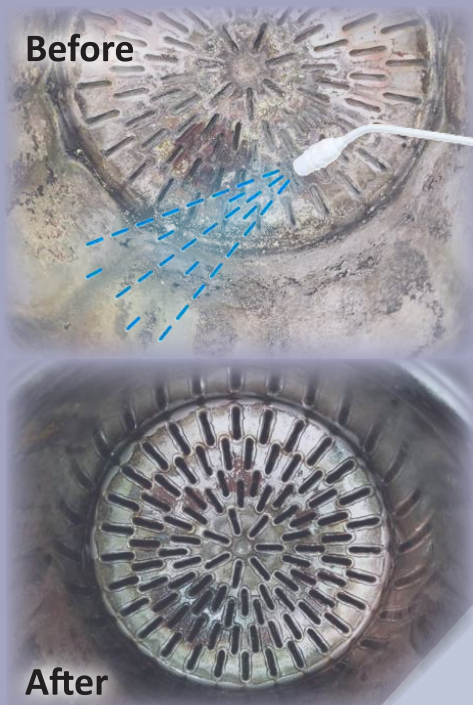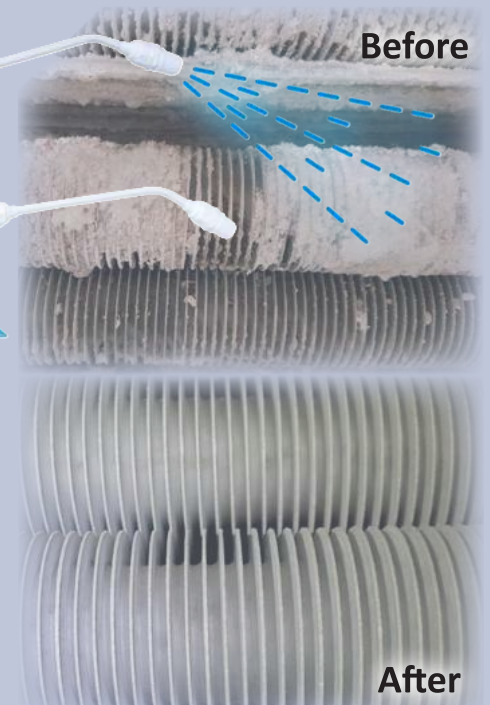
CLEAN F-STEEL
Combustion cleaner for stainless-steel heat exchangers.

Before   After
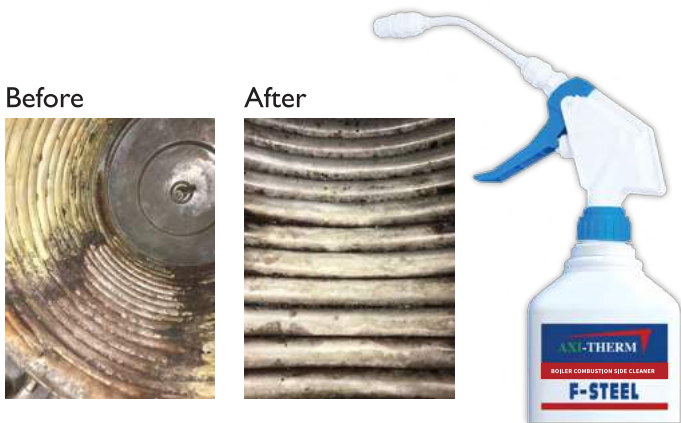
CLEAN F9-AL
Two-step combustion cleaner for aluminum heat exchangers.

