

# Feeders

## Chemical Bypass Feeders



- Delivers chemicals to any closed loop system. Maintaining a chemically balanced hydronic system has never been easier
- 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 (7.6 litre) and 5 Gallon (18.9 litre) models available
- Wall bracket available for 2 Gallon model
- 5 Gallon model comes with adjustable steel legs
- Connections: 3/4" FNPT

Size	Pressure Vessel Volume	Max Pressure	Brand	Part Number
3/4"	2 gal (7.6L)	165psi (1.14MPa)	Axiom	<b>CBF-2</b>
3/4"	5 gal (18.9L)	165psi (1.14MPa)		<b>CBF-5</b>
3/4"	2 gal (7.6L)	300psi (2.07MPa)		<b>CBF-2-HP</b>
3/4"	5 gal (18.9L)	300psi (2.07MPa)		<b>CBF-5-HP</b>

## "Pressure Pal" Glycol Feeders



- Ideal for feeding and pressurizing closed hydronic systems that do not require cold static fill pressures higher than 170 kPa (25 psig)
- Compatible with both water and glycol/water solutions
- Perfect for small boiler/chiller systems, snow/ice melt circuits, outside air heating/cooling glycol coils and solar heating systems
- UL listed Power supply plugs into any standard 115 VAC outlet
- Diaphragm pump can run dry without damage
- No direct connection to potable water supply eliminates need for backflow prevention
- Make-up fluid stored in the feeder tank can be pre-treated
- Diverter valve allows easy purging of air on initial start-up, and manual agitation of solution
- Prevents major floods - in the event of system rupture, only the contents of the tank will be pumped into the system
- Provides leak detection - dropping fluid level provides immediate notice that the system has developed a leak
- Fluid drained for service can easily be put back into the system
- Fluid level switch shuts the pump off if the storage tank level gets too low
- Completely assembled

Description	Tank Size	Brand	Part Number
Storage/mixing tank with molded-in level gauge, 125 mm (5") fill/access opening and cover, graduated funnel with stainless steel filter, pump suction hose with inlet strainer and check valve, pressure pump with fuse protection, low fluid level pump cut-out float switch, manual diverter valve for purging air and agitating contents of storage tank, snubber with pressure switch adjustable from 70 kPa (10 psig) to 170 kPa (25 psig) cut-out pressure, factory cut-out pressure set to 115 kPa (17psig), and liquid filled pressure gauge. UL listed power supply adapter with LED power indicator light. Compatible with glycol solutions of up to 50% concentration. Electrical: 100-240 VAC/50-60Hz/1 to 24 VDC. 1/2" FPT discharge. Pump Performance: 0.7 gpm (0.04 l/s) @ free flow, self-priming up to 4' (1.2m)	25 Litre (6.6 US gal)	Axiom	<b>MF200</b>
	71 Litre (19 US gal)	Axiom	<b>MF300</b>

## Davies Carries Parts for MF & SF Series Glycol Feeders



# Filtration

## Side Stream Filter Package



- Double O-ring on filter housing for reliable leak free cartridge replacements
- Ball valve drain with hose connection and cap ensures safe fluid handling
- Buoyant TPX ball movement can be seen at low flow rates less than 1 gpm
- Comes with standard DOE 25 micron cotton wound filter cartridge (5 micron filters available)
- Two tempered borosilicate glass windows gives better fluid visibility
- Manual balance valve provides flow metering, flow balancing with memory stop and filter cartridge isolation. Integral manual air vent prevents the introduction of air during cartridge change
- Filter vessel can be used for chemical dosing. Up to 0.8 gal (3.0L)
- Brass and stainless steel construction
- Reduces equipment maintenance cost and extends system life

**\*IMPORTANT: SFP-10 IS NOT FOR POTABLE WATER**

Size	Max Temp/ PSI	Side Stream Flow Rate	Filter Size	Vessel Volume	Brand	Part Number
3/4"	93C (200F) / 125	1-10 gpm (0-38 l/min)	10" (254 mm) DOE cotton wound	0.4 gal (1.5L)	Axiom	<b>*SFP-10</b>
1"	93C (200F) / 125	10-20 gpm (38-76 l/min)	20" (508mm) DOE cotton wound	0.8 gal (3.0L)		<b>SFP-20</b>

