

*AXIOM*

# Specialty Products For Hydronic Systems



2025

# System Feeders

AXIOM

## SF100

REDESIGNED 60USG TANK

- Larger Capacity
- Improved Design
- Includes Level Gauge

### Available on

- |                 |                |                  |
|-----------------|----------------|------------------|
| ▪ SF100         | ▪ SF100-UHP    | ▪ SF100-D-P      |
| ▪ SF100-HP      | ▪ SF100-D      | ▪ SF100-D-P-2PRV |
| ▪ SF100-2PRV    | ▪ SF100-D-2PRV | ▪ SF100-D-P-4x   |
| ▪ SF100-2PRV-HP | ▪ SF100-SS     |                  |



60 USG

## Digital Mini Feeders



USER-FRIENDLY CONTROL



TILTED 5" FILL ACCESS



DMF300  
17 USG








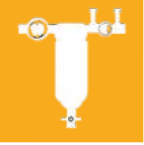
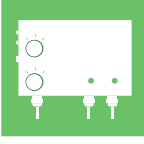



DMF150  
4.5 USG



INCLUDES WALL BRACKET

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# System Feeders

## PressurePal

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.

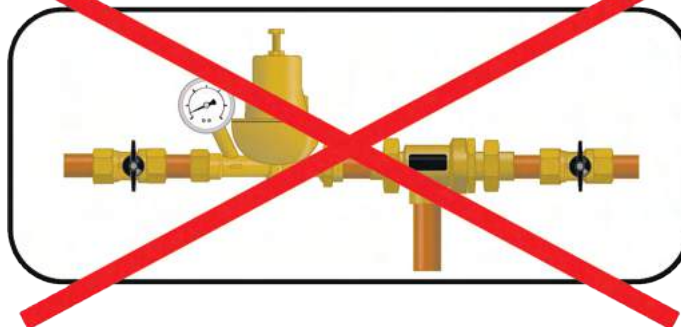
### Features and Benefits

- \* 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



MF200

### 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

## Light Commercial



DMF300

### 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

## Commercial

Redesigned  
60 USG Tank



### SF100

- \* 5-55 psi (Higher pressure models also available)
- \* 60 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 Specialty Build Options (SF100-x-xx):

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



[Online Calculator]

Use our (Feeder Sizer) calculator online at  
[https://axiomind.com/axiom\\_products\\_cat/system-feeders/](https://axiomind.com/axiom_products_cat/system-feeders/)

## System Feeder Selection Chart

Model	System Volume	System Cold Static Fill Pressure
<b>DMF150</b> (4.5 USG)	Below 285 L (75 US Gal)	0 to 310 kPa (0-45 psi)
<b>MF200</b> (6 USG)	Below 285 L (75 US Gal)	69 to 170 kPa (10-25 psi)
<b>DMF300</b> (17 USG)	285-1135 L (75-300 US Gal)	0 to 310 kPa (0-45 psi)
<b>SF100</b> (60 USG)	1135-3030 L (300-800 US Gal)	35-380 kPa (5-55 psi)
<b>SF100-HP</b> (60 USG)	1135-3030 L (300-800 US Gal)	170-585 kPa (25-85 psi)
<b>SF100-L</b> (100 USG)	Above 3030 L (800 US Gal)	35-380 kPa (5-55 psi)

## ACCESSORIES

### Alarm Panel



#### RIA10-1-SAA

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

### Wall Bracket



#### MF200-1430

Wall Bracket Assembly for mounting MF200 System Feeder to the wall

### Hydro-NODE Bracket



#### HN-3

Expansion Tank Wall Bracket comes with pressure gauge, manual air vent, two 1½" isolation ball valves and one ETV-1

### Expansion Tank Valve



#### 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



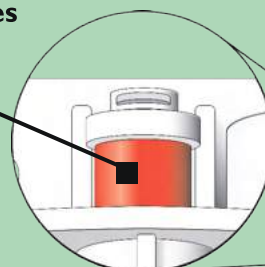
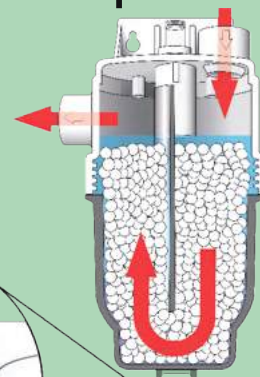
Reversible wall-mounted bracket

Manual reset float indicates unit in bypass mode and requires maintenance

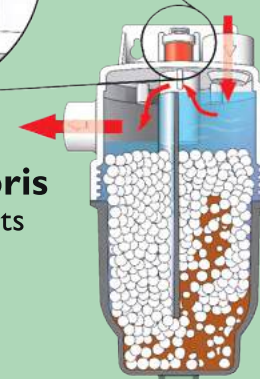
LipHter+ media

Twist off capsule allows quick media replacement

## Normal Operation



**Clogged with Debris**  
Integral bypass prevents condensate backup



## JOINS OUR FAMILY OF CONDENSATE NEUTRALIZERS



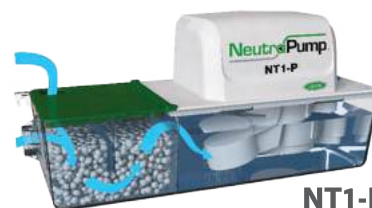
NC-1



NC-2



NT15



NT1-P



NT25



NT25-P18

NC-S "HARD PIPE KIT" INCLUDES:



NC "FULL KIT" INCLUDES:



Ideal for  
condensing appliances

# Condensate Neutralizers

## NeutraPal™



**NC-1** "Full Kit"

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



**NC-2** "Full Kit"

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



**NC-1W**

"Wall mounted"

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<sup>+</sup> 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<sup>+</sup> 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 3/4" PVC socket adapters
  - NC-1W "Wall Hung" Neutralizer

## NeutraPro™

**NT15**



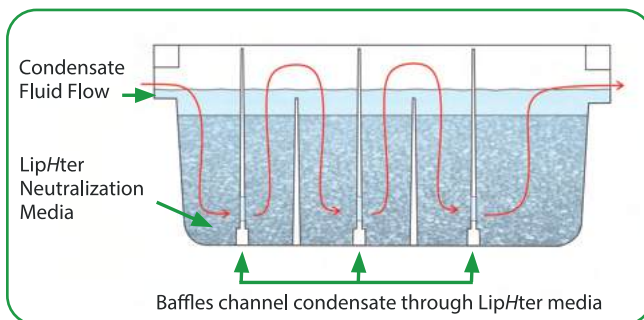
**NT25**



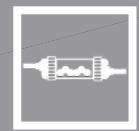
NeutraPro Series are designed to neutralize large volumes of acidic condensate at higher flow rates. They are constructed of corrosion resistant polypropylene material and include 1" NPT PVC union connections.

### 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



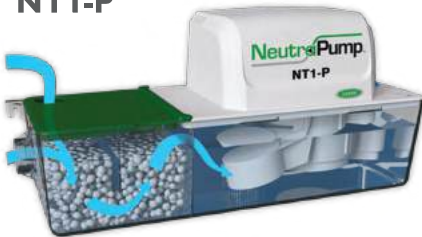




NeutraPump Series are designed for the dual purpose of neutralizing acidic condensate and pumping the fluid to a suitable location.

