

DUAL COOLANT FILTER SYSTEM

EHE

TB-1016

Installation & operating instructions.

EHE's Dual Coolant Filter System is recommended for use with return flow impellers up to 50mm in diameter. It consists of two standard 10" stainless steel mesh filters & is designed to remove moderate amounts of particulate matter from central mill cooling systems. Filter elements are washable. A changeover valve allows either left or right filter to be taken off-line for cleaning, without interrupting operation of the remaining filter.

A clean/change/dirty indicator is provided to monitor filter efficiency. Pressure & flow meters are also included.

In cases of extreme coolant contamination, a pre-filter or magnetic separator may be required ahead of the Dual Coolant Filter System.

The EHE Dual Coolant Filter System is normally supplied with 100 micron filter cartridges already installed. Different filter meshes are available if required.



INSTALLATION

The EHE Dual Coolant Filter System is mounted on an "L" shaped aluminium bracket & is intended for wall mounting. Four slotted holes are provided. The unit should be mounted vertically, with the changeover lever at the top. Sufficient space must be provided below the unit to allow the filter elements to be removed for cleaning.

Connection to the Dual Coolant Filter System is by means of 3/4" nominal (7/8" OD) copper water pipe. Unions are provided for easy connection & removal. The coolant inlet (dirty coolant) is connected to the copper pipe closest to the filters. Clean coolant is discharged from the line below the flow indicator.

OPERATION

The valve operating lever on top of the Dual Coolant Filter System selects either the left or right hand filter cartridge. This valve should be all the way to either the right or left end of its travel during normal operation. When the lever is in the LEFT position, the left hand filter is isolated & may be removed for cleaning. When the lever is in the RIGHT position, the right hand filter is isolated & may be removed for cleaning. The valve always selects one filter or the other. It is not possible to operate both filters at the same time.

FILTER CLEANING

An indicator is provided which warns when a filter requires cleaning. This indicator works by sensing the pressure drop across the selected filter. It will only indicate the filter cartridge state when coolant is flowing through the system. At very low flow rates, such as may occur when using small impeders, the indicator may indicate a clean filter, even if the cartridge does in fact require cleaning.

To clean a filter cartridge, move the filter selection valve toward the filter that you wish to clean. A drain valve at the bottom of the filter housing allows any coolant in the housing to be drained. The cartridge is removed by loosening the 1" hex nut on the top panel of the coolant filter system. While loosening this nut, support the filter bowl by hand from beneath. The stainless steel cartridge can then be lifted out of the bowl & washed.

EHE Dual Coolant Filter Systems are normally supplied with 100 micron pleated stainless steel filter cartridges. With normal use, these cartridges should last indefinitely. If they should become damaged, or if a different filter mesh is required, any standard 9-3/4" or 10" filter cartridge can be used. These are available from EHE, as well as other sources.

SPECIFICATIONS

Maximum operating pressure	150 PSI	1000kPa
Operating Temperature Range	40°F - 120°F	5°C - 50°C
Maximum flow	10 GPM	38 Liters/Min.
Pipe Size	3/4" nominal	
Filter Size & Type	9-3/4" pleated stainless mesh cartridge, 100 micron	

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