

# CLEANVENT

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

- 1 Bleed Valve
- 2 Drain Valve



Model No.	Dimensions (mm)								Tested to
	A	B	C	D	E	F	G		
<b>CVD-R50</b>	50	430	348	170	25	114	462	21 bar	
<b>CVD-R65</b>	65	430	342	170	25	120	462	21 bar	
<b>CVD-R80</b>	80	490	427	220	25	141	568	21 bar	
<b>CVD-R100</b>	100	490	414	220	25	154	568	21 bar	
<b>CVD-R125</b>	125	630	553	325	25	193	746	21 bar	
<b>CVD-R150</b>	150	630	539	325	25	207	746	21 bar	
<b>CVD-R200</b>	200	810	655	410	50	290	945	21 bar	
<b>CVD-R250</b>	250	880	905	510	50	303	1208	21 bar	
<b>CVD-R300</b>	300	1100	1017	610	50	353	1370	21 bar	
<b>CVD-R350</b>	350	1500	1095	770	50	406	1501	21 bar	
<b>CVD-R400</b>	400	1500	1332	770	50	432	1764	21 bar	
<b>CVD-R450</b>	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 (CVD-R) removes dirt from water systems. Installed on the return pipe in the system the CleanVent (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.
- Max working pressure - 10 bar (Higher MWP 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 velocity 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

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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

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

## Commissioning

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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

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All flanges are drilled to BS 4504 PN16 as standard.

The CleanVent unit is maintenance free.

## Drain valve

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