## NeutraPump™

**NT1-P**



**NT25-P18**



**NT70-AP43**

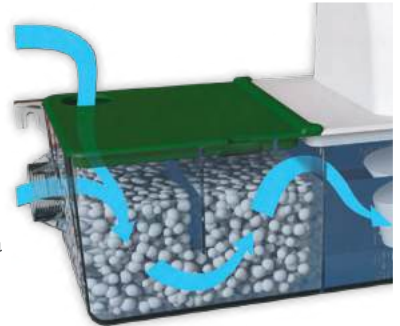


### Features

- 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 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<sup>+</sup> media
  - Tank is designed with baffles to weave acidic fluid
  - One connection that bypasses neutralizing media
- Pump is capable of 20-feet of vertical lift
- Pump includes high level safety switch



### 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 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

## Condensate Neutralizer Selection Chart

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**



[Online Calculator]

Model	BTU/hr at operating efficiency	Condensate Flow Rate
<b>NeutralPal Series</b>		
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
<b>NeutraPro Series</b>		
NT15	3,000,000 @ 96%	20 Gal/hr
NT25	7,000,000 @ 96%	45 Gal/hr
<b>NeutraPump Series</b>		
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

Use our (Neutra Sizer) calculator online at

[https://axiomind.com/axiom\\_products\\_cat/condensate-neutralizers/](https://axiomind.com/axiom_products_cat/condensate-neutralizers/)



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

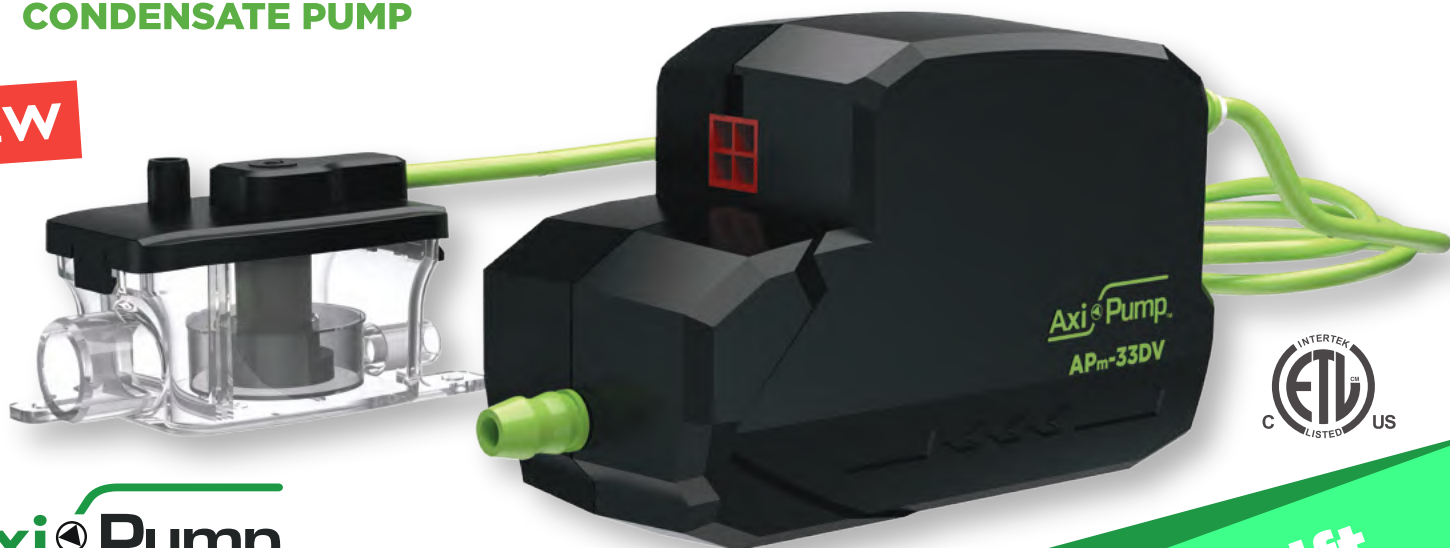
# Condensate Pumps



## 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
- ▶ Tubing Kit (AP23-T only)



### AP23-S

- ▶ 23' Lift
- ▶ Low Power Draw
- ▶ Comes with High Level Switch
- ▶ Tubing kit (AP23-ST only)



### AP43-HTS

- ▶ 43' Lift
- ▶ Rated For High Temperature (up to **185 °F / 85 °C**)
- ▶ Comes with High Level Switch

# Condensate Pumps

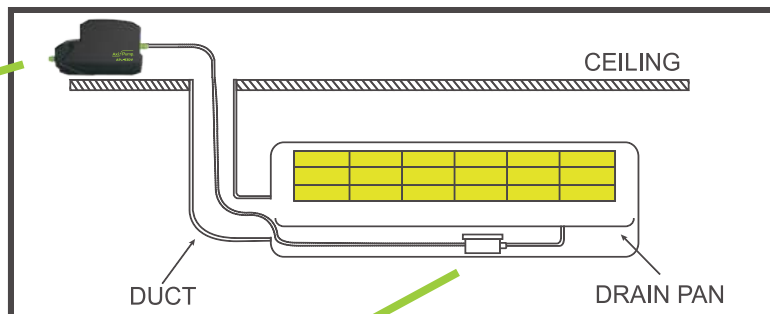


Axi-Pump Mini-Split Condensate Pump is the best solution for ductless mini-split appliances.



Pump

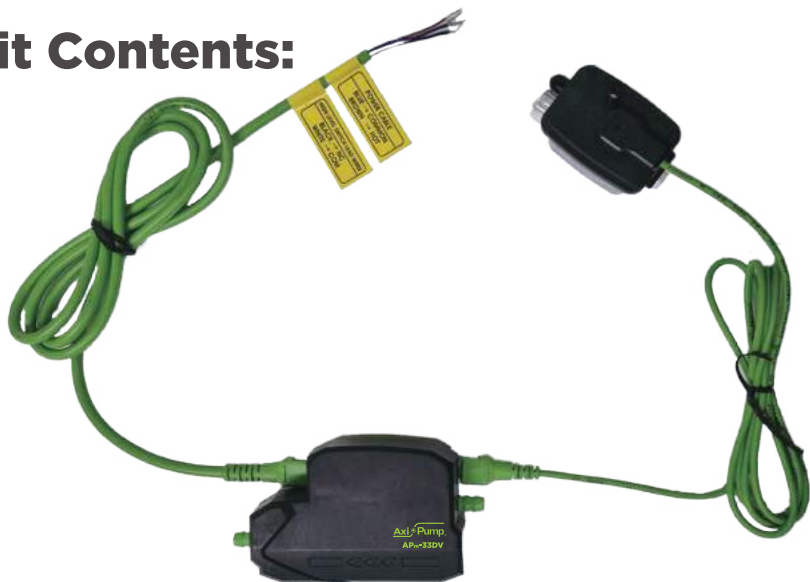
- ▶ Max 33' Lift
- ▶ Dual Voltage (100-240v)
- ▶ Ultra Quiet



