inta

EVERYTHING HEAT PUMP

ALL IN ONE PLACE.

Made for the installer

inta

Made for the installer

EVERYTHING HEAT PUMP

ALL IN ONE PLACE.

Inta heat pump system components have been specifically made with installers in mind.

Designed to be easy to install, our products are made with the highest quality materials and will keep your customers heat pump systems working effectively and efficiently.

Intatec is a major supplier to companies that expect to receive quality products and exceptional service.

Our commitment is to manufacture products that can make a difference in efficiency and cost reduction, both now and in the future.

Don't fit like this...

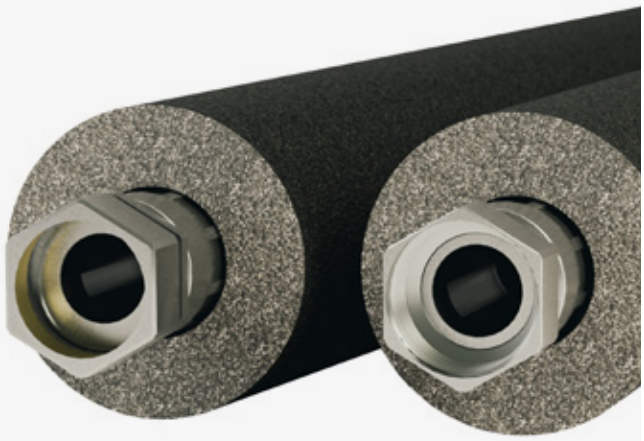
Fit like this...

Scan the code or visit

intatec.co.uk

CONTENTS

PRIMARY PRO
PROFESSIONAL PROTECTION SOLUTIONS



Maximising heat pump efficiency

Insulating and sealing the external pipework and any external fittings is of paramount importance, not only for the efficiency of the heat pump and system but also to protect the external fittings from the elements.

This is why we have partnered up with Primary Pro, heat pump and insulation experts.

We use their insulation to protect our valves and keep your system running as efficiently as possible.

Scan for more information

For more information on how to correctly install and seal your insulation, please scan the QR for the Primary Pro YouTube channel:

inta XCEED

INTELLECTUAL PROPERTY PATENT PENDING

One-stop solution for your heat pump system

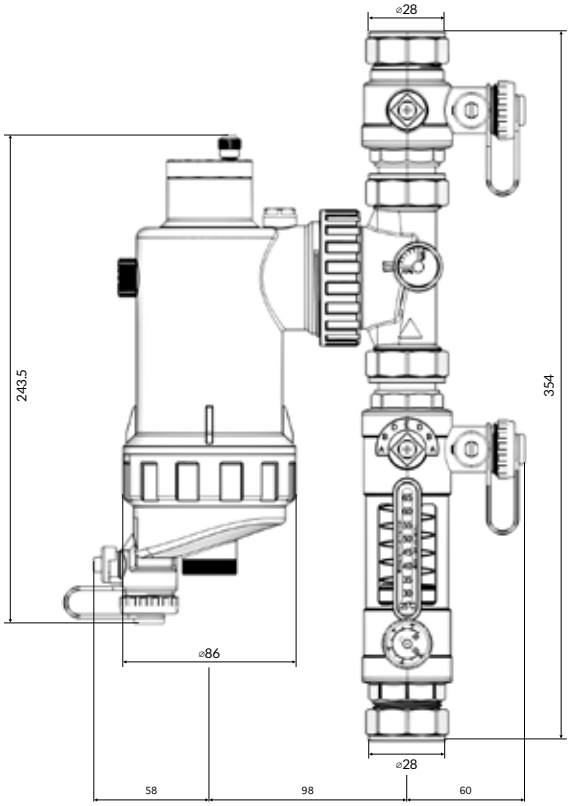
The Inta XCEED gives you everything you need for a heat pump system in one simple installation.

The new Inta XCEED magnetic filter, featuring all the elements you need in a functioning heat pump system, the Inta XCEED removes the need to buy separate valves and gauges, to save space and time installing.

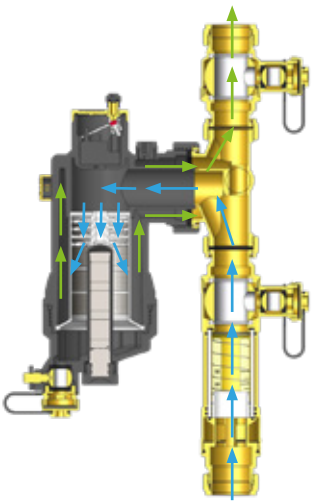
Features

- Fine Particle Filter
- Automatic Air Separator
- Fill & Flush Connections
- Balancing Valve with Visual Flow Rates
- Pressure Gauge
- Temperature Indicator
- Drain Point
- Built-in By-Pass

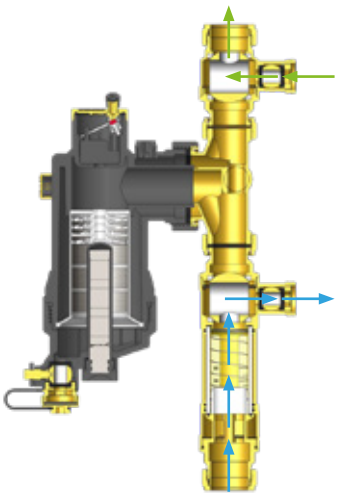
DIMENSIONS



DURING NORMAL OPERATION



DURING FILL & FLUSH



XCEED Combination Magnetic Filter

CODE	DESCRIPTION
EXHPCF28	XCEED Combination Magnetic Filter 28mm

TECHNICAL SPECIFICATION

Max Operating Pressure:	6 Bar
Max Operating Temperature:	120°C
Magnet Strength:	12,000 Gauss
Compatible fluid:	Water, water + glycol 50%

intaKlean® HP
HEAT PUMP FILTER

5 YEAR GUARANTEE

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.

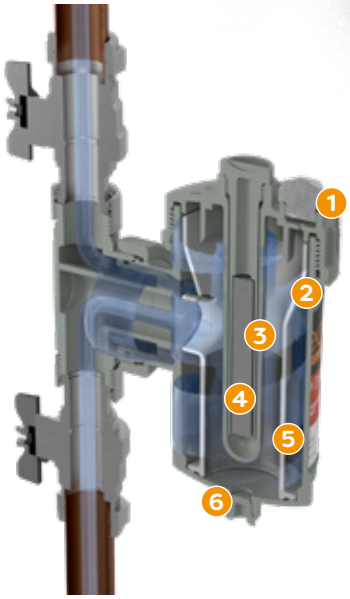
As well as separating magnetic debris and trapped air in circulating system fluid, IntaKlean HP also includes a completely unique direct filter which contains a multi-layered stainless steel 300-micron fine gauze.

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 the 11,000-gauss rare earth neodymium magnet.

