



Fabricated Products (UK) Ltd

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DIRT SEPARATORS (demountable)

THE CleanVent (CVD-R) Standard

Standard Unit for flow rates up to 1.5m/s. For high flow see our CVD-R-HF

A dirt free water system

Problems arising with dirt in water systems

Dirt Removal

Sludge & dirt particles can be the cause of major problems such as pump failure, corrosion and energy loss in Heating & Chilled Water Systems.

The Solution

The CleanVent modle (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

- * Greatly reduced commissioning times after initial fill.
- * Longer system life (through dirt elimination)
- * Low-pressure drop
- * Bi-directional flow
- * Tested to 21 bar
- * Standard carbon steel shell (stainless on request)
- * 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.
- * Maximum flow rate 1.5m/sec. Higher flow rates upto 3m/sec require our Hi-Flow unit CVD-R-HF

CleanVent Location

This unit (our model ref CVD-R) must be installed at the return pipework 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. Plain ends and other flange rating 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.





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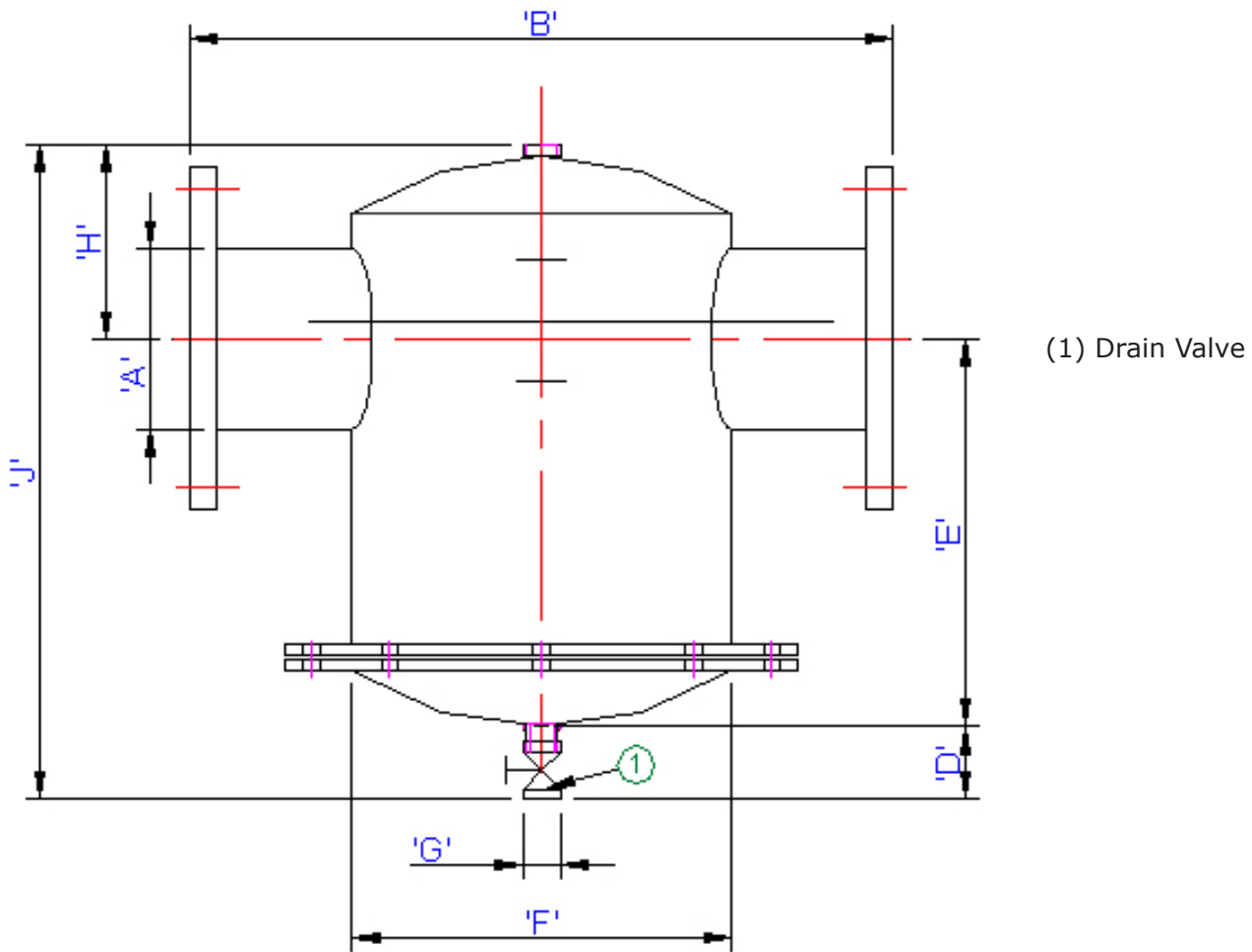
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CleanVent Dirt Separator (demountable) CVD-R