Reservoir & Level Sensor

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

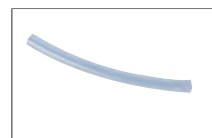
## Kit Contents:



Inlet hose



Pump-reservoir Connection hose



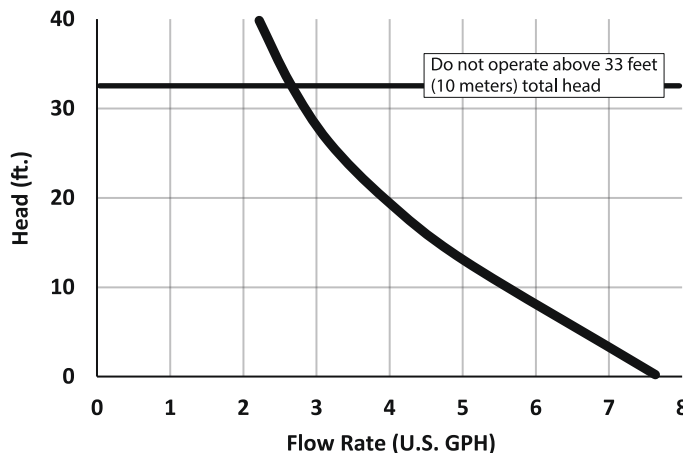
Breather hose



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







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-T (Includes 20' Tubing)



**AP23-S**

\* AP23-ST (Includes 20' Tubing)

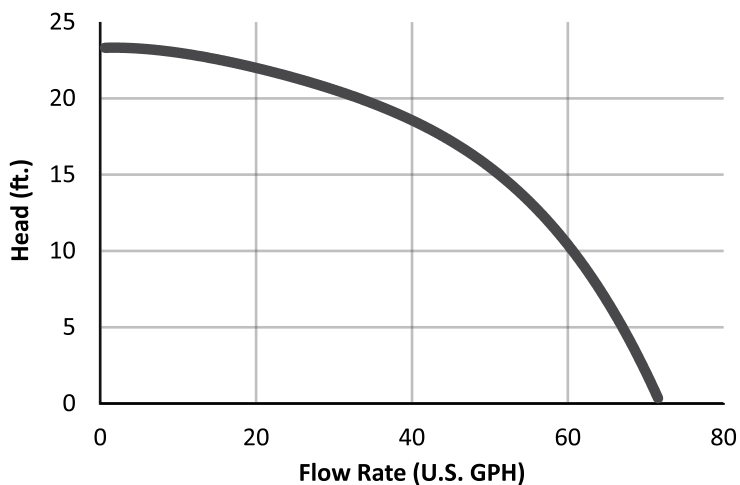


**AP43-HTS**

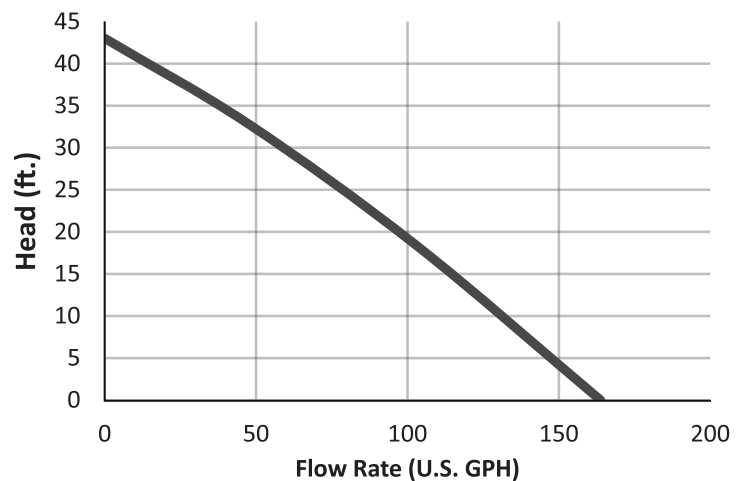
## Features and Benefits

	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)	185°F (85°C)
Continuous Duty	✓	✓	✓
Minimum Fluid pH	2.3	2.3	2.3
ETL Listed	✓	✓	✓

**AP23 Series Pump Curve**



**AP43-HTS Pump Curve**



## Hydronic System Protection

**NEW**



Domestic water with dissolved minerals & gases.

PuroPal demineralized water.

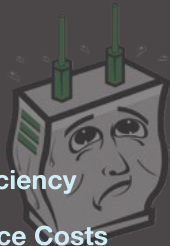
**PUROPAL**  
H<sub>2</sub>O  
Demineralizer  
**PUROPAL-1W**  
Treats approximately  
**65 USG**  
(inlet water 200ppm)  
Colour Change Resin

Beige colour	=	Cartridge expended
Couleur beige	=	Cartouche usagée
Blue colour	=	Cartridge functional
Couleur bleue	=	Cartouche fonctionnelle

Special PuroPal colour changing resin

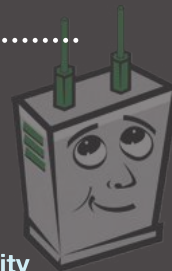
Poor water quality in hydronic systems can lead to:

- Scale Build up
- Corrosion
- Reduced System Efficiency
- Increased Maintenance Costs
- Shortened Equipment Lifespan
- Risk of Leaks and Failure



Using PuroPal Demineralizers removes minerals and salts which helps:

- Lower TDS/Hardness
- Prevent scale build up
- Reduce corrosion
- Deliver reliable water quality
- Improve long-term system efficiency
- Avoid costly repairs



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



Special PuroPal  
colour changing resin

# H<sub>2</sub>O Demineralizers



## DISPOSABLE CARTRIDGES

### PuroPal-1W

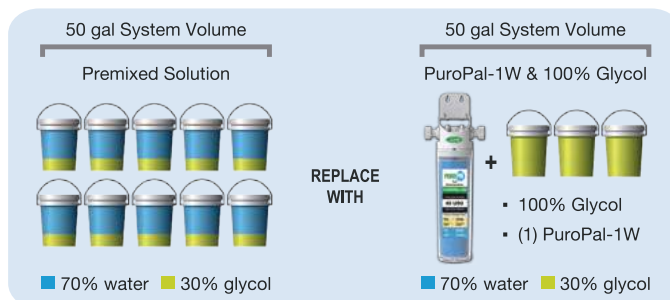


**NEW**

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.

