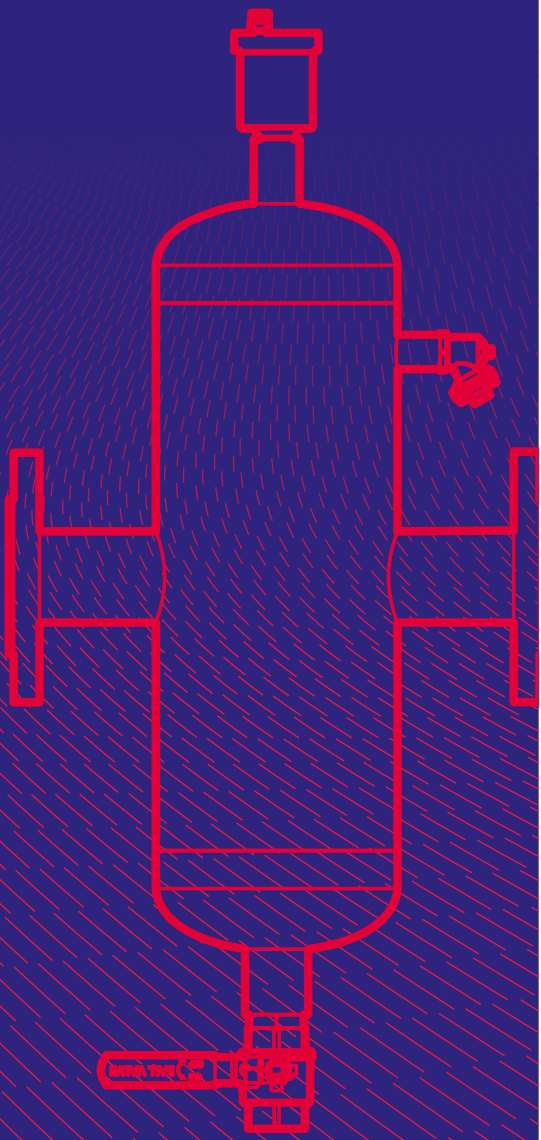
ADEY

Air and Dirt Separator

Installation and servicing



THE QUEEN'S AWARDS FOR ENTERPRISE: INNOVATION 2017

THE QUEEN'S AWARDS FOR ENTERPRISE: INTERNATIONAL TRADE 2018

Air and Dirt Separator

ADEY's range of *Air & Dirt Separators* protect boilers, pumps and fittings used in heating and chilled water systems by filtering out micro air bubbles and dirt particles from the system water without interrupting system operation.

The *Air and Dirt Separator*s are supplied fully assembled for ease of installation and as a complete package that includes the following; powder coated carbon steel vessel, inlet/outlet valves, brass draining valve and automatic air vent.

This product has a limited 2 year warranty.

Pressure Equipment Directive 2014/68/EU

Air and Dirt Separators conform to the requirements of Pressure Equipment Directive 2014/68/EU and are designed and manufactured according to Sound Engineering Practice (S.E.P.).

WARNING: To prevent scalding safe practice must be observed when venting or draining hot water at pressure.

Technical specification

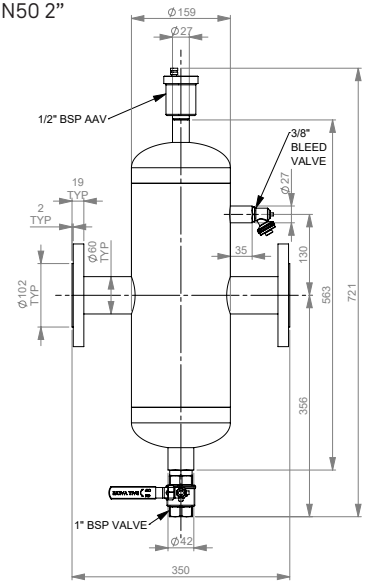
Air & Dirt Separator							
Product code	FL1-03-04295	FL1-03-04296	FL1-03-04297	FL1-03-04298	FL1-03-04299	FL1-03-04300	FL1-03-04301
Material specification							
Fittings	Carbon Steel PN16 Flanges						
Body	Carbon steel						
Valves	Brass						
Finish	Powder coated RAL5005						
Design specification							
Maximum working pressure	10Bar						
Maximum operating temperature	99°C						
Minimum operating temperature	0°C						
Weight (Kg)	20	21	35	38	63	79	103

