



Combined Air (Deaerator) & Dirt Separator.

- 1 High capacity auto air vent
- 2 3-Way Valve / Bleed Valve
- 3 Drain Valve



Dimensions (mm)									
Model No.	A	B	C	D	E	F	G	Tested to	
SS CVAD-50	50	430	300	170	25	380	680	21 bar	
SS CVAD-65	65	430	300	170	25	380	680	21 bar	
SS CVAD-80	80	490	360	220	25	440	800	21 bar	
SS CVAD-100	100	490	360	220	25	440	800	21 bar	
SS CVAD-125	125	630	470	325	25	550	1020	21 bar	
SS CVAD-150	150	630	470	325	25	550	1020	21 bar	
SS CVAD-200	200	810	625	410	50	625	1250	21 bar	
SS CVAD-250	250	880	775	510	50	775	1550	21 bar	
SS CVAD-300	300	1100	875	610	50	875	1750	21 bar	
SS CVAD-350	350	1500	950	770	50	950	1900	21 bar	
SS CVAD-400	400	1500	1125	770	50	1125	2250	21 bar	
SS CVAD-450	450	1750	1125	920	50	1125	225	21 bar	
SS CVAD-500	500	2000	1175	1220	50	1175	2350	21 bar	
SS CVAD-600	600	2000	1325	1220	50	1325	2650	21 bar	

Dearation

The word Dearation describes the removal of dissolved gases from liquids such as air from water. When water is heated or the pressure reduced gas microbubbles are released into the system. Microbubbles can be the cause of major problems such as pump failure, corrosion and energy loss.

The Solution

The stainless steel CleanVent combines the removal of air and dirt through a single unit. Installed at the hottest point in the system the stainless steel CleanVent will eliminate these micro bubbles from heating and chilled water systems.

Features and Benefits

- Greatly reduced commissioning times after initial fill.
- Longer system life (through air and dirt elimination)
- Low-pressure drop
- Bi-directional flow
- Maximum Temperature. 110 °c. Higher temperature units available on request.
- Tested to 21 bar
- All stainless steel construction.
- Air collects in the air chamber before being automatically vented
- Floating dirt can be removed by opening the valve situated under the air vent.
- The same valve is used for releasing air when filling the system
- Large collector ensures that flushing is only required now and then
- Can be flushed while fully operational (no need to shut down)
- An internal stainless steel concentrator to aid removal of air and dirt.
- Smooth surfaces with Stainless Steel lead to lower friction
- Stainless will not degrade in service thanks to its excellent resistance to corrosion.
- Stainless Steel is extensively more resistant to oxidation by water and biocides than carbon steel. Therefore Stainless Steels are not contributing to oxidation, sludge's etc;
- Thermal properties of stainless steel. They are far superior to iron or carbon steel.
- Maximum flow rate up to 3m/sec

Stainless Steel: Safe, Clean, Efficient and Hygienic

- Stainless is highly resistant against micro bacteria attacks plus lower bacteria colonization
- Hygienic and cleanable material (Smooth surface internally & externally). Due to their very high passive film (protecting the surface)
- Lower adhesion of deposits (dirt and sludge) with the smooth internals of Stainless Steels. Sludge & magnetite is washed/ removed from the collection chamber far easier than the inferior iron/ carbon steel
- Stability, Stainless Steel is basically inert in water. Leaching of alloying elements is within safe limits. As a result, they provide better quality water. No turbidity problems. All resulting in less bacterial slime, low energy consumption, low cleaning costs, good for conveying wet solids.
- Excellent durability and abrasion resistance, as Stainless Steels are resistant to crevice corrosion, cavitations and wear in pure and polluted waters as well as in atmosphere (even polluted), they are cost effective for long term use and do not cause environmental pollution.

CleanVent location

This combined unit (model ref SS CVAD) must be installed at the hottest part of the system (before the pumps). In a heating system this is the main flow from the boilers.

In a chilled water system the unit must be located in the return close to the chiller.

The static head must not exceed 60 metres in a Heating system.

Maximum static head must not exceed 40 metres in a chilled water system.

N.B. if the static head is greater than these figures the efficiency of the SS CleanVent & MagVent is reduced

Commissioning

The SS CleanVent requires no special commissioning. All units are fitted with a fast bleed valve, which should be used when initially filling the system. The same valve is used for draining off floating scum and also prevents the possibility of dirt clogging the air vent. Maintenance will be required to remove trapped dirt and sludge. Opening the ball valve at the bottom of the unit does this. The valve may be opened while the system is under pressure.

Scalding is a danger at high pressures and temperatures. Ensure that the water is safely piped to drain before opening the valve.

The system pressure will flush the dirt out. Leave the valve open until the collected dirt has been flushed out; repeat this operation every few days. Once the water is clear it may be possible to drain every 6 months or so depending on the

size and age of the system.
Most of the dissolved air will be removed in a few days. However this may vary from system to system .In large systems it may take several weeks.
Dirt separators can only remove dirt that is circulating.

Flanges

All flanges are drilled to BS4504 PN16 as standard. Other flange ratings are available on request.

The CleanVent unit is maintenance free

Drain valve

All models are supplied with a ball valve for draining the collected dirt and sludge.



Combined Air (Deaerator) & Dirt Separator. Demountable

- 1 High capacity auto air vent
- 2 Fast bleed Valve
- 3 Drain Valve



Model No.	Dimensions (mm)							Tested to
	A	B	C	D	E	F	G	
SS CVAD-R50	50	430	338	170	25	380	718	21 bar
SS CVAD-R65	65	430	338	170	25	380	718	21 bar
SS CVAD-R80	80	490	408	220	25	440	848	21 bar
SS CVAD-R100	100	490	408	220	25	440	848	21 bar
SS CVAD-R125	125	630	518	325	25	550	1068	21 bar
SS CVAD-R150	150	630	518	325	25	550	1068	21 bar
SS CVAD-R200	200	810	695	410	50	625	1320	21 bar
SS CVAD-R250	250	880	845	510	50	775	1620	21 bar
SS CVAD-R300	300	1100	945	610	50	875	1820	21 bar
SS CVAD-R350	350	1500	1020	770	50	950	1970	21 bar
SS CVAD-R400	400	1500	1195	770	50	1125	2320	21 bar
SS CVAD-R450	450	1750	1195	920	50	1125	2320	21 bar



Dearation

The word Dearation describes the removal of dissolved gases from liquids such as air from water. When water is heated or the pressure reduced gas microbubbles are released into the system. Microbubbles can be the cause of major problems such as pump failure, corrosion and energy loss.

The Solution

The Stainless Steel CleanVent combines the removal of air and dirt through a single unit. Installed at the hottest point in the system the CleanVent will eliminate these microbubbles from heating and chilled water systems.

Features and Benefits

- Greatly reduced commissioning times after initial fill.
- Longer system life (through air and dirt elimination)
- Low-pressure drop
- Bi-directional flow
- Maximum Temperature. 110 °c. Higher temperature units available on request.
- Tested to 21 bar
- All stainless steel vessel
- Air collects in the air chamber before being automatically vented
- Floating dirt can be removed by opening the valve situated under the air vent.
- The same valve is used for releasing air when filling the system
- Large collector ensures that flushing is only required now and then
- Can be flushed while fully operational (no need to shut down)
- An internal stainless steel concentrator to aid removal of air and dirt.
- Smooth surfaces with Stainless Steel lead to lower friction
- Stainless will not degrade in service thanks to its excellent resistance to corrosion.
- Stainless Steel is extensively more resistant to oxidation by water and biocides than carbon steel. Therefore Stainless Steels are not contributing to oxidation, sludge's etc.;
- Thermal properties of stainless steel. They are far superior to iron or carbon steel.
- Maximum flow rate up to 3m/sec

Stainless Steel: Safe, Clean, Efficient and Hygienic

- Stainless is highly resistant against micro bacteria attacks plus lower bacteria colonization
- Hygienic and cleanable material (Smooth surface internally & externally). Due to their very high passive film (protecting the surface)
- Lower adhesion of deposits (dirt and sludge) with the smooth internals of Stainless Steels. Sludge & magnetite is washed/ removed from the collection chamber far easier than the inferior iron/ carbon steel
- Stability, Stainless Steel is basically inert in water. Leaching of alloying elements is within safe limits. As a result, they provide better quality water. No turbidity problems. All resulting in less bacterial slime, low energy consumption, low cleaning costs, good for conveying wet solids.
- Excellent durability and abrasion resistance, as Stainless Steels are resistant to crevice corrosion, cavitations and wear in pure and polluted waters as well as in atmosphere (even polluted), they are cost effective for long term use and do not cause environmental pollution.

