

# Renewables

Section	Page No.
<b>Heat Pump Filters</b>	
IntaKlean 28mm + 35mm HP Filters	6
Adey MagnaClean HP Filter	8
Fernox TF1 Sigma HP Filter 22mm + 28mm	9
<b>Anti-Freeze Valves</b>	
Inta Zero – Anti-Freeze Valves + Insulation	10
Fernox Anti-Freeze Valves + Thermal Covers	11
Bastion Anti-Freeze Valves	11
<b>Ball Valves</b>	
Inta K-Type Extended External Ball Valves	12
Inta K-Type Ball Valves (with Filter) + Insulation	13
<b>Ancillaries</b>	
Valves	14
Hoses	16
Insulation	20
Trunking	22
Mounting Brackets + Condensate Trays	23
Feet	24
<b>Buffers + Vessels</b>	
Inta Zil-B Buffer Vessels	26
Volumiser Vessels	26
<b>ASHP Soak-Away</b>	
DiversiTech Air Source Heat Pump Soak-Away	27
<b>Rotary Isolators</b>	
DiversiTech Rotary Enclosed Isolators	27
<b>Heat Pump Installer Packs</b>	
Inta 28mm + 35mm Heat Pump Installer Pack	28
<b>Water Treatment (for Heat Pumps)</b>	
Chemicals	30
Scalemaster® Suprion Scale Inhibitors	31

## Renewables Features

There are many features in our Instinct Pro Renewables range. Use the icons to help choose the right option for you.



Removes Debris Suspended in Water



Prevents Bacterial + Fungal Growth



Prevents Limescale + Corrosion



Non-Hazardous Formulation



Anti-Freeze



Dosing Amount – Up to 100 Litres



Dosing Amount – Up to 10 Radiators



Bottle Made from 50% Recycled Plastic



Manufactured in Great Britain



Easy to Install and Maintain

## Our frequently ordered Renewable products...

Great Value



**Inta Heat Pump Installer Kits**  
Page 28



**IntaKlean 28mm Filter**  
Page 7



**Fernox Anti-Freeze Valve + Thermal Covers**  
Page 11



**Inta Zil-B Buffer Vessel**  
Page 26



**Adey Chemicals**  
Page 30

## Your Home for Renewable Products

### Heat Pump Installer Packs

Everything you need to complete the job

### Heat Pump Filters

Improve efficiency, safeguard heat pumps and low-temperature systems, and prolong their lifespan

### Anti-Freeze Valves

Keep the system running smoothly in cold weather

### Ancillaries

Boost performance and simplify installation with key supporting products



Visit [instinctproducts.co.uk](https://www.instinctproducts.co.uk) and find your local renewables stockist

# Heat Pump Filters

## Guarantees

**5** Years  
on IntaKlean Heat Pump Filter

**new**

**Self  
Cleaning**



IntaKlean 35mm Insulation Jacket  
(for IK35MP1 Filter)

## IntaKlean 35mm Magnetic Air Source Heat Pump Filter (with 28mm Reducing Sets)

The IntaKlean HP XL features a more efficient direct filtration design with higher flow rates, built-in isolation and greater flexibility for the installer.

The direct filter forces the fluid across the mesh of the filter before entering the filter chamber. In this chamber, the mesh cartridge and strong neodymium magnet help to capture and breakdown the magnetite and non-ferrous debris from the system.

The gravitational force pulls the non-ferrous debris to the base of the pot, allowing it to be easily drained while any air passing through the filter floats to the top, where the manual air vent can purge it from the system.

### Features + Benefits

Actively filters magnetite and non-ferrous system debris

Extends the lifespan of heat pumps

Fights corrosion, ensures system efficiency

Suitable for water or water + glycol (Maximum 50% glycol)

90°C maximum temperature (One Hour Max)

0°C to +70°C operating temperature

6 Bar maximum working pressure

3 Bar maximum pressure during maintenance

300 µm degree of filtration

11,000 Gauss magnet strength

Kv Value (35mm Only) – 17.3 m³/h

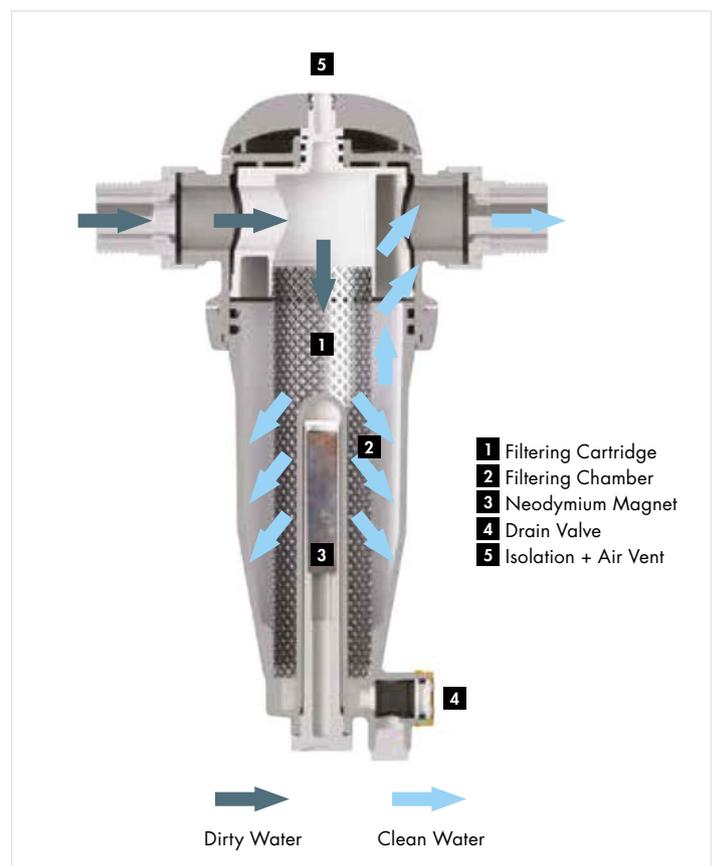
Finish – Black

Dimensions – 285(h) x 230(w) x 100(d) mm



**IK35MP1** IntaKlean 35mm Heat Pump Filter (with 28mm Reducing Sets)

**IK35INSU** IntaKlean 35mm Insulation Jacket (for IK35MP1 Filter)



**Guarantees**

**5** Years on IntaKlean Heat Pump Filter

# Heat Pump Filters



## IntaKlean 28mm Magnetic Air Source Heat Pump Filter

The IntaKlean HP Magnetic air source heat pump filter, featuring Inta's unique direct multi-layered non-ferrous fine filter.

This is the ideal solution to prevent costly and unnecessary system breakdowns caused by both magnetic and non-ferrous particulates in air source heat pump systems.

As well as separating magnetic debris and trapped air in circulating system fluid, IntaKlean HP also includes a completely unique direct filter which contains a multi-layered stainless steel 300-micron fine gauze.

The system debris is forced directly into the filter, breaking down the debris, which then precipitates to the base of the pot.

The remaining magnetic debris is drawn to the centre of the filter and captured by 11,000-gauss rare earth neodymium magnet.

**Features + Benefits**

Actively filters magnetite and non-ferrous system debris

Low-profile drain valve

360° rotation for ease of servicing

Suitable for water or water + glycol (Maximum 50% glycol)

90°C maximum temperature (One Hour Max)

4 Bar maximum working pressure

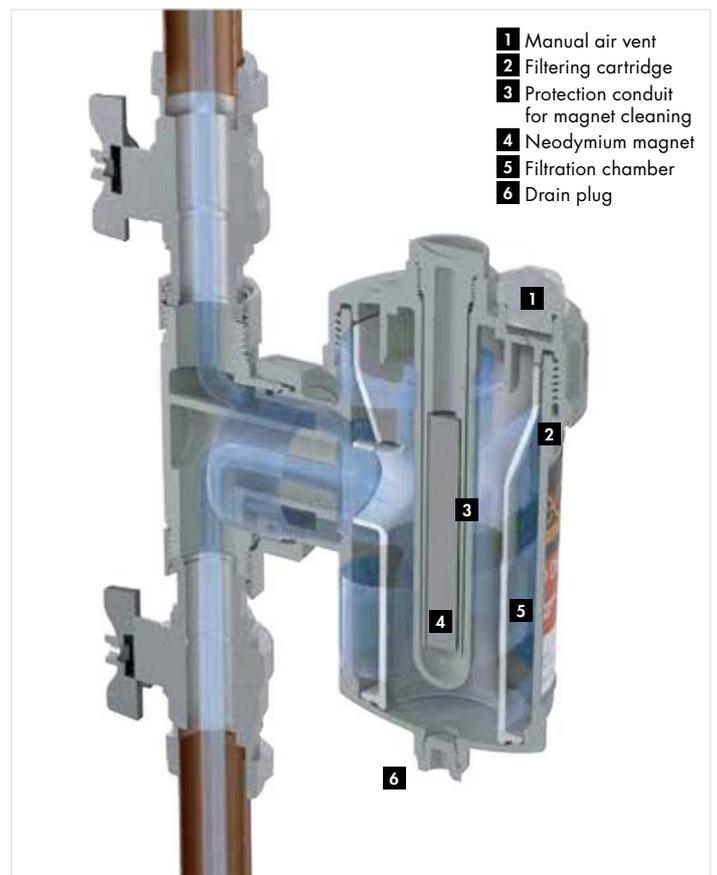
300µm + 800µm degree of filtration

11,000 Gauss magnet strength

Kv Value (35mm Only) – 8.27 m³/h

Finish – Grey

Dimensions – 271(h) x 90(w) x 182(d) mm



IKHPMF28

IntaKlean HP 28mm Magnetic Heat Pump Filter

# Heat Pump Filters

new

Easy To  
InstallEasy To  
Service

Chemicals can be easily dosed  
directly into the canister

Large canister ports,  
available for 28mm systems

Valves enable high flow rates  
and minimise pressure drops

Reduces CO2 emissions  
by up to 250kg per year\*



Take a closer look at  
the Adey MagnaClean HP®  
feature video

## Adey MagnaClean HP® Filter – Heat Pump + Low-Temperature System Protection

MagnaClean HP is a filter that has been designed specifically to protect heat pumps and low-temperature heating systems from both magnetic and non-magnetic debris, keeping them working as efficiently as possible, for as long as possible.