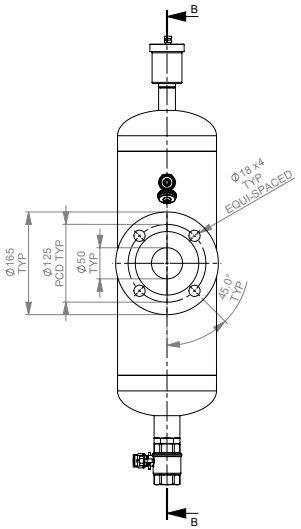
Air and Dirt Separator

Selection & sizing

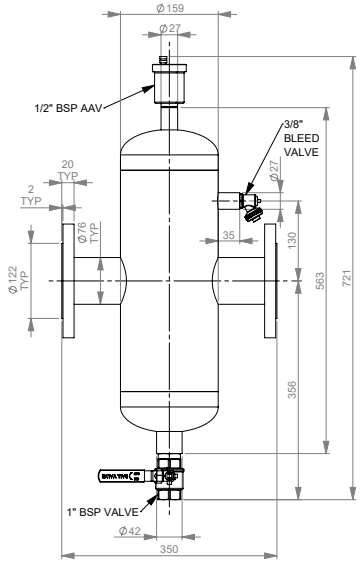
The selected *Air and Dirt Separator* should be in line size to enable efficient air and dirt removal, please ensure that the correct separator has been selected from the complete range offered:

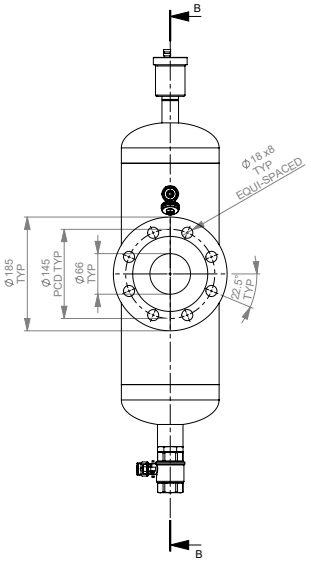
DN50 2”



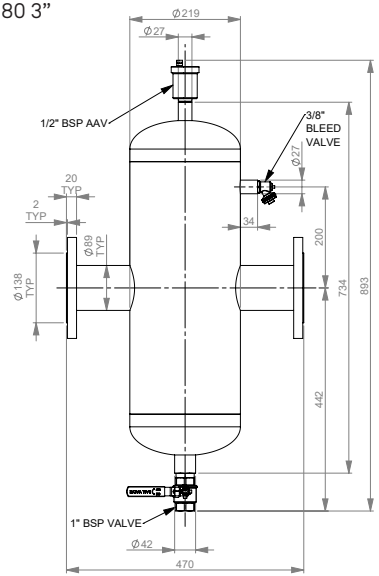


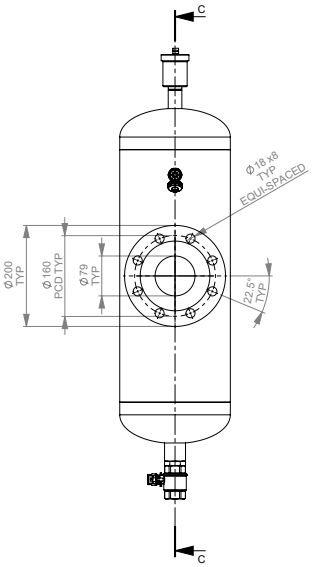
DN65 2.5”



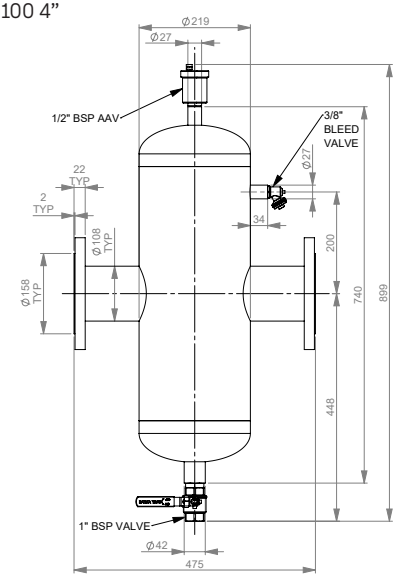


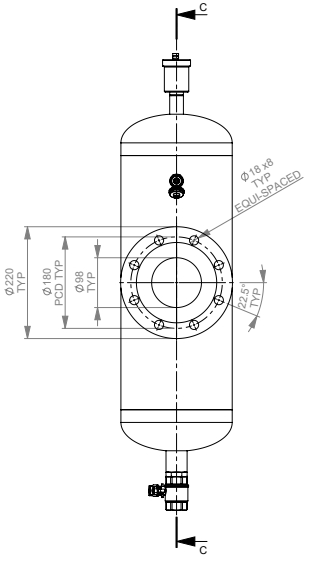
DN80 3”