CleanVent location

This demountable combined unit (our model ref SS CVAD-R) must be installed at the hottest part of the system (before the pumps).

In a heating system this is the main flow from the boilers.

In a chilled water system the unit must be located in the return close to the chiller.

The static head must not exceed 60 metres in a Heating system.

Maximum static head must not exceed 40 metres in a chilled water system.

N.B. if the static head is greater than these figures the efficiency of the SS CleanVent & MagVent is reduced

Commissioning

The SS CleanVent requires no special commissioning. All units are fitted with a fast bleed valve, which should be used when initially filling the system. The same valve is used for draining off floating scum and also prevents the possibility of dirt clogging the air vent. Maintenance will be required to remove trapped dirt and sludge. Opening the ball valve at the bottom of the unit does this. The valve may be opened while the system is under pressure.

Scalding is a danger at high pressures and temperatures. Ensure that the water is safely piped to drain before opening the valve.

The system pressure will flush the dirt out. Leave the valve open until the collected dirt has been flushed out; repeat

this operation every few days. Once the water is clear it may be possible to drain every 6 months or so depending on the size and age of the system.

Most of the dissolved air will be removed in a few days. However this may vary from system to system .In large systems it may take several weeks.

Dirt separators can only remove dirt that is circulating

Flanges

All flanges are drilled to BS 4504 PN16 as standard.
The CleanVent unit is maintenance free.

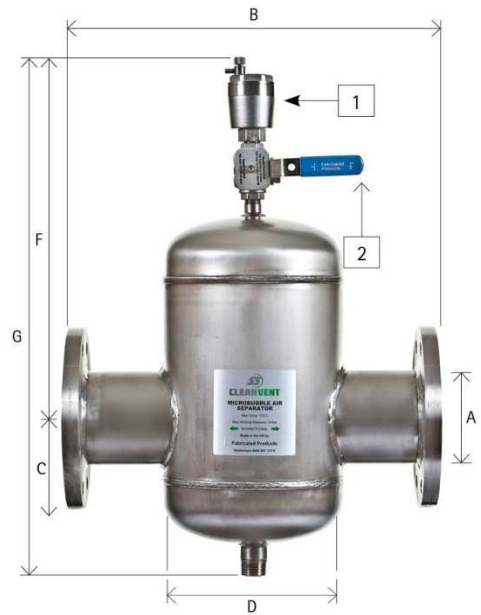
Drain valve

All models are supplied with a ball valve for draining the collected dirt and sludge.



An Air (Deaerator) Separator.

- 1 High capacity auto air vent
- 2 Fast bleed Valve



Model No.	Dimensions (mm)						Tested to
	A	B	C	D	F	G	
SS CVA-50	50	430	114	170	390	504	21 bar
SS CVA-65	65	430	120	170	384	504	21 bar
SS CVA-80	80	490	141	220	459	600	21 bar
SS CVA-100	100	490	154	220	446	600	21 bar
SS CVA-125	125	630	193	325	585	778	21 bar
SS CVA-150	150	630	207	325	571	778	21 bar
SS CVA-200	200	810	251	410	649	900	21 bar
SS CVA-250	250	880	303	510	835	1138	21 bar
SS CVA-300	300	1100	353	610	947	1300	21 bar
SS CVA-350	350	1500	406	770	1025	1431	21 bar
SS CVA-400	400	1500	432	770	1262	1694	21 bar
SS CVA-450	450	1750	495	920	1218	1713	21 bar
SS CVA-500	500	2000	595	1220	1230	1825	21 bar

The word Dearation describes the removal of dissolved gases from liquids such as air from water. When water is heated or the pressure reduced gas microbubbles are released into the system. Microbubbles can be the cause of major problems such as pump failure, corrosion and energy loss.

Features and Benefits

- Greatly reduced commissioning times after initial fill.
- Longer system life (through air elimination)
- Low-pressure drop
- Bi-directional flow
- Maximum Temperature. 110 °c. Higher temperature units available on request.
- Tested to 21 bar
- All stainless steel construction.
- Air collects in the air chamber before being automatically vented
- An internal stainless steel concentrator to aid removal of air
- Smooth surfaces with Stainless Steel lead to lower friction
- Stainless will not degrade in service thanks to its excellent resistance to corrosion.
- Stainless Steel is extensively more resistant to oxidation by water and biocides than carbon steel. Therefore Stainless Steels are not contributing to oxidation, sludge's etc;
- Thermal properties of stainless steel. They are far superior to iron or carbon steel.
- Maximum flow rate up to 3m/sec

The Solution

The stainless steel CleanVent combines the removal of air through a single unit. Installed at the hottest point in the system the stainless steel CleanVent will eliminate these micro bubbles from heating and chilled water systems.

Stainless Steel: Safe, Clean, Efficient and Hygienic

- Stainless is highly resistant against micro bacteria attacks plus lower bacteria colonization
- Hygienic and cleanable material (Smooth surface internally & externally). Due to their very high passive film (protecting the surface)
- Lower adhesion of deposits (dirt and sludge) with the smooth internals of Stainless Steels. Sludge & magnetite is washed/ removed from the collection chamber far easier than the inferior iron/ carbon steel
- Stability, Stainless Steel is basically inert in water. Leaching of alloying elements is within safe limits. As a result, they provide better quality water. No turbidity problems. All resulting in less bacterial slime, low energy consumption, low cleaning costs, good for conveying wet solids.
- Excellent durability and abrasion resistance, as Stainless Steels are resistant to crevice corrosion, cavitations and wear in pure and polluted waters as well as in atmosphere (even polluted), they are cost effective for long term use and do not cause environmental pollution.

CleanVent location

This unit (our model ref SS CVA) must be installed at the hottest part of the system (before the pumps). In a heating system this is the main flow from the boilers.

In a chilled water system the unit must be located in the return close to the chiller.

The static head must not exceed 60 metres in a Heating system.

Maximum static head must not exceed 40 metres in a chilled water system.

N.B. if the static head is greater than these figures the efficiency of the SS CleanVent & MagVent is reduced

Commissioning

The CleanVent requires no special commissioning. All units are fitted with a fast bleed valve, which should be used when initially filling the system. The same valve is used for draining off floating scum and also prevents the possibility of dirt clogging the air vent.

Most of the dissolved air will be removed in a few days. However this may vary from system to system, In large systems it may take several weeks.

Flanges

All flanges are drilled to BS4504 PN16 as standard. Other flange ratings are available on request.



Stainless Steel Dirt Separation
for the Heating & Ventilation
Industry.