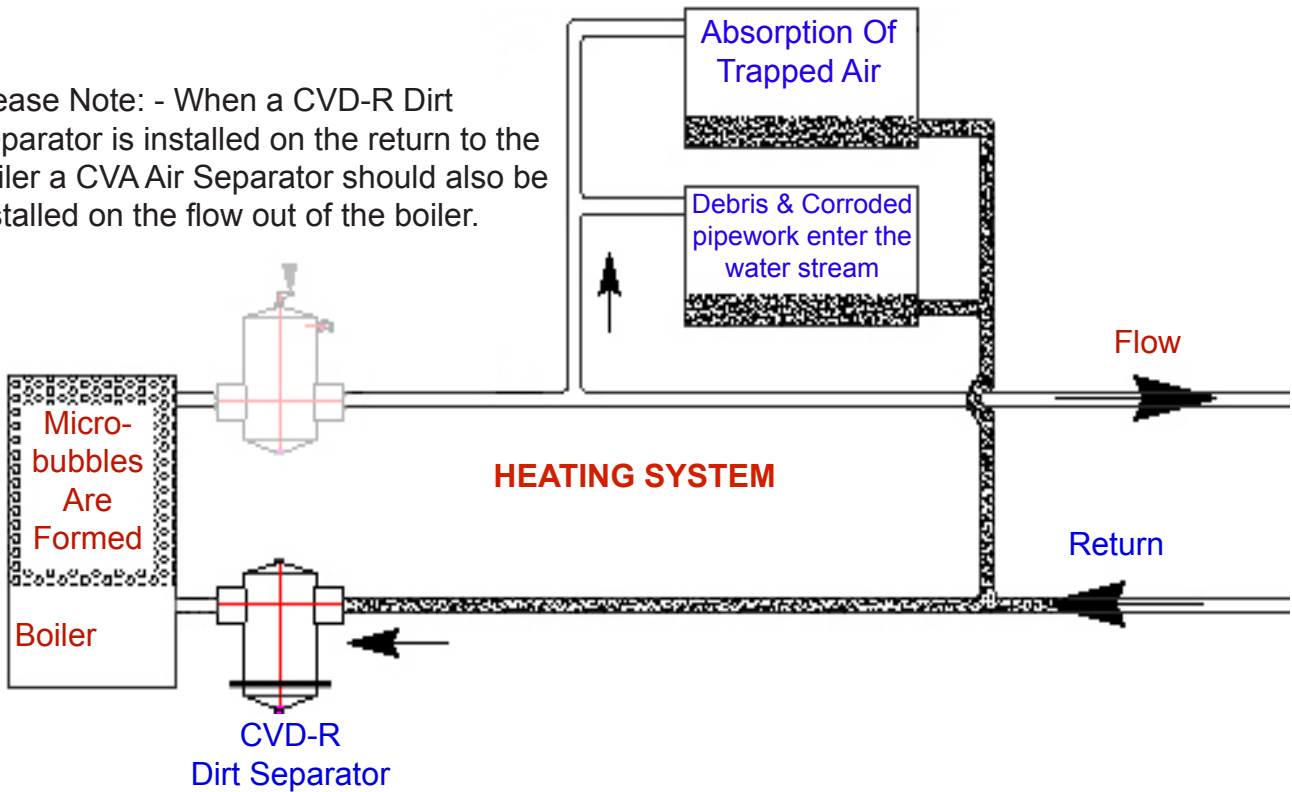
Product Code	DIMENSION'S								Test Press
	A	B	D	E	F	G	H	J	
CVD-R50	50	350	120	255	170	25	115	520	21 Bar
CVD-R65	65	350	120	255	170	25	115	520	21 Bar
CVD-R80	80	460	120	350	220	25	160	655	21 Bar
CVD-R100	100	460	120	350	220	25	160	655	21 Bar
CVD-R125	125	630	120	505	325	25	220	845	21 Bar
CVD-R150	150	630	120	505	325	25	220	845	21 Bar
CVD-R200	200	810	200	505	410	50	260	885	21 Bar
CVD-R250	250	880	200	720	510	50	320	1240	21 Bar
CVD-R300	300	1100	200	1080	610	50	360	1640	21 Bar
CVD-R350	350	1100	200	1080	770	50	410	1690	21 Bar
CVD-R400	400	1250	200	1100	770	50	430	1730	21 Bar
CVD-R450	450	1250	200	1100	920	50	495	1795	21 Bar

Positioning the “CleanVent” CVD-R Dirt separator in the system is important for optimum performance.