Low temperature heating systems, like those with heat pumps, are the perfect breeding ground for bacterial growth, which can clog them up, reducing efficiencies and ultimately causing breakdown.

Thanks to MagnaClean HP's high-quality build, powerful magnet, stainless steel gauze and non-blocking design, you can rest assured that you are fitting a filter that will efficiently protect systems and will stand the test of time.

### Features + Benefits

Specially designed to protect heat pump and low temperature systems

Protects heat pumps from magnetic and non-magnetic debris

Large canister ports, available for 28mm systems

Non-blocking design for optimum flow, even when the filter is full, keeping the system working as efficiently as possible

+3°C to +95°C operating temperature

6 Bar maximum working pressure

80 L/min (5m<sup>3</sup>/h) maximum flow rate

Extended system life of up to 7 years\*

Finish – Black

Dimensions – 251(h) x 115(w) x 235(d) mm



FL1-03-06223

Adey MagnaClean HP® Filter

\*Based on independent research in the UK.



Dedicated magnetic and non-magnetic capture allows both types of debris to be captured before it enters the system

**Guarantees**

**10** Years on Fernox Heat Pump Filter

# Heat Pump Filters

**new**

Easy To Install

Easy To Service

Flexible installation - fits horizontal and vertical pipework

Simple and fast to install

Award Winning Design – HVN News Awards for 'Domestic Heating Product of the Year'

Convenient to clean and quick to service

Filter does not restrict flow, even at high flow rates

Capture Rate – Up to 100% of system contaminants

Take a closer look at the Fernox TF1 Sigma HP Filter feature video

**Fernox TF1 Sigma HP Filter**

The TF1 Sigma HP Filter efficiently removes all types of debris from renewable heating systems using patent pending technology.

The innovative TF1 Sigma HP Filter does not restrict flow, even at high flow rates, and will not block, ensuring the COP (co-efficient of performance) of the system is maintained thereby reducing energy consumption and fuel wastage. Simple and fast to install, the TF1 Sigma HP Filter is supplied with full bore valves as standard, which results in improved system performance, and greater energy efficiency.

**Features + Benefits**

- Specifically designed for Air and Ground Source Heat Pump systems

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- Filter is extremely effective at high flow rates and across a range of debris types to ensure the system remains free of contaminants

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- Constructed from a high-quality glass reinforced engineering polymer with brass full bore valves as standard

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- Suitable for water or water + glycol (Maximum 50% glycol)

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- 100°C maximum working temperature

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- 5 Bar maximum working pressure

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- 80 L/min maximum flow rate

Finish – Black  
 Dimensions – 346(h) x 90(w) x 179(d) mm



Premium brass, full bore isolation valves supplied as standard – allows high flow rates

62614	Fernox Sigma HP Filter 22mm
62615	Fernox Sigma HP Filter 28mm

# Anti-Freeze Valves

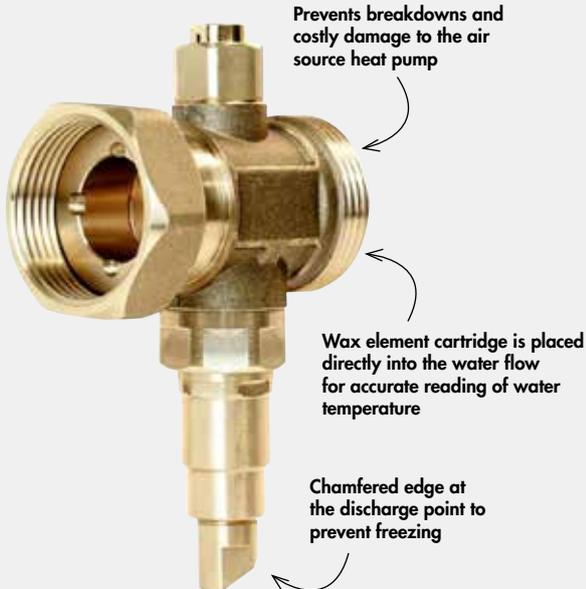
## Guarantees

**2** Years  
on Inta Zero Anti-Freeze Valves



Inta Zero Videos,  
Data Sheets, Installation  
Instructions + Maintenance

new



A unique protective cover,  
designed to protect the  
anti-vacuum valve on the  
Inta Zero Anti-Freeze Valves

Allows Anti-Freeze valves to  
be positioned inline when  
fitted on the flow and return  
connections



## Inta Zero

### – The most reliable anti-freeze valve

Inta Zero Anti-Freeze Valves have been specifically designed to quickly and accurately react to the water temperature in the heat pump circuit and do not need the influence of the ambient temperature to operate.

#### Preventing the influence of ambient temperatures

The Inta Zero has been designed and engineered to avoid negative influences from low ambient temperatures by directly positioning the element in the system water flow, permitting accurate system discharge only when it is truly needed.

#### Protection from system debris

A protective ring has been included in the construction to prevent system debris from clogging the operation of the valve.

#### Operating when needed

Double O-rings and reduced surface friction treatment on the operating member also ensure correct operation and reliability even after years of non-movement.

#### Features + Benefits

10 Bar maximum inlet pressure (Static)

Suitable for water

±1°C Sensitivity

+3°C opening temperature, +4°C closing temperature

0°C to +80°C working temperature range

-30°C to +60°C ambient temperature range

1.5 L/H max discharge Flow Rate @ 3 Bar

Kv Value – 55m<sup>3</sup>/h (ZERO001), 70m<sup>3</sup>/h (ZERO114), 64m<sup>3</sup>/h (ZERO28),  
70m<sup>3</sup>/h (ZERO35), 33m<sup>3</sup>/h (ZERO1SW), 52m<sup>3</sup>/h (ZERO14SW)

Max  
80°C

Max  
10 Bar



ZERO28	Inta Zero – Anti-Freeze Valve 28mm
ZERO35	Inta Zero – Anti-Freeze Valve 35mm
ZERO001	Inta Zero – Anti-Freeze Valve 1" Male
ZERO114	Inta Zero – Anti-Freeze Valve 1 ¼" Male
ZERO1SW	Inta Zero – Anti-Freeze Valve 1" Male x 1" Female Swivel
ZERO14SW	Inta Zero – Anti-Freeze Valve 1 ¼" Male x 1 ¼" Female Swivel
ZEROGUARD	Anti-Freeze Valve Protector
INSULZERO28SW	28mm Insulation (for Swivel Zero Valve)
INSULZERO35SW	35mm Insulation (for Swivel Zero Valve)

## Building Regulations Part L Compliance

Building regulations Part L states that all external pipework on an Air Source Heat Pump System should be fully insulated to reduce heat loss and maintain system efficiency. Inta Zero Anti-Freeze Valves will maintain correct operation and discharge the water at the same temperature even when a system is correctly insulated.

## Fully Insulated

The Inta Zero's thermostatic element sits directly in the system's water flow, allowing it to accurately react to the temperature of the system, regardless of ambient temperature. This means the Inta Zero can be fully insulated to help maintain the COP and SCOP of your system without affecting the operation.



**Guarantees**

**5** Years on Fernox Anti-Freeze Valves

**2** Years on Bastion Anti-Freeze Valves

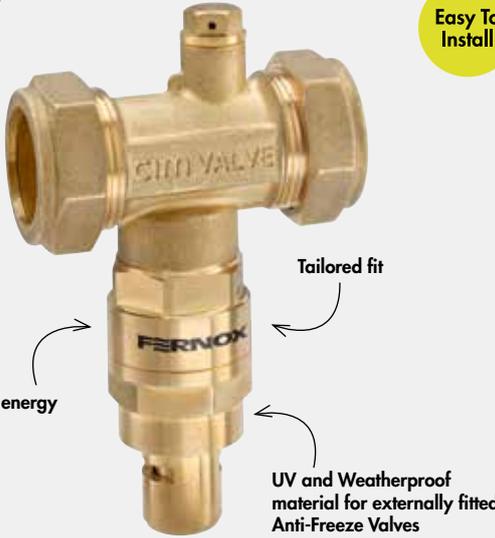
# Anti-Freeze Valves



Take a closer look at the Fernox Anti-Freeze Valve feature video

new

Easy To Install





Ferrox Anti-Freeze Valve 1 1/4"



Ferrox Anti-Freeze Valve Thermal Cover

new

Easy To Install



## Fernox Anti-Freeze Valves

The Fernox Anti-Freeze Valve is specifically designed to protect water-based air source Heat Pump heating systems. In cold weather when temperatures drop, systems that are not treated with a glycol-based fluid can freeze within the heat pump circuit potentially causing harmful and costly damage to vulnerable heat pump components and system pipework; eventually causing premature breakdown and repair.