- 3 Drain Valve
- 4 Bleed Valve



Model No.	Dimensions (mm)							Tested to
	A	B	C	D	E	F	G	
SS CVD-50	50	430	310	170	25	114	424	21 bar
SS CVD-65	65	430	304	170	25	120	424	21 bar
SS CVD-80	80	490	379	220	25	141	520	21 bar
SS CVD-100	100	490	366	220	25	154	520	21 bar
SS CVD-125	125	630	505	325	25	193	698	21 bar
SS CVD-150	150	630	491	325	25	207	698	21 bar
SS CVD-200	200	810	649	410	50	251	900	21 bar
SS CVD-250	250	880	835	510	50	303	1138	21 bar
SS CVD-300	300	1100	947	610	50	353	1300	21 bar
SS CVD-350	350	1500	1025	770	50	406	1431	21 bar
SS CVD-400	400	1500	1262	770	50	432	1694	21 bar
SS CVD-450	450	1750	1218	920	50	495	1713	21 bar
SS CVD-500	500	2000	1230	920	50	595	1825	21 bar



Dirt Removal

Sludge & dirt particles can be the cause of major problems such as pump failure, corrosion and energy loss in heating and chilled water systems.

The Solution

The Stainless Steel CleanVent model (SS CVD) removes dirt from water systems. Installed on the return pipe in the system the CleanVent will eliminate all types of dirt particles from heating and chilled water systems down to 5 micron.

Features and Benefits

- Greatly reduced commissioning times after initial fill
- Longer system life (dirt elimination)
- Low-pressure drop
- Bi-directional flow
- Maximum temperature 110 C. Higher temperature units available on request
- Tested to 21 bar
- All stainless steel vessel
- Large collector ensures the flushing is only required now and then
- Can be flushed while fully operational (no need to shut down)
- An internal stainless steel concentrator to aid removal of dirt
- Smooth surfaces with Stainless Steel lead to lower friction
- Stainless will not degrade in service thanks to its excellent resistance to corrosion
- Stainless Steel is extensively more resistant to oxidation by water and biocides than carbon steel. Therefore Stainless Steels are not contributing to oxidation, sludge's etc.
- Thermal properties of Stainless Steel. They are far superior to iron or carbon steel
- Maximum flow rate up to 3m/sec

Stainless Steel: Safe, Clean, Efficient and Hygienic

- Stainless is highly resistant against micro bacteria attacks plus lower bacteria colonization
- Hygienic and cleanable material (Smooth surface internally & externally). Due to their very high passive film (protecting the surface)
- Lower adhesion of deposits (dirt and sludge) with the smooth internals of Stainless Steels. Sludge & magnetite is washed/ removed from the collection chamber far easier

than the inferior iron/ carbon steel

- Stability, Stainless Steel is basically inert in water. Leaching of alloying elements is within safe limits. As a result, they provide better quality water. No turbidity problems. All resulting in less bacterial slime, low energy consumption, low cleaning costs, good for conveying wet solids.
- Excellent durability and abrasion resistance, as Stainless Steels are resistant to crevice corrosion, cavitations and wear in pure and polluted waters as well as in atmosphere (even polluted), they are cost effective for long term use and do not cause environmental pollution.

CleanVent location

This unit (SS CVD) must be installed at the return pipe work in the system (before the pumps).

Commissioning

The SS CleanVent requires no special commissioning.

Maintenance will be required to remove trapped dirt and sludge. Opening the ball valve at the bottom of the unit does this. The valve may be opened while the system is under pressure. Scalding is a danger at high pressure and temperatures. Ensure that the water is safely piped to drain before opening the valve.

The system pressure will flush the dirt out. Leave the valve open until the collected dirt has been flushed out; repeat this operation every few days. Once the water is clear it may be possible to drain every 6 months or so depending on the size and age of the system.

Dirt separators can only remove dirt that is circulating.

Flanges

All flanges are drilled to BS4504 PN16 as standard. Other flange ratings are available on request.

The CleanVent unit is maintenance free

Drain valve

All models are supplied with a ball valve for draining the collected dirt and sludge.



Stainless Steel Demountable Dirt Separation for the Heating & Ventilation Industry.

- 3 Drain Valve
- 4 Bleed Valve



Dimensions (mm)								
Model No.	A	B	C	D	E	F	G	Tested to
SS CVD-R50	50	430	348	170	25	114	462	21 bar
SS CVD-R65	65	430	342	170	25	120	462	21 bar
SS CVD-R80	80	490	427	220	25	141	568	21 bar
SS CVD-R100	100	490	414	220	25	154	568	21 bar
SS CVD-R125	125	630	553	325	25	193	746	21 bar
SS CVD-R150	150	630	539	325	25	207	746	21 bar
SS CVD-R200	200	810	719	410	50	251	970	21 bar
SS CVD-R250	250	880	905	510	50	303	1208	21 bar
SS CVD-R300	300	1100	1017	610	50	353	1370	21 bar
SS CVD-R350	350	1500	1095	770	50	406	1501	21 bar
SS CVD-R400	400	1500	1332	770	50	432	1764	21 bar
SS CVD-R450	450	1750	1288	920	50	495	1783	21 bar

Dirt Removal

Sludge & dirt particles can be the cause of major problems such as pump failure, corrosion and energy loss in heating and chilled water systems.

The Solution

The CleanVent model (SS CVD-R) removes dirt from water systems. Installed on the return pipe in the system the CleanVent (SS CVD-R) will eliminate all types of dirt particles from heating and chilled water systems down to 5 micron.

Features and Benefits

- Greatly reduced commissioning times after initial fill.
- Longer system life (dirt elimination)
- Low-pressure drop
- Bi-directional flow
- Maximum Temperature. 110 °c. Higher temperature units are available on request.
- Tested to 21 bar
- All stainless steel vessel
- Large collector ensures that flushing is only required now and then
- Can be flushed while fully operational (no need to shut down)
- An internal stainless steel concentrator to aid removal of dirt.
- Smooth surfaces with Stainless Steel lead to lower friction
- Stainless will not degrade in service thanks to its excellent resistance to corrosion.
- Stainless Steel is extensively more resistant to oxidation by water and biocides than carbon steel. Therefore Stainless Steels are not contributing to oxidation, sludge's etc;
- Thermal properties of stainless steel. They are far superior to iron or carbon steel.
- Maximum flow rate up to 3m/sec
- Two PN16 flanges are installed to aid removal of the internal filters

Stainless Steel: Safe, Clean, Efficient and Hygienic

- Stainless is highly resistant against micro bacteria attacks plus lower bacteria colonization
- Hygienic and cleanable material (Smooth surface internally & externally). Due to their very high passive film (protecting the surface)
- Lower adhesion of deposits (dirt and sludge) with the smooth internals of Stainless Steels. Sludge & magnetite is washed/ removed from the collection chamber far easier than the inferior iron/ carbon steel

- Stability, Stainless Steel is basically inert in water. Leaching of alloying elements is within safe limits. As a result, they provide better quality water. No turbidity problems. All resulting in less bacterial slime, low energy consumption, low cleaning costs, good for conveying wet solids.
- Excellent durability and abrasion resistance, as Stainless Steels are resistant to crevice corrosion, cavitations and wear in pure and polluted waters as well as in atmosphere (even polluted), they are cost effective for long term use and do not cause environmental pollution.

CleanVent location

This unit (our model ref SS CVD-R) must be installed at the return pipe work in the system (before the pumps)

Commissioning

The CleanVent requires no special commissioning.

Maintenance will be required to remove trapped dirt and sludge. Opening the ball valve at the bottom of the unit does this. The valve may be opened while the system is under pressure. Scalding is a danger at high pressures and temperatures. Ensure that the water is safely piped to drain before opening the valve.

The system pressure will flush the dirt out. Leave the valve open until the collected dirt has been flushed out; repeat this operation every few days. Once the water is clear it may be possible to drain every 6 months or so depending on the size and age of the system.

Dirt separators can only remove dirt that is circulating

Flanges

All flanges are drilled to BS 4504 PN16 as standard.

The CleanVent unit is maintenance free.

Drain valve

All models are supplied with a ball valve for draining the collected dirt and sludge.

Data Sheet 6 – Magnetic Microbubble air & dirt separator - SS MAGCVAD



Stainless Steel Air, Magnetite & Dirt Separation for the Heating & Ventilation Industry.