### PuroPal-1W

- ◆ 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-1W cartridge will treat approximately 65 USG (inlet water 200ppm)



*Choose a PuroPal to avoid buying/transporting water with premixed glycol solutions.*



### 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

Mobile solutions designed to treat large amounts of water



PuroPal Leader



Leader Cart-HP

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)

## Protect 1

**Express** Canister

**NEW**

### INHIBITOR

- ◆ Provides superior protection against scale & corrosion in closed-loop systems
- ◆ Helps reduce maintenance costs
- ◆ pH neutral



## Clean 5

**Express** Canister

**NEW**

### CLEANER

- ◆ Helps restore heat transfer area & fluid circulation in closed-loop systems
- ◆ Removes sludge and metal oxides
- ◆ pH neutral

**AXI-THERM**



## QUICK & CONVENIENT CHEMICAL INTRODUCTION

- ◆ Suitable for all closed-loop system metals & gaskets
- ◆ 3/4" Garden hose swivel adapter
- ◆ Clear plastic tubing helps identify when dosage is complete
- ◆ Low concentration requirement
- ◆ Treats 33USG (125L) system volume





## 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



NEW

#### PROTECT 1 Express

##### SYSTEM CORROSION AND SCALE INHIBITOR

- ♦ 3/4" Garden hose swivel adapter
- ♦ Treats 33USG (125L) system volume

Available in 300mL



#### 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



NEW

#### CLEAN 5 Express

##### SYSTEM CLEANER FOR OLD HYDRONIC SYSTEMS

- ♦ 3/4" Garden hose swivel adapter
- ♦ Treats 33USG (125L) system volume

Available in 300mL



#### 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

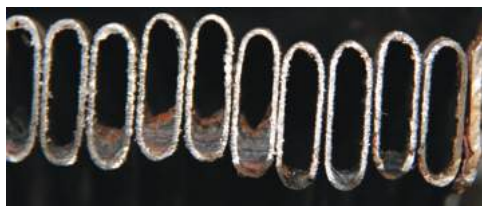


### CLEAN BOILER

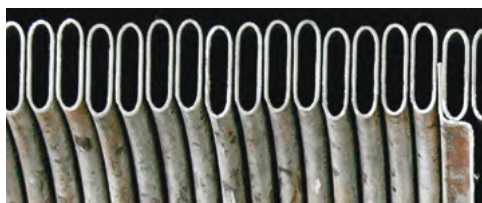
**BOILER WATER SIDE CLEANER**  
Removes metal oxides and limescale deposits from the water side of boiler's heat exchanger. Provides energy savings, reduces noise, and restores heat transfer to original levels.

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
<b>AXTH-BOILER-1L</b>	Boiler Water Side Cleaner	1L (33.8oz)	5 to 10 litres (1.32 to 2.64 gal)	10
<b>AXTH-CF9AL</b>	2-Part, Aluminum Boiler Combustion Side Cleaner	2x1L (33.8 oz)		5
<b>AXTH-CFSTEEL-1L</b>	Stainless Steel Boiler Combustion Side Cleaner	1L (33.8 oz)		10
<b>AXTH-P1X-300mL</b>	System Corrosion and Scale Inhibitor - Express	300mL (10 oz)	125 litres (33 gal)	10
<b>AXTH-P1-500mL</b>	System Corrosion and Scale Inhibitor	500mL (16.9oz)	100 litres (25 gal)	12
<b>AXTH-P1-2L</b>	System Corrosion and Scale Inhibitor	2L (67.6 oz.)	400 litres (100 gal)	6
<b>AXTH-P1-20L</b>	System Corrosion and Scale Inhibitor	20L (5.28 gal)	4000 litres (1060 gal)	1
<b>AXTH-C3-500mL</b>	Chemical Cleaner for NEW Hydronic Systems	500mL (16.9oz)	100 litres (25 gal)	12
<b>AXTH-C3-2L</b>	Chemical Cleaner for NEW Hydronic Systems	2L (67.6 oz.)	400 litres (100 gal)	6
<b>AXTH-C3-20L</b>	Chemical Cleaner for NEW Hydronic Systems	20L (5.28 gal)	4000 litres (1060 gal)	1
<b>AXTH-C5X-300mL</b>	Chemical Cleaner for OLD Hydronic Systems - Express	300mL (10 oz)	125 litres (33 gal)	10
<b>AXTH-C5-500mL</b>	Chemical Cleaner for OLD Hydronic Systems	500mL (16.9oz)	100 litres (25 gal)	12
<b>AXTH-C5-2L</b>	Chemical Cleaner for OLD Hydronic Systems	2L (67.6 oz.)	400 litres (100 gal)	6
<b>AXTH-C5-20L</b>	Chemical Cleaner for OLD Hydronic Systems	20L (5.28 gal)	4000 litres (1060 gal)	1
<b>AXTH-C10-5L</b>	System & Boiler Cleaner	5L (1.32 gal)	50 to 100 litres (12.5 to 25 gal)	4
<b>AXTH-C10-20L</b>	System & Boiler Cleaner	20L (5.28 gal)	200 to 400 litres (50 to 100 gal)	1



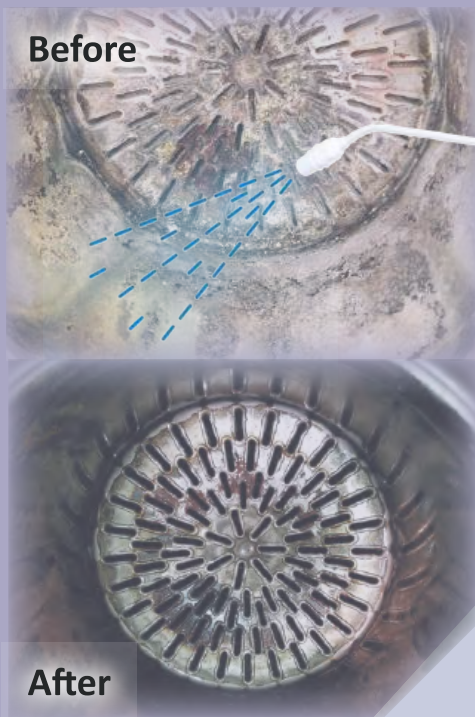
# Axi-Therm

## Fire Side Cleaners

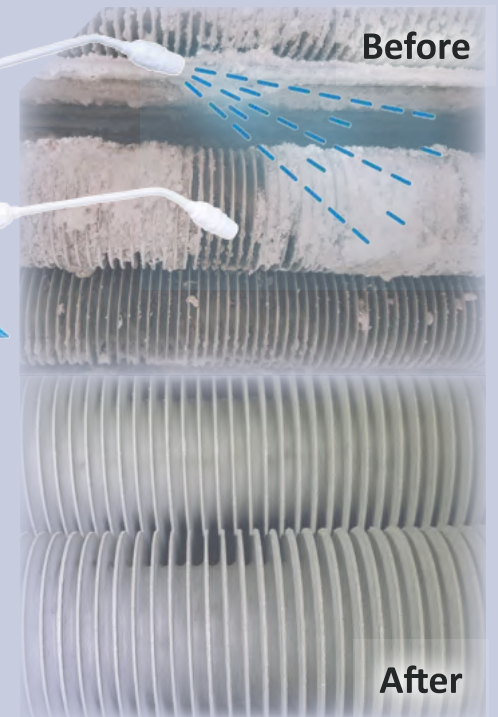
Axi-Therm unique combustion-side chemical treatments quickly help clean and restore the heat transfer area of condensing appliances back to near new levels.