The Fernox Anti-Freeze Valve is an essential, simple to install component developed to prevent frozen systems by detecting when the fluid in the circuit is close to freezing point i.e., when the circuit temperature reaches below 3°C. The Anti-Freeze Valve will automatically open and release system water, preventing ice from forming within the Heat Pump system and safeguarding the operation of the system.

**Features + Benefits**

10 Bar maximum inlet pressure (Static)

Suitable for water

±1°C Sensitivity

+3°C opening temperature, +4°C closing temperature

0°C to +75°C working temperature range

-30°C to +60°C ambient temperature range

Kv Value – 23.1 m<sup>3</sup>/h

Max 75°C	Max 10 Bar
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62664	Fernox Anti-Freeze Valve 28mm
62665	Fernox Anti-Freeze Valve 1 1/4"
62691	Fernox Anti-Freeze Valve Thermal Cover 1 1/4"
62690	Fernox Anti-Freeze Valve Thermal Cover 28mm/1"

## Bastion Anti-Freeze Valves

The Anti-Freeze valve allows the circuit medium to be drained when its temperature reaches an average value of 3°C. This prevents ice forming in the circuit of a system, generally with a heat pump, avoiding potential damage to the machine and to the pipes. The version with the air sensor allows the system to work in cooling mode, even when the water temperature is approaching 3°C. In these conditions the air sensor cuts in to prevent water drainage.

**Features + Benefits**

10 Bar maximum inlet pressure (Static)

Suitable for water

±1°C Sensitivity

+3°C opening temperature, +4°C closing temperature

0°C to +65°C working temperature range

-30°C to +60°C ambient temperature range

Kv Value – 55 m<sup>3</sup>/h

Max 65°C	Max 10 Bar
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ZL-7201-1M	Anti-Freeze Valve 1"
ZL-7201-11/2M	Anti-Freeze Valve 1 1/2"
ZL-7201-11/4M	Anti-Freeze Valve 1 1/4"
ZL-7201-11/4MF	Anti-Freeze Valve 1 1/4" (Male to Female Swivel)
ZL-7201-1MF	Anti-Freeze Valve 1" (Male to Female Swivel)
ZL-7201-28MM	Anti-Freeze Valve 28mm
ZL-7207-28MM	Anti-Freeze Valve 28mm (off side)

# Ball Valves

Guarantees

**2** Years  
on Inta Ball Valves

new

Supplied with an adjustment tool

Fixed key type adjuster allows the ball valve to be fully insulated without affecting its operation

Solid brass construction


 Inta K-Type Ball Valve  
Data Sheets, Installation  
Instructions + Maintenance


 Inta K-Type 1" Female Swivel  
x 1" Male Flat Face Extended  
Ball Valve

## Inta K-Type Extended External Ball Valves

The Inta extended external ball valve provides easy connections between the heat pump, flexible hose, Anti-Freeze valve (if fitted) and the heating system.

The extended stem allows the insulation to be sealed, which will not be broken when operating the valve.

Rotation of stem limited to 90° (open to closed), supplied individually to suit the flow or return of the heat pump system. It is recommended that a valve is installed on both flow and return pipework.

### Features + Benefits

Solid brass construction

Pressure rating of **PN25**

Variety of connections to suit all installations

Fixed key type adjuster allows the ball valve to be fully insulated without affecting its operation

Supplied with an adjustment tool and a dust cover to protect the adjuster

ISO228 threads

**25 Bar** maximum inlet pressure (Static)**-10°C to +90°C** operating temperature**-20°C to +120°C** temperature rangeKv Value – **66m<sup>3</sup>/h** (HPBV11, HPBV114, HPBV28), **80m<sup>3</sup>/h** (HPBV114X2, HBPV35)Max  
120°CMax  
25 Bar
**HPBV11** Inta K-Type 1" Female Swivel x 1" Male Flat Face Extended Ball Valve

**HPBV114** Inta K-Type 1 1/4" Female Swivel x 1" Male Flat Face Extended Ball Valve

**HPBV114X2** Inta K-Type 1 1/4" Female Swivel x 1 1/4" Male Flat Face Extended Ball Valve

**HPBV28** Inta K-Type 1" Female Swivel x 28mm Extended Ball Valve

**HPBV35** Inta K-Type 1 1/4" Female Swivel x 35mm Extended Ball Valve


# Ball Valves

## Guarantees

**2** Years  
on Inta Ball Valves



Inta Ball Valve  
Data Sheets, Installation  
Instructions + Maintenance

**new**

### Inta K-Type Ball Valves (with Filter)

#### Features + Benefits

Solid brass construction

Lever ball valve handle

Pressure rating of **PN25**

**25 Bar** maximum inlet pressure (Static)

**-10°C to +90°C** operating temperature

**-20°C to +120°C** temperature range

Includes a **500µm mesh filter**

Kv Value – **66m³/h** (BVF28), **80m³/h** (BVF35)

Max 120°C	Max 25 Bar
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**BVF28** Inta 28mm Ball Valve  
(with 500 Micron Filter Cartridge)