- 1 High capacity auto air vent
- 2 3-Way Valve / Bleed Valve
- 3 Drain Valve
- 4 Removable high gauss magnetic rod



Model No.	Dimensions (mm)							Tested to
	A	B	C	D	E	F	G	
SS MAGCVAD-50	50	430	300	170	25	380	680	21 bar
SS MAGCVAD-65	65	430	300	170	25	380	680	21 bar
SS MAGCVAD-80	80	490	360	220	25	440	800	21 bar
SS MAGCVAD-100	100	490	360	220	25	440	800	21 bar
SS MAGCVAD-125	125	630	470	325	25	550	1020	21 bar
SS MAGCVAD-150	150	630	470	325	25	550	1020	21 bar
SS MAGCVAD-200	200	810	625	410	50	625	1250	21 bar
SS MAGCVAD-250	250	880	775	50	50	775	1550	21 bar
SS MAGCVAD-300	300	1100	875	610	50	875	1750	21 bar
SS MAGCVAD-350	350	1500	950	770	50	950	1900	21 bar
SS MAGCVAD-400	400	1500	1125	770	50	1125	2250	21 bar
SS MAGCVAD-450	450	1750	1125	920	50	1125	2250	21 bar
SS MAGCVAD-500	500	2000	1175	1220	50	1175	2350	21 bar
SS MAGCVAD-600	600	2000	1325	1220	50	1325	2650	21 bar



MAGVENT

Dearation

The word Dearation describes the removal of dissolved gases from liquids such as air from water. When water is heated or the pressure reduced gas Microbubble are released into the system. Microbubbles can be the cause of major problems such as pump failure, corrosion and energy loss.

Dirt Removal

The MagVent is also used to remove dirt particles from heating and chilled water systems. Installed it will eliminate all dirt particles down to 5 microns and less

Features and Benefits

- High-gauss magnetic rod installed to remove all magnetite in the water system.
- Greatly reduced commissioning times after initial fill.
- Longer system life (through air and dirt elimination)
- Low-pressure drop
- Bi-directional flow
- Maximum Temperature. 110 °c. Higher temperature units available on request.
- Tested to 21 bar
- All stainless steel vessel
- Air collects in the air chamber before being automatically vented
- Floating dirt can be removed by opening the valve situated under the air vent.
- The same valve is used for releasing air when filling the system
- Large collector ensures that flushing is only required now and then
- Can be flushed while fully operational (no need to shut down)
- An internal stainless steel concentrator to aid removal of air and dirt.
- Smooth surfaces with Stainless Steel lead to lower friction
- Stainless will not degrade in service thanks to its excellent resistance to corrosion.
- Stainless Steel is extensively more resistant to oxidation by water and biocides than carbon steel. Therefore Stainless Steels are not contributing to oxidation, sludge's etc;
- Thermal properties of stainless steel. They are far superior to iron or carbon steel.

The Solution

As an aid to system cleaning you should specifically install Magnetic Filtering. The MagVent range has been developed by Fabricated Products (UK) to remove potentially damaging particles from both hot and chilled water systems. It is comprised of a very fine stainless-steel strainer capable of stopping debris down to 5 micron. Inside the body of our unit is also a high-gauss magnetic rod, these two elements combined together providing a very powerful cleaning device. As the water flows through the unit the magnetite is attracted to the magnetic rod and even the smallest particles down to 5 micron and less are collected. Through simple & cost effective maintenance the magnetic rod is then removed. All magnetite which flows through the unit will be removed 100%.



- Maximum flow rate up to 3m/sec

Stainless Steel: Safe, Clean, Efficient and Hygienic

- Stainless is highly resistant against micro bacteria attacks plus lower bacteria colonization
- Hygienic and cleanable material (Smooth surface internally & externally). Due to their very high passive film (protecting the surface)
- Lower adhesion of deposits (dirt and sludge) with the smooth internals of Stainless Steels. Sludge & magnetite is washed/ removed from the collection chamber far easier than the inferior iron/ carbon steel
- Stability, Stainless Steel is basically inert in water. Leaching of alloying elements is within safe limits. As a result, they provide better quality water. No turbidity problems. All resulting in less bacterial slime, low energy consumption, low cleaning costs, good for conveying wet solids.
- Excellent durability and abrasion resistance, as Stainless Steels are resistant to crevice corrosion, cavitations and wear in pure and polluted waters as well as in atmosphere (even polluted), they are cost effective for long term use and do not cause environmental pollution.

MagVent location

This combined unit (our model ref SS MAGCVAD) must be installed at the hottest part of the system (before the pumps).

In a heating system this is the main flow from the boilers.

In a chilled water system the unit must be located in the return close to the chillers.

The static head must not exceed 60 metres in a Heating system.

Maximum static head must not exceed 40 metres in a chilled water system.

N.B. if the static head is greater than these figures the efficiency of the SS CleanVent & MagVent is reduced

Commissioning

The SS MagVent requires no special commissioning. All units are fitted with a fast bleed valve, which should be used when initially filling the system.

The same valve is used for draining off floating “scum” and also prevents the possibility of dirt clogging the air vent.

Maintenance will be required to remove trapped dirt and sludge. Opening the ball valve at the bottom of the unit does this. The valve may be opened while the system is under pressure.



Maintenance- Removing & Cleaning the Magnetic Rod

Scalding is a danger at high pressures and temperatures.

Ensure that the water is safely piped to drain before opening the drain valve.

Turn off The Pumps

Open The Drain Valve

Unscrew and remove The Magnet

After approx 15-20 Seconds

Close the ball valve

Replace The Magnet

Turn back on the pumps

Flanges

All flanges are drilled to BS 4504 PN16 as standard.

Flushing the MagVent.

The system pressure will flush the dirt out. Leave the valve open until the collected dirt has been flushed out; repeat this operation every few days or weeks (depending on the state of the water). Once the water is clear it may be possible to drain every 6 months or so depending on the size and age of the system.

It is still very important to flush the dirt separator as part of the standard maintenance programme through the valve on the bottom of the unit.

If a combined unit is installed (Air & Dirt) most of the dissolved air will be removed in a few days. However this may vary from system to system. In large systems it may take several weeks.

Drain valve

All models are supplied with a ball valve for draining the collected dirt and sludge.



Stainless Steel Demountable Air, Magnetite & Dirt Separation for the Heating & Ventilation Industry



- 1 High capacity auto air vent
- 2 3-Way Valve / Bleed Valve
- 3 Drain Valve
- 4 Removable high gauss magnetic rod

Model No.	Dimensions (mm)							Tested to
	A	B	C	D	E	F	G	
SS MAGCVAD-R50	50	430	338	170	25	380	718	21 bar
SS MAGCVAD-R65	65	430	338	170	25	380	718	21 bar
SS MAGCVAD-R80	80	490	408	220	25	440	848	21 bar
SS MAGCVAD-R100	100	490	408	220	25	440	848	21 bar
SS MAGCVAD-R125	125	630	518	325	25	550	1068	21 bar
SS MAGCVAD-R150	150	630	518	325	25	550	1068	21 bar
SS MAGCVAD-R200	200	810	695	410	50	625	1320	21 bar
SS MAGCVAD-R250	250	880	845	510	50	775	1620	21 bar
SS MAGCVAD-R300	300	1100	945	610	50	875	1820	21 bar
SS MAGCVAD-R350	350	1500	1020	770	50	950	1970	21 bar
SS MAGCVAD-R400	400	1500	1195	770	50	1125	2320	21 bar
SS MAGCVAD-R450	450	1750	1195	920	50	1125	2320	21 bar



Dearation

The word Dearation describes the removal of dissolved gases from liquids such as air from water. When water is heated or the pressure reduced gas Microbubble are released into the system. Microbubbles can be the cause of major problems such as pump failure, corrosion, and energy loss.