## Hot Water (Boiler) Cartridge Filters



- Suitable cartridge replacements for general purpose high temperature filter applications

Type	Size	Micron	Brand	Part Number
String Wound - Tin Core Suitable for general purpose high temperature applications with water, oils, solvents, paint and other non-potable fluids	2" x 10"	5 microns (Nominal)	-	<b>5</b>
	2" x 10"	10 microns (Nominal)	-	<b>10</b>
	2" x 10"	25 microns (Nominal)	-	<b>25</b>
DOE Cotton Wound - Compatible with water, propylene glycol, ethylene glycol, methanol (50%), and ethanol (50%). Not for use with potable water	10"	5 microns	Axiom	<b>SFP-10-5M</b>
	10"	25 microns	Axiom	<b>SFP-10-25M</b>
	20"	5 microns	Axiom	<b>SFP-20-5M</b>
	20"	25 microns	Axiom	<b>SFP-20-25M</b>





## Filtration - Magnetic Dirt Separators

### DIRTCAL<sup>®</sup> Dirt Separator for Small Applications



- Internal Element with concentric diamond pattern mesh surface, offers little resistance to the medium flow while ensuring dirt separation.
- DIRTCAL low-velocity-zone dirt separator requires a pressure drop of 25% or less that of a comparable Y-strainer depending on mesh size and amount of filtered debris.
- Dirt collection at optimal distance from inlet and outlet connections, collected dirt particles are not affected by the swirling flow through the mesh element. Dirt is removed through the bottom drain port, even when the system is running.
- Brass Body, 1/2" NPT top thread with plug for optional air vent, code 502243A
- Max. working pressure: 150 psi
- Working temperature range: 32-150°F (0-32°C)
- Particle separation capacity: to 5 µm (0.2 mil) with very low head loss

Connection	Dimensions					Brand	Part Number
	A	B	C	D	E		
1" NPT Female	4 5/16"	1 1/4"	5"	2"	Caleffi	546206A	
1 1/4" NPT Female	4 7/8"	1 1/4"	5"	2"	Caleffi	546207A	
1" Sweat	5 1/16"	1 1/4"	5"	2"	Caleffi	546228A	
1 1/4" Sweat	5 3/16"	1 1/4"	6"	2"	Caleffi	546235A	

### DIRTMAG<sup>®</sup> - Dirt Separator with Magnet



- Versatile magnetic dirt separator removes both magnetic and non-magnetic particles continuously
- Features a powerful removable external magnet around the body below the flow line for fast and effective capture of ferrous particles
- Magnet is positioned externally to maintain low pressure loss, and removes up to 100% of the impurities that can form in a hydronic system
- Optional insulated covers available, code CBN5462xx
- Max. working pressure: 150 psi
- Working temperature range: 32-150°F (0-32°C)
- Particle separation capacity: to 5 µm (0.2 mil) with very low head loss

Connection	Dimensions					Brand	Part Number
	A	B	C	D	E		
1" NPT Female	4 5/16"	1 1/4"	5"	2"	Caleffi	546306A	
1 1/4" NPT Female	4 7/8"	1 1/4"	6"	2"	Caleffi	546307A	
1 1/2" NPT Female	4 7/8"	1 1/4"	6"	2"	Caleffi	546308A	
2" NPT Female	5 1/8"	1 1/4"	6"	2"	Caleffi	546309A	
1" Sweat	5 1/16"	1 1/4"	5"	2"	Caleffi	546328A	
1 1/4" Sweat	5 3/16"	1 1/4"	6"	2"	Caleffi	546335A	

### DISCAL<sup>®</sup> DIRTMAG<sup>™</sup> - Air and Dirt Separator with Magnet



- Uses an external magnet ring for separation of ferrous impurities
- External magnet allows greater effectiveness in the separation and collection of ferrous impurities. Impurities are retained in the body of the dirt separator by the strong magnetic field created by magnets in it's external outer ring
- Removable outer ring to allow the flushing of sludge with the system still running
- Brass body, stainless steel float guide pin and linkage, glass reinforced nylon interlaced element
- Max. working pressure: 150 psi
- Working temperature range: 32-150°F (0-32°C)
- Particle separation capacity: to 5 µm (0.2 mil) with very low head loss