Before   After

PUROPAK
HYDRONIC WATER QUALITY KIT

AXIOM

② Demineralize

① Clean

③ Protect

*PuroPAK-CP shown
Also Available: PuroPAK-P*
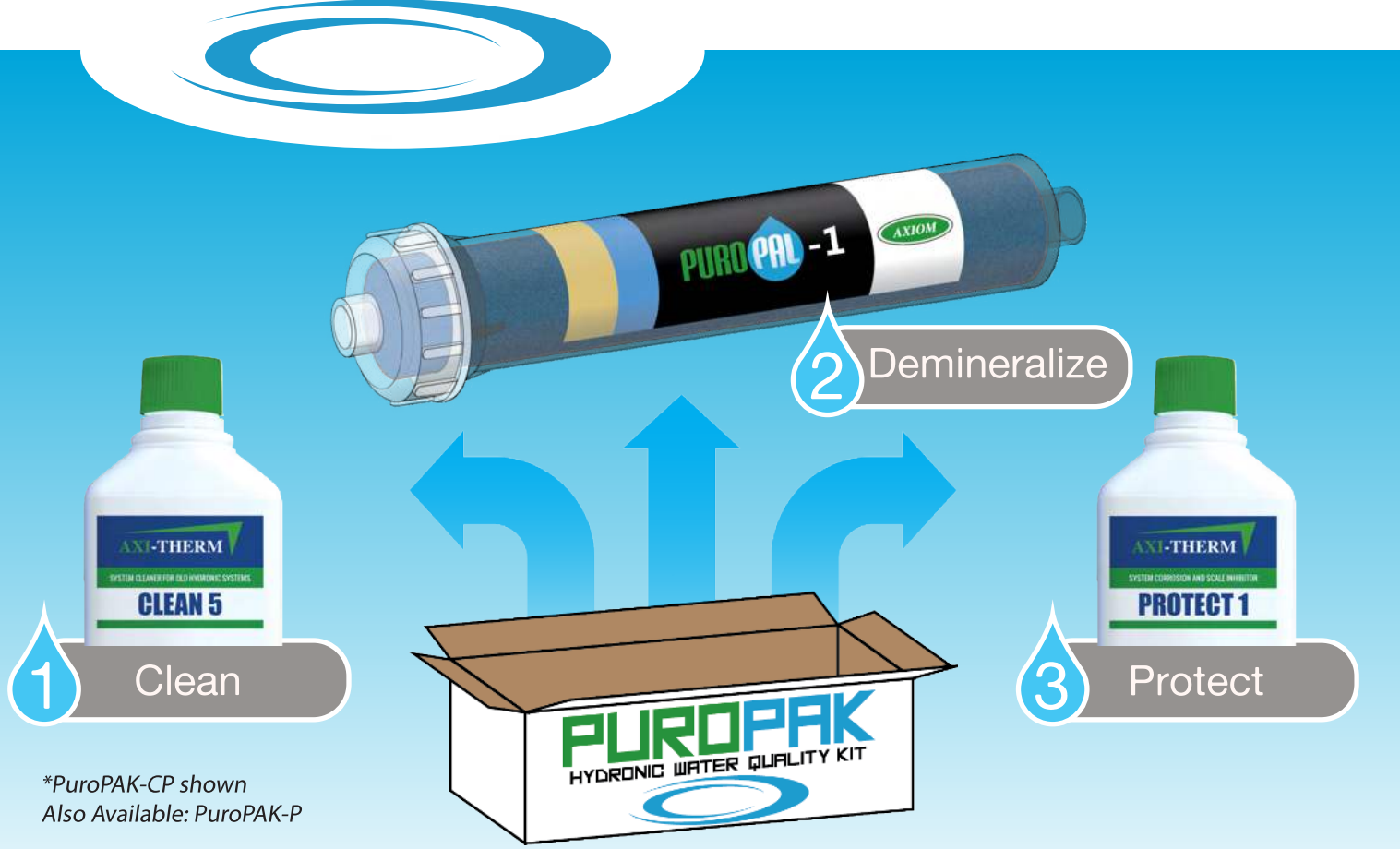
PuroPAK Options		PuroPAK-P	PuroPAK-CP
Clean 5	Clean sludge and metal oxide formations from existing systems		1
PuroPal-1	Demineralize system fill water	2	2
Protect 1	Provide lasting protection against corrosion and scale formation	3	3

**Your "In the Box"
solution to hydronic water quality**

Expansion Tank Brackets

HN-3

HN-1

HN-2

NEW
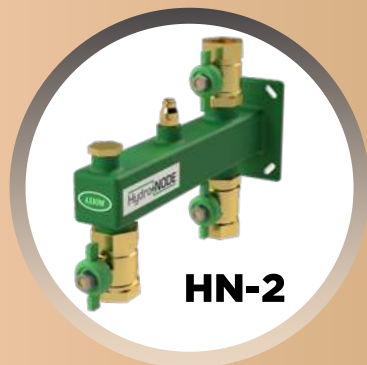
HN-3

Featuring: ETV-1

NEW
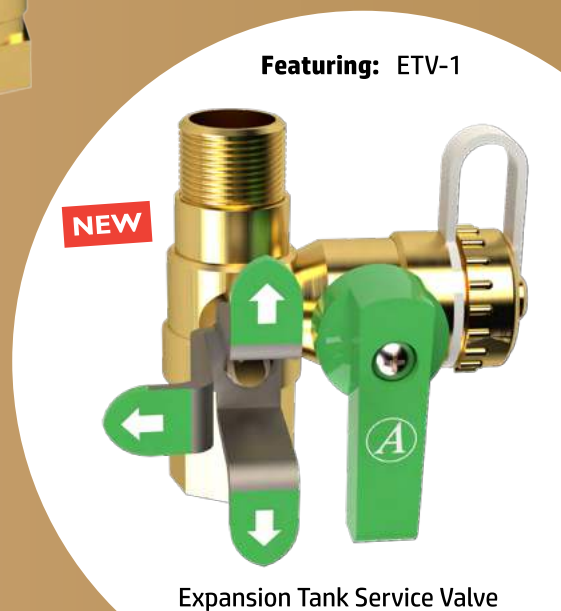
Expansion Tank Service Valve
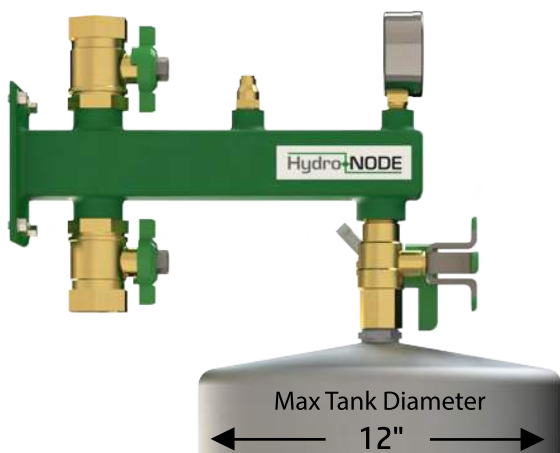
The Hydro-NODE is an easy connect wall bracket designed to mount the critical hydronic system components in a convenient location.

Max Tank Diameter
12"
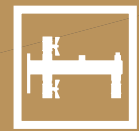
Hydro-NODE

Hydro NODE

The Hydro-NODE is an easy connect bracket designed to mount critical hydronic system components in a convenient location.