Dirt Removal

The MagVent is also used to remove dirt particles from heating and chilled water systems. Installed it will eliminate all dirt particles down to 5 microns and less.

Features and Benefits

- High-gauss magnetic rod installed to remove all magnetite in the water system.
- Greatly reduced commissioning times after initial fill.
- Longer system life (through air and dirt elimination)
- Low-pressure drop
- Bi-directional flow
- Maximum Temperature. 110 °c. Higher temperature units available on request.
- Tested to 21 bar
- All stainless steel vessel
- Air collects in the air chamber before being automatically vented
- Floating dirt can be removed by opening the valve situated under the air vent.
- The same valve is used for releasing air when filling the system
- Large collector ensures that flushing is only required now and then
- Can be flushed while fully operational (no need to shut down)
- An internal stainless steel concentrator to aid removal of air and dirt.
- Smooth surfaces with Stainless Steel lead to lower friction
- Stainless will not degrade in service thanks to its excellent resistance to corrosion.
- Stainless Steel is extensively more resistant to oxidation by water and biocides than carbon steel. Therefore Stainless Steels are not contributing to oxidation, sludge's etc.;
- Thermal properties of stainless steel. They are far superior to iron or carbon steel.
- Maximum flow rate up to 3m/sec
- Two PN16 flanges are installed to aid removal of the internal filters

The Solution

As an aid to system cleaning you should specifically install Magnetic Filtering. The MagVent range has been developed by Fabricated Products (UK) to remove potentially damaging particles from both hot and chilled water systems. It is comprised of a very fine stainless-steel strainer capable of stopping debris down to 5 micron. Inside the body of our unit is also a high-gauss magnetic rod, these two elements combined together providing a very powerful cleaning device. As the water flows through the unit the magnetite is attracted to the magnetic rod and even the smallest particles down to 5 micron and less are collected. Through simple & cost effective maintenance the magnetic rod is then removed. All magnetite which flows through the unit will be removed 100%.



Stainless Steel: Safe, Clean, Efficient and Hygienic

- Stainless is highly resistant against micro bacteria attacks plus lower bacteria colonization
- Hygienic and cleanable material (Smooth surface internally & externally). Due to their very high passive film (protecting the surface)
- Lower adhesion of deposits (dirt and sludge) with the smooth internals of Stainless Steels. Sludge & magnetite is washed/ removed from the collection chamber far easier than the inferior iron/ carbon steel
- Stability, Stainless Steel is basically inert in water. Leaching of alloying elements is within safe limits. As a result, they provide better quality water. No turbidity problems. All resulting in less bacterial slime, low energy consumption, low cleaning costs, good for conveying wet solids.
- Excellent durability and abrasion resistance, as Stainless Steels are resistant to crevice corrosion, cavitations and wear in pure and polluted waters as well as in atmosphere (even polluted), they are cost effective for long term use and do not cause environmental pollution.

MagVent location

This combined unit (our model ref SS MAGCVAD-R) must be installed at the hottest part of the system (before the pumps).

In a heating system this is the main flow from the boilers.

In a chilled water system the unit must be located in the return close to the chiller.

The static head must not exceed 60 metres in a Heating system.

Maximum static head must not exceed 40 metres in a chilled water system.

N.B. if the static head is greater than these figures the efficiency of the SS CleanVent & MagVent is reduced

Commissioning

The MagVent requires no special commissioning. All units are fitted with a ½” 3 way valve, which should be used when initially filling the system. The same valve is used for draining off floating “scum” and also prevents the possibility of dirt clogging the air vent.

Maintenance will be required to remove trapped dirt and sludge. Opening the ball valve at the bottom of the unit does this. The valve may be opened while the system is under pressure.



Maintenance– Removing & Cleaning the Magnetic Rod

Scalding is a danger at high pressures and temperatures.

Ensure that the water is safely piped to drain before opening the drain valve.

Turn off The Pumps

Open The Drain Valve

Unscrew and remove The Magnet

After approx 15–20 Seconds

Close the ball valve

Replace The Magnet

Turn back on the pumps

Flanges

All flanges are drilled to BS 4504 PN16 as standard.

Flushing the MagVent.

The system pressure will flush the dirt out. Leave the valve open until the collected dirt has been flushed out; repeat this operation every few days or weeks (depending on the state of the water).

Once the water is clear it may be possible to drain every 6 months or so depending on the size and age of the system.

It is still very important to flush the dirt separator as part of the standard maintenance programme through the valve on the bottom of the unit.

If a combined unit is installed (Air & Dirt) most of the dissolved air will be removed in a few days. However this may vary from system to system. In large systems it may take several weeks..

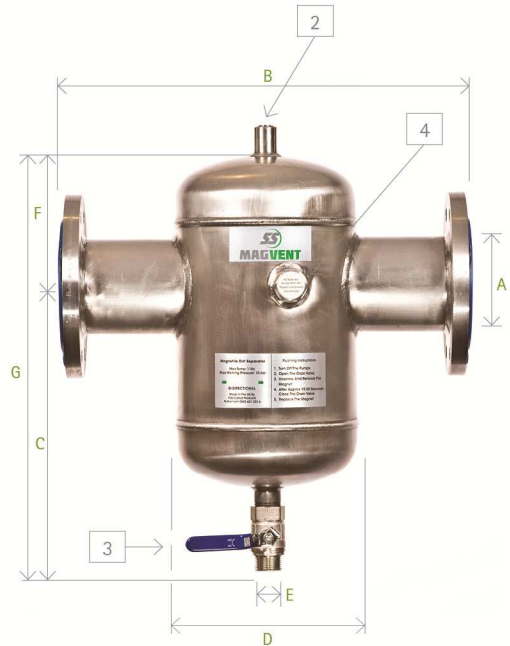
Drain valve

All models are supplied with a ball valve for draining the collected dirt and sludge.

Data Sheet 8 – Magnetic dirt separator - SS MAGCVD



Stainless Steel Magnetite & Dirt Separation for the Heating & Ventilation Industry.



- 2 Bleed Valve
- 3 Drain Valve
- 4 Removable high gauss magnetic rod

Dimensions (mm)								
Model No.	A	B	C	D	E	F	G	Tested to
SS MAGCVD-50	50	430	310	170	25	114	424	21 bar
SS MAGCVD-65	65	430	304	170	25	120	424	21 bar
SS MAGCVD-80	80	490	379	220	25	141	520	21 bar
SS MAGCVD-100	100	490	366	220	25	154	520	21 bar
SS MAGCVD-125	125	630	505	325	25	193	698	21 bar
SS MAGCVD-150	150	630	491	325	25	207	698	21 bar
SS MAGCVD-200	200	810	649	410	50	251	900	21 bar
SS MAGCVD-250	250	880	835	510	50	303	1138	21 bar
SS MAGCVD-300	300	1100	947	610	50	353	1300	21 bar
SS MAGCVD-350	350	1500	1025	770	50	406	1431	21 bar
SS MAGCVD-400	400	1500	1262	770	50	432	694	21 bar
SS MAGCVD-450	450	1750	1218	920	50	495	1713	21 bar



Dirt Removal

The MagVent is also used to remove dirt particles from heating and chilled water systems. Installed it will eliminate all dirt particles down to 5 microns and less.

The Solution

As an aid to system cleaning you should specifically install Magnetic Filtering. The MagVent range has been developed by Fabricated Products (UK) to remove potentially damaging particles from both hot and chilled water systems. It is comprised of a very fine stainless-steel strainer capable of stopping debris down to 5 micron. Inside the body of our unit is also a high-gauss magnetic rod, these two elements combined together providing a very powerful cleaning device. As the water flows through the unit the magnetite is attracted to the magnetic rod and even the smallest particles down to 5 micron and less are collected. Through simple & cost effective maintenance the magnetic rod is then removed. All magnetite which flows through the unit will be removed 100%.