Connection	Dimensions					Brand	Part Number
	A	B	C	D	E		
1" NPT Male	7 3/8"	2 1/8"	5"	5 1/2"	Caleffi	546116A	

# Filtration - Magnetic Dirt Separators

## DIRTMAG<sup>®</sup> Dirt Separator with Magnet for Vertical or Horizontal Pipes



- Brass mounting housing, composite PA66G30 body
- Can be rotated for installation to vertical or horizontal pipes while maintaining the same operating performance
- Particle separation capacity: to 5 µm (0.2 mil) with very low head loss
- Ferrous impurities separation efficiency: 100%
- Top dosing point port
- Dosing Capacity: 12 fluid oz.
- Manual screw air vent

Connection	Max Working Pressure	Working Temp Range	Dosing Capacity	Brand	Part Number
1" union NPT	45 psi	32-195°F (0-90°C)	12 fluid oz.	Caleffi	NA545306
1" union press				Caleffi	NA545366
3/4" union NPT				Caleffi	NA545305
3/4" sweat union sweat				Caleffi	NA545395
1" union sweat				Caleffi	NA545396

## DIRTMAG<sup>®</sup> - Magnetic Dirt Separator (Commercial Steel)



- Magnetite is captured by a concentrated magnetic field created by a stack of neodymium rare-earth magnets positioned inside a brass dry-well which is below the flow stream
- Non-magnetic dirt particles are separated by colliding with an internal element in the flow stream and settling to the bottom. Deep collection chamber keeps dirt from re-entering the flow stream
- Epoxy resin coated steel body
- Complete with drain valve, code NA39753
- 3/4" NPT male top thread with brass cap
- ANSI 150 Flange connections
- ASME registered. CRN registration pending
- Particle separation capacity: to 5 µm (0.2 mil) with very low head loss
- Ferrous impurities separation efficiency: 100%

ANSI Flange ASME	Max Working Pressure	Vessel Temperature Range	Capacity Gal.	Brand	Part Number
2"	150 psi	32-270°F (0-32°C)	1.8	Caleffi	546550AM
2 1/2"				Caleffi	546560AM
3"			4.8	Caleffi	546580AM
4"				Caleffi	546510AM

## TF-1 Filter for Magnetic or Non-Magnetic



- High performance in-line system filter, uses hydrocyclonic and magnetic action to remove all types of contaminants from central heating system water
- Dosing point for Fernox F point products
- All valves and fittings included
- Fits vertical/horizontal pipe work
- Easy to clean without disassembly
- Will not restrict/block flow
- Carbon footprint certified
- Magnetic Characteristics: 9000 Gauss Deodymium magnet assembly
- Body Material: Glass fiber reinforced nylon plastic
- Includes 1" Isolation valves

Max Temp	Max Pressure	Max Flow Rate	Brand	Part Number
212°F (100°C)	3 bar	50 l/min	Fernox	TF-1

# Condensate Neutralizers

## Condensate Neutralization Kits



NC-1



NC-2

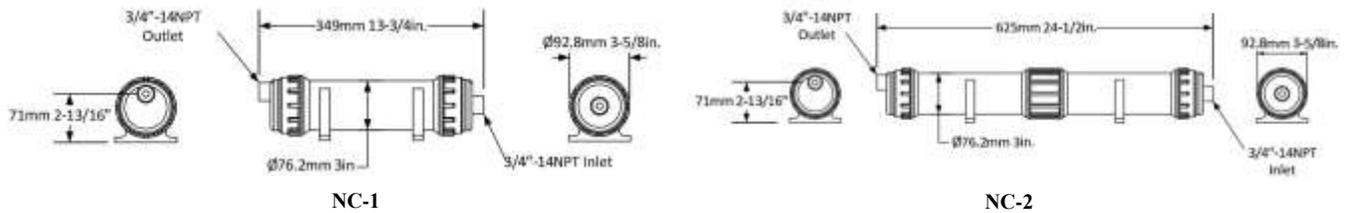
- Ideal for neutralizing condensate from condensing boilers and furnaces operating on natural gas or propane
- The condensate produced by these appliances is acidic and has the potential to harm the environment and sewer system
- Prevents acidic condensate from corroding drains and sewer systems
- Fast and easy installation
- Helps maintain a neutral environment for bacteria in septic systems
- Low profile design for appliances with a near floor condensate drain
- All corrosion resistant materials
- Suitable for use on all types of Natural Gas and Propane appliances
- Can be mounted in horizontal or vertical position