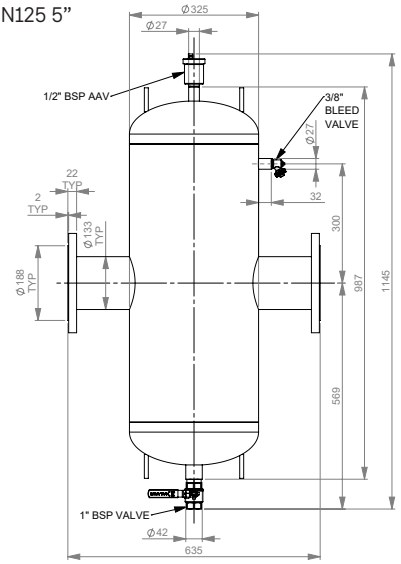


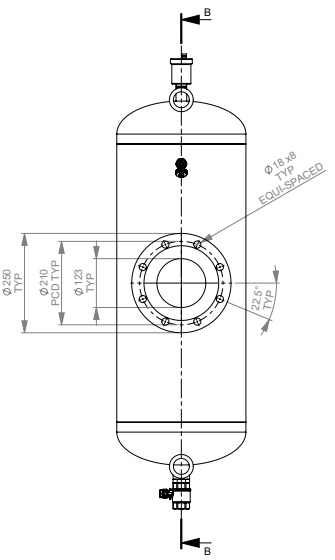
DN100 4”



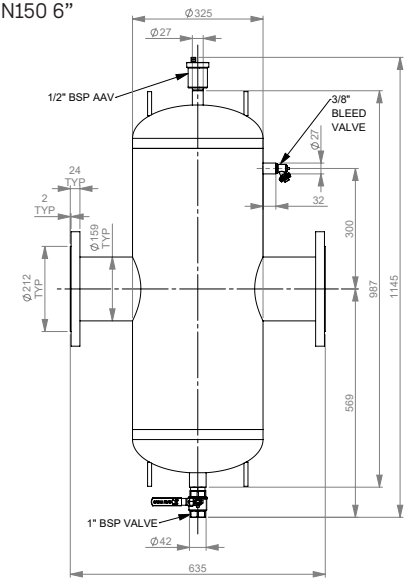


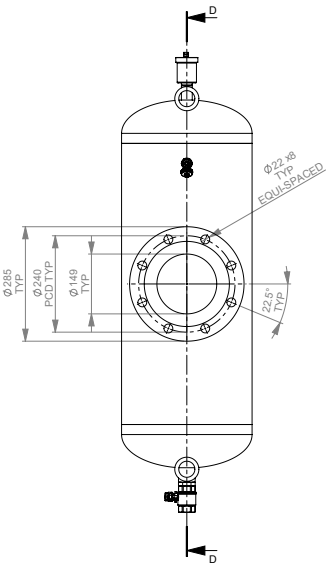
DN125 5”



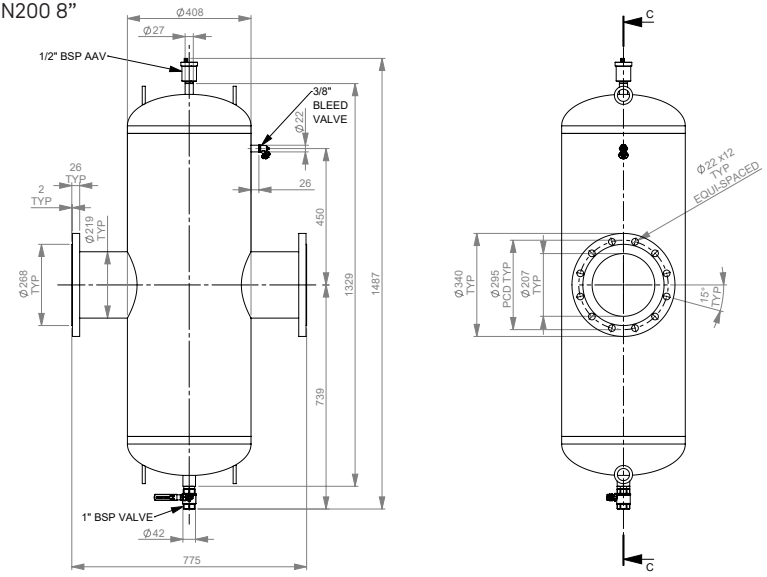


DN150 6”





DN200 8”