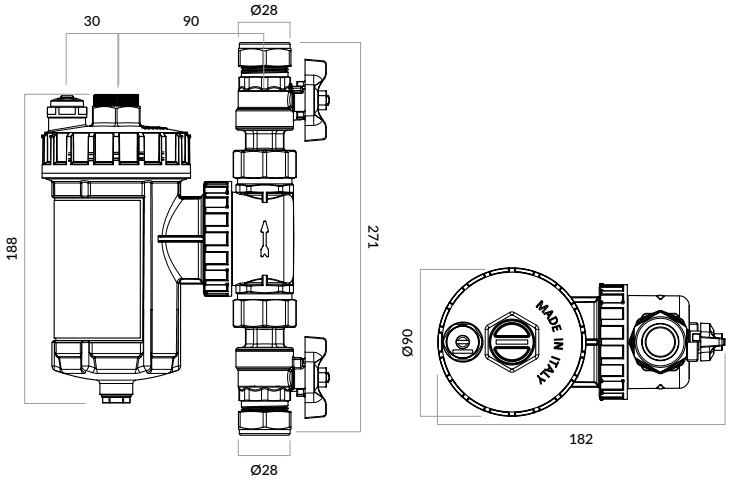
- Actively filters magnetite and non-ferrous system debris
- Unique direct non-ferrous system filter forces system debris directly into the filter core to capture as much system debris as possible
- Multi-layered filter incorporating a 300-micron fine particle filter and a 800-micron mesh filter
- Low-profile drain valve
- Fully removable 11,000 gauss magnet - service the system live
- 360° rotation for ease of servicing
- Manual air vent

DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE



1. Manual air vent
2. Filtering cartridge
3. Protection conduit for magnet cleaning
4. Neodymium magnet
5. Filtration chamber
6. Drain Plug

DIMENSIONS



IntaKlean HP Magnetic Heat Pump Filter

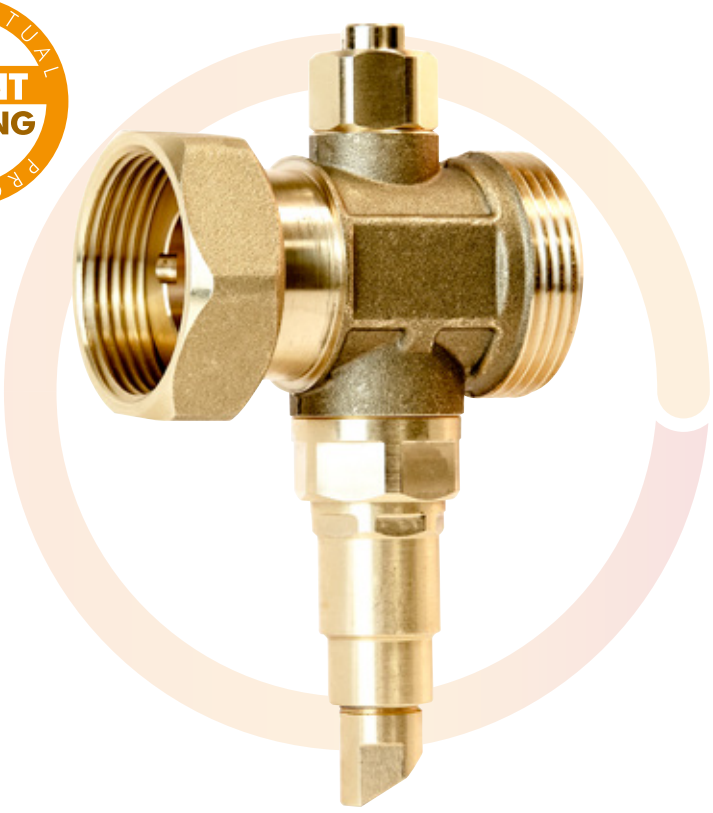
CODE	DESCRIPTION
IKHPMF28	IntaKlean HP 28mm magnetic heat pump filter

TECHNICAL SPECIFICATION

Max Operating Pressure:	4 Bar
Max Operating Temperature	90°C
Magnet Strength:	11,000 Gauss
Compatible fluid:	Water, water + glycol 50%

inta zero

INTELLECTUAL PROPERTY PATENT PENDING



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.

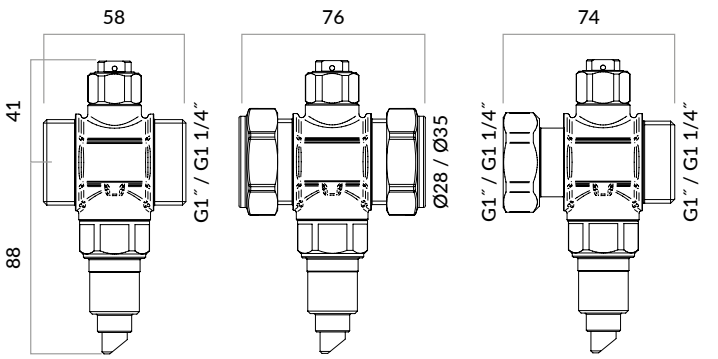
BUILDING REGULATIONS PART L COMPLIANCE

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.

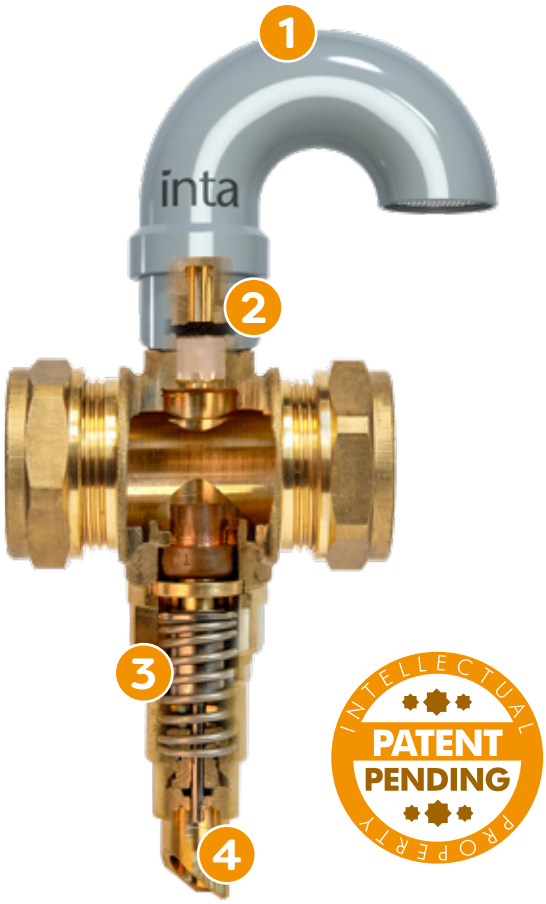
DIMENSIONS



ZERO001 - ZERO114 ZERO28 - ZERO35 ZERO1SW - ZERO14SW

TECHNICAL SPECIFICATION

Max inlet pressure (static):	10 Bar
Medium:	Water
Sensitivity:	+/-1°C
Opening temperature:	3°C
Closing temperature:	4°C
Working temperature range:	0 to 65°C
Ambient temperature range:	-30 to 60°C
Max discharge flow rate at 3 bar:	1.5 L/H
Kv:	ZERO001 (55m³/h) ZERO114 (70m³/h) ZERO28 (64m³/h) ZERO35(70m³/h) ZERO1SW (33m³/h) ZERO14SW (52m³/h)



1. ***The only Anti-Freeze Valve with an optional patented protective debris shield***

   The air inlet valve is fully protected from ingress of dust, dirt, leaves and insects to allow air to flow freely and quickly into the valve should the system ever need to purge.

2. ***Inta Zero will discharge only when the system temperature drops to 3°C. Inta Zero isn't affected by ambient temperature***

   Building Regulations state that all external fittings should be insulated. Inta Zero has an optional pre-cut insulation jacket available, which protects the device from changes in ambient air temperature which could trigger an unnecessary system discharge.

3. ***The Inta Zero has a Nickel & PTFE coated operating piston which provides an almost frictionless operation***

4. ***The patent pending anti-drip outlet prevents water droplets freezing and blocking the outlet in the event of a system discharge***

   The discharged water will not form droplets and freeze around the outlet thanks to a tapered zero-drip design.