Flow Rate	Includes	Opening	Connections	Union	Brand	Part Number
1.6 Gal/hr (6.05 l/hr)*	1 litre transparent capsule, 1 litre of LipHter Neutralizing Media, 3" inlet/outlet screen, (3) 3/4" NPT to 1/2" hose barb fittings, 1/2" barbed Y fitting, 6 hose clamps, 10' of 1/2" ID vinyl tubing, (2) base/wall mounting clamps	(2) 3" fill/access	3/4"-14 NPT Inlet 3/4"-14 NPT Outlet	(2) 3/4" MNPT x 3/4" FNPT	Axiom	NC-1
4 Gal/hr (15.1 l/hr)**	2 litre transparent capsule, 2 litres of LipHter Neutralizing Media, 3" inlet/outlet screen, (3) 3/4" NPT to 1/2" hose barb fittings, 1/2" barbed Y fitting, 6 hose clamps, 10' of 1/2" ID vinyl tubing, (2) base/wall mounting clamps	(2) 3" fill/access	3/4"-14 NPT Inlet 3/4"-14 NPT Outlet	(2) 3/4" MNPT x 3/4" FNPT	Axiom	NC-2
1 Litre Replacement LipHter Neutralization Media (2 Units required for the NC-2)					Axiom	NM-1

\* Check with the appliance manufacturer for condensate flow rate or go to axiom website and use the sizing calculator. As a guideline 400,000 BTU/hr at 93% efficiency will produce approximately 1.6 Gal/hr

\*\* Check with the appliance manufacturer for condensate flow rate or go to axiom website and use the sizing calculator. As a guideline 1,000,000 BTU/hr at 93% efficiency will produce approximately 4.0 Gal/hr



# Condensate Neutralizers

## Condensate Neutralization Tank with Pump



**NeutraPump LipHter+**

Pump is certified to CAN/CSA STD C22.2 no. 108



4007096 Pump conforms to ANSII/UL STD 778

- Ideal for installations that require both condensate removal and neutralization
- The condensate produced by gas fired condensing appliances is acidic and has the potential to harm the environment and sewer system
- Prevents acidic condensate from corroding drains and sewer systems
- Comes with high level float for hook up to alarm system
- Low profile design for appliances with near floor condensate drain
- All materials made from corrosion resistant material
- 4 litre tank with baffles designed to channel flow through LipHter+ media for complete neutralization
- Submerged self priming pump with thermal cut out
- Includes: 2.7 lbs of Axiom's special LipHter+ neutralizing media, 20' of 3/8" vinyl tubing, low level and high level float switches, check valve and 6' power cord
- Limited 2 year warranty

Flow Rate	Max Head	Pump	Inlet	Brand	Part Number
1.9 Gal/hr (7.2 l/hr)*	20'	120 VAC, 60Hz, 87W, 0.89 Amps 74 gph @ free flow / 32 gph @ 20'	3/4" FNPT	Axiom	<b>NT1-P</b>
2.7 lbs Replacement LipHter+ Neutralization Media				Axiom	<b>NM-1P</b>

\* Check with the appliance manufacturer for condensate flow rate or go to axiom website and use the sizing calculator. As a guideline 500,000 BTU/hr at 93% efficiency will produce approximately 1.9 Gal/hr