Product code	FL1-03-04295	FL1-03-04296	FL1-03-04297	FL1-03-04298	FL1-03-04299	FL1-03-04300	FL1-03-04301
Size	DN50/2"	DN65/2.5"	DN80/3"	DN100/4”	DN125/5"	DN150/6"	DN200/8"
Volume (L)	9	10	24	25	73	75	166
H (mm)	721	721	893	899	1145	1145	1487
W (mm)	350	350	470	475	635	635	775
Weight (Kg)	20	21	35	38	63	79	103

Installation and maintanence

IMPORTANT! Always read instructions

It is important that the *Air and Dirt Separator* is installed correctly and in a suitable location to allow for efficient filtration of micro air bubbles and dirt particles. This is achieved by fitting the separator to horizontal pipework where the highest temperature and lowest pressure are available.

Micro bubbles are released more efficiently from hot, circulating water. The higher the temperature the greater this effect.

At temperatures normally found within heating systems, a one metre drop in head pressure is equivalent to a rise in temperature of 4°C.

The direction of flow through the separator is optional.

General checks - Pre-install

1. Is the selected unit suitable for the in line size of the system?
2. Is there sufficient space to fit the selected unit?
3. Is there sufficient support in the installation area to take the weight of the unit?
4. Do you have facilities to drain the unit effectively?

Installation

To ensure efficient filtration of micro-bubbles and dirt particles, it is important that the unit is installed correctly.

1. Ensure that the drainage valve is closed before attempting installation.
2. Install on horizontal pipework, the direction of the flow is optional, ensuring that the automatic air vent at the top of the separator and the drainage valve is on the base.
3. Ensure that the separator is securely fixed and supported.
4. Flexible hose or fixed pipework should be fitted to the drainage valve to enable dirty water to be drained safely and conveniently.

Installation and maintanence

General checks - Post-install

1. Are the unit, valves or vents damaged or showing signs of corrosion?
2. Are there any leaks or signs of leaks?
3. Is the unit correctly attached to a drain, or are facilities for draining adequate?
4. Ensure the automatic air vent valve is open once the system is flowing through the separator.
5. Ensure the unit is isolated before opening the drain valve.

Operation

ISOLATE THE UNIT - Close all valves.

VENT THE UNIT – Open the air valve until air has been purged out. Close all opened valves.

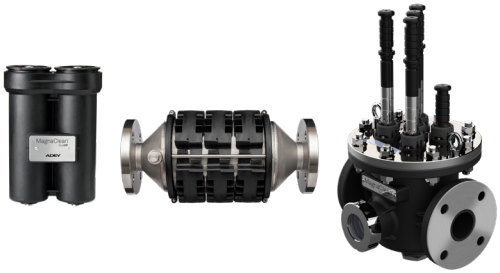
DRAIN THE UNIT – Open drain valve.

COMPLETE DRAINING – Close the drainage valve and reopen isolation valves.

Maintenance

1. The automatic air vent should be checked periodically to ensure that it is functioning correctly.
2. The separator should be flushed regularly to prevent sediment build up.
3. Dirt, sludge and solid particles should be removed by opening the drain valve on the base of the separator until the water runs clear.
4. After long term use the valves may require replacement, the separator should be checked annually for corrosion wear. 1mm corrosion allowance is provided for in the design. If corrosion is found to be greater than 1mm then the separator will need changing.

ADEY Commercial Products





MagnaClean® filters

Commercial heating system efficiency is critical and ADEY's range of commercial products delivers results. The proven *MagnaClean* technology effectively tackles black iron oxide sludge and system debris.

Due to the incredibly small particle size of black iron oxide, truly effective filtration can only be achieved by using a strong magnetic core as the primary filtration method. This process will work regardless of the size of particles passing through the heating system.

Chemical dosing pot

ADEY's range of Chemical Dosing Pots provide a safe and controlled method of introducing chemicals into sealed heating and cooling water systems whilst not interrupting a systems operation.

Commercial Water Testing

From sample drop-off, through refrigerated transport and professional, accredited laboratory analysis to delivering results to your inbox. Our industry leading water testing service provides a 'closed-loop' of reliability, convenience, accuracy and speed of response.

A full suite of chemical testing is available including metals, anions, solids, glycols and inhibitors.

A complete range of microbiological testing is also available including BSRIA, swimming pools, water hygiene and Legionella.

Award Winning Chemicals

ADEY's advanced chemical range has been created to provide a solution for the maintenance and protection of commercial heating systems. The *MC+* range has been specifically designed for use by professional installers as part of the Commercial Best Practice approach to heating system protection.





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adey.com

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A carbon neutral company

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