Anti-Freeze Valves Product Range

CODE	DESCRIPTION
ZERO28	Zero - Anti-freeze valve 28mm
ZERO35	Zero - Anti-freeze valve 35mm
ZERO001	Zero - Anti-freeze valve 1˝ male
ZERO114	Zero - Anti-freeze valve 1 1/4˝ male
ZERO1SW	Zero - Anti-freeze valve 1˝ male x 1˝ female swivel
ZERO14SW	Zero - Anti-freeze valve 1 1/4˝ male x 1 1/4˝ female swivel
ZEROGUARD	Anti-freeze valve protector

Anti-Freeze Valve space-saving solution with swivel connections

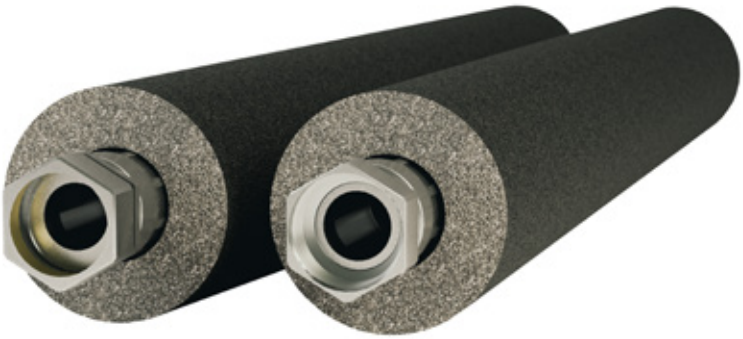
Where space is restricted we've developed the Inta Zero Anti-Freeze valve with swivel connections to allow fitting directly onto the flow and return of the heat pump. The addition of the Zero Guard allows the anti-freeze valves to be installed in parallel without the need to offset as the guard will protect the anti-vacuum valve of the Inta Zero installed on the return.

DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE

intaflex

Building Regulations Part L Compliant heat pump hose insulation

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.



Where every watt counts

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.

Heat pump hoses product range

CODE	DESCRIPTION
HPHOSE500	2 Pack 500mm pre insulated hoses 1˝ female swivel x 28mm
HPHOSE500B	2 Pack 500mm pre insulated hoses 1˝ female swivel elbow x 28mm
HPHOSE50035	2 Pack 500mm pre insulated hoses 1 1/4˝ female swivel x 35mm
HPHOSE50035B	2 Pack 500mm pre insulated hoses 1 1/4˝ female swivel elbow x 35mm
HPHOSE750	2 Pack 750mm pre insulated hoses 1˝ female swivel x 28mm
HPHOSE750B	2 Pack 750mm pre insulated hoses 1˝ female swivel elbow x 28mm
HPHOSE75035	2 Pack 750mm pre insulated hoses 1 1/4˝ female swivel x 35mm
HPHOSE75035B	2 Pack 750mm pre insulated hoses 1 1/4˝ female swivel elbow x 35mm

PRIMARY PRO
PROFESSIONAL PROTECTION SOLUTIONS

Supplied pre-insulated with Primary Pro's water and UV resistant insulation

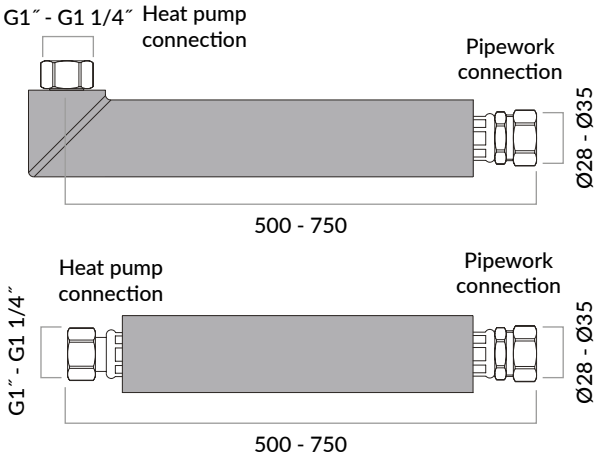
BOND & SEAL

Condensate Pro developed a hybrid polymer sealant that professionally bonds and seals condensate insulation.

Condensate Pro Bond & Seal

CODE	DESCRIPTION
INSULBOND	290ml Bond & Seal

DIMENSIONS



TECHNICAL SPECIFICATION

HOSE

Max inlet pressure (static):	10 Bar
Max inlet temperature:	90°C
Medium:	Water, Water+Glycol up to 50%

INSULATION

Wall thickness:	19mm
Material:	Treated Closed Cell Polyethylene
Temperature range:	-45°C to 105°C
Thermal conductivity:	λ = 0.034 W/mk at 0°C

The water-resistant finish prevents the insulation from absorbing water and moisture which could result in an unintended outcome of the insulation becoming a conductor for heat loss.

It's essential that all joints are bonded and sealed correctly to prevent any heat loss from occurring. The surface finish must be re-treated, the joints and seals inspected and resealed if necessary using Primary Pro Bond / Seal during an annual inspection to maintain the product performance.

- Pre-insulated to reduce system heat loss, preserving system efficiency.
- Designed to connect directly to the heat pump.
- Available with a straight or angled heat pump connection to suit a variety of units and installations.
- Supplied in pairs to suit the flow and return of your heat pump.
- An additional piece of insulation provided to insulate the connections.
- The Primary Pro insulation is water and UV-resistant making it suitable for all weather conditions. Must be inspected annually and retreated, with joints resealed if necessary using Primary Pro Bond and Seal.
- Suitable for external use only

DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE

intafil

Intafil Plus sealed system kits

The Intafil sealed system filling kit includes a filling loop, double check valve and isolating ball assembly, ball valve and safety relief valve with gauge. Complies with both water regulations G24.1 and G24.2.

Intafil Plus sealed system kits expansion vessels are designed for unvented heating systems only. They are not suitable for use on potable applications or systems augmented with an uncontrolled heat source such as solar thermal or wood burner.

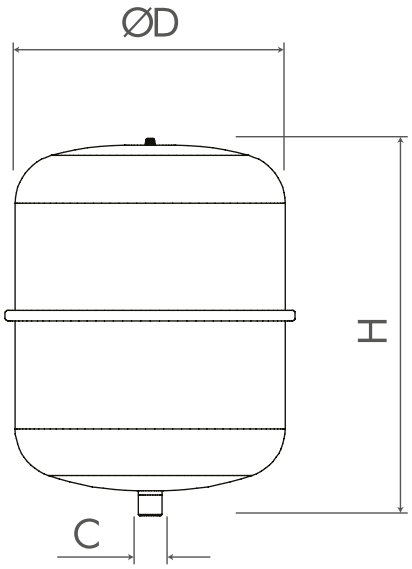
- Manual set point indicator
- Supplied with either 3, 8, 12, 18, 24, 35 or 50 litre vessels
- Suitable for retrofit and new build projects
- Provides complete flexibility for installation orientation
- Complies with G24.1 and G24.2 of the water regulations
- Supplied with wall mounting bracket (where applicable)
- 360° rotatable connection
- Fully CPR compliant