In heating systems this should be in the return. The CVD-R should always be installed before equipment that needs protection from dirt, sludge, etc., (ie. boilers, controll valves, pumps, etc.)

Our CVD-R is ideally suited to systems where New Boilers have been installed into a system where old pipework still exists. Ideally a CVA Air Separator should also be installed on the flow from the boiler.

Please Note: - When a CVD-R Dirt Separator is installed on the return to the boiler a CVA Air Separator should also be installed on the flow out of the boiler.



Schematic instalation Schemes - "CleanVent" Range

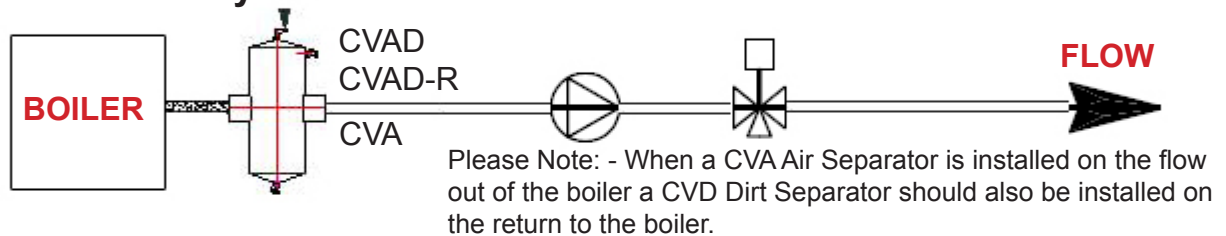
This document describes where to install the "CleanVent" products in heating & cooling systems

Specific rules

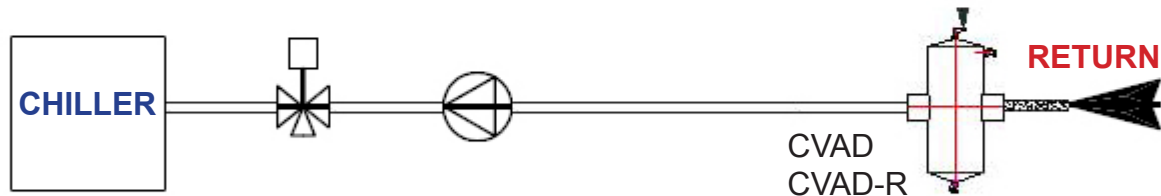
- 1) All models are in line units the water flows through them.
- 2) The positioning of the clean vent range to the pumps and control equipment is important !!
- 3) Consideration of all our range of units must be taken into account when specifying a unit applying to a specific contract.

- A) Is it a total new build.
- B) Is it a boiler house / plantroom refurbishment.
- C) Is there a particular problem with air or dirt (existing systems).
- D) Positioning of boiler house / plantroom regarding head of water.

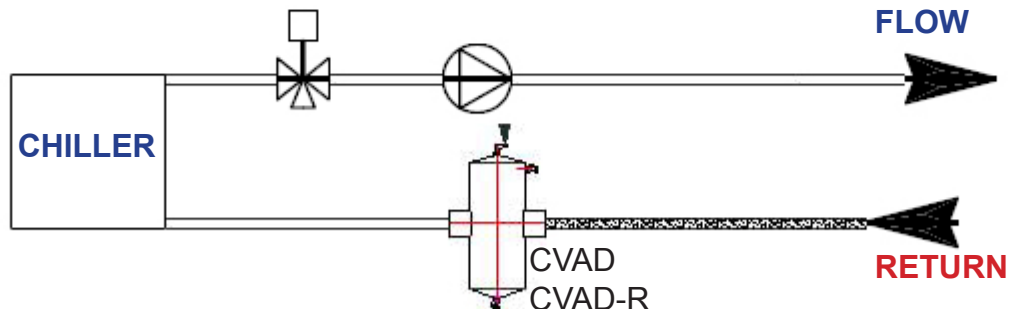
Air & Dirt or Air Only



Air & Dirt



Air & Dirt



Dirt Only