**BVF35** Inta 35mm Ball Valve  
(with 500 Micron Filter Cartridge)



**new**

### Inta K-Type Ball Valves Insulation

#### Features + Benefits

Insulation cover to increase system efficiency

Pre-Cut to fit 28mm and 1" extended ball valves

Pre-Cut to fit 35mm and 1 ¼" extended ball valves

Treated closed cell polyethylene

**-45°C to +105°C** operating temperature

**0.034 W/mk** thermal conductivity

**µ ≥ 39,300** water vapour resistance

**For external use only**

**INSUL28BALLVALVE** Inta Insulation  
(for 28mm / 1" Ball Valve)

**INSUL35BALLVALVE** Inta Insulation  
(for 35mm / 1 ¼" Ball Valve)

# Inta Valves

Guarantees

**2** Years  
on Inta Valves

new



## Inta Fill + Flush Valves

### Features + Benefits

Solid brass construction

Allows simple and easy filling & flushing in one convenient fitting

Complete with end caps

Water + Glycol up to 50%

**16 Bar** maximum inlet pressure (Static)

**-5°C to +99°C** working temperature

Max  
99°CMax  
16Bar

**INFAF22** Inta 22mm Fill + Flush Valve

**INFAF28** Inta 28mm Fill + Flush Valve

new

Easily  
Adjustable

## Inta By-Pass Valves

### Features + Benefits

Automatically stabilises flow

Protects the pump from pumping against closed head

**10 Bar** maximum inlet pressure (Dynamic)

**100°C** maximum inlet temperature

**1 to 5m<sup>3</sup>/hour** flow capacity

**0.1 to 0.5 Bar** differential pressure range

Max  
100°CMax  
10Bar

**ABPA28CP** Inta 28mm Angled By-Pass Valves

**ABPS28CP** Inta 28mm Straight By-Pass Valves

new



## Inta-Vent Deaerator

### Features + Benefits

Automatically removes trapped air

Reduces wear on system components

Water + Glycol up to 30%

**10 Bar** maximum pressure (Static)

**100°C** maximum operating temperature

**-10°C** minimum inlet temperature

Max  
100°CMax  
10Bar

**IV22** 22mm Inta-Vent Auto Air Eliminator

**IV28** 28mm Inta-Vent Auto Air Eliminator

new



## Inta Flow Balancing Valves

### Features + Benefits

Regulates the flow of fluid

Maximises heat collection in cylinders

Water + Glycol up to 50%

**10 Bar** maximum pressure (Static)

**110°C** maximum operating temperature

**-20°C** minimum operating temperature

Max  
110°CMax  
10Bar

**INFSV2840** 28mm Flow Balancing Valve (5-40 L/min)

**INFSV2850** 28mm Flow Balancing Valve (10-50 L/min)

new



## Inta Flow Balancing Valves (with Fill + Flush)

### Features + Benefits

Regulates the flow of fluid

Maximises heat collection in cylinders

Water + Glycol up to 50%

**10 Bar** maximum pressure (Static)

**-20°C to 110°C** maximum operating temperature

Max  
110°CMax  
10Bar

**INFBV28** 28mm Flow Balancing Valve  
(with Fill + Flush 5-40Ltr)

**INFBV2850** 28mm Flow Balancing Valve  
(with Fill + Flush 10-50Ltr)

new



## Inta Y-Pattern Strainers

### Features + Benefits

Passively filters debris and particles in the system

Convenient in-line design

Easily accessible filter makes servicing quick and simple

**16 Bar** maximum pressure (Static)

**100°C** maximum inlet temperature

Max  
100°CMax  
16Bar

**YPS085828800** 28mm Y-Pattern Strainer  
(800 Micron)

**YPS0858125800** 1 1/4" F x F Y-Pattern Strainer  
(800 Micron)

# Valves

## Guarantees

**2** Years  
on Bastion Valves



### Bastion Fill + Flush Valves

#### Features + Benefits

Energy-efficient and compact design

Easy integration with UFH systems

Built for durability and consistent performance

Suitable for both domestic and commercial UFH setups

**10 Bar** maximum inlet pressure (Static)

**85°C** maximum operating temperature

Max 85°C    Max 10 Bar

ZL-4250-22 Bastion 22mm Fill + Flush Valve

ZL-4250-28 Bastion 28mm Fill + Flush Valve



### Bastion Automatic By-Pass Valves

#### Features + Benefits

Reduces system noise and maintains an even system pressure

Ideal for sealed systems to protect pumps when zone valves close

**10 Bar** maximum inlet pressure (Dynamic)

**100°C** maximum inlet temperature

**1 to 5m<sup>3</sup>/hour** flow capacity

**0.1 to 0.5 Bar** differential pressure range

Max 100°C    Max 10 Bar

ZL-8009B Bastion Angled By-Pass Valves

ZL-8010B Bastion Straight By-Pass Valves



### Bastion Heat Pump Flow Balancing Valves (with Fill + Flush)

#### Features + Benefits

Easy integration with UFH systems

Built for durability and consistent performance

Suitable for both domestic and commercial UFH setups

**10 Bar** maximum pressure (Static)

**110°C** maximum operating temperature

Max 110°C    Max 10 Bar

ZL-4901-22-00 22mm Heat Pump Flow Balancing Valve (with Fill + Flush - 4-40 Ltr/min)

ZL-4901-28-00 28mm Heat Pump Flow Balancing Valve (with Fill + Flush - 4-40 Ltr/min)



### Bastion Y-Pattern Strainers

#### Features + Benefits

Easy integration with UFH systems

Exceptional durability and resistance to corrosion

Ideal for prolonged use in harsh environments

**10 Bar** maximum pressure (Static)

**100°C** maximum operating temperature

Max 100°C    Max 10 Bar

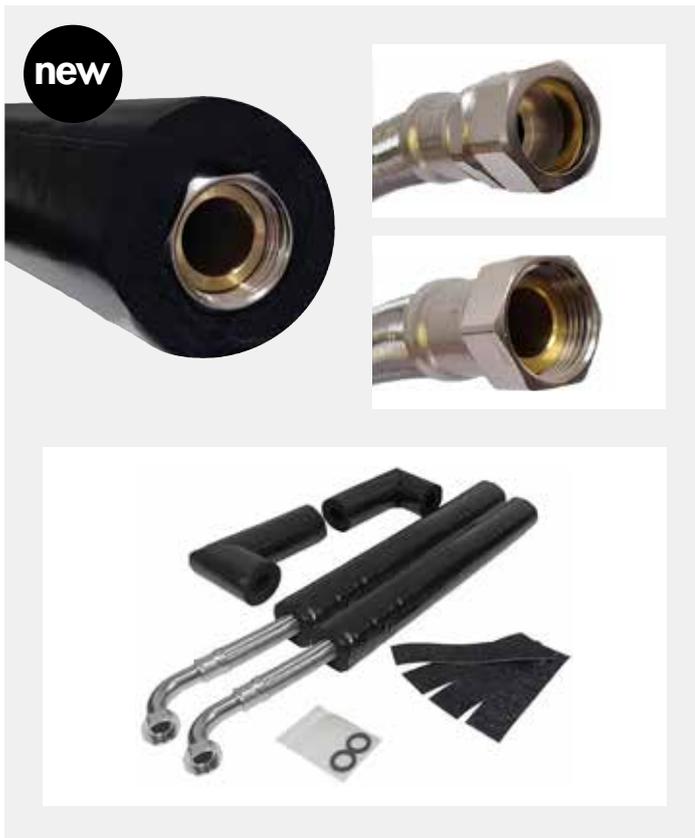
ZL-7113C-22 Bastion 22mm Y-Pattern Strainer (with Magnetic Filter)

ZL-7113C-28 Bastion 28mm Y-Pattern Strainer (with Magnetic Filter)

# Hoses

## Guarantees

**1** Year  
on Rob Pond Hoses



### Rob Pond Flexible Connection Hoses

Pre insulated with a durable 19mm thick PVC coating that resists weather and UV rays these flexible hoses simplify connecting flow and return pipes to heat pumps and biomass boilers. These hoses dampen vibrations and enable smooth bends during installation. They feature a 28mm inner hose encased in a protective stainless-steel braid.

For easy connection, one end has a male or female BSP thread, while the other uses a 28mm compression fitting.

#### Features + Benefits

Available in **300mm**, **500mm** and **750mm** lengths

#### Hose

Suitable for Water + Glycol up to 50%

28mm bore stainless steel braided inner hoses

**10 Bar** maximum inlet pressure (Static)

**90°C** maximum inlet temperature

#### Insulation

19mm wall thickness PVC coated insulation that resists weather and UV resistant

**-40°C to +110°C** insulation temperature range

**0.035 W/mk** insulation thermal conductivity

$\mu \geq 15,000$  water vapour resistance

#### Kit

2 x PVC coated flexi hoses

2 x PVC tape strips

2 x rubber washes

Max  
110°C

Max  
10 Bar



### Rob Pond PVC External Insulation Tape

#### Features + Benefits

Seals PVC coated insulation joints and seams

**Excellent weather and UV resistance**

**Strong adhesion**

HPTAPE

PVC External Insulation Tape 10m x 50mm

### Rob Pond Flexible Connection Hoses

		Length	Connection
HPFA1143INS	PVC Coated Pre Insulated Angle Flexi Hose Pair	300mm	28mm x 1 1/4" Fem
HPFA1145INS	PVC Coated Pre Insulated Angle Flexi Hose Pair	500mm	28mm x 1 1/4" Fem
HPFA1147INS	PVC Coated Pre Insulated Angle Flexi Hose Pair	750mm	28mm x 1 1/4" Fem
HPFA1283INS	PVC Coated Pre Insulated Angle Flexi Hose Pair	300mm	28mm x 1" Fem
HPFA1285INS	PVC Coated Pre Insulated Angle Flexi Hose Pair	500mm	28mm x 1" Fem
HPFA1287INS	PVC Coated Pre Insulated Angle Flexi Hose Pair	750mm	28mm x 1" Fem
HPFS1145INS	PVC Coated Pre Insulated Straight Flexi Hose Pair	500mm	28mm x 1 1/4" Fem
HPFS1147INS	PVC Coated Pre Insulated Straight Flexi Hose Pair	750mm	28mm x 1 1/4" Fem
HPFS1285INS	PVC Coated Pre Insulated Straight Flexi Hose Pair	500mm	28mm x 1" Fem
HPFS1287INS	PVC Coated Pre Insulated Straight Flexi Hose Pair	750mm	28mm x 1" Fem

## Guarantees

**1** Year on DiversiTech Hoses



## DiversiTech Flexible Connection Hoses

Pre insulated with external grade PVC coated 19mm thick insulation these flexible hoses help to avoid transmission of vibration in the pipe work and allow for a smooth bend when connecting the flow and return pipe to the heat pump.

### Features + Benefits

Available in **300mm, 500mm and 750mm** lengths

### Hose

Suitable for Water + Glycol up to 60%

20mm bore stainless steel braided inner hoses

One end has 28mm compression fitting, the other end BSP female threaded

**10 Bar** maximum inlet pressure (Static)

**85°C** maximum inlet temperature

### Insulation

19mm wall thickness PVC coated insulation that resists weather and UV resistant

Additional 80mm of insulation to cover the connectors

**-50°C to +110°C** insulation temperature range

**0.036 W/mk** insulation thermal conductivity

$\mu \geq 10,000$  water vapour resistance

### Kit

2 x PVC coated flexi hoses

2 x Insulation

Max 110°C

Max 10 Bar

DiversiTech Flexible Connection Hoses		Length	Connection
<b>FH-300-28-F-ELBOW</b>	PVC Coated Pre Insulated Elbow Flexi Hose Pair	300mm	28mm x 1" Fem
<b>FH-500-28-F</b>	PVC Coated Pre Insulated Straight Flexi Hose Pair	500mm	28mm x 1" Fem
<b>FH-500-28-1-1/4-F</b>	PVC Coated Pre Insulated Straight Flexi Hose Pair	500mm	28mm x 1" Fem
<b>FH-750-28-F</b>	PVC Coated Pre Insulated Straight Flexi Hose Pair	750mm	28mm x 1" Fem
<b>FH-750-28-1-1/4-F</b>	PVC Coated Pre Insulated Straight Flexi Hose Pair	750mm	28mm x 1 ¼" Fem

Guarantees

**2** Years  
on Inta Hoses

new


**HPHOSE300**  
Straight Hose

**HPHOSE300B**  
Angled Hose


Inta Flexible Hoses  
Data Sheets, Installation  
Instructions + Maintenance

### Inta Flexible Connection Hoses

Building regulations Part L states that all external pipework on an air source heat pump system should be fully insulated to reduce heat loss and maintain system efficiency.