TECHNICAL SPECIFICATION

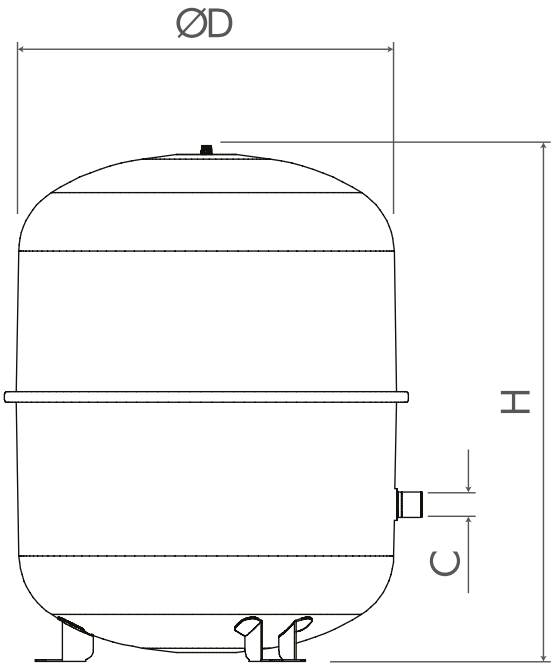
Max Working Temperature:	70°C
Max Peak Temperature:	90°C
Min Temperature:	4°C
Safety Relief Valve Discharge Pressure:	3 Bar
Max Glycol Concentration:	50%
Vessel Shell & Connections:	Carbon Steel
Vessel Membrane:	Synthetic Butyl Rubber (SBR) Diaphragm According to DIN4807-3
Vessel Colour:	Red
Coating:	Epoxy-Polyester Powder Finish

DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE

DIMENSIONS



4 - 24 litre



35 - 50 litre

Intafil plus sealed system kit and wall-mounted heating vessels

CODE	ØD	H	C
IFP4	225	195	3/4″
IFP8	220	295	3/4″
IFP12	294	287	3/4″
IFP18	290	400	3/4″
IFP24	324	415	3/4″

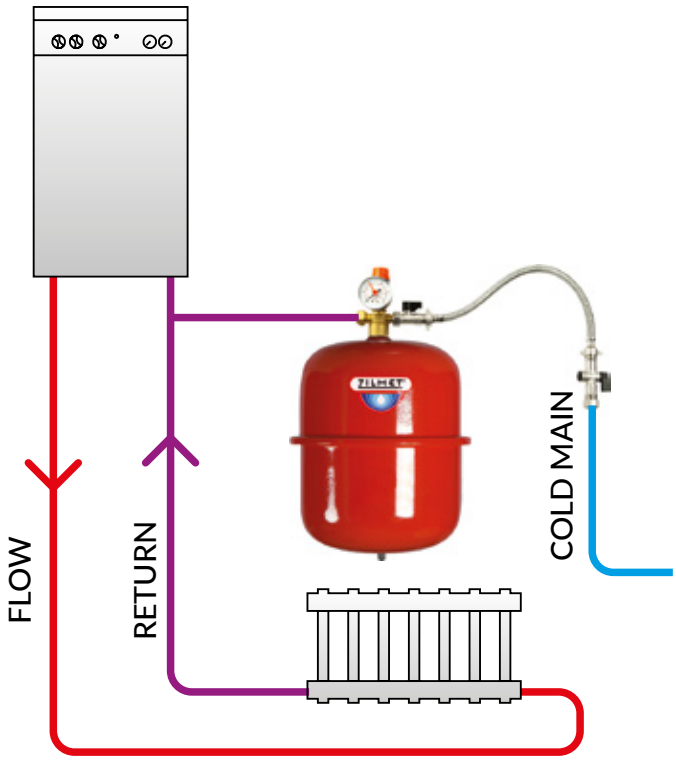
Intafil plus sealed system kit and floor-standing heating vessels

CODE	ØD	H	C
IFP35	404	408	3/4″
IFP50	407	530	3/4″

Intafil sealed system kit

CODE	DESCRIPTION
SSKA075	3/4″ Intafil sealed system kit without bracket
SSKA076	3/4″ Intafil sealed system kit with bracket
SSKA077	3/4″ Intafil sealed system kit with bracket and remote safety valve
RSMB	Wall mounting bracket for 4-24l heating vessels
RSMB2	Wall mounting bracket for 4-24l potable vessels

INSTALLATION EXAMPLE



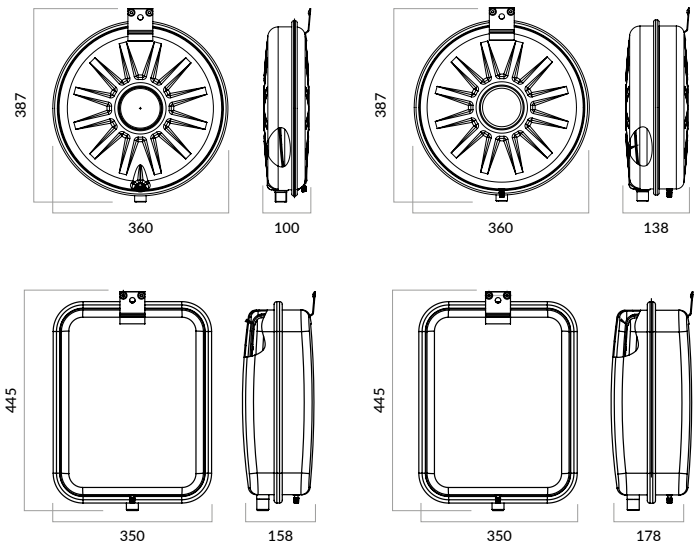
intafil

Slimline all-in-one sealed system

"Slimline" compact expansion vessel, with an all-in-one solution and unique five-way connector allows for easy and convenient installations, where space is limited.

- Slimline compact design allows for installation where space is limited
- Compact all-in-one solution for sealed heating systems
- Fixed wall bracket permits left or right installation
- A unique five-way connection provides a fully flexible installation
- 360° fully rotatable safety relief valve
- Complies fully with G24.1 & G24.2 of the water regulations
- Ideal for both new and retro-fit installations
- Compression joints allow direct connection to pipework

DIMENSIONS



Intafil Slimline Sealed System Kit and wall-mounted heating vessel

CODE	DESCRIPTION
IFS08	8 Litre Intafil ˝slimline˝ sealed system kit and wall-mounted heating vessel
IFS12	12 Litre Intafil ˝slimline˝ sealed system kit and wall-mounted heating vessel
IFS18	18 Litre Intafil ˝slimline˝ sealed system kit and wall-mounted heating vessel
IFS24	24 Litre Intafil ˝slimline˝ sealed system kit and wall-mounted heating vessel

TECHNICAL SPECIFICATION

Max. Operating Pressure	3 bar
Max. Operating Temperature	90°C
Factory Pre-charge:	1 Bar ± 20%

DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE

inta Safe Group

Ideal solution for installations where space is limited

The Inta-Safe Group wall fixing bracket comprising of a wall fixing bracket with an automatic air vent, 3 bar safety relief valve, and vessel connection.

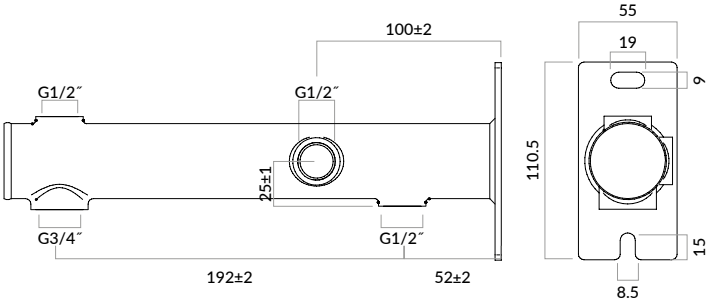
This unique assembly is the ideal product for heating systems where space is limited.

- Ease of installation
- Robust construction
- Brass automatic air vent
- Ideal solution for installations where space is limited
- ISG003 features auto closing, quick-release valves on the air vent and vessel connections
- Vessel not included

ISG003

ISG002

DIMENSIONS



Inta Safe Group expansion vessel mounting bracket

CODE	DESCRIPTION
ISG003	Inta Safe Group expansion vessel mounting bracket and quick release
ISG002	Inta Safe Group expansion vessel mounting bracket

Suitable for expansion vessels with a 3/4″ inlet up to 24 Litres

DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE

Cal-Pro heating expansion vessels

Heating expansion vessels absorb the water volume variations in closed heating systems maintaining constant pressure, which helps to reduce energy consumption and protect your system.