- 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

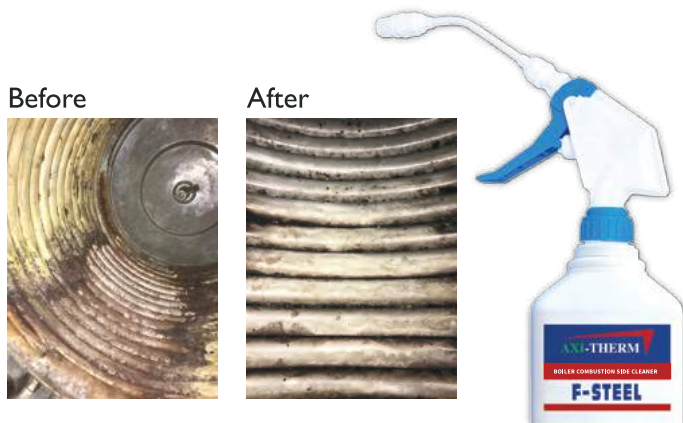


### CLEAN F9-AL



### CLEAN F-STEEL

Combustion cleaner for stainless-steel heat exchangers.



### CLEAN F9-AL

Two-step combustion cleaner for aluminum heat exchangers.







# Hydro-NODE

## Expansion Tank Brackets



**HN-1**



**HN-2**



**HN-3**

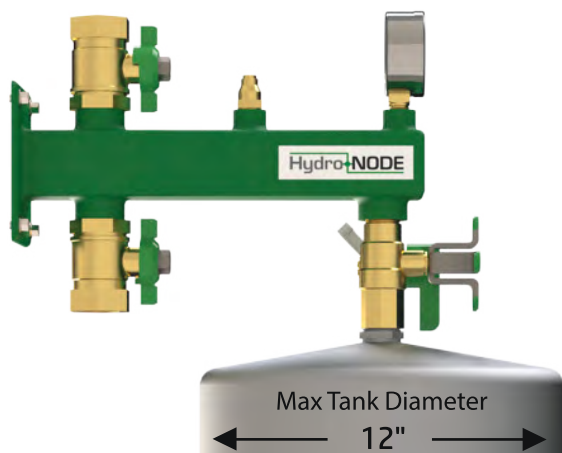


# HN-3

Featuring: ETV-1



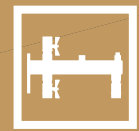
Expansion Tank Service Valve



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

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 1/2" FNPT open connections
  - Two 1/4" 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 1/2" 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 1/4" FNPT connections
  - 1/4" manual air vent
  - 1/4" FNPT plugged connection for accessory component

### HN-3

NEW



### HN-3

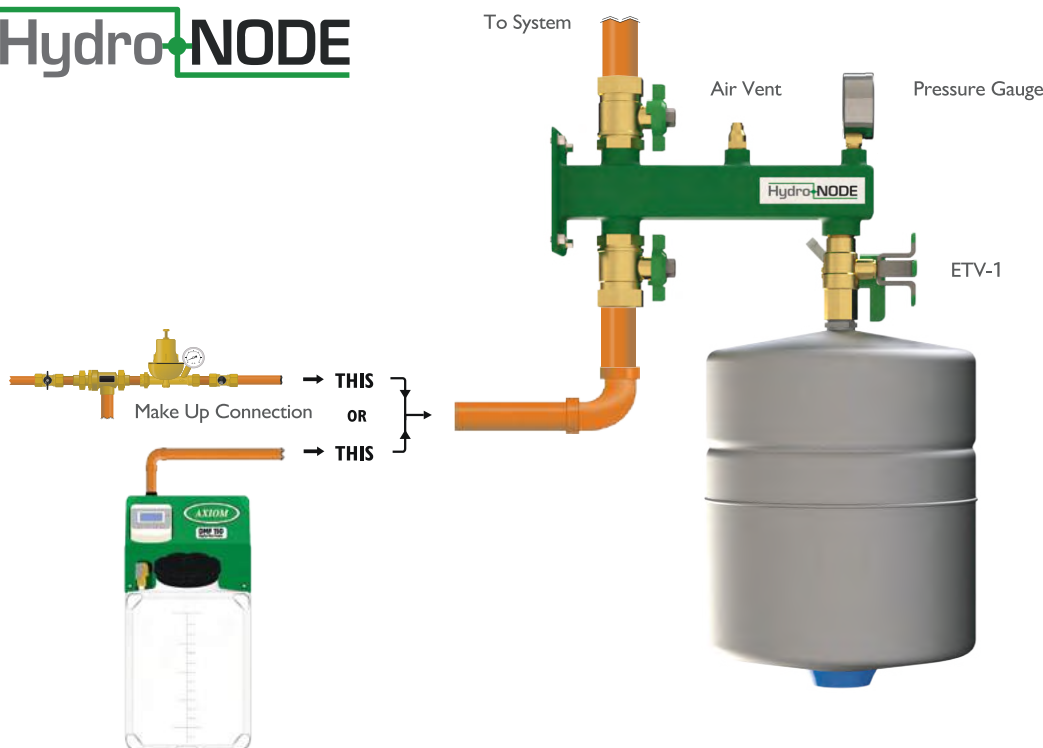
Includes the same robust welded-steel bracket as the HN-1 and comes fully assembled with the following connections:

- \* One 1/2" 3-way Expansion Tank Valve with Hose drain
- \* Two 1/2" FNPT ball valve connections
  - System Feeder or fill-inlet connections
  - Closed loop hydronic system connection
- \* One 1/4" manual air vent
- \* One 1/4" pressure gauge



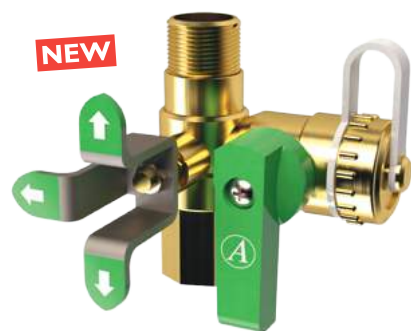
# Hydro-NODE

Hydro-NODE



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

## ETV-1

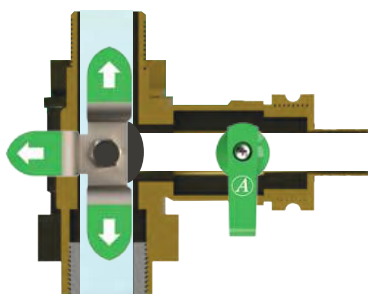


## Expansion Tank Service Valve

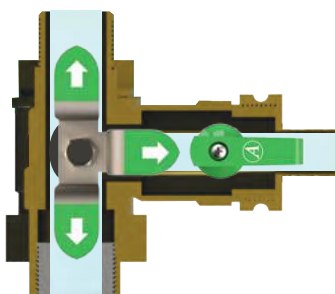
The ETV-1 expansion tank service valve simplifies the process of filling, isolating, draining, and servicing a hydronic expansion tank.