Features and Benefits

- High-gauss magnetic rod installed to remove all magnetite in the water system.
- Greatly reduced commissioning times after initial fill.
- Longer system life (through dirt elimination)
- Low-pressure drop
- Bi-directional flow
- Maximum Temperature. 110 °c. Higher temperature units available on request.
- Tested to 21 bar
- All stainless steel vessel
- Large collector ensures that flushing is only required now and then
- Can be flushed while fully operational (no need to shut down)
- An internal stainless steel concentrator to aid removal of air and dirt.
- Smooth surfaces with Stainless Steel lead to lower friction
- Stainless will not degrade in service thanks to its excellent resistance to corrosion.
- Stainless Steel is extensively more resistant to oxidation by water and biocides than carbon steel. Therefore Stainless Steels are not contributing to oxidation, sludge's etc.;
- Thermal properties of stainless steel. They are far superior to iron or carbon steel.
- Maximum flow rate up to 3m/sec



Stainless Steel: Safe, Clean, Efficient and Hygienic

- Stainless is highly resistant against micro bacteria attacks plus lower bacteria colonization
- Hygienic and cleanable material (Smooth surface internally & externally). Due to their very high passive film (protecting the surface)
- Lower adhesion of deposits (dirt and sludge) with the smooth internals of Stainless Steels. Sludge & magnetite is washed/ removed from the collection chamber far easier than the inferior iron/ carbon steel
- Stability, Stainless Steel is basically inert in water. Leaching of alloying elements is within safe limits. As a result, they provide better quality water. No turbidity problems. All resulting in less bacterial slime, low energy consumption, low cleaning costs, good for conveying wet solids.
- Excellent durability and abrasion resistance, as Stainless Steels are resistant to crevice corrosion, cavitations and wear in pure and polluted waters as well as in atmosphere (even polluted), they are cost effective for long term use and do not cause environmental pollution.

MagVent location

This unit (our model ref SS MAGCVD) should be installed in the return pipe work before the flow of water enters any plant (boilers, pumps, etc.). There is no head restriction on this unit.

Commissioning

The MagVent requires no special commissioning. All units are fitted with a 3 way valve, which should be used when initially filling the system. The same valve is used for draining off floating “scum” and also prevents the possibility of dirt clogging the air vent.

Maintenance will be required to remove trapped dirt and sludge. Opening the ball valve at the bottom of the unit does this. The valve may be opened while the system is under pressure.



Maintenance– Removing & Cleaning the Magnetic Rod

Scalding is a danger at high pressures and temperatures.

Ensure that the water is safely piped to drain before opening the drain valve.

Turn off The Pumps

Open The Drain Valve

Unscrew and remove The Magnet

After approx 15–20 Seconds

Close the ball valve

Replace The Magnet

Turn back on the pumps

Flushing the SS MagVent.

The system pressure will flush the dirt out. Leave the valve open until the collected dirt has been flushed out; repeat this operation every few days or weeks (depending on the state of the water). Once the water is clear it may be possible to drain every 6 months or so depending on the size and age of the system.

It is still very important to flush the dirt separator as part of the standard maintenance programme through the valve on the bottom of the unit.

If a combined unit is installed (Air & Dirt) most of the dissolved air will be removed in a few days. However this may vary from system to system. In large systems it may take several weeks.

Flanges

All flanges are drilled to BS 4504 PN16 as standard.

Drain valve

All models are supplied with a ball valve for draining the collected dirt and sludge.

Data Sheet 9- Magnetic dirt separator with removable base - SS MAGCVD-R



Stainless Steel Demountable
Magnetite & Dirt Separation for
the Heating & Ventilation
Industry.

- 2 Bleed Valve
- 3 Drain Valve
- 4 Removable high gauss magnetic rod



Model No.	Dimensions (mm)							Tested to
	A	B	C	D	E	F	G	
SS MAGCVD-R50	50	430	348	170	25	114	462	21 bar
SS MAGCVD-R65	65	430	342	170	25	120	462	21 bar
SS MAGCVD-R80	80	490	427	220	25	141	568	21 bar
SS MAGCVD-R100	100	490	414	220	25	154	568	21 bar
SS MAGCVD-R125	125	630	553	325	25	193	746	21 bar
SS MAGCVD-R150	150	630	539	325	25	207	746	21 bar
SS MAGCVD-R200	200	810	719	410	50	251	970	21 bar
SS MAGCVD-R250	250	880	905	510	50	303	1208	21 bar
SS MAGCVD-R300	300	1100	1017	610	50	353	1370	21 bar
SS MAGCVD-R350	350	1500	1095	770	50	406	1501	21 bar
SS MAGCVD-R400	400	1500	1332	770	50	432	1764	21 bar
SS MAGCVD-R450	450	1750	1288	920	50	495	1783	21 bar



Dirt Removal

The MagVent is also used to remove dirt particles from heating and chilled water systems. Installed it will eliminate all dirt particles down to 5 microns and less.

The Solution

As an aid to system cleaning you should specifically install Magnetic Filtering. The SS MagVent range has been developed by Fabricated Products (UK) to remove potentially damaging particles from both hot and chilled water systems. It is comprised of a very fine stainless-steel strainer capable of stopping debris down to 5 micron. Inside the body of our unit is also a high-gauss magnetic rod, these two elements combined together providing a very powerful cleaning device. As the water flows through the unit the magnetite is attracted to the magnetic rod and even the smallest particles down to 5 micron and less are collected. Through simple & cost effective maintenance the magnetic rod is then removed. All magnetite which flows through the unit will be removed 100%.

Features and Benefits

- High-gauss magnetic rod installed to remove all magnetite in the water system.
- Greatly reduced commissioning times after initial fill.
- Longer system life (through dirt elimination)
- Low-pressure drop
- Bi-directional flow
- Maximum Temperature. 110 °c. Higher temperature units available on request.
- Tested to 21 bar
- All stainless steel vessel
- Large collector ensures that flushing is only required now and then
- Can be flushed while fully operational (no need to shut down)
- An internal stainless steel concentrator to aid removal dirt.
- Smooth surfaces with Stainless Steel lead to lower friction
- Stainless will not degrade in service thanks to its excellent resistance to corrosion.
- Stainless Steel is extensively more resistant to oxidation by water and biocides than carbon steel. Therefore Stainless Steels are not contributing to oxidation, sludge's etc.;
- Thermal properties of stainless steel. They are far superior to iron or carbon steel.
- Maximum flow rate up to 3m/sec



- Two PN16 flanges are installed to aid removal of the internal filters

Stainless Steel: Safe, Clean, Efficient and Hygienic

- Stainless is highly resistant against micro bacteria attacks plus lower bacteria colonization
- Hygienic and cleanable material (Smooth surface internally & externally). Due to their very high passive film (protecting the surface)
- Lower adhesion of deposits (dirt and sludge) with the smooth internals of Stainless Steels. Sludge & magnetite is washed/ removed from the collection chamber far easier than the inferior iron/ carbon steel
- Stability, Stainless Steel is basically inert in water. Leaching of alloying elements is within safe limits. As a result, they provide better quality water. No turbidity problems. All resulting in less bacterial slime, low energy consumption, low cleaning costs, good for conveying wet solids.
- Excellent durability and abrasion resistance, as Stainless Steels are resistant to crevice corrosion, cavitations and wear in pure and polluted waters as well as in atmosphere (even polluted), they are cost effective for long term use and do not cause environmental pollution.

MagVent location

This unit (our model ref SS MAGCVD-R) should be installed in the return pipe work before the flow of water enters any plant (boilers, pumps, etc.). There is no head restriction on this unit.

Commissioning

The MagVent requires no special commissioning. All units are fitted with a fast bleed valve, which should be used when initially filling the system.

The same valve is used for draining off floating “scum” and also prevents the possibility of dirt clogging the air vent.

Maintenance will be required to remove trapped dirt and sludge. Opening the ball valve at the bottom of the unit does this. The valve may be opened while the system is under pressure.