In systems where every watt counts, Inta's pre-insulated hoses have been designed for external use to prevent heat losses and to help maintain the COP and SCOP of the system, preventing losses of energy, contributing to an efficient system and preventing higher costs to run than expected.

#### Features + Benefits

Available in **300mm**, **500mm** and **750mm** lengths

Pre-insulated to reduce system heat loss preserving system efficiency

Can be fit directly to the heat pump

Available in different sizes and styles to suit a variety of heat pump installations

Supplied in pairs to suit the flow and return

Supplied with an additional piece of insulation to cover connections

The Primary Pro insulation is waterproof and UV resistant, making it suitable for all weather conditions

#### For external use only

#### Hose

Suitable for Water, Water + Glycol up to 50%

Stainless steel braided inner hoses

**10 Bar** maximum inlet pressure (Static)

**90°C** maximum inlet temperature

#### Insulation

19mm wall thickness with Primary Pro's water and UV resistant insulation

Insulation material – Treated Closed Cell Polyethylene

Additional piece of insulation provided to insulate the connectors

**-45°C to +105°C** insulation temperature range

**0.034 W/mk** insulation thermal conductivity

$\mu \geq 39,300$  water vapour resistance

#### Kit

2 x Stainless Steel Braided Flexible Hoses

2 x Pre-fit Hose Insulation

2 x Rubber Washer

1 x Additional Piece Insulation

Max 90°C	Max 10 Bar
-------------	---------------

#### Inta Flexible Connection Hoses

		Length	Connection
<b>HPHOSE300</b>	Pre Insulated Straight Flexi Hose Pair	300mm	28mm x 1" Fem
<b>HPHOSE300B</b>	Pre Insulated Angled Flexi Hose Pair	300mm	28mm x 1" Fem
<b>HPHOSE500</b>	Pre Insulated Straight Flexi Hose Pair	500mm	28mm x 1" Fem
<b>HPHOSE500B</b>	Pre Insulated Angled Flexi Hose Pair	500mm	28mm x 1" Fem
<b>HPHOSE50035</b>	Pre Insulated Straight Flexi Hose Pair	500mm	35mm x 1¼" Fem
<b>HPHOSE50035B</b>	Pre Insulated Angled Flexi Hose Pair	500mm	35mm x 1¼" Fem
<b>HPHOSE750</b>	Pre Insulated Straight Flexi Hose Pair	750mm	28mm x 1" Fem
<b>HPHOSE750B</b>	Pre Insulated Angled Flexi Hose Pair	750mm	28mm x 1" Fem

## Guarantees

**1** Year  
on Altecnic Hoses



## Altecnic Flexible Connection Hoses

### Features + Benefits

Available in **300mm**, **500mm** and **750mm** lengths

#### Hose

Suitable for Water, Water + Glycol up to 40%

28mm bore stainless steel braided inner hoses

For easy connection one end has female BSP thread whilst other end has 28mm or 35mm compression fitting

**10 Bar** maximum inlet pressure (Static)

**90°C** maximum inlet temperature

#### Insulation

19mm wall thickness insulation that resists weather and is UV resistant

Insulation material – Aeroflex HF

Additional piece of insulation provided to insulate the connectors

**-50°C to +125°C** insulation temperature range

**0.04 W/mk** insulation thermal conductivity

**$\mu \geq 3000$**  water vapour resistance

#### Kit

2 x Aeroflex pre insulated hoses

2 x Fibre washers

**Max**  
**125°C**

**Max**  
**10 Bar**

## Altecnic Flexible Connection Hoses

		Length	Connection
<b>128-3601</b>	Pre Insulated Straight Flexi Hose Pair	750mm	28mm x 1" Fem
<b>128-3602</b>	Pre Insulated Angled Flexi Hose Pair	750mm	28mm x 1" Fem
<b>128-3603</b>	Pre Insulated Straight Flexi Hose Pair	500mm	28mm x 1" Fem
<b>128-3604</b>	Pre Insulated Angled Flexi Hose Pair	500mm	28mm x 1" Fem
<b>128-3605</b>	Pre Insulated Straight Flexi Hose Pair	300mm	28mm x 1" Fem
<b>128-3606</b>	Pre Insulated Angled Flexi Hose Pair	300mm	28mm x 1" Fem
<b>128-3607</b>	Pre Insulated Straight Flexi Hose Pair	750mm	35mm x 1¼" Fem
<b>128-3608</b>	Pre Insulated Angled Flexi Hose Pair	750mm	35mm x 1¼" Fem
<b>128-3609</b>	Pre Insulated Straight Flexi Hose Pair	500mm	35mm x 1¼" Fem
<b>128-3610</b>	Pre Insulated Angled Flexi Hose Pair	500mm	35mm x 1¼" Fem
<b>128-3611</b>	Pre Insulated Straight Flexi Hose Pair	300mm	35mm x 1¼" Fem
<b>128-3612</b>	Pre Insulated Angled Flexi Hose Pair	300mm	35mm x 1¼" Fem

# Insulation

## Guarantees

**1** Year  
on DiversiTech Insulation

### DiversiTech PVC Coated External Grade Insulation

#### Features + Benefits

PVC Coated weather protected covering to avoid UV degradation and animal damage

Class O **weatherproof** and **UV stable**

Helps installations comply with building regulations for heat loss



#### DiversiTech PVC Coated External Grade Insulation

		Length	Diameter	ID
<b>FH-I-1000-28</b>	PVC Coated Weather + Waterproof Insulation	1000mm	19mm	28mm
<b>FH-I-1000-35</b>	PVC Coated Weather + Waterproof Insulation	1000mm	19mm	35mm
<b>INS-TAPE-10-PK</b>	PVC Coated Weather + Waterproof Tape	250mm	1mm	35 Pack

### DiversiTech Pre Slit + Seal Insulation

#### Features + Benefits

Outstanding protection against the elements on external pipework with **weatherproof** and **UV stable** PVC coating

Design offers a **quick and secure** 'tape free' installation with its peel and seal join and self adhesive wrap over flap



#### DiversiTech Pre Slit + Seal Insulation

		Length	Diameter	ID
<b>FH-I-1000-28-SLIT</b>	Pre Slit + Seal Insulation	1000mm	19mm	28mm
<b>FH-I-1000-35-SLIT</b>	Pre Slit + Seal Insulation	1000mm	19mm	35mm
<b>INS-TAPE-10-PK</b>	PVC Coated Weather + Waterproof Tape	250mm	1mm	35 Pack

### DiversiTech Through The Wall Insulation Kit

#### Features + Benefits

Avoids heat loss and improves efficiency of the installed air source heat pump

Sleeved PVC coated insulation kit containing 2 x straight lengths (320mm) and 2 x elbows

19mm wall insulation with a tough PVC coating

Suitable for both 22mm and 28mm pipe work

Provides both thermal insulation within the wall, and comes complete with an elbow section to cover the external copper pipe connection



**TW-KIT**

Through Wall Insulation Kit 22-28mm Pipe 19mm Wall External Grade Insulation

**Guarantees**

**2** Years on Primary Pro Insulation

Take a closer look at the Primary Pro product and demo videos



# Insulation

## Primary Pro External Heating Insulation

**Features + Benefits**

Protected with unique weather and UV protective coating allowing you to cut/mitre to the required size  
Insulation should go through fabric of wall then sealed to be fully insulated

Primary Pro External Heating Insulation					
		Length	Diameter	Thickness	ID
AS045	Primary Pro 22mm x 25mm Insulation	1000mm	65mm	25mm	22
AS022	Primary Pro 28mm x 19mm Insulation	1000mm	78mm	19mm	28
AS033	Primary Pro 35mm x 19mm Insulation	1000mm	83mm	19mm	35
AS042	Primary Pro 42mm x 19mm Insulation	1000mm	85mm	19mm	42
PPE028	28mm Pre Made Elbows	120mm	60mm	19mm	28
PPE035	35mm Pre Made Elbows	130mm	75mm	19mm	35



## Primary Pro Wall Sleeve

**Features + Benefits**

Protects insulated pipework through wall for 22mm, 28mm and 35mm  
Primary Pro Sleeves can be fitted and sealed using Bond & Seal to prevent heat loss and moisture ingress

Primary Pro Wall Sleeve					
		Length	Diameter	Thickness	ID
PS028	Primary Pro 22/28mm Sleeve	1000mm	72mm	25mm	22/25
PS035	Primary Pro 35mm Sleeve	1000mm	87mm	19mm	35

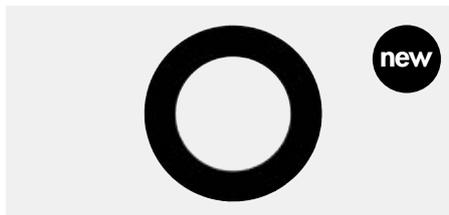


## Primary Pro Bond + Seal

**Features + Benefits**

Aids installers to seal joints, provides perfect seal for the insulation through the wall

AS001 Primary Pro Bond + Seal (290ml)



## Primary Pro Sealing Rings

**Features + Benefits**

Sealing ring that makes sealing external walls simple

AS35 Primary Pro 22 + 28mm Sealing Ring (10 Pack)  
AS36 Primary Pro 35mm Sealing Ring (10 Pack)