## Condensate Neutralization Tank with Pump



**NeutraPump LipHter**

Pump is certified to CAN/CSA STD C22.2 no. 108



4007096 Pump conforms to ANSII/UL STD 778

- Ideal for installations that require both condensate removal and neutralization
- The condensate produced by gas fired condensing appliances is acidic and has the potential to harm the environment and sewer system
- Prevents acidic condensate from corroding drains and sewer systems
- Comes with high level float for hook up to alarm system
- Low profile design for appliances with near floor condensate drain
- All materials made from corrosion resistant material
- 18 litre tank with baffles designed to channel flow through LipHter media for complete neutralization
- Submerged self priming pump with thermal cut out
- Includes: 40 lbs of Axiom's special LipHter neutralizing media, stainless steel mounting bracket and screws, low level and high level float switches, check valve, 1" NPT close nipple and 10' power cord
- Limited 1 year warranty

Flow Rate	Max Head	Pump	Connections	Union	Brand	Part Number
40 Gal/hr (150 l/hr)*	22'	110 VAC, 60Hz, 1/4hp, 1.9 Amps Max Liquid Temp 70°C (158°F)	1" FNPT Inlet 1/2" FNPT Outlet	1" NPT	Axiom	<b>NT25-P</b>
40 lbs Replacement LipHter Neutralization Media					Axiom	<b>NM-25</b>

\*Check with the appliance manufacturer for condensate flow rate or go to axiom website and use the sizing calculator. As a guideline 6,000,000 BTU/hr at 96% efficiency will produce approximately 40 Gal/hr.



## Condensate Neutralizers

### Condensate Neutralization Tank



- Ideal for neutralizing condensate from condensing boilers and furnaces operating on natural gas or propane
- The condensate produced by these appliances is acidic and has the potential to harm the environment and sewer system
- Prevents acidic condensate from corroding drains and sewer systems
- Low profile design for appliances with near floor condensate drain
- All materials made from durable and corrosion resistant material
- 18 litre tank with baffles designed to channel flow through LipHter media for complete neutralization
- Internal bypass feature prevents condensate backflow into appliance
- Includes: 40 lbs of Axiom's special LipHter neutralizing media and two 1" NPT close nipples

**NeutraPro™ LipHter**

Flow Rate	Connections	Union	Brand	Part Number
45 Gal/hr (170 l/hr)*	1" FNPT Inlet / 1" FNPT Outlet	(2) 1" NPT	Axiom	NT25
40 lbs Replacement LipHter Neutralization Media			Axiom	NM-25

\* Check with the appliance manufacturer for condensate flow rate or go to axiom website and use the sizing calculator.  
As a guideline 700,000 BTU/hr at 93% efficiency will produce approximately 45 Gal/hr



# Flow Indicators

## Flow Indicator - Ball



- Mounts in any orientation
- Each sight flow indicator is inspected and pressure tested
- Double window
- Buoyant TPX ball movement can be seen at flow rates less than 1 GPM
- Compatible fluids: water, propylene and ethylene glycol, methanol and ethanol in concentrations up to 50%. Not for potable water

Size	Material	Max Temp/ PSI	Brand	Part Number
3/4" Threaded FNTF	Brass body (JIS YBSC3), EPDM O-ring; tempered borosilicate glass window; cage: S.S. 304; TPX ball; cork washer (non-wetted part)	93C (200F) / 125	Axiom	ASFI-075
1" Threaded FNTF				ASFI-100
<b>Replacement Parts &amp; Accessories</b>				
Sight Flow Rebuild kit includes: 2 glass windows, 2 O-rings, and 2 cork gaskets				ASFI-K
Opening Tool				ASFI-Tool

## Flow Indicator - Paddle Wheel



- Safety tested to assure long, dependable service at economical price
- Threaded process connection
- Viewing window with rotating impeller, window is removable for easy service and replacement
- Compatible with gases and liquids
- Horizontal or vertical mounting orientation

Size	Material	Max Temp/ PSI	Brand	Part Number
3/4"	Wetted: Tempered glass window, Buna-N gaskets, female NPT connections, ABS impeller	93C (200F) / 125	Dwyer/ MIDWEST	SFI-100-3/4
1"				SFI-100-1