



# Fabricated Products (UK) Ltd

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## DIRT SEPARATORS

# The CleanVent (CVD) Standard

For flow rates up to 1.5m/sec, for high flow see our CVD-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) removes dirt from water systems. Installed on the return pipe in the system the CleanVent (CVD) 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)
- \* Floating dirt can be removed by opening the valve situated on the side of the unit.
- \* 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-HF

### CleanVent Location

This unit (our model ref CVD) 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.





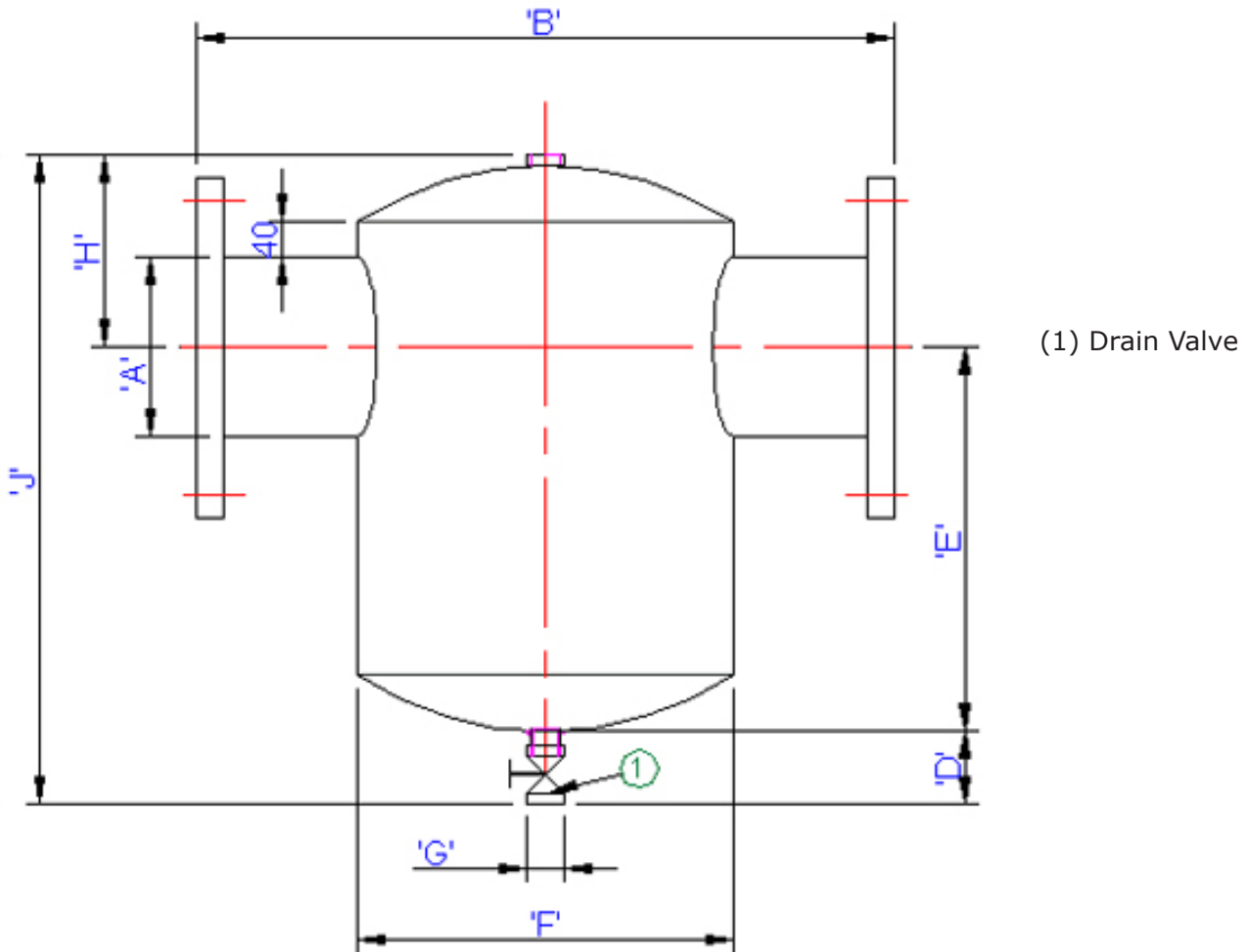
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## CleanVent Dirt Separator-Model CVD