Features

* **Securely mount critical hydronic components**
* **Provides means for easy servicing of expansion tank**
* **Powder-coated for professional finish**

HN-1

HN-1

* Robust welded-steel bracket
* Bracket includes five individual NPT connections
    - Three ½" FNPT open connections
    - Two ¼" FNPT open connections

HN-2

HN-2

Includes the same robust welded-steel bracket as the HN-1 and comes fully assembled with the following connections:

* Three ½" FNPT ball valve connections
    - Expansion tank connection (suitable for up to 12" diameter tanks)
    - System feeder or fill inlet connection
    - Closed loop hydronic system connection
* Two ¼" FNPT connections
    - ¼" manual air vent
   - ¼" FNPT plugged connection for accessory component

HN-3

NEW

HN-3

Includes the same robust welded-steel bracket as the HN-1 and comes fully assembled with the following connections:

* One ½" 3-way Expansion Tank Valve with Hose drain
* Two ½" FNPT ball valve connections
    - System Feeder or fill-inlet connections
    - Closed loop hydronic system connection
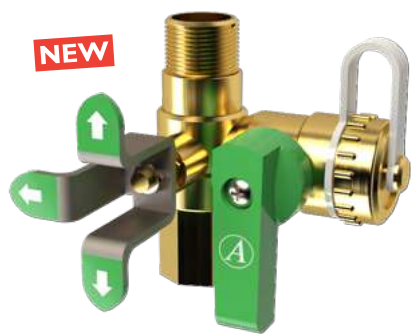* One ¼" manual air vent
* One ¼" pressure gauge

To System

Air Vent

Pressure Gauge

Hydro-NODE

ETV-1

Make Up Connection

THIS

OR

THIS
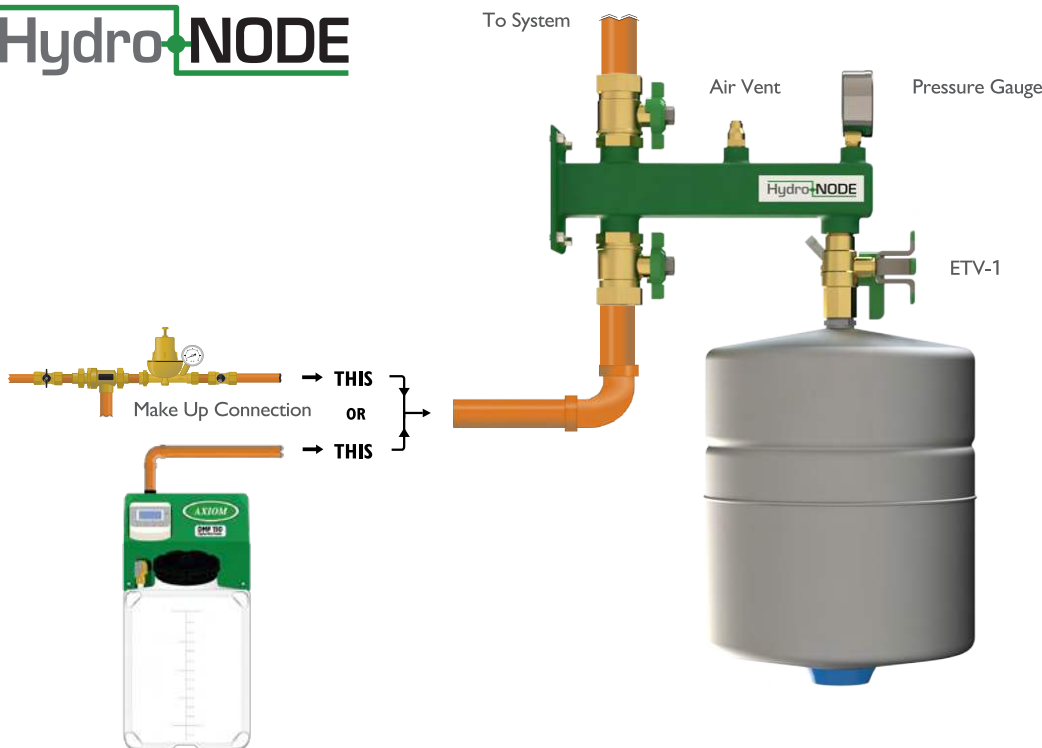
*Valves come with removable handles
 for anti-tampering purposes

ETV-1

NEW

Expansion Tank Service Valve

The ETV-1 expansion tank service valve simplifies the process of filling, isolating, draining, and servicing a hydronic expansion tank.