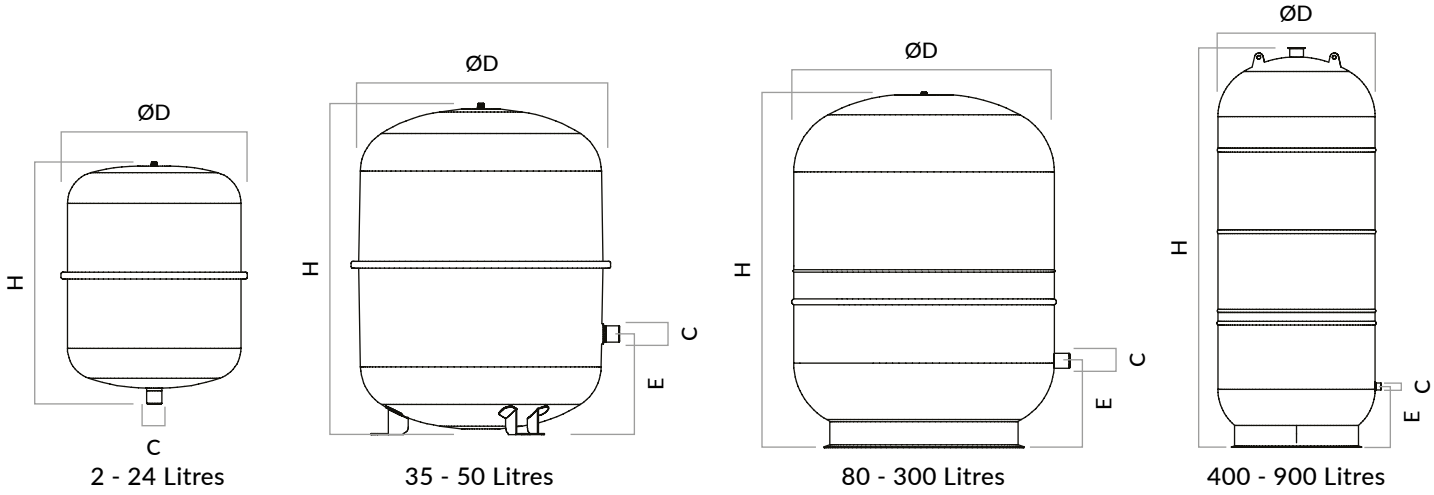
In a closed heating system, water cannot be compressed and any increase in water volume due to the increase of temperature is absorbed by the expansion vessel. When water is cold, the pre-charge pressure presses the diaphragm against the tank.

As temperature increases, the expanded water volume pushes against the membrane and water enters the tank, providing additional space within the system. With the temperature decrease, the air cushion forces water back into the system.

This allows the system to maintain the pressure, helping to reduce energy consumption of the heating system.

- Carbon steel construction
- SBR synthetic rubber diaphragm according to DIN 4807-3
- Hard-wearing epoxy polyester powder coated finish
- Maximum working temperature: 70°C
- Peak working temperature: 99°C
- 100% Factory tested
- Fully CPR compliant
- Sizing calculator available
- Suitable for Heating Systems Only
- 5 year guarantee
- Made in Italy

DIMENSIONS



Cal-Pro heating expansion vessel and mounting bracket

CODE	CAPACITY	ØD	H	E	ØC	MAX. WORKING PRESSURE	PRE-CHARGE
Z1-301004	4 Litres	225	195	-	3/4″	5 bar	1.5 bar
Z1-301008	8 Litres	220	295	-	3/4″	5 bar	1.5 bar
Z1-301012	12 Litres	294	281	-	3/4″	4 bar	1.5 bar
Z1-301018	18 Litres	290	375	-	3/4″	4 bar	1.5 bar
Z1-301024	24 Litres	324	415	-	3/4″	4 bar	1.5 bar

Cal-Pro floor-standing heating expansion vessel

CODE	CAPACITY	ØD	H	E	ØC	MAX. WORKING PRESSURE	PRE-CHARGE
Z1-302035CP *	35 Litres	404	387	119	3/4″	4 bar	1.5 bar
Z1-302050CP *	50 Litres	407	507	157	3/4″	4 bar	1.5 bar
Z1-302080	80 Litres	450	608	150	3/4″	6 bar	2.0 bar
Z1-302105	105 Litres	500	665	165	3/4″	6 bar	2.0 bar
Z1-302150	150 Litres	500	897	216	3/4″	6 bar	2.0 bar
Z1-302200	200 Litres	600	812	225	3/4″	6 bar	2.5 bar
Z1-302250	250 Litres	630	957	245	3/4″	6 bar	2.5 bar
Z1-302300	300 Litres	630	1105	245	3/4″	6 bar	2.5 bar
Z1-302400	400 Litres	630	1450	245	3/4″	6 bar	2.5 bar
Z1-302500	500 Litres	750	1340	290	1″	6 bar	2.5 bar
Z1-302600	600 Litres	750	1555	290	1″	6 bar	2.5 bar
Z1-302750	700 Litres	750	1755	290	1″	6 bar	2.5 bar
Z1-302800	800 Litres	750	1855	290	1″	6 bar	2.5 bar
Z1-302900	900 Litres	750	2105	290	1″	6 bar	2.5 bar

DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE

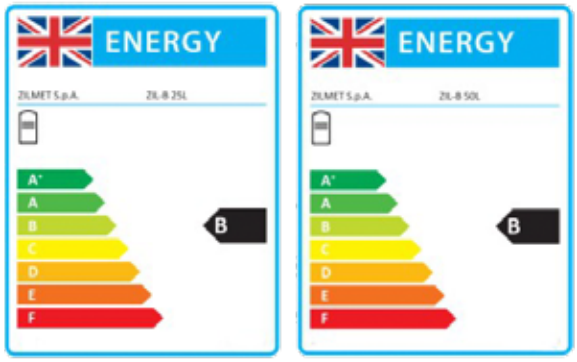
ZIL-B

The new range of Zilmet buffer vessels, where efficiency meets reliability

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.

- Available in 25, 50, 80 & 100 litre capacity
- 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
- Premium polyurethane foam insulation with minimal heat loss
- 5 years manufacturer's warranty
- Improves the operating efficiency of heat pumps
- Additional connections for venting and drainage



Buffer Vessels

CODE	DESCRIPTION
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
BUFFLEG	Buffer tank legs

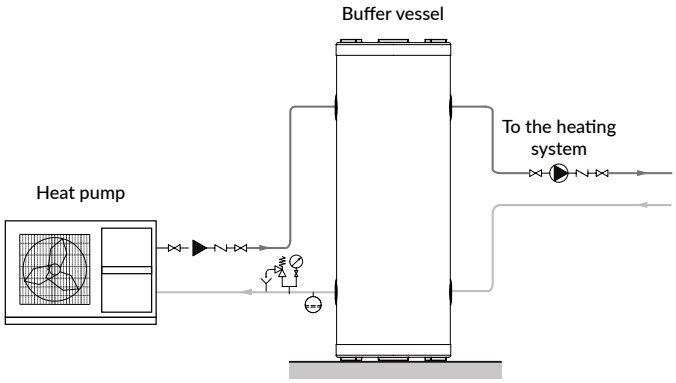
TECHNICAL SPECIFICATION

Max inlet pressure (static):	4 Bar
Max inlet temperature:	95°C
Fluid type:	Water
Glycol mix:	up to 50%
Material:	Mild steel
Insulation thickness:	41mm