| Product Code | DIMENSION'S |      |     |      |     |    |     |      | Test Press |
|--------------|-------------|------|-----|------|-----|----|-----|------|------------|
|              | A           | B    | D   | E    | F   | G  | H   | J    |            |
| CVD-50       | 50          | 350  | 120 | 200  | 170 | 25 | 120 | 440  | 21 Bar     |
| CVD-65       | 65          | 350  | 120 | 200  | 170 | 25 | 120 | 440  | 21 Bar     |
| CVD-80       | 80          | 460  | 120 | 305  | 220 | 25 | 150 | 575  | 21 Bar     |
| CVD-100      | 100         | 460  | 120 | 305  | 220 | 25 | 150 | 575  | 21 Bar     |
| CVD-125      | 125         | 630  | 120 | 420  | 325 | 25 | 220 | 760  | 21 Bar     |
| CVD-150      | 150         | 630  | 120 | 420  | 325 | 25 | 220 | 760  | 21 Bar     |
| CVD-200      | 200         | 810  | 200 | 420  | 410 | 50 | 260 | 880  | 21 Bar     |
| CVD-250      | 250         | 880  | 200 | 640  | 510 | 50 | 320 | 1160 | 21 Bar     |
| CVD-300      | 300         | 1100 | 200 | 900  | 610 | 50 | 360 | 1460 | 21 Bar     |
| CVD-350      | 350         | 1100 | 200 | 900  | 770 | 50 | 410 | 1510 | 21 Bar     |
| CVD-400      | 400         | 1250 | 200 | 1000 | 770 | 50 | 430 | 1630 | 21 Bar     |
| CVD-450      | 450         | 1250 | 200 | 1000 | 920 | 50 | 495 | 1695 | 21 Bar     |