## Primary Pro Grinder Head

**Features + Benefits**

Designed to flatten any uneven surfaces, makes a 4mm indentation to the flat wall (brick wall) to make the wall sealing surface flush

AS34 Primary Pro Grinder Head



## Primary Pro Easy Fix Backplate

**Features + Benefits**

Designed for speed and efficiency, allowing you to attach clips to the wall at least five times faster

AS050 Primary Pro Easy Fix Back Plate



## Primary Pro Maintenance Coat

**Features + Benefits**

Apply after installation to tidy up any brick dust or marks

IG010M Primary Pro Maintenance Coat (1ltr)  
IG005 Primary Pro Maintenance Coat (250ml)



## Primary Pro Joint Covers

**Features + Benefits**

Provides enhanced durability on straight or elbow joints

JC28 Primary Pro 28mm Straight Joint Cover (10 Pack)  
JC35 Primary Pro 35mm Straight Joint Cover (10 Pack)  
EJC28 Primary Pro 28mm Elbow Joint Cover (10 Pack)  
EJC35 Primary Pro 35mm Elbow Joint Cover (10 Pack)

# Trunking

## Guarantees

**1** Year  
on DiversiTech Trunking



### DiversiTech SpeediDuct® External Trunking

SpeediDuct® is a system used for air source heat pumps and services. Made out of rigid PVC, the colours are fadeproof, UV resistant and fireproof. The trunking contributes to reducing energy consumption. Suitable for indoor and outdoor use, it can be painted to match its environment.

#### Features + Benefits

Made of rigid, shockproof, UV-stabilised fire resistant PVC B

#### High-quality

Usable from **-20°C to +60°C** in a static position

Inside fixation rail (SpinFix) enables use of cable ties to strap and keep the linesets in place – contributing to the duct rigidity

Large selection of outdoor trunking options available

#### Quick and easy to install

#### UV Stable



### DiversiTech SpeediDuct® Duct

#### Features + Benefits

150mm width, 2000mm length

Available in black or white finish

**TR-D-150-B** SpeediDuct Trunking (Black)  
**TR-D-150-W** SpeediDuct Trunking (White)



### DiversiTech SpeediDuct® Connection Piece

#### Features + Benefits

150mm width

Available in black or white finish

**TR-CP-150-B** SpeediDuct Connection Piece (Black)  
**TR-CP-150-W** SpeediDuct Connection Piece (White)



### DiversiTech SpeediDuct® Flat Bend

#### Features + Benefits

150mm width

Available in black or white finish

**TR-FB-150-B** SpeediDuct Flat Bend (Black)  
**TR-FB-150-W** SpeediDuct Flat Bend (White)



### DiversiTech SpeediDuct® Wall Cover

#### Features + Benefits

150mm width

Available in black or white finish

**TR-WC-150-B** SpeediDuct Wall Cover (Black)  
**TR-WC-150-W** SpeediDuct Wall Cover (White)



### DiversiTech SpeediDuct® 90° External Bend

#### Features + Benefits

150mm width

Available in black or white finish

**TR-EC-150-B** SpeediDuct 90° External Bend (Black)  
**TR-EC-150-W** SpeediDuct 90° External Bend (White)



### DiversiTech SpeediDuct® 90° Internal Bend

#### Features + Benefits

150mm width

Available in black or white finish

**TR-IC-150-B** SpeediDuct 90° Internal Bend (Black)  
**TR-IC-150-W** SpeediDuct 90° Internal Bend (White)

**Guarantees**

**1** Year on DiversiTech Mounting Brackets + Condensate Trays

# Mounting Brackets + Condensate Trays



## DiversiTech Wall Mounting Brackets

These flat-packed, self assembly brackets provide a professional finish to the installation of wall mounted outdoor condensing units and air source heat pumps.

**Features + Benefits**

Integral spirit level for **easier, correct installation**

Uprights mount anywhere on the crossbar which enables the arm span to be **adjusted easily**

Adjustable wall spacers to level the arms

Safe working **load up to 250kg**

Suitable to match most brands of condensing units and domestic air source heat pumps

All brackets are tested to 2 x safe working load and go through a 4 stage anti corrosion coating process

DiversiTech Wall Mounting Brackets							
		Finish	Safe Working Load*	Crossbar	Upright	Support Arm	Weight
<b>CBR2-M</b>	Type 2 Bracket – Medium	Ivory (RAL 7032)	90kg	900mm	500mm	500mm	4.6kg
<b>CBR2-XL</b>	Type 2 Bracket – XL	Ivory (RAL 7032)	250kg	1040mm	550mm	660mm	16.2kg
<b>CBR2-XL-BL</b>	Type 2 Bracket – XL	Black	250kg	1040mm	550mm	660mm	16.2kg
<b>CBR2-XXL-3A-BL-DA</b>	Type 2 Bracket – XXL (3 Arms)	Black	250kg	1120mm	550mm	780mm	17.3kg
<b>AVMB-1</b>	AV Mounting Bolts (Pack of 4)		-	-	-	-	-

\*All brackets are tested to twice the safe working loads at an independent UK facility



## DiversiTech Easy-Fit Condensate Collection Trays

These metal trays have a convex profile and a recessed surface flush, drain hose adaptor, minimising the amount of standing water left in the tray.

**Features + Benefits**

25mm height trays with concave profile for **efficient drainage**

Supplied with fixing arms to mount to brackets (wall brackets not included)

All trays go through a 4-stage anti-corrosion process

Concave profile ensures effective water drainage

Recessed, surface-flush drain pipe adaptor **minimises standing water in the tray**

½" BSP mail thread on drain outlet

DiversiTech Easy-Fit Condensate Trays					
		Finish	Depth	Width	Weight
<b>CCTM-1080-BL</b>	Metal Tray – 1080mm	Black	500mm	1080mm	7.5kg
<b>CCTM-1100</b>	Metal Tray – Medium	Ivory (RAL 7032)	400mm	1100mm	6.9kg
<b>CCTM-1300-BL</b>	Metal Tray – 1300mm	Black	550mm	1300mm	8.8kg
<b>CCTM01420-BL</b>	Metal Tray	Black	500mm	1420mm	8.5kg

# Feet

## Guarantees

**1** Year  
on DiversiTech Feet

**new** Quick To Install



### DiversiTech Flexi Foot with Strut Kits

Flexi Foot with Strut Kits – These kits can support air source heat pumps, and be used in single form as a flexi foot with strut on a variety of outdoor equipment such as cable trays and pipework etc.

#### Features + Benefits

Made from heavy-duty recycled rubber

21 x 41mm galvanized steel strut is supplied bonded to the rubber

Drain slots moulded to the underside of the foot

**600mm** kit size

Foot material density **1.0kg/cm**

#### Fast and simple installation

480 hour salt spray tested for durability against the elements

#### DiversiTech Flexi Foot with Strut Kits

		Safe Working Load	Length	Width	Height	Weight
<b>FF-600-S-KIT</b>	2 x Flexi Foot 600mm (with fixings)	840kg	600mm	185mm	100mm	12.5kg
<b>FF-600-S-KIT-3</b>	3 x Flexi Foot 600mm (with fixings)	–	600mm	185mm	100mm	–
<b>FF-600-S-150-KIT</b>	2 x Flexi Foot 600mm (with fixings)	–	600mm	130mm	150mm	–
<b>FF-600-S-150-KIT-3</b>	3 x Flexi Foot 600mm (with fixings)	–	600mm	130mm	150mm	–

**new**

Anti Vibration



### DiversiTech Baby Sumo Adjustable Rubber Support Foot

These mini adjustable feet are perfect as ground supports for AC and ASHP units. They are made from reprocessing discarded tyres where 70-95% of the rubber can be recovered. These feet are made of a blend of SBR vulcanised UV-stable rubber with internal glass fibre-reinforced polypropylene.

#### Features + Benefits

**Anti-vibration** mount made of UV-stabilised rubber compound

**Suitable for supporting units on uneven or sloping surfaces**

**160-210mm adjustable height**

NBR rubber washer at the fixing point to further reduce vibration

Support surface features a substantial contact area offering a **stable and secure base**

Solid structure **prevents water stagnation and seepage**

**-30°C to +75°C** working temperature

Includes integral M10 bolt nut & washer, NBR rubber anti vibration washer and integrated spirit level

#### DiversiTech Baby Sumo Adjustable Rubber Support Foot

		Safe Working Load	Height	Width	Depth	Fixing	Qty
<b>SUMO-FT</b>	Mini Adjustable Foot	150kg (per foot)	160-210mm	160mm	160mm	M10	Pack of 4
<b>SUMO-FT-6</b>	Mini Adjustable Foot	150kg (per foot)	160-210mm	160mm	160mm	M10	Pack of 6

**Guarantees**

**1** Year on DiversiTech Feet      **1** Year on Rob Pond Feet

**Feet**



**new**

**Quick To Install**

**DiversiTech Floor Tray Mounting Bracket Kit**

When units are mounted at floor level, condensate discharge needs to be directed towards a drain or soak-away to avoid condensate causing a slip hazard.