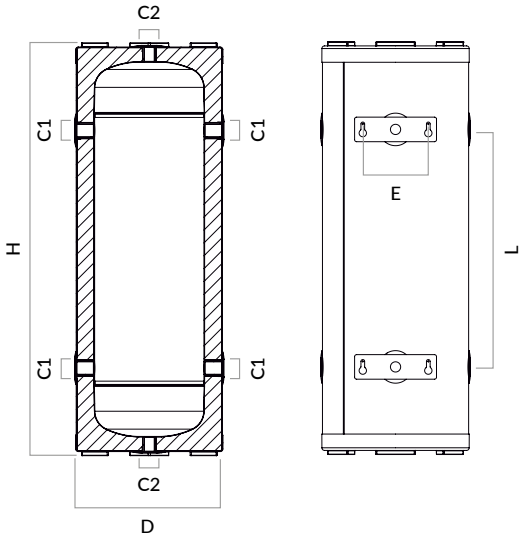
Note: Buffer vessels are supplied with wall support brackets

DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE

INSTALLATION EXAMPLE



DIMENSIONS

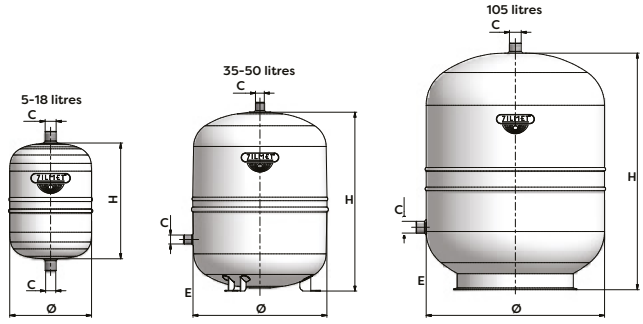


Volume	C1	C2	H	L	D	E
25 L	1″	3/4″	925	480	Ø290	160
50 L	1″	3/4″	1008	580	Ø360	160
80 L	1 1/4″	1 1/4″	891	365	Ø469	160
100 L	1 1/4″	1 1/4″	1071	545	Ø469	160

Volumiser Vessels

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

- Promotes energy efficiency
- Prevents short cycling
- Equipped with entry and exit connections
- Complies with PED 2014/68/EU



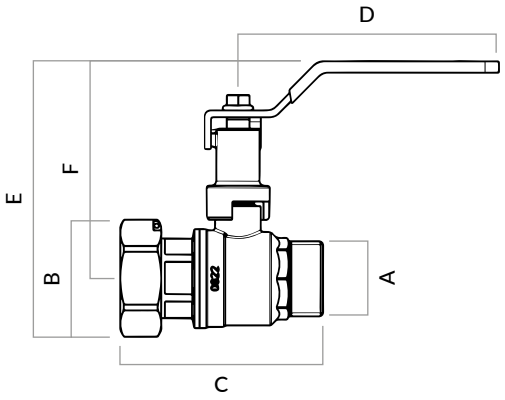
CODE	CAPACITY	ØD	H	E	ØC
10000512	5 Litres	160	270	-	3/4”G
10000837	8 Litres	200	280	-	3/4”G
10001216	12 Litres	270	264	-	3/4”G
10001836	18 Litres	270	349	-	3/4”G
10003510	35 Litres	380	367	125	3/4”G
10005022	50 Litres	380	505	146	3/4”G
10010518	105 Litres	500	665	165	1”G

TECHNICAL SPECIFICATION

Max Pressure:	10 Bar
Colour:	White
Operating Temperature:	-10°C to 110°C
Shell:	Carbon Steel

Ball Valves

DIMENSIONS



	A	B	C	D	E	F	G
HPBV11	1″	1″	88.6	115	115.4	95.3	40
HPBV114	1″	1 1/4″	89	115	121	95.3	40
HPBV114X2	1 1/4″	1 1/4″	95.5	115	-	101.8	40

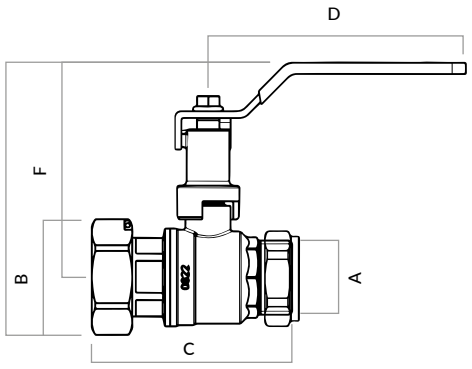
CODE	DESCRIPTION
HPBV11	1″ Female swivel x 1″ male flat face extended lever ball valve
HPBV114	1 1/4″ Female swivel x 1″ male flat face extended lever ball valve
HPBV114X2	1 1/4″ Female swivel x 1 1/4″ male flat face extended lever ball valve

TECHNICAL SPECIFICATION

Max Inlet Pressure (static):	25 Bar
Working Temperature:	-10 to 90°C
Temperature Range:	-20 to 120°C
Thread Standard:	ISO228

DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE

DIMENSIONS



	A	B	C	D	F	G
HPBV28	28mm	1″	93.25	115	95.3	40
HPBV35	35mm	1 1/4″	101	115	101.8	40

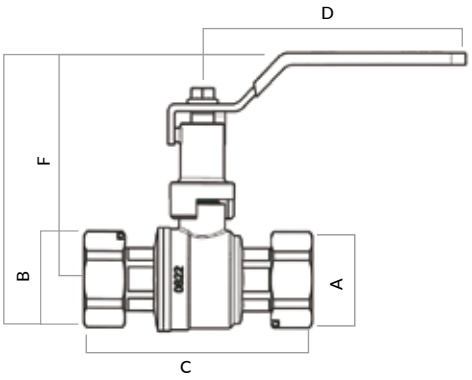
CODE	DESCRIPTION
HPBV28	1″ Female swivel x 28mm extended lever ball valve
HPBV35	1 1/4″ Female swivel x 35mm extended lever ball valve

TECHNICAL SPECIFICATION

Max Inlet Pressure (static):	25 Bar
Working Temperature:	-10 to 90°C
Temperature Range:	-20 to 120°C
Thread Standard:	ISO228

DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE

DIMENSIONS



	A	B	C	D	F	G
HPBV11FS	1"	1˝	99.36	115	95.3	40
HPBV114FS	1 1/4˝	1 1/4˝	107	115	101.8	40

TECHNICAL SPECIFICATION

Max Inlet Pressure (static):	25 Bar
Working Temperature:	-10 to 90°C
Temperature Range:	-20 to 120°C
Thread Standard:	ISO228

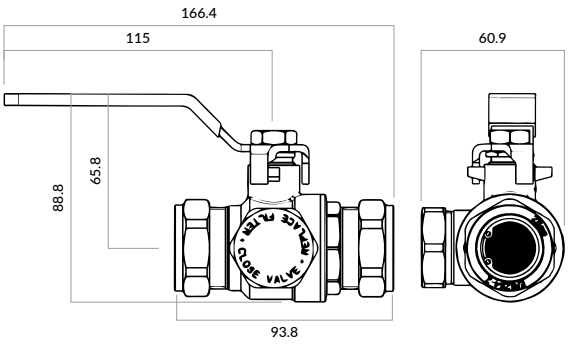
CODE	DESCRIPTION
HPBV11FS	1˝ Female swivel extended lever ball valve
HPBV114FS	1 1/4˝ Female swivel extended lever ball valve

DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE

Ball valves with Filter

CODE	DESCRIPTION
BVF28	28mm Ball valve with 500 micron filter cartridge
BVF35	35mm Ball valve with 500 micron filter cartridge

DIMENSIONS



DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE

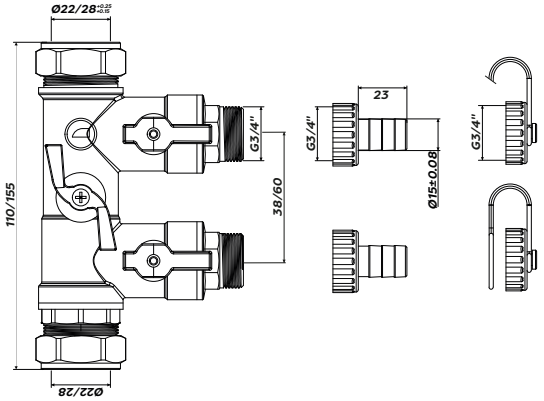
TECHNICAL SPECIFICATION

Max Inlet Pressure (static):	25 Bar
Working Temperature:	-10 to 90°C
Temperature Range:	-20 to 120°C
Filter Mesh Size:	500um
Solid brass construction	
Lever ball valve handle	

Fill and Flush Valve

CODE	DESCRIPTION
INFAF22	22mm Fill and Flush Valve
INFAF28	28mm Fill and Flush Valve

DIMENSIONS



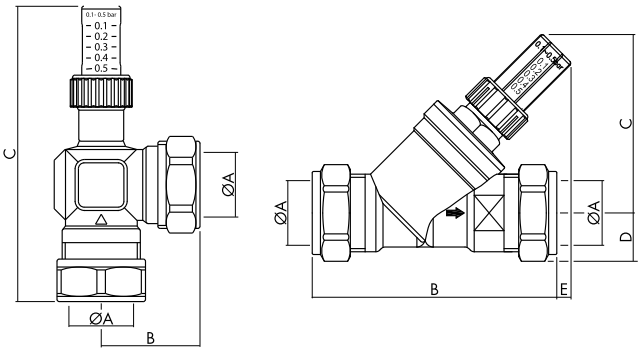
DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE

TECHNICAL SPECIFICATION

Maximum Operating Temperature	99°C
Minimum Operating Temperature:	-5°C
Maximum Pressure (Static):	16 Bar
Medium:	Water / Glycol up to 50%

By-pass Valves

CODE	SIZE	TYPE	SETTING RANGE
ABPA28CP	28mm	angled	0.1 - 0.5 bar
ABPS28CP	28mm	straight	0.1 - 0.5 bar



	A	B	C	D
ABPA28CP	28	38.5	104.8	-
ABPS28CP	28	77	69	21.75

DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE

TECHNICAL SPECIFICATION

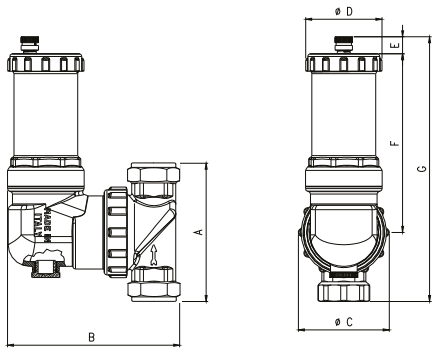
Min Inlet Pressure (dynamic):	10 Bar
Max Inlet Temperature:	100 °C
Flow Capacity:	1 to 5m³/hour
Differential Pressure Range:	0.1 to 0.5 Bar

Inta-Vent Deaerator

The Inta-Vent deaerator is the convenient in-line solution to the problems associated with trapped air in sealed systems.

Fluid enters the base of the Inta-Vent through a wound coil of stainless steel mesh. This generates a vortex within the filter body which encourages micro bubbles to form. These air bubbles combine and then rise to the top of the filter where they are then discharged by the air vent.

DIMENSIONS



	A	B	C	D	E	F	G
IV22	98	127	68	57	13	135	200
IV28	102	127	68	57	13	135	202

CODE	DESCRIPTION
IV22	22mm Inta-Vent auto air eliminator
IV28	28mm Inta-Vent auto air eliminator

DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE

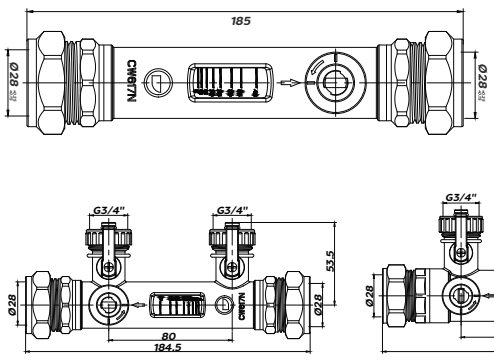
Flow Balancing Valves

CODE	DESCRIPTION
INFSV2840	28mm Flow Balancing Valve 5-40ltr
INFSV2850	28mm Flow Balancing Valve 10-50ltr

Flow Balancing Valves with Fill and Flush

CODE	DESCRIPTION
INFBV28	28mm Flow Balancing Valve with Fill and Flush 5-40ltr
INFBV2850	28mm Flow Balancing Valve with Fill and Flush 10-50ltr

DIMENSIONS



INFBV28 INFBV2850

TECHNICAL SPECIFICATION

Maximum Operating Temperature	110°C
Minimum Operating Temperature:	-20°C
Maximum Pressure (Static):	10 Bar
Medium:	Water / Glycol up to 50%
Inlet Connections:	28mm Compression
Fill & Flush Connections:	G3/4" BSP

DATA SHEETS, INSTALLATION INSTRUCTIONS & MAINTENANCE

Create the ultimate Hybrid Heating System

Create an efficient hybrid system for your customers, without needing to replace the full heating system.

Inta Hydra is a new hybrid solution for homes which currently have a working combi boiler installed. You can install an energy-efficient heat pump without removing your existing combi boiler and without adding a hot water storage tank. Current hybrid system methods can prove to be too expensive and require too much space.

When an Air Source Heat Pump cannot provide heat, the Inta Hydra allows the original combi boiler to operate, providing constant heating, even during the coolest temperatures.

When the heating demand becomes greater than the heat pump can meet, the Hydra's programmable control monitor will, after a series of timed-out delays, revert to using the combi boiler for heating the home.

It only does this when the heat pump is not delivering enough heat, and it doesn't go back to the combi boiler just because it's cold outside.

The electronic controller allows the installer to set the operation to match the operating COP (coefficient of performance) with 4 profiles,

- **Profile 1**
  The factory default, to BS EN 14511 return temperature of 40°C
- **Profile 2**
  For Low COP ASHP operation.
- **Profile 3**
  For High COP ASHP operation
- **Profile 4**
  Allows a full 24-hour day on gas boiler room heating when demand is high, more suitable for older less well insulated properties.