- \* Forged brass ball valves with blow-out proof stem
- \* 1/2" 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
- \* 1/2" MNPT x FNPT x GHT connections
- \* Replaces multiple components and reduces installation time

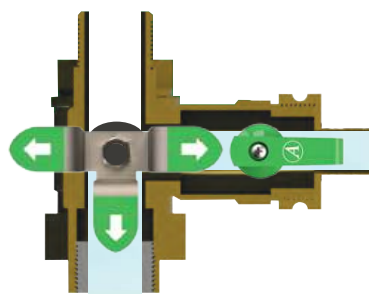
## Valve Positions



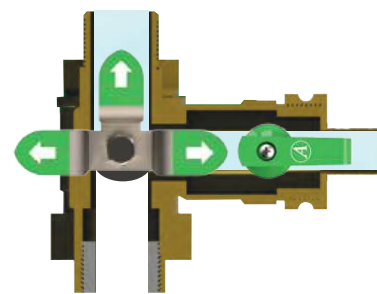
Normal Operation



Fill / Drain System  
& Expansion Tank



Fill / Drain Expansion  
Tank



Fill / Drain System

# PEX Tubing Organizer



*PEX-Pal*<sup>TM</sup>



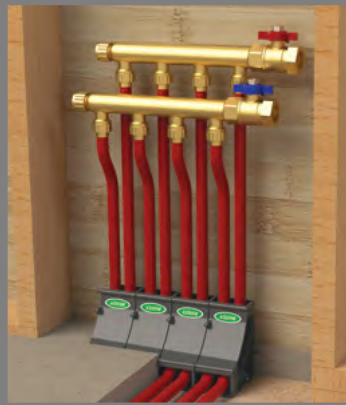
**PEX-Jr**

**Ideal for over-pour radiant floor heating**

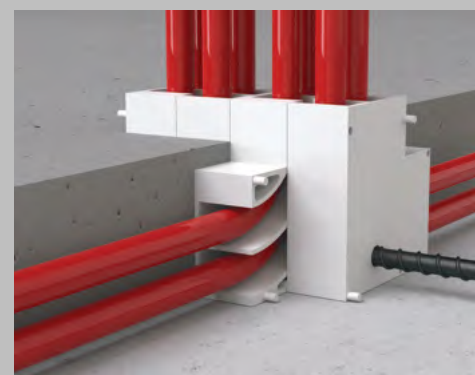
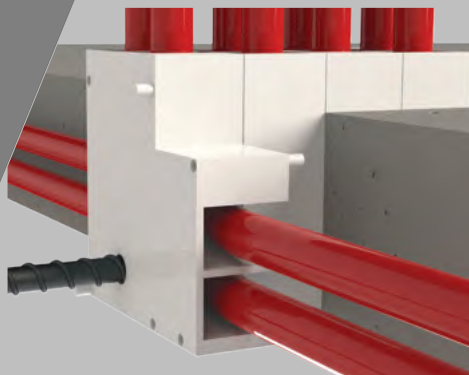
**PEX-Pal**



**Ideal for in-floor high mass radiant floor heating**



3-2 inch





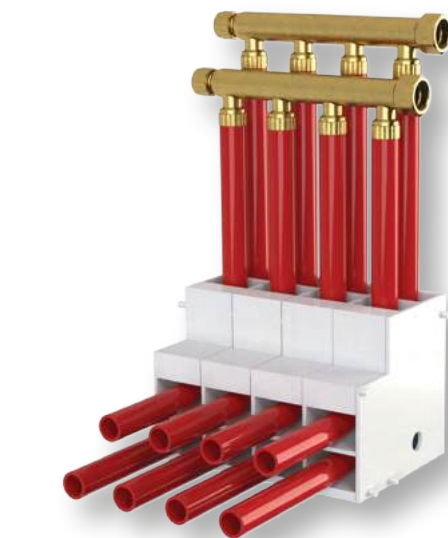
# PEX Tubing Organizer

**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, readyrod, 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

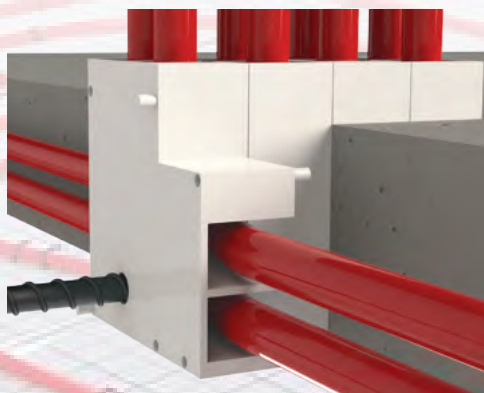
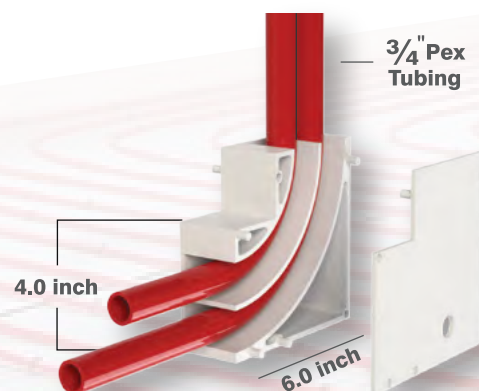


PEX-Pal



EndPlate

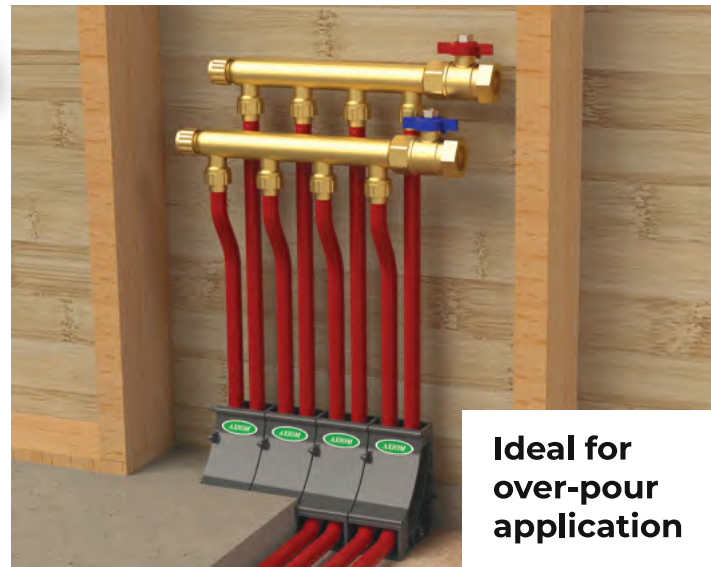
Product	Description	Box Qty
<b>PEX-Pal</b>	Two-channel tubing organizer module for (up to $\frac{3}{4}$ " Pex)	40
<b>EndPlate</b>	EndPlate for PEX-Pal	10







# PEX-Pal 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 1/2" 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 1/2" plastic piping



Product	Description	Box Qty
PEX-Jr	Stand-up tubing module (for two 1/2" tubing runs)	12

# Sidestream Filters

## 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 3/4" 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
<b>SFP-10 (FH-10)</b>	3/4" FNPT	1-10 GPM (System <200GPM)	10" DOE cotton wound	5, 10, 25	0.4 gal (1.5L)
<b>SFP-20 (FH-20)</b>	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)