**Features + Benefits**

This floor bracket kit allows the metal tray to be mounted onto a flexi foot kit

Bracket kit allows a condensate tray to be mounted on to flexi foot kit. The ASHP can then be mounted on to the bracket

Includes all necessary fixings for **quick and easy installation**

DiversiTech Floor Tray Mounting Bracket Kit			
		Qty	For Use With
<b>CCTM-FLOOR-BRKT-KIT</b>	Stainless Steel Brackets (with fixings)	4	Flexi Feet / Trays
<b>CCTM-FLOOR-BRKT-KIT-3</b>	Stainless Steel Brackets (with fixing – 3ft version)	4	Flexi Feet / Trays



**Anti Vibration**      **new**

**Rob Pond Anti Vibration Rubber Feet**

These anti-vibration feet are designed to provide superior stability and noise reduction for various types of equipment and appliances. These sturdy feet effectively minimise movement and absorb vibrations, ensuring smoother operation and prolonging the life of your machinery.

**Features + Benefits**

**Anti-vibration and noise absorption**

Includes all necessary fixings for **quick and easy installation**

Produced from recycled rubber with 41mm x 21mm bonded channel

**-40°C to +80°C** working temperature

Rob Pond Anti Vibration Rubber Feet					
		Safe Working Load	Length	Width	Height
<b>AVFR250</b>	Anti Vibration Rubber Foot 250mm + Fixing Kit	160kg	250mm	130mm	95mm
<b>AVFR400</b>	Anti Vibration Rubber Foot 400mm + Fixing Kit	240kg	400mm	130mm	95mm
<b>AVFR600</b>	Anti Vibration Rubber Foot 600mm + Fixing Kit	450kg	600mm	130mm	95mm
<b>AVFR6150</b>	Anti Vibration Rubber Foot Hi-Block 600mm + Fixing Kit	450kg	600mm	130mm	150mm

# Buffers + Vessels

Guarantees

**5** Years  
on Inta Buffers + Volumiser Vessels

**new**

Mild  
Steel



Inta Zil-B Buffer Vessel  
Data Sheets, Installation  
Instructions + Maintenance

**new**



Volumiser Vessels  
Data Sheets, Installation  
Instructions + Maintenance

## Inta Zil-B Buffer Vessels

Inta Zil-B buffer vessels are designed to store thermal energy generated by a heat pump system for later use when required.

Zil-B buffer vessels are manufactured to the highest quality and standard, to ensure they maintain optimum system performance, helping to enhance the heat pumps overall efficiency.

### Features + Benefits

Available in 25, 50, 80 + 100 litre capacity

Acts as a buffer storing additional volume and also as a hydraulic separator, separating the primary and secondary circuits

Eliminates compressor pump short cycling

**Heat efficient** for the heat pump defrost cycle

Adjustable wall bracket to assist in the event of an uneven install surface

**41mm** premium polyurethane **foam insulation** with **minimal heat loss**

**Improves the operating efficiency of heat pumps**

Additional connections for venting and drainage

**4 Bar** maximum inlet pressure (Static)

**95°C** maximum inlet temperature

Suitable for Water + Glycol up to 50%

Max  
95°C

Max  
4Bar

**BUFF25** 25 Litre Wall / Floor Buffer Vessel

**BUFF50** 50 Litre Wall / Floor Mounted Buffer Vessel

**BUFF80** 80 Litre Floor Mounted Buffer Vessel

**BUFF100** 100 Litre Floor Mounted Buffer Vessel

## Volumiser Vessels

Provides a bypass route to maintain the minimum flow rate through the heat pump.

### Features + Benefits

Promotes **energy efficiency**

Prevents short cycling

Can be used as an intermediate vessel to protect the expansion vessel membrane from excess temperatures on a solar system

Suitable for heat pump and solar systems

Equipped with entry and exit connections

Complies with PED 2014/68/EU

Suitable for solar systems in accordance with EN12977

**10 Bar** maximum pressure

**-10°C to 110°C** operating temperature

Max  
110°C

Max  
10 Bar

**10001216**

12 Litre Volumiser Vessel

**10001836**

18 Litre Volumiser Vessel

**Guarantees**

**1** Year on DiversiTech ASHP Soak-Away + Rotary Isolators

# ASHP Soak-Away + Rotary Isolators



**DiversiTech Air Source Heat Pump Soak-Away**

This unique pre-bagged geo textile soak-away is used to safely dispose of the condensate from all domestic-sized air source heat pumps where drain routing is not available. This method prevents the condensate from flowing onto paths and driveways, which can freeze and cause a slip hazard.

**Features + Benefits**

Alternative method to condensate removal disposal and suitable for all models/ brands of air source heat pumps

Made from pre-bagged geo-textile material to prevent soil ingress

Pre filled with lightweight granules

DiversiTech Air Source Heat Pump Soak-Away		Inlet	Diameter	Height	Capacity
ASHP-SOAK	Air Source Heat Pump Soak-Away	32mm	400mm	400mm	10-15 litres per hour



**DiversiTech Rotary Enclosed Isolators**

Insulated 4-pole rotary enclosed isolators are CE marked and suitable for disconnecting the power supply to outdoor air conditioning units. The isolators are weatherproof to IP65, easy-to-install, and conform to IEC 60947-3. They have a lockable OFF position and interlocking cover which can be removed only in the OFF position. Earth and neutral terminals included and M20/25 knockouts up to 63A.

**Features + Benefits**

**Weatherproof to IP65**

**Easy installation**

M20/25 knockouts up to 63A

Handle lockable in off position

Interlocked cover - removable in off position only

Earth and neutral terminals included

Captive, retained cover screws

Conforms to IEC 60947-3

DiversiTech Rotary Enclosed Isolators		AMPS AC21		AC23 A 240VA	AC23 A 400VA	Cable Capacity		Height	Width	Depth
	No. of Poles					Solid	Stranded			
IS-4P-32A-G	4	32amp	11kW	7.5kW		1-16mm <sup>3</sup>	0.75-10mm <sup>2</sup>	175mm	114mm	135mm
IS-4P-40A-G	4	40amp	15kW	11kW		1-16mm <sup>3</sup>	0.75-10mm <sup>2</sup>	175mm	114mm	135mm

# Heat Pump Installer Packs

Guarantees

**2** Years  
on Inta Heat Pump Installer Packs

new

All-in-One  
PackGreat  
Value

Inta 28mm Heat Pump Installer Pack  
Data Sheets, Installation  
Instructions + Maintenance

## Inta 28mm Heat Pump Installer Pack

The pack contains everything an engineer needs to complete the external installation.

### Features + Benefits

Inta Zero Ant-Freeze Valve – See page 10

Inta Flexible Connection Hoses – See page 18

Inta K-Type Extended External Ball Valves – See page 12

Inta K-Type Ball Valves Insulation – See page 13

### Kit Includes

2 x Heat Pump Ball Valve 28mm

2 x Ball Valve Insulation

2 x Zero Anti-Freeze Valve 28mm

2 x Anti-Freeze Insulation

2 x Anti-Vacuum Guard

1 x Heat Pump Hose with Elbow 500mm (Pack of 2)

2 x 28mm x 1" Adaptor

2 x 1 1/4" Female x 1" Male Adaptor

1 x Bond + Seal

INHPKIT1

Inta 28mm Heat Pump Installer Pack

**Guarantees**

**2** Years  
on Inta Heat Pump Installer Packs

# Heat Pump Installer Packs

  
**Great Value**

**new**

**All-in-One Pack**



**Inta 35mm Heat Pump Installer Pack**  
Data Sheets, Installation  
Instructions + Maintenance



**Inta 35mm Heat Pump Installer Pack**

The pack contains everything an engineer needs to complete the external installation.

**Features + Benefits**

Inta Zero Ant-Freeze Valve – See page 10

Inta Flexible Connection Hoses – See page 18

Inta K-Type Extended External Ball Valves – See page 12

Inta K-Type Ball Valves Insulation – See page 13

**Kit Includes**

- 2 x Heat Pump Ball Valve 35mm
- 2 x Ball Valve Insulation
- 2 x Zero Anti-Freeze Valve 35mm
- 2 x Anti-Freeze Insulation
- 2 x Anti-Vacuum Guard
- 1 x Heat Pump Hose with Elbow 500mm (Pack of 2)
- 2 x 35mm x 1 ¼" Adaptor
- 1 x Bond + Seal

INHPKIT114

Inta 35mm Heat Pump Installer Pack

# Chemicals



## Adey MC10+® Biocide

With a dual biocide formulation, MC10+ tackles algae and biological contamination in low-temperature systems including underfloor heating. Extra concentrated, containing two active ingredients, it's more effective than single biocide products.

### Features + Benefits

**High performance dual biocide** with two separate active ingredients making it more effective than a single biocide

Prevents bacterial contamination and algae

Ensures efficient system operation



CH1-03-03268

Adey MC10+® Biocide (500ml)



## Adey MC1 Protector Liquid

High performance corrosion and scale inhibitor, MC1 is formulated to protect the central heating system. Built to keep the boiler working efficiently and help protect the system and boiler so it lasts longer. MC1 is formulated to prevent magnetite and other deposits forming, reducing debris buildup and preventing component wear and tear.