Cost Effective

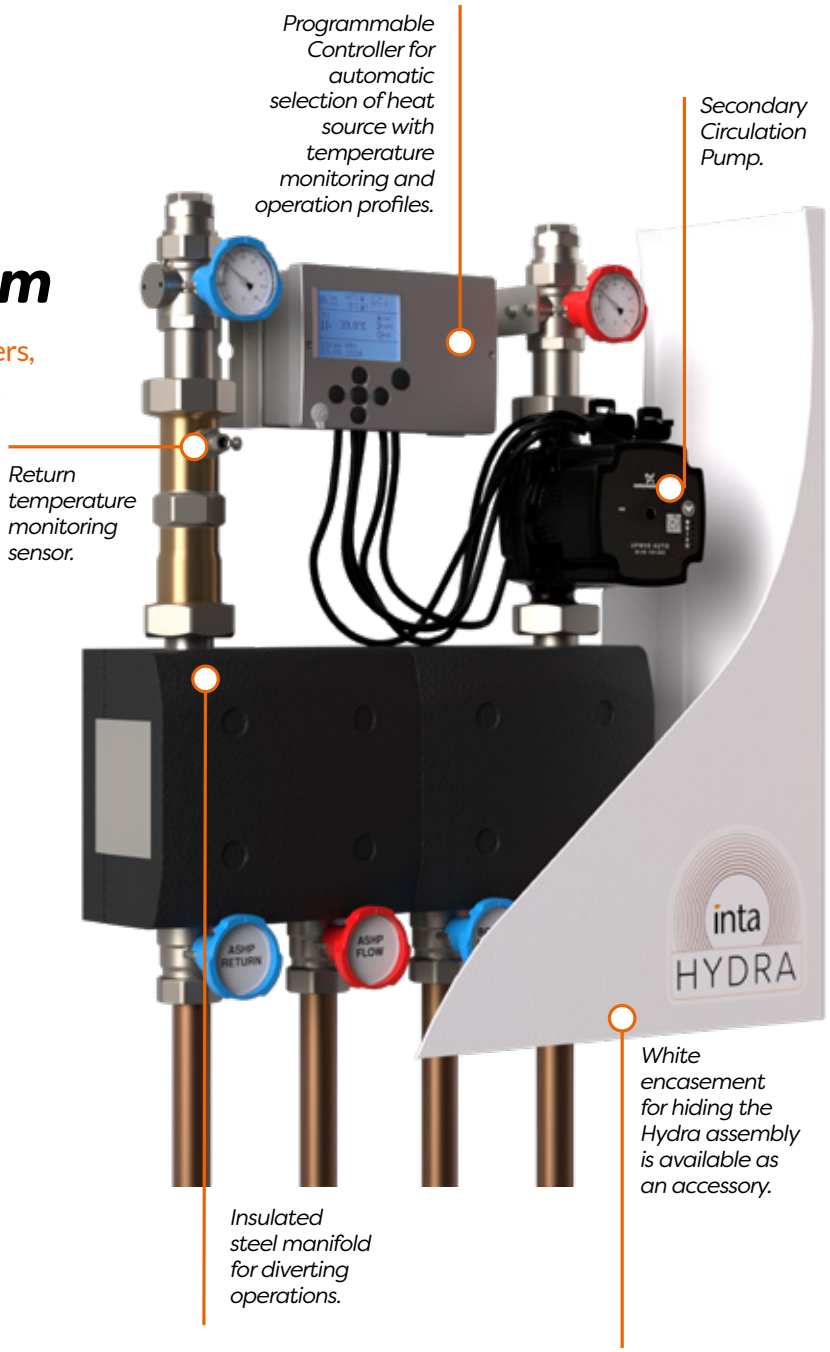
Add to an existing heating system, rather than replacing a functioning boiler

Smart Hybrid Control

Switches from ASHP to boiler to maintain heating supply only when necessary

Requires little space

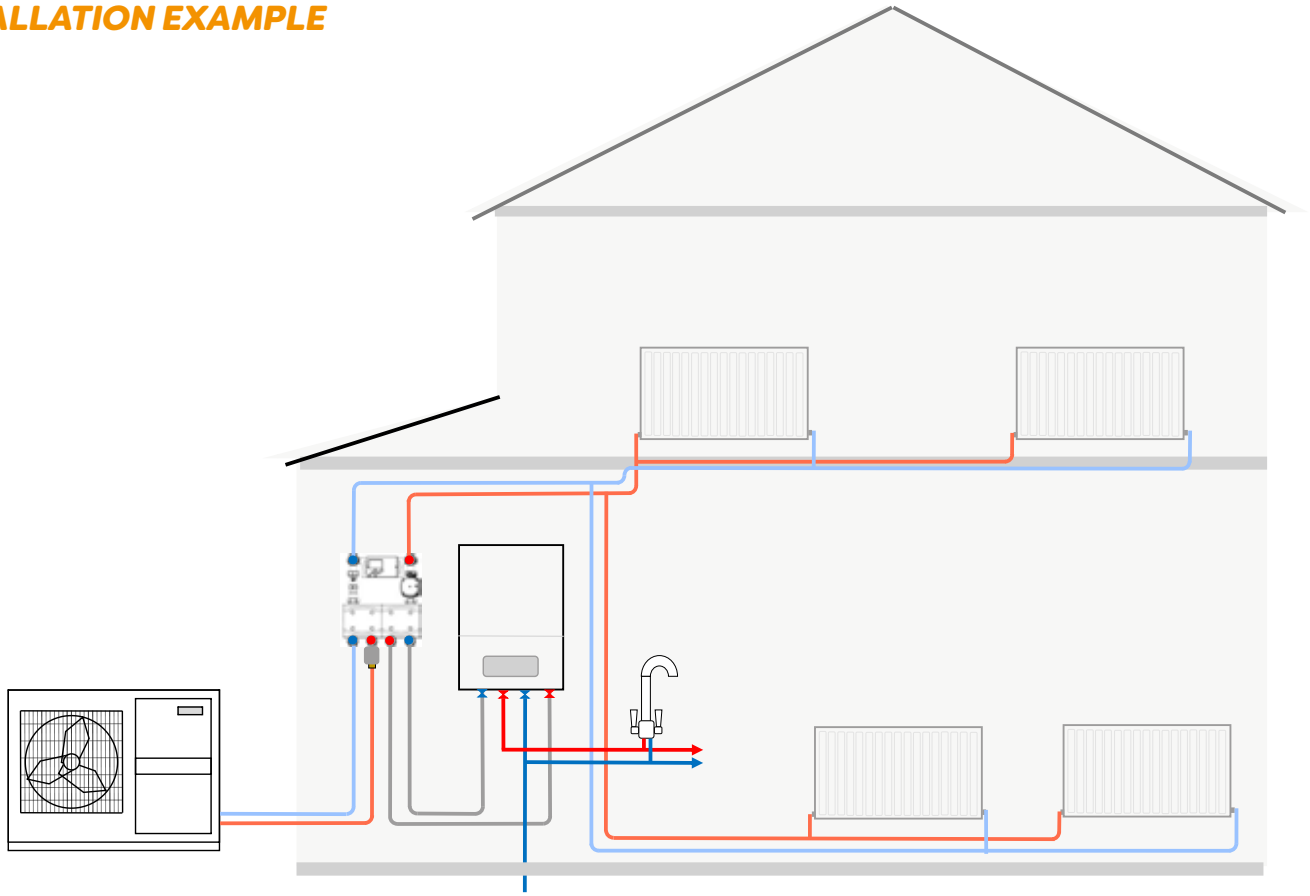
At just 50 x 50 centimetres, it can be easily concealed within a small kitchen unit



Inta Hydra Hybrid Control Unit

CODE	DESCRIPTION
HCU0100-M	HYDRA CONTROL UNIT G1 - M Standard assembly, motorised valve for isolating the ASHP provided by the installer
HCU0100-A	HYDRA CONTROL UNIT G1 – A (WITH ACTUATED VALVE) Full flow actuated ball valve included
HCU0100-C	HYDRA CONTROL UNIT G1 - C (WITH x2 ACTUATED VALVES) For ASHP with cooling function
HCU0100-UFH	HYDRA CONTROL UNIT G1 – UFH (WITH ACTUATED VALVE) For underfloor heating systems, heating outlets below, heat source pipe connections from above.

INSTALLATION EXAMPLE



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