∗ Forged brass ball valves with blow-out proof stem
∗ ½" Multi-function 3-way valve enables contractors to:
   - Isolate and drain expansion tank
   - Isolate and drain the closed-loop system
   - Fill the closed-loop system
∗ ½" MNPT x FNPT x GHT connections
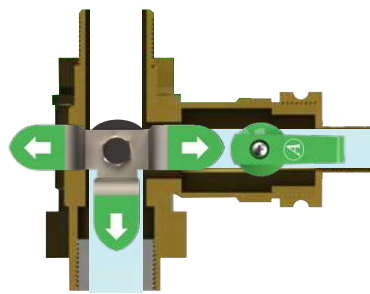∗ Replaces multiple components and reduces installation time

Valve Positions
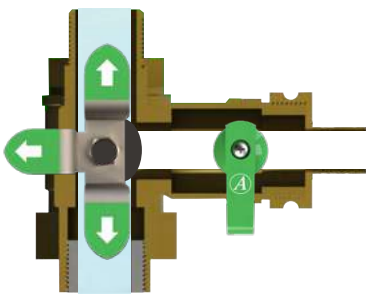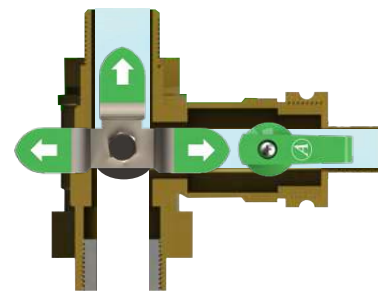

Normal Operation
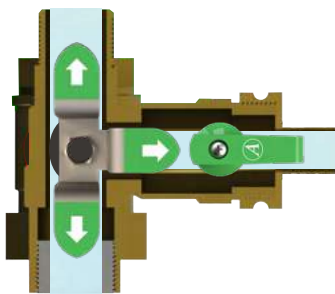
**Fill / Drain System
& Expansion Tank**

**Fill / Drain Expansion
Tank**

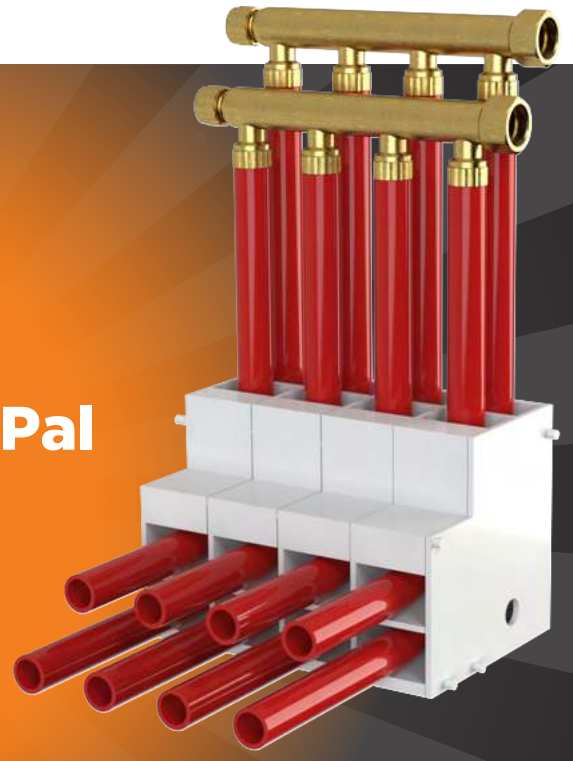**Fill / Drain System**

PEX Tubing Organizer

PEX-Pal™

PEX-Pal

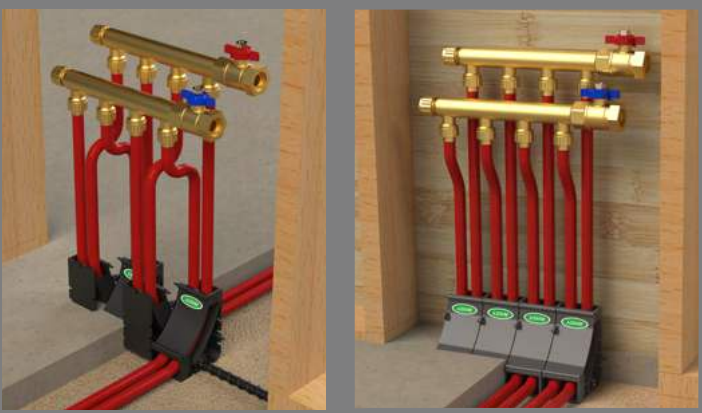**PEX-Jr**

Ideal for over-pour radiant floor heating

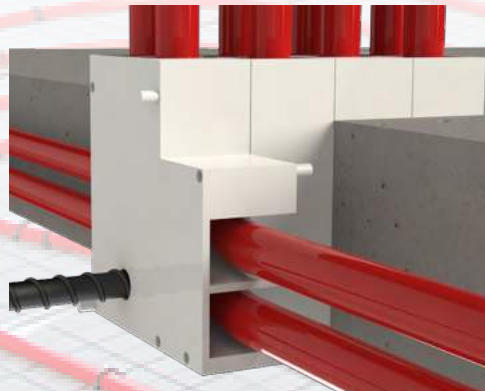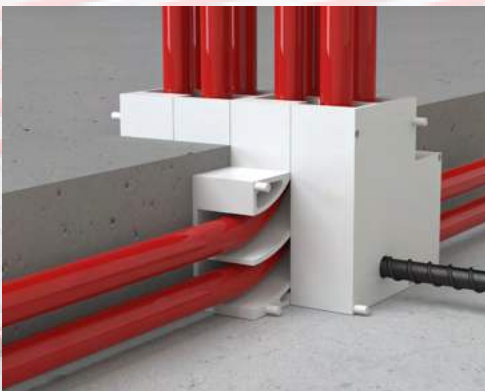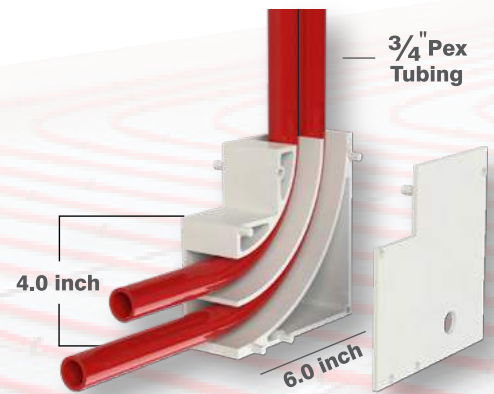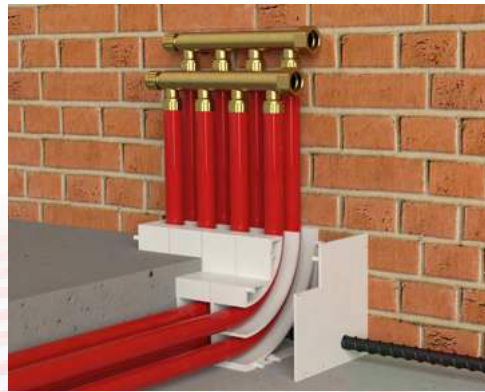Ideal for in-floor high mass radiant floor heating

