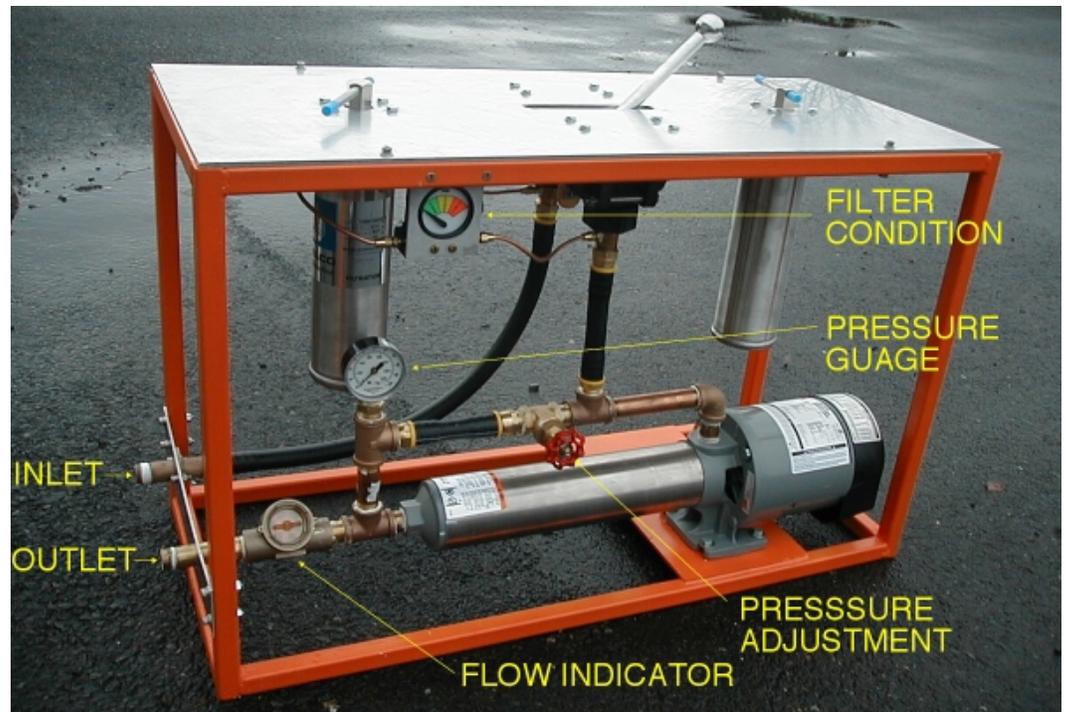


Impeder & Weld Coil Coolant Systems.

EHE' coolant booster pump & filtration systems consist of a multi-stage centrifugal pressure boost pump mounted on a welded steel frame, with dual stainless steel filters, a filter selection valve, pressure flow & filter condition gauges, and a pressure regulator.

Magnetic particle skimmers and refrigerative chillers are available as optional extras. Additional flow, pressure & temperature monitoring & interlocks can also be provided.



Installation

The coolant system has 3/4" male NPT connections for coolant inlet & outlet. Either clean city water or mill coolant is connected to pipe nipple on the lower left side of the unit. (see above). The pressurized & filtered coolant is discharged through the pipe nipple on the lower right side.

The pump is driven by a 3 phase 230/460 volt motor. See the attached pump information sheet for wiring diagrams. Motors are supplied wired for 230 volts. These pumps should not be run dry. Coolant should be flowing through the system before power is applied to the motor. A directional arrow on the motor casing indicates correct rotation. Pump motors are drip proof but should be kept dry wherever possible.

The pump is normally wired in such a manner that it is on any time the welder is operating.

Pump Operation

The pump is designed to boost the pressure of the coolant by up to 120 PSI. Most impeders are tested at 120 PSI & this is the maximum recommended operating pressure. If the mill central coolant system, or the city water supply provides 80 PSI, the operation of the booster pump will raise this by up to 120 PSI, for a maximum of 200 PSI. Since this is above the recommended operating pressure for most impeders, a bypass valve is provided to vary the amount of boost pressure applied. This should be adjusted to a maximum of 120 PSI for each different impeder size or type that is used.

Filter Operation & Maintenance

The filter cannisters are normally provided with 100 micron stainless steel mesh filter cartridges. These are washable & do not normally require replacement. A twin circuit, two way valve is used to select either left or right filter. The deselected filter may be removed for cleaning without interrupting the coolant supply. The valve handle always points toward the operating filter, so if the handle is to the left, the right hand filter can be removed.

Before removing the filter cannister, drain any trapped coolant using the drain cock at the bottom of the cannister. Care should be exercised when draining the right hand filter to ensure that coolant does not enter the motor. When re-installing the filter cartridge, make sure that the rubber seals are properly seated in the filter housing, to avoid damage to the seals.

If a filter cartridge is damaged, replacements are available from EHE. Please order using part number 9.75-100-PBS-DOE.

In coolant systems that are heavily contaminated with mill scale and/or metallic fines, more frequent filter cleaning will be required. A filter condition indicator is attached to the front side of the unit. When the needle moves into the yellow zone, the filter should be cleaned. Filter cleaning intervals can be greatly extended by installing an EHE magnetic skimmer ahead of the dual filters. This continuously removes any magnetic particles from the coolant before it enters the booster pump/dual filter system.

Use of a properly maintained impeder coolant system will greatly extend the operating life of most types of impeders, thereby reducing down time & improving mill productivity.

SPECIFICATIONS

Horsepower: 3/4 HP (0.56kW)
Pump Type: 12 stage stainless steel centrifugal.
Power requirement: 208-230/460 volts, 50/60 Hz, 3.5/1.75A
Filter Type: Replaceable stainless steel mesh cartridge
Inlet/Outletconnections: 3/4" NPT Male
Dimensions: 38"L x 16"W x 29"H (965mm.L x 406mm.W x 736.mmH)
Shipping Weight: 95 lbs. (43kg.)

PRICE: \$3800.00 FOB Buckley, Washington, USA

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