

Case History no. 14 – Cooling Water Filtration

Fluid : cooling water
Temperature : ambient
Pressure : 60 psi
Flow rate : 30 lps (1800 lpm) 3956 gpm (108m³/ hr)
Line size : 4”
Clear Pressure Drop : 4 – 5 psi

Problem:-

The client has a main contractor on the site of a large multinational in the health care/ medical device sector.

They required a manual filter to remove fine silt and pipe scale from a cooling water circuit at a low-pressure drop.

Solution: -

We supplied a multiplex bag filter system consisting of 4 filter vessels in stainless steel mounted in parallel on common 4” stainless steel headers with ASA 150 flanged connections.

Each of the 4 bag filters has isolation valves to allow a bag to be changed whilst the remaining continue to supply cooling water.

Dirt, silt and grit in cooling water reduce its efficiency as a coolant as it reduces its capacity to effectively transfer heat.

Fabriplex Unit consisting of: -

4 x model SS4-224-LP low-pressure fabri-baskets complete with posi-seal kits and polypropylene reusable bags.