3.2 inch

PEX-Pal™

PEX-Pal tubing organizer collects and organizes in-floor tubing used in high-mass radiant floor heating installations.
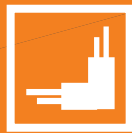
Features

- Units are designed as modular blocks that quickly and easily snap together to match the number of loops on the manifold
- Two-channel design positions both the supply and return piping with the appropriate spacing required for connections to the manifold
- Modules are constructed of a high impact strength plastic suitable to be embedded in a concrete slab
- Enclosed design protects the tubing at the poured-floor surface
- Modules are designed to connect together with outlets orientated in opposite directions, for manifold applications located on interior walls, accommodating piping routed in opposite directions
- Can be easily secured in place to available decking, rebar, ready rod, temporary manifold support or wooden forms, prior to concrete being poured
- Designed to maintain manufacturers' recommended minimum bend radius for $\frac{3}{4}$" and smaller diameter plastic piping
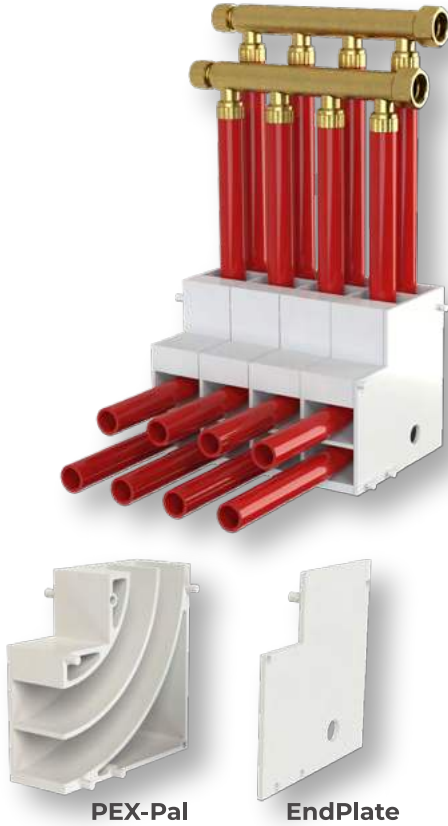
PEX-Pal   EndPlate

Product	Description	Box Qty
PEX-Pal	Two-channel tubing organizer module for (up to $\frac{3}{4}$" Pex)	40
EndPlate	EndPlate for PEX-Pal	10

$\frac{3}{4}$" Pex Tubing

4.0 inch

6.0 inch

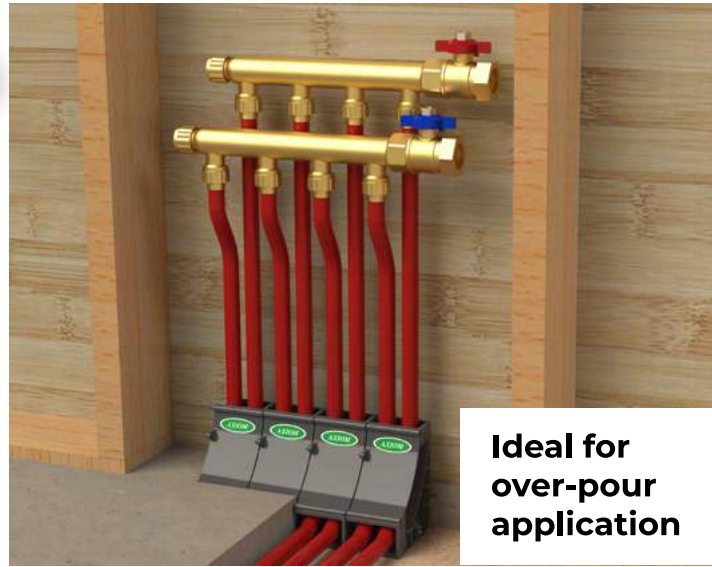# PEX-Pal Jr™

½" Pex Tubing

NEW

1.35 inch

3.2 inch

Ideal for over-pour application

PEX-Jr

The PEX-Pal Jr tubing organizer is a stand-up bracket that allows you to easily collect and organize in-floor tubing commonly used in over-pour radiant floor heating installations.