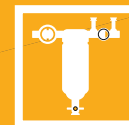
**Max Pressure:** 125psi (860kPa)

**Connections:**

ASFI-075 3/4" 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



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 ( $\frac{3}{4}$ " )

### 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	$\frac{3}{4}$ "	2 gal (7.6L)	265psi (1.83MPa)
CBF-5	$\frac{3}{4}$ "	5 gal (18.9L)	265psi (1.83MPa)
CBF-2-SS	$\frac{3}{4}$ "	2 gal (7.6L)	265psi (1.83MPa)

### CBF-HP SERIES



### HIGH PRESSURE MODELS

### Features

- Fully accessible lid
- Maximum pressure rating is 300 psi

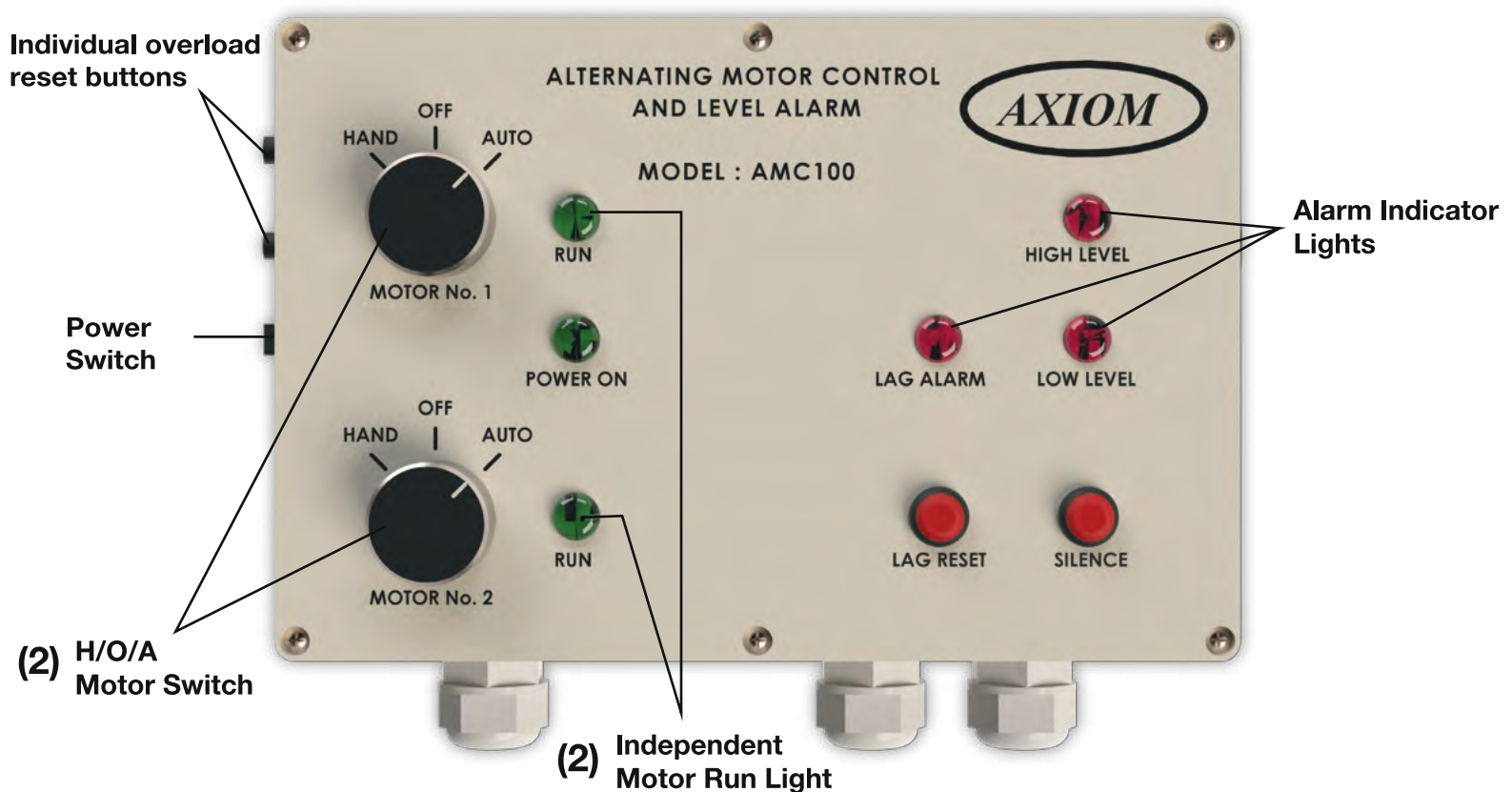
Model	Size	Pressure Vessel Volume	Max Pressure
CBF-2-HP	$\frac{3}{4}$ "	2 gal (7.6L)	300psi (2.07MPa)
CBF-5-HP	$\frac{3}{4}$ "	5 gal (18.9L)	300psi (2.07MPa)

# Alternating Motor Control

## 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**



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”

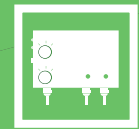
Individual overload protection  
w/reset buttons

Configurable inputs (N.O or N.C)