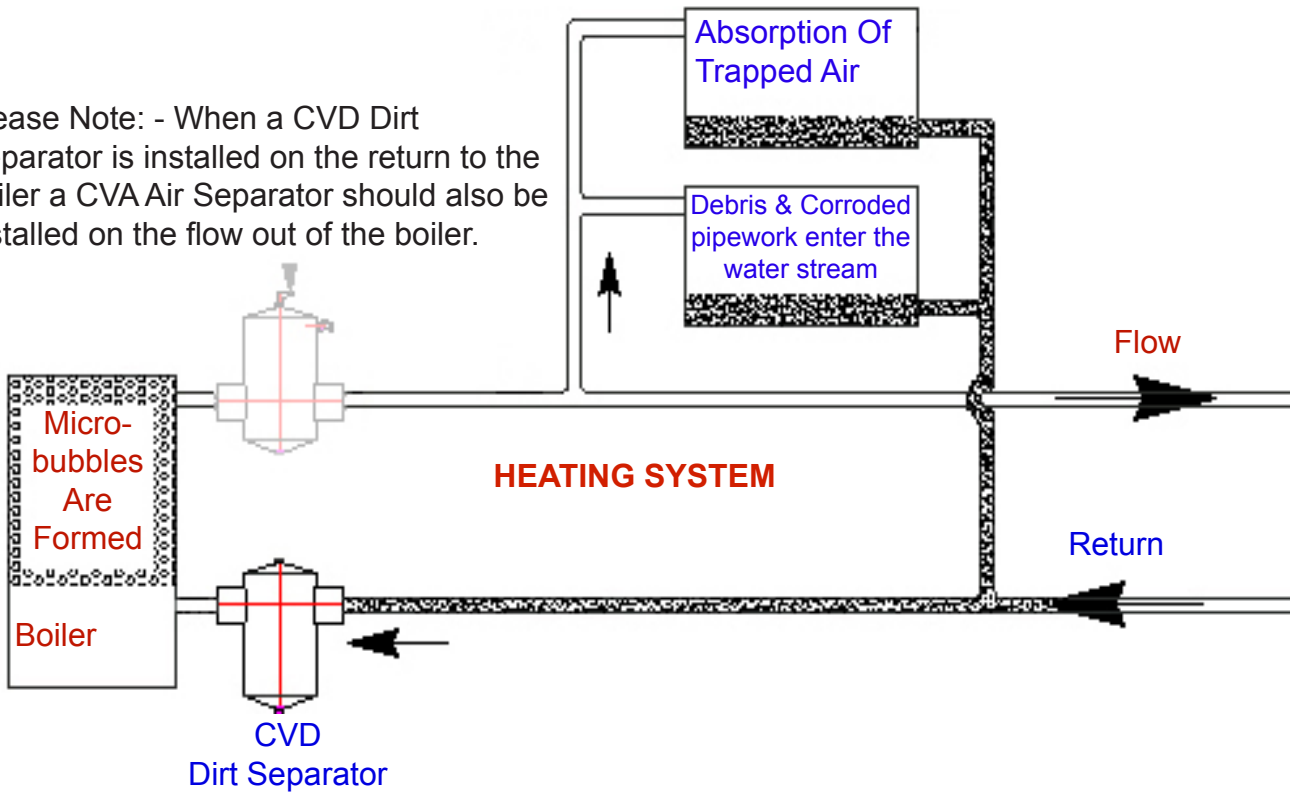
## Positioning the “CleanVent” CVD

**Dirt separator in the system is important for optimum performance.**

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

In existing systems where there are problems with dirt, sludge, etc. a demountable unit should be installed, our CVD-R will solve this problem. This applies to boiler house refurbishments where a new installation has been installed but the existing system (outside the boiler house) has been left intact.

Please Note: - When a CVD 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

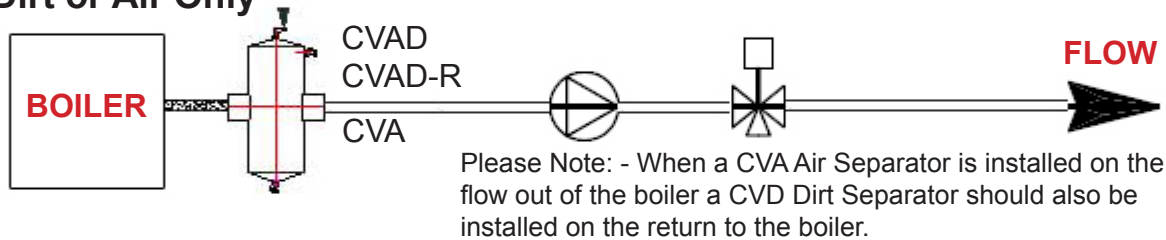
This document describes where to install the "CleanVent" products in heating & cooling systems

### Specific rules

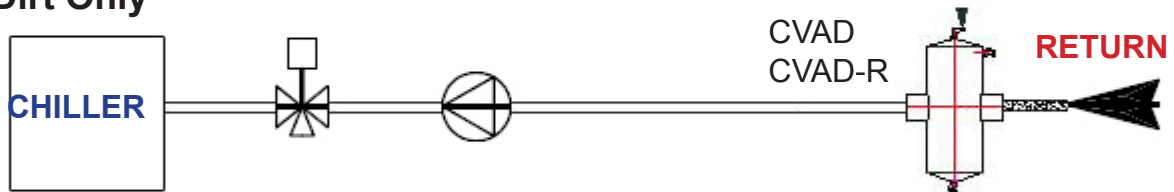
- 1) All models are in line units the water flows through them.
- 2) The positioning of the clean vent range to the pumps and control equipment is important !!
- 3) Consideration of all our range of units must be taken into account when specifying a unit applying to a specific contract.

- 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.

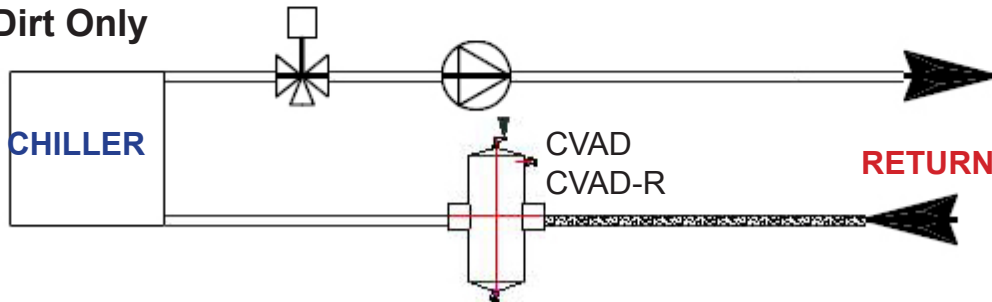
### Air & Dirt or Air Only



### Air & Dirt Only



### Air & Dirt Only



### Dirt Only

