

SOCOTEC

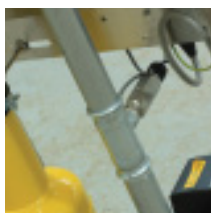
CSF-CRS Sidestream Filtration Units



1

Siemens LOGO
PLC with
multicolour text
display

Emergency stop/
isolator switch and
alarm beacon



2

Carbon steel
pipework with
external galvanised
finish



3

Thermal dispersion
flow sensor for
filter bag full
alarm (optional)



4

Grundfos
recirculating pump
with stainless steel
impeller



5

Thermal dispersion
flow sensor for
flow/no flow alarm
(optional)

Easy connect BMS
interface (optional)



6

Stainless steel
closed recovery
filter housing

CSF-CRS SIDESTREAM FILTRATION UNITS

The use of a Cobra hydro-cyclone will:

- Lower chemical costs by reducing potential bacteriological food sources
- Maintain design heat transference levels by removing the sludge and debris etc, which would otherwise build up and lead to higher energy consumption and poor circulation, with inconsistent environmental control within the building
- Protect and extend the life of your systems
- With the use of our Closed Recovery System (CRS), you can eliminate purged water losses, which means no requirement to make-up the system, introducing fresh mains oxygenated and bacteriologically contaminated water (even at low levels). It also avoids diluting chemical reserves in the circuit, including Glycol

Key benefits of the Cobra hydro-cyclone separator:

- Progressive filtration down to five micron
- No media to change
- No need for back washing
- No reduction in flow
- Constant minimal pressure drop
- Only one Cobra hydro-cyclone required
- No complex valving arrangement
- No risk of causing system pressure or water loss
- No media or dead legs for bacteria to thrive
- Minimal servicing requirements
- No circuit water loss with the addition of the Closed Recovery System (CRS)

	CSF05/ CRS/1	CSF07/ CRS/1	CSF10/ CRS/1	CSF15/ CRS/1	CSF15/ CRS/3	CSF20/ CRS/3	CSF25/ CRS/3	CSF30/ CRS/3	CSF40/ CRS/3
Flow (m3/hr)	1.0 - 2.5	2.5 - 4.5	4.5 - 7.5	10 - 14	10 - 16	14.5 - 24	21.5 - 35	33.5 - 66	66 - 90
Power requirement	230/1/50 0.5kW 3.1A	230/1/50 0.5kW 3.1A	230/1/50 0.5kW 8.4A	230/1/50 1.9kW 11.0A	415/3/50 2.2kW 4.7A	415/3/50 3.0kW 6.3A	415/3/50 3.0kW 6.3A	415/3/50 5.5kW 11.2A	415/3/50 7.5kW 14.8A
Inlet	1" BSP F	1 ¼" BSP F	1 ½" BSP F	2" BSP F	2" BSP F	2 ½" BSP F	DN65 Flange	DN80 Flange	DN80 Flange
Outlet	½" BSP M	¾" BSP M	1" BSP M	1 ½" BSP M	1 ½" BSP M	2" BSP M	DN65 Flange	DN80 Flange	DN100 Flange
Max temperature (°C)	85*	85*	85*	85*	85*	85*	85*	85*	85*
Max pressure (Bar)	10*	10*	10*	10*	10*	10*	10*	10*	10*
System volume (Litres)	3,000 - 8,000	5,000 - 10,000	8,000 - 20,000	20,000 - 60,000	20,000 - 60,000	30,000 - 90,000	45,000 - 130,000	60,000 - 200,000	90,000 - 360,000

*Higher temperature and pressure units available upon request