



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.