Maintenance– Removing & Cleaning the Magnetic Rod

Scalding is a danger at high pressures and temperatures.

Ensure that the water is safely piped to drain before opening the drain valve.

Turn off The Pumps

Open The Drain Valve

Unscrew and remove The Magnet

After approx 15–20 Seconds

Close the ball valve

Replace The Magnet

Turn back on the pumps

Flushing the SS MagVent.

The system pressure will flush the dirt out. Leave the valve open until the collected dirt has been flushed out; repeat this operation every few days or weeks (depending on the state of the water). Once the water is clear it may be possible to drain every 6 months or so depending on the size and age of the system. It is still very important to flush the dirt separator as part of the standard maintenance programme through the valve on the bottom of the unit.

If a combined unit is installed (Air & Dirt) most of the dissolved air will be removed in a few days. However this may vary from system to system. In large systems it may take several weeks.

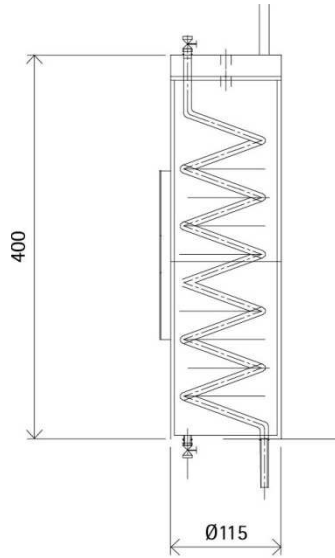
Flanges

All flanges are drilled to BS 4504 PN16 as standard.

Drain valve

All models are supplied with a ball valve for draining the collected dirt and sludge.

Water Sample Coolers



Fixed Water Sample Cooler



Introduction

If there is a requirement to sample hot or boiling waters, the installation of sample coolers is essential for the following reasons.

Safety

To ensure compliance with health and safety regulations. The health and safety act 1974 requires employers to provide a safe method of sampling water in boiler plants.

Accuracy

A significant portion of any heated water sample will be lost to atmosphere as steam flashes off which means that the resultant sample will not be representative.

Water Sample Coolers

Convenience

Opening of drain plugs or loosening of pipe can be extremely difficult regardless of the safety hazard.

One version is available with a stainless coil. This is a fixed coil.

Application

Sample coolers should be installed whenever it is necessary to obtain a sample of water from a system where the operating temperature exceeds 60 degrees C i.e. steam boilers, steam and condensate mains.

Closed heating circuits, and water systems.

Installation

The sample cooler should be installed as close as possible to the system take off point at a height to facilitate convenient operation; the unit must be mounted vertical.

An isolating valve capable of withstanding the full system pressure should be installed immediately to the take off point.

The cooling water should be taken to a suitable drain through a tundish.

Operation

- Open the cold-water inlet valve fully and ensure cooling water is flowing to drain.
- Open the sample-regulating valve slowly until system water starts to flow, then allow sample to run to waste for a suitable period to purge the stagnant water in the sample line.
- Regulate the sample flow until a stable temperature of 15 degrees C then collect sufficient volume of water in a suitable container
- When sample has been acquired close the regulating valve then the cold-water inlet valve.

Water Sample Coolers

Specification

- Stainless Steel Shell
- Welded to BS EN 287
- Fixed stainless coil 10mm diameter
- Suitable for pressures up to and including 139 bar @ 336 degrees C.
- Max. Working pressure for the shell 14 bar
- Coolant inlet and outlet 1/2" b.s.p.
- Sample flow controlled by a 3/8" (10mm) valve.
- Cooling water by a 1/2" valve
(No valves are supplied by Fabricated Products)



Size in Litres	Product Code	A	B	C	D	Max working pressure	Tested to
3.5	DP 3.5	265	275	730	165	14 bar	21 bar
5	DP 5	265	355	810	165	14 bar	21 bar
6	DP 6	265	395	860	165	14 bar	21 bar
10	DP 10	320	395	865	220	10 bar	21 bar
11	DP 11	320	395	865	220	10 bar	21 bar
13.5	DP 13.5	320	490	920	220	10 bar	21 bar
15	DP 15	320	570	1022	220	10 bar	21 bar
16	DP 16	320	570	1022	220	10 bar	21 bar
18	DP 18	320	685	1142	220	10 bar	21 bar
20	DP 20	320	685	1142	220	10 bar	21 bar
25	DP 25	377	585	1040	275	8 bar	21 bar

Dosing pots are required in order to feed liquid chemicals such as corrosion inhibitors into closed systems.

The dosing pots consist of a stainless steel vessel with inlet (return) and outlet (flow) valves, a drain valve and a filling valve.

A stainless steel tundish, air release valve, wall mounting brackets and a non-return valve.

Installation

It is important that the dosing pots are fitted correctly in to the system to allow rapid chemical feed. This is best achieved by connecting across the main flow and return pipe work. Ideally the flow connection should be made on to the bottom of the dosing pot (valve C), and the return the top (valve B).

The dosing pot is designed for the conditions stated on the name plate, the system into which the dosing pot is installed should have adequate protection to ensure the dosing pot is operated within these limits at all times.

Operation

- Isolate pot: close all valves
- Drain pot: open valves A and D
- Charge pot: close valve D and introduce solution via valve A (tundish)
- Expel air: open air vent until solution appears
- Inject treatment: close valve A fully and open valves B and C.
- The dosing pot may reach temperatures up to 120 degrees centigrade.
- Protection or warnings should be applied to ensure that personnel do not come into contact with the pot so as to avoid burns.
- A check valve is installed to prevent accidental scolding and chemical saturation (blow back) of personnel operating the dosing pot.



Maintenance

After long-term use the valves may require replacement. No corrosion is allowed for due to the stainless steel construction.