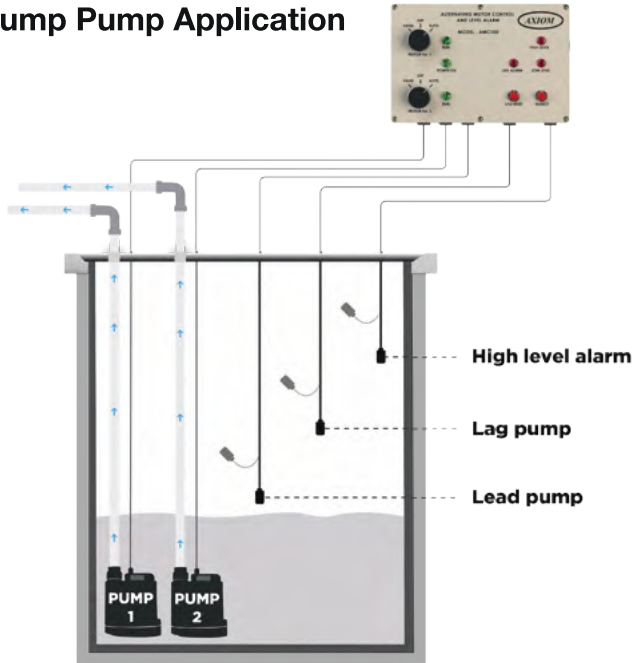
Audible buzzer for alarm

Motor shut down on a low (or high) level





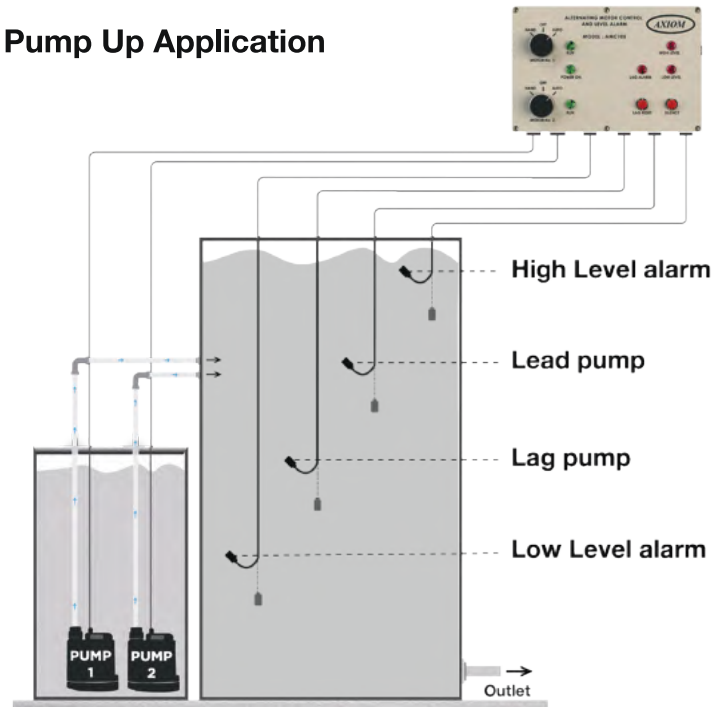
## Sump Pump Application



### 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

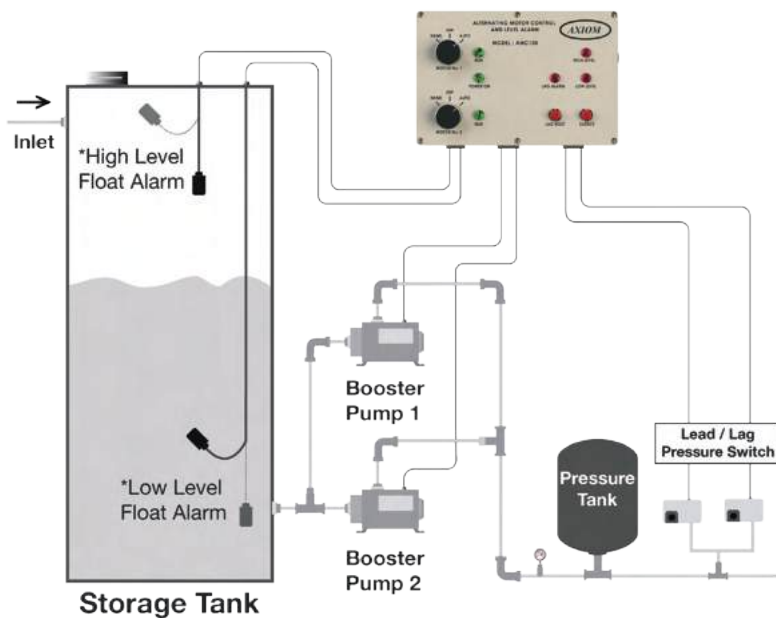
## Pump Up Application



### 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



### 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



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

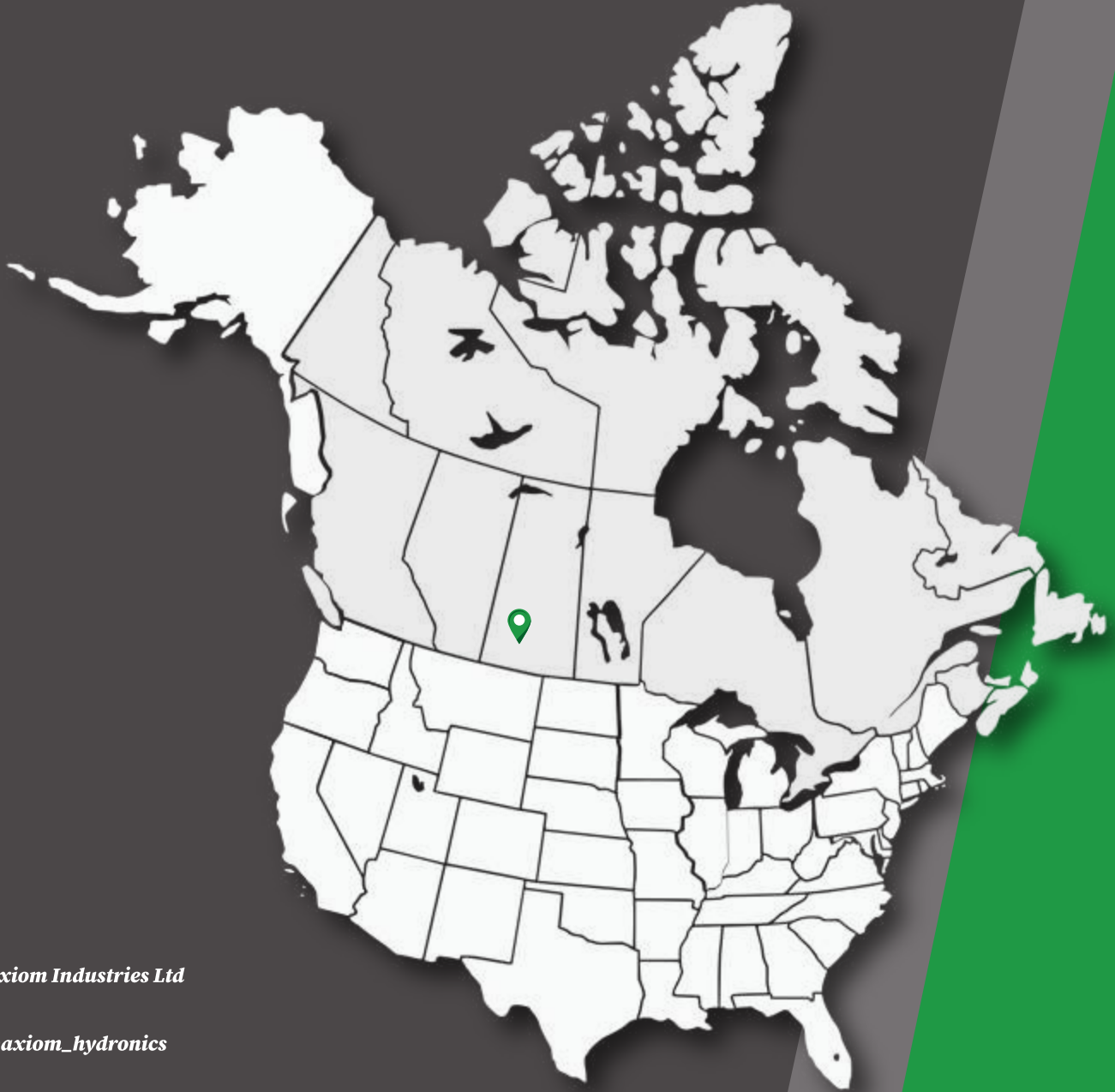
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AMC100-SP-S-2	7	26,27
AMC100-BP-D-0	4	26,27
AMC100-BP-S-0	4	26,27
AMC100-BP-D-2	7	26,27
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