Features

- Modules protect the tubing at the floor surface
- Ideal for over-pour radiant installations
- Multiple modules press-fit together to match the number of loops on the manifold
- Each PEX-Pal Jr module fits two ½" PEX tubing runs (supply/return)
- Compact module design fits inside 2" x 4" interior wall
- Outlets can be reversed for manifold locations with piping in opposite directions
- Enclosed sides eliminate the need for an endplate
- Multiple mounting options (screwed to floor, backplate, or secured with rebar)
- Constructed of high impact polystyrene
- Designed to maintain manufacturers' recommended minimum bend radius for ½" plastic piping

Product	Description	Box Qty
PEX-Jr	Stand-up tubing module (for two ½" tubing runs)	12

FilterPak

SFP SERIES

**SFP-10
SFP-20**

FH SERIES

**FH-10
FH-20**

Hydronic Sidestream Filter Packages deliver effective ongoing protection against the damaging effects of debris in all types of closed-loop hydronic systems. Ensuring the fluid in a closed-loop hydronic system is clean helps reduce overall maintenance and operating costs of the system. Monitoring and maintaining clean hydronic system fluid is now simple and convenient.

Max Temperature: 200°F (93°C)
Max Pressure: 125psi (860kPa)
Connections:

SFP-10, FH-10   ¾" FNPT
SFP-20, FH-20   1" FNPT

Features

- ● **Brass and stainless-steel construction**
- ● **Manual balancing valve incorporates flow balancing with memory stop, filter cartridge isolation and an integral manual air vent**
- ● **Comes with standard DOE 25 micron cotton wound filter cartridge**
  - 5 and 10 micron filter options available
- ● **Filter Housing uses a double O-ring for reliable leak-free use**
  - Includes ball valve drain valve with hose connection to ensure safe, mess free fluid handling
  - Can be used for chemical dosing up to 0.8 USG (3.0L)

Model	Connections	Sidestream Flow Rate	Filter Size	Filter Options (micron rating)	Vessel Volume
SFP-10 (FH-10)	¾" FNPT	1-10 GPM (System <200GPM)	10" DOE cotton wound	5, 10, 25	0.4 gal (1.5L)
SFP-20 (FH-20)	1" FNPT	1-20 GPM (System <400GPM)	20" DOE cotton wound	5, 10, 25	0.8 gal (3.0L)

ASFI SERIES

**ASFI-075
ASFI-100**

Sight Flow Indicators

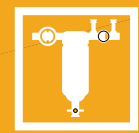**Max Temperature:** 200°F (93°C)
Max Pressure: 125psi (860kPa)
Connections:

ASFI-075   ¾" FNPT
ASFI-100   1" FNPT

- ● **Sight Flow Indicator provides a quick indication of the 'health' of the fluid and detects the presence of flow**
- ● **Rebuild kits available (glass, gaskets, and opening tool)**

CHEMICAL BY-PASS FEEDERS

CBF SERIES

CBF-2

CBF-5

CBF-2-SS

Chemical By-Pass Feeders provide simple delivery of chemicals to any closed loop system

| **Max Pressure and Temperature:** | 265psi (1.83MPa) at 200°F (93°C) 300psi (2.07MPa) models available |
| **Connections:** | FNPT (¾") |

Features

- Allows for safe and easy chemical dosing
- Ball valves for easy chemical dosing and pot feeder isolation
- Graduated funnel with stainless steel filter for clean, accurate, and mess free chemical addition
- Pressure vessel and fittings made with brass and carbon steel
- 2 Gallon (7.6L) models comes with wall bracket
- 5 Gallon (18.9L) model comes with adjustable steel legs

Model	Size	Pressure Vessel Volume	Max Pressure
CBF-2	¾"	2 gal (7.6L)	265psi (1.83MPa)
CBF-5	¾"	5 gal (18.9L)	265psi (1.83MPa)
CBF-2-SS	¾"	2 gal (7.6L)	265psi (1.83MPa)