CDM (ACOP L54) Q.P NO. 41/1-02

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Specification

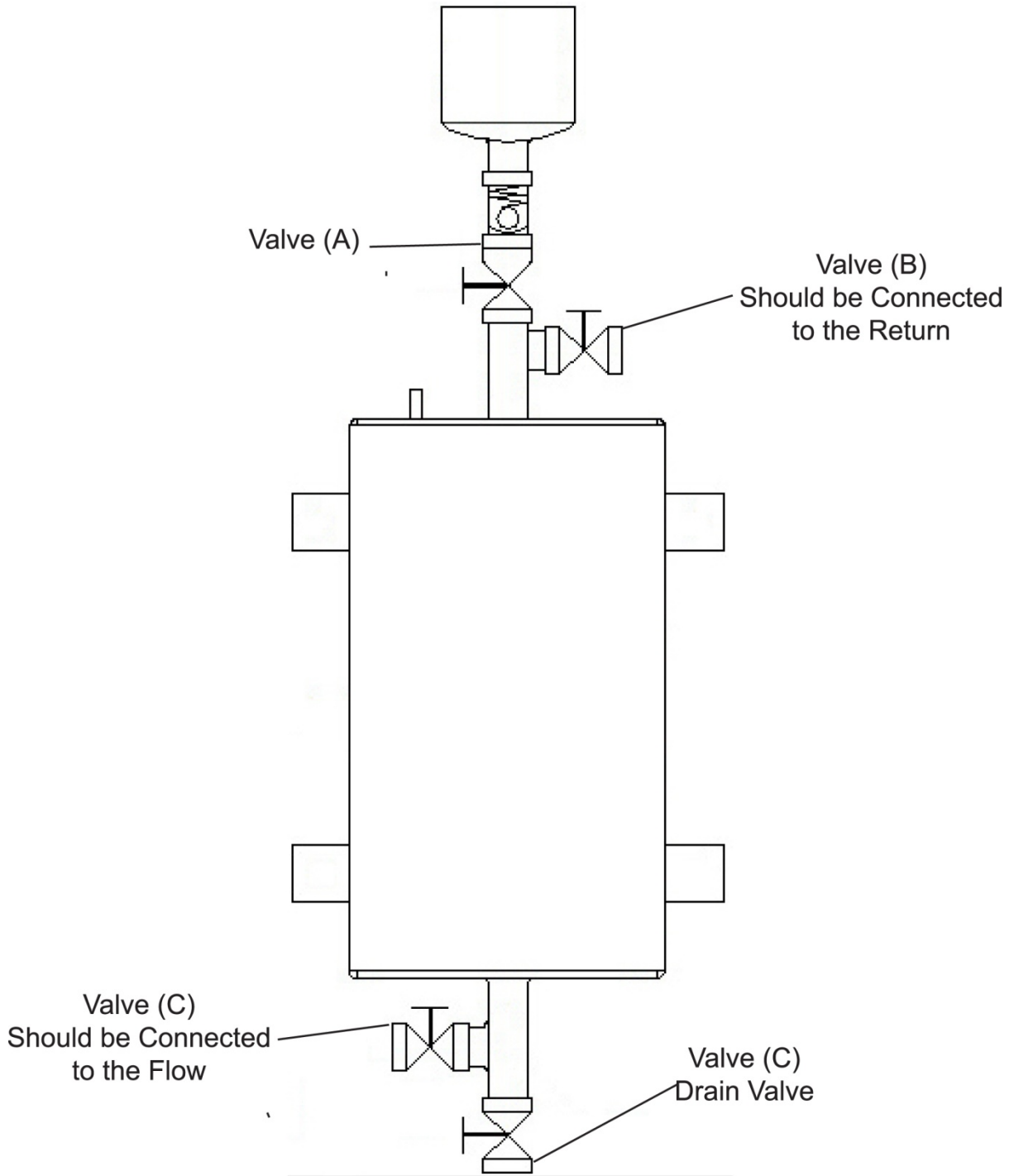
- Stainless Steel Shell
- Valve size 25mm BSP female for all dosing pots
- Welded to BS EN 287
- All dosing pots that are designed to PD 5500:2009 category 3 (C E marked) have the following Max. Working pressures:
 - 14 bar-3.5 litres to 6 litres inclusive
 - 10 bar- 10 litre to 20 litres inclusive
 - 8 bar-25 litres
- Dosing pots that are not designed to the above are available which have maximum working pressure of 14 bar throughout the range (3.5 litre to 25 litre).
- Matt Stainless Steel finish

Heating (and) or Cooling System Dosing Pot

Notes to building owners and operators

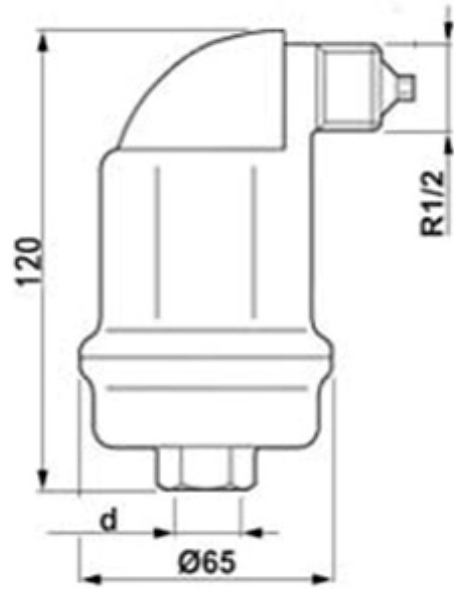
- The heating (or cooling) system in this building has a chemical dosing pot installed.
- This appliance is by way of manually injecting chemicals into the system.
- Post hand over risks.
- Ensuring the drain valve is closed prior to filling with chemicals.
- Records of commissioning.
- Operation and Maintenance Hazards are attached.
- Planned Maintenance
- Turn handles on valves once a year
- Visually inspect for corrosion
- Operation and Maintenance labour resources.
- Only use suitably qualified persons who have read the operating and maintenance instructions.
- Mothballing the plant and start-up afterwards.
- Drain the dosing pot, open the drain valve and close all other valves.
- Start up, flush with clean water.
- Hazardous information
- The awareness of the chemicals used in dosing the appliance

Connecting the Dosing Pot to the System





Stainless Steel Automatic Air Vent that removes trapped air from heating or chilled water systems.



Design Data

Max. Pressure	10 bar-g
Max. Temperature	110 °C
Design Standards	Factory Standards
Net Weight	0.75kg

Material

Body	Stainless Steel Air
Vent	Stainless Steel
Seal	EPDM
Rubber Float	PE

Test

Leakage Test	Yes
Appearance Test	Yes
Factory Air Test	Yes
Factory Water Test	Yes
Factory Test Certificate	Yes

Size

d	1/2" BSP
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Introduction

To remove trapped air you should fit a MicroVent at the highest points of the heating or chilled water systems.

Air collect's at the highest point within a system. However, a system will often have several high points. Trapped air can obstruct the flow of water at these points or even stop it altogether. If air is not removed, it can lead to commissioning problems, frequent manual venting also deteriorating pump performance and boiler efficiency. Eventually, this will cause damage to expensive system components and lead to system and process malfunctions or even total failure.

MicroVent automatic air vents are designed to remove free air and trapped air bubbles quickly and effectively. If a system has to be drained, the

MicroVent ensures fast and reliable venting.

The Solution

The MicroVent is the reliable and worry-free solution ideal for:

- Filling and venting systems;
- Making and keeping the high points in pipe systems air-free;
- Preventing air pockets from forming.

Benefits

Benefits of MicroVent the combination of the characteristics listed below ensures that the automatic MicroVent will not leak during its very long life:

- The exceptional valve construction means that the valve closes completely.
- The unique valve seat has a very long life expectancy.
- The robust floats are made of solid plastic so cannot rupture.
- The significant gap between the valve and the water (at least 40mm) prevents valve contamination which is one of the main causes of leaks.
- The ½" connection prevents the pipette effect.
- At the base of the MicroVent there is a wire mesh to stop debris from entering the unit

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Installation Instructions

1. Locate the Easy Treat on level ground close to the flow and return pipework
2. Connect the top pipe to the flow including an isolating valve
3. Connect the bottom pipe to the return including an isolating valve and drain point.
4. A 1/2" socket is provided on top of the Easy Treat. An auto air vent should be installed here.
5. Secure the unit to the floor using suitable fixing
6. Leave at least 500mm clearance above the top lid for Quick Sticks to be added.



To chemically treat the water system follow the instructions below:-

1. Turn off the Flow and Return isolation valves.
2. Drain the unit
3. Unscrew the domed nuts on top of the Easy Treat Chemical dosing pot
4. Remove the lid
5. Place inside the internal basket/strainer the correct amount Quick Sticks**
6. Refit the blank flange & gasket on the top of the Easy Treat Chemical dosing pot
7. Tighten the domed nuts
8. Open the bottom valve first
9. Then open the top valve
10. The quick sticks will now dissolve in the water system

- Max pressure: 16 bar
- Max Temperature: 200 degrees Centigrade
- Size of Pot:

**** To find out how many Quick Sticks you need for your system contact Fabricated Products UK**

N.B. no valves, pipefitting's or Auto air vents will be supplied with this vessel



EASYTREAT

FABRICATED PRODUCTS

Technical Data

Product		EasyTreat 10	EasyTreat 20
Product code		ET10	ET20
Centre bottom connection to floor	A	175	175
Centre to centre connections	B	428	628
Space for chemical addition	C	500	500
Diameter of main body	D	220	220
O.D. of base plate	E	320	320
Stainless filter diameter	F	160	160
Length 1" weld Nipple	G	50	50
Overall Height	H	713	913
1/2" Socket	I	1/2" Socket	1/2" Socket
1" bsp male thread	J	1" bsp male thread	1" bsp male thread
Weight (kg)		25	28
Volume (ltr)		15	25