### Features + Benefits

Protects against corrosion and scale

Maintains heating efficiency

Helps reduce heating costs and maintenance bills

Extends the central heating system's lifetime



MC1P

Adey MC1 Protector Liquid (500ml)



## Adey MC3 Cleaner Liquid

MC3 Cleaner has been developed specifically to keep heating systems free from debris. Once added, its powerful formulation gets to work on breaking down magnetite and other sludge in as little as an hour.

### Features + Benefits

Removes sludge, debris and scale

Restores heating efficiency

Suitable for all heating systems

**Fast acting formula**, works within 1 hour of dosing



MC3C

Adey MC3 Cleaner Liquid (500ml)



## Adey MCZero+ Anti-Freeze

MCZero+® is a concentrated monopropylene-based glycol solution designed to prevent freezing in all types of water. The formulation also contains an inhibitor to protect against corrosion and scale formation, and biocide to prevent bacterial contamination. Specially designed to protect low-temperature heating and cooling systems.

### Features + Benefits

Prevents water freezing

Prevents corrosion, scale formation and microbial growth

Protection at -3°C at a 10% concentration

Mild steel protection prevents magnetite generation



CH1-03-03455

Adey MCZero+ Anti-Freeze (10 Litre)

CH1-03-03113

Adey MCZero+ Anti-Freeze (2.5 Litre)

# Chemicals

new

Anti Freeze



## Fernox Heat Transfer Fluid HP-EG

A concentrated heat transfer fluid for Air and Ground Source Heat Pumps based on ethylene glycol. This high performance product is designed to protect against corrosion and limescale, as well as frost protection from -10 to -33°C.

### Features + Benefits

High performance heat transfer fluid for **maximum protection against corrosion and scale**, to extend system longevity

Higher efficiency and lower viscosity than propyleneglycol based products

Lower viscosity means **less energy is used** to pump the heat transfer fluid around the system

Excellent pH buffering to maintain optimum system pH for a mixed-metal system

**Cost effective** solution where thermal efficiency is a key requirement

Compatible with all metals and materials in heat pump systems

**Concentration** 25%, 30%, 35%, 40%, 45%, 50%

**Frost Protection** -10°C, -14°C, -18°C, -22°C, -28°C, -33°C



62644

Fernox Heat Transfer Fluid HP-EG (10 Litres)

62595

Fernox Heat Transfer Fluid HP-EG (20 Litres)

new



## Fernox Biocide F7

Biocide F7 prevents bacterial contamination and fungal growth within underfloor, low temperature heating systems and chilled systems. Biocide F7 should be used in conjunction with Fernox Protector F1 or Anti-Freeze Protector Alpha-11 to offer full system protection against corrosion and scale, and to maintain energy efficiency levels. Biocide F7 is also used to clean and prevent the reoccurrence of microbiological fouling producing jelly-like deposits (fungal growths) in feed and expansion cisterns. Gas produced by fermentation within systems will also be eliminated by the addition of Biocide F7.

### Features + Benefits

Prevents the reoccurrence of jelly-like deposits in low temperature heating systems such as underfloor systems and to clean feed and expansions cisterns

**Fast, effective action** – starts to work within 24 hours

Simple application, add via a radiator, towel rail, filling loop or inline system filter

Compatible with all Fernox Protectors

**High performance**, dual action biocide – disinfectant and preservation agent provides **short term** and **long term protection**

A single 200ml bottle of Biocide F7 treats up to 250m<sup>2</sup> of underfloor systems and 150 litres of system volume



62393

Fernox Biocide F7 (200ml)

## Chemicals

new

**Scalemaster® HP-PRO Heat Transfer Fluid for Heat Pumps**

Concentrate working fluid for air/ground source heat pumps & underfloor heating systems.

**Features + Benefits**

Inhibited monopropylene glycol (MPG) based Anti-Freeze formulation with added biocide, providing scale, corrosion and bacterial growth protection

Helps prevent limescale formation, corrosion and bacterial growth in low temperature heating systems

**-14°C frost protection**, providing a wider operating range than water alone

Compatible with all materials commonly found in heat-pump and underfloor heating systems

Convenient application, mix at site with mains tap water



**509006** Scalemaster® HP-PRO Heat Transfer Fluid for Heat Pumps (5 Litre)

**509013** Scalemaster® HP-PRO Heat Transfer Fluid for Heat Pumps (10 Litre)

**509020** Scalemaster® HP-PRO Heat Transfer Fluid for Heat Pumps (20 Litre)

new

**Scalemaster® Sanitising Fluid**

A highly effective sanitising/disinfectant fluid for the treatment of waterborne bacteria and biofilms in low temperature domestic heat pump and underfloor heating systems, and in general storage tanks and pipework.

**Features + Benefits**

**Effective against organic contaminants/pollutants** – bacteria & viruses, micro-organisms & mould, biofilms & slime

Includes test strips to measure diluted concentration



**508498** Scalemaster® Sanitising Fluid (1 Litre)

new

**Scalemaster® HP-PRO Biocide Top-Up Treatment for Heat Pumps**

Use HP-PRO Biocide Top-Up Treatment annually to provide ongoing protection against the growth of bacteria in air/ground source heat pumps & underfloor heating systems. A 250ml bottle is sufficient to treat 100 litres of water at zero current concentration levels.

**Features + Benefits**

Delivers a stronger, more persistent (longer lasting) treatment for low temperature systems

Compatible with all materials commonly found in heat-pump and underfloor heating systems



**509068** Scalemaster® HP-PRO Biocide Top-Up Treatment for Heat Pumps (250ml)

**Instinct Pro IN-100 Corrosion Inhibitor**

Provides top-up treatment for air/ground source heat pumps & underfloor heating systems preventing corrosion and hard water limescale precipitation, and is essential for maintaining operational efficiency of low temperature heat pump and underfloor heating systems.

**Features + Benefits**

Compatible with all materials commonly found in heat-pump and underfloor heating systems

A 250ml bottle is sufficient to treat 100 litres of system water



**504223** Instinct Pro IN-100 Corrosion Inhibitor (250ml)

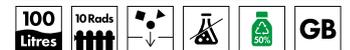
**Instinct Pro IN-300 System Cleaner**

For pre-commissioning of low temperature heat pump and underfloor heating systems. Removes installation foulants, flux, grease and debris suspended in water by flushing

**Features + Benefits**

Ideal for treating new systems prior to adding Heat Transfer Fluid

Compatible with all materials commonly found in heat-pump and underfloor heating systems



**504247** Instinct Pro IN-300 System Cleaner (250ml)

**Guarantees**

**3** Years on Scalemaster® Suprion Scale Inhibitors

# Scale Inhibitors

## Suprion – Technologically Advanced Physical Water Treatment

Proven longevity with no decline in performance

Prevents hard water limescale buildup

Requires no electrical power

Protects the mains water circuit of electric domestic heating & hot water immersion systems, including those with heat pumps

**new**

Easy To Install

Removes Limescale

950211  
EH-12E 15

950228  
EH-75

950235  
EH-100

### Scalemaster® Suprion Scale Inhibitors

Suprion EH models provide a technologically advanced, effective solution to hard water scale problems over a wide range of water applications for an extended period of time. Prevent limescale buildup in traditionally hard to treat environments which occur in electric pump/immersion heater systems.

**Features + Benefits**

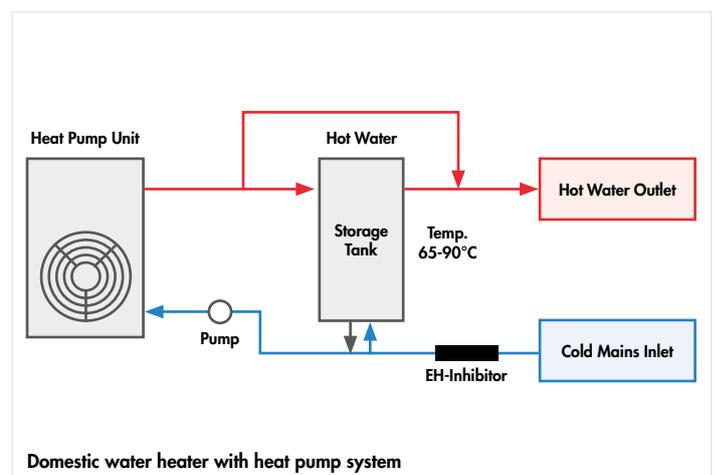
Effective solution in **preventing hard water limescale buildup** and **gently removing existing limescale**

Protecting the mains water circuit of electric domestic heating & hot water immersion systems, including those with heat pumps (JS versions available for non-electric / general use)

**Proven longevity** with no decline in performance

**Requires no electrical power** and **maintenance free** with no filters or chemicals to replenish

Made in Japan



Scalemaster® Suprion Scale Inhibitors		Connectable Pipe	Diameter	Length	Fittings Supplied	Fittings Required	Max. Flow Rate
950211	EH-12E 15mm	15mm	29mm	132mm	15mm Compression	–	36 l/min
950228	EH-75	22mm	44mm	142mm	–	¾" BSPT	65.9 l/min
950235	EH-100	28mm	50mm	165mm	–	1" BSPT	108 l/min