CBF-HP SERIES

CBF-2-HP

CBF-5-HP

HIGH PRESSURE MODELS

Features

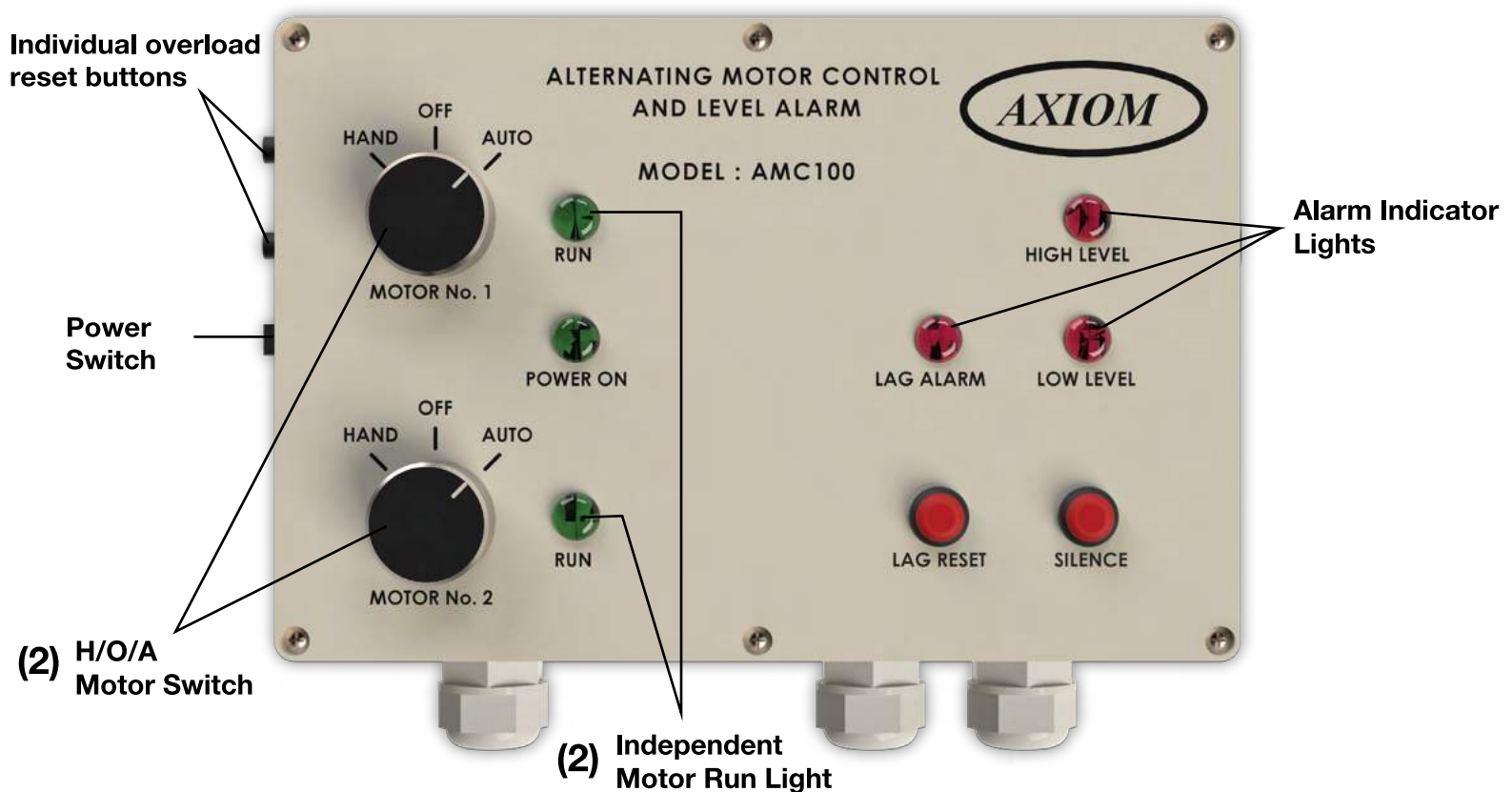- Fully accessible lid
- Maximum pressure rating is 300 psi

Model	Size	Pressure Vessel Volume	Max Pressure
CBF-2-HP	¾"	2 gal (7.6L)	300psi (2.07MPa)
CBF-5-HP	¾"	5 gal (18.9L)	300psi (2.07MPa)

AMC100

The AMC100 Motor Control is designed to operate 1 or 2 devices by providing stand-by staging operations. with its configurable inputs and alarms, it can be used in a wide range of residential or commercial applications that require the control of booster pumps, sump pumps, fans, compressors or other equipment.

NEW

Individual overload reset buttons

Power Switch

(2) H/O/A Motor Switch

(2) Independent Motor Run Light

Alarm Indicator Lights

The sequencer includes indicator lights and a selectable audible alarm. Its unique "lag alarm" output allows for a local (and/or) remote indication of the operation of the "lag" or "stand-by" output.

Feature and Benefits

Lead-lag staging control

2 Hand/Off/Auto switches

LED indicating Lights (Power, Run, Alarm)

Dry contacts for "Motor Run"/"Low-Level"
"High-Level"/ and "Lag Alarm"
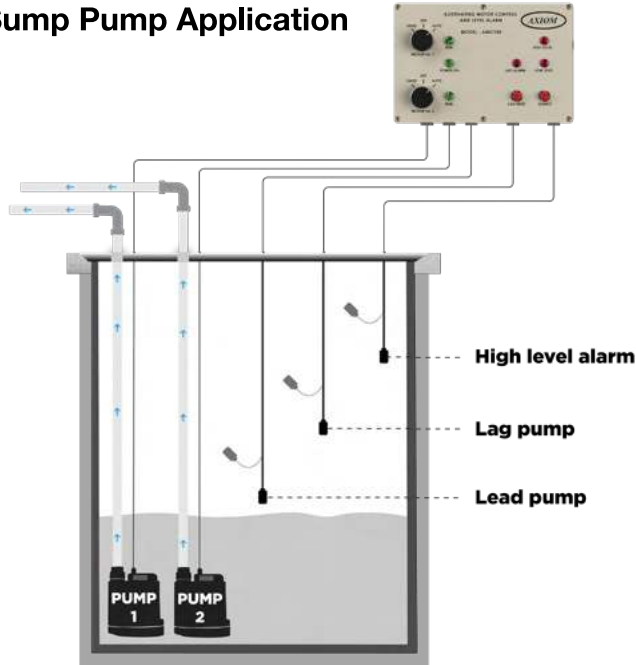
Individual overload protection
w/reset buttons

Configurable inputs (N.O or N.C)

Audible buzzer for alarm

Motor shut down on a low (or high) level

Sump Pump Application

High level alarm
Lag pump
Lead pump
PUMP 1 PUMP 2
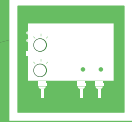
Available Configurations :

AMC100-SP-D-0 : Sump Pump Duplex Controller

AMC100-SP-S-0 : Sump Pump Simplex Controller

AMC100-SP-D-3 : Sump Pump Duplex Controller, w/ (3) FLOAT20

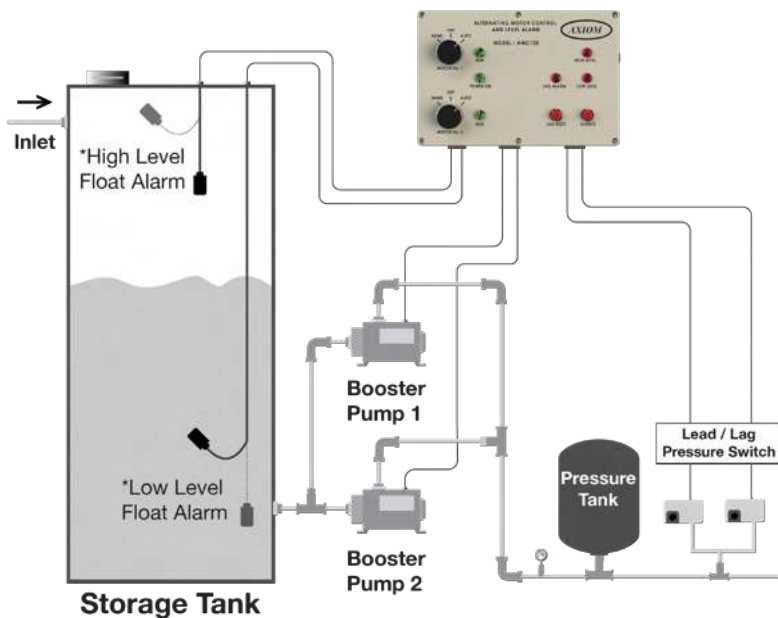**AMC100-SP-S-2 :** Sump Pump Simplex Controller, w/ (2) FLOAT20

Pump Up Application

High Level alarm
Lead pump
Lag pump
Low Level alarm
PUMP 1 PUMP 2
Outlet
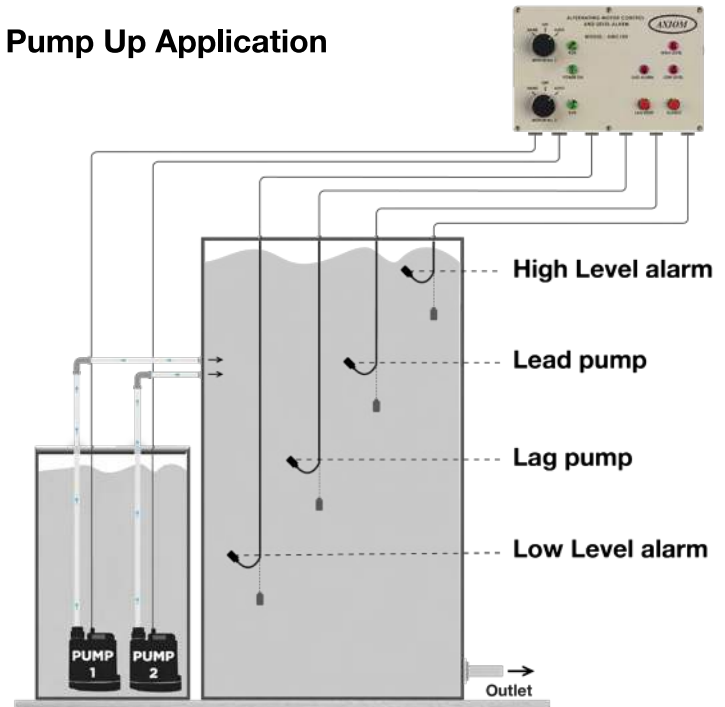
Available Configurations :

AMC100-PU-D-0 : Pump-Up Duplex Controller

AMC100-PU-S-0 : Pump-Up Simplex Controller

AMC100-PU-D-4 : Pump-Up Duplex Controller, w/ (4) FLOAT20

AMC100-PU-S-3 : Pump-Up Simplex Controller, w/ (3) FLOAT20

Booster Pump Application

Inlet
*High Level Float Alarm
*Low Level Float Alarm
Storage Tank
Booster Pump 1
Booster Pump 2
Pressure Tank
Lead / Lag Pressure Switch

Available Configurations :

AMC100-BP-D-0 : Booster Pump Duplex Controller

AMC100-BP-S-0 : Booster Pump Simplex Controller

AMC100-BP-D-2 : Booster Pump Duplex Controller, w/ (2) FLOAT20

AMC100-BP-S-2 : Booster Pump Simplex Controller, w/ (2) FLOAT20

Oil Detection Application

OIL SMART ®

Helps satisfy elevator Code ASME A17.1

OIL SMART ®

- Pump control and alarm components differentiate between oil and water
- Alarm visible indicator: Red beacon alarm light, yellow light for oil, white light for water, alarm test and silence buttons
- Alarm horn sounds at 85 decibels at 10 feet
- Remote monitoring dry contacts: oil, water, high Liquid

Index

Part #	Wgt (lbs.)	Page(s)
SF100-UHP	48	3
SF100-UHP-L	61	3
SFP-10	10	24
SFP-10-10M	0.5	24
SFP-10-25M	0.5	24

Part #	Wgt (lbs.)	Page(s)
SFP-10-5M	0.5	24
SFP-20	13	24
SFP-20-10M	0.5	24
SFP-20-25M	0.5	24
SFP-20-5M	0.5	24

Notes

Visit <u>www.axiomind.com</u> to Find a Rep in your area.