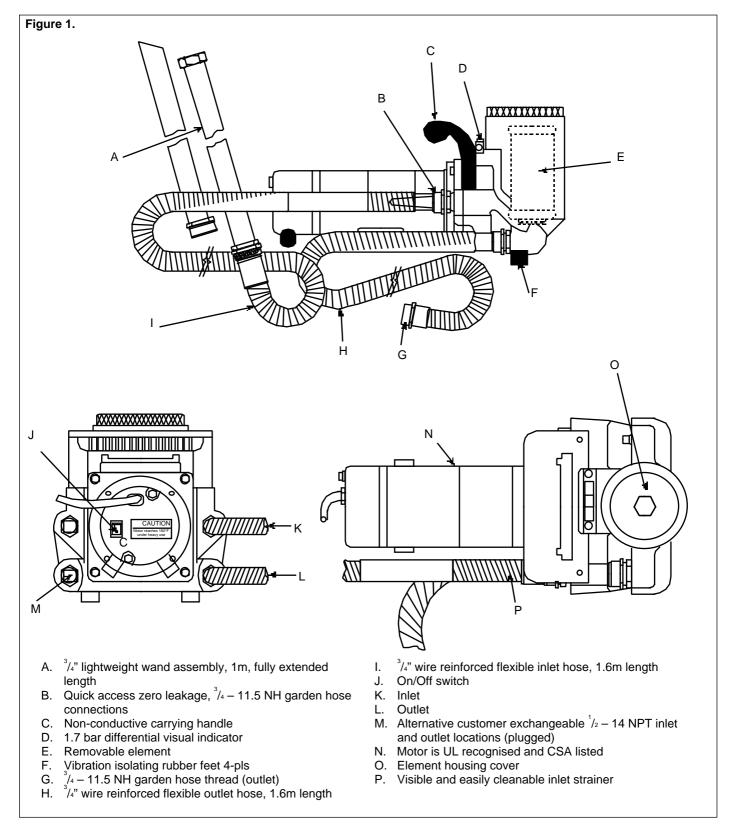


Portable Filtration System

Stock No. 193-5525



Please note: The portable filtration unit is supplied without an element fitted. A choice of replacement elements are available as separate items. See section on element servicing for fitting instructions.

Operation

- A. Remove all shipping plugs from the hoses and fittings.
- B. Ensure that a suitable element is fitted and that the element housing cover is fitted with its 'O' ring and that the cover is correctly screwed into place.

Excessive force is not required.

C. Ensure that the hoses are correctly fitted to the filter unit (see Figure 1).

The inlet, or suction hose should be fitted to the port nearest to the motor, marked with arrow

The outlet hose should be fitted to the port furthest from the motor, marked with arrow

- D. Connect the wand assemblies if required.
- E. Place the inlet hose/wand assembly into the fluid to be filtered and/or transferred. Place the outlet hose/wand assembly into a suitable fluid discharge container.
- F. Connect the filter unit to the appropriate power supply and switch on the filter unit utilising the on/off switch at the rear of the unit (Figure 1).
- G. If, during operation the 1.7 bar differential visual indicator (element condition monitor) Figure 1, moves into the red area, switch off the unit and change the element. (See element servicing section).

Please note: That if the filter unit is being used to pump fluid to a height of more than 2 metres, the indicator may move into the red area immediately. This is caused by the extra pressure generated and does not necessarily indicate that the element needs changing.

- H. Upon completion of the operation, switch the filter unit off and disconnect from the power supply.
- I. Withdraw the hoses from their respective fluid containers and drain them into a waste fluid vessel. To ensure 'Nomess' transportation, the inlet and outlet hose assemblies can be screwed together by removing the wand assembly.

Element servicing

- A. Switch off the filter unit and isolate from the power supply.
- B. Rotate the element housing cover anti-clockwise and remove.
- C. Remove the dirty/contaminated element from the housing and dispose of. (Elements are non-cleanable). Ensure element housing is clean.
- D. Place the new element in the housing, fitting the 'O' ring seal into the lower location hole.
- E. Inspect the housing cover 'O' ring and replace if necessary.
- F. Replace the housing cover and hand-tighten.

Note: It is recommended the filter unit is cleaned and flushed between uses.

Technical specification

Maximum allowable operating pressure Flow capacity

Visual element condition indicator

Fluid compatibility

Integral relief valve Operating temperatures

Weiaht Electrical motor 3.5 bar

Up to 15 litres/min

Differential pressure type set at 1.7

har

Petroleum based and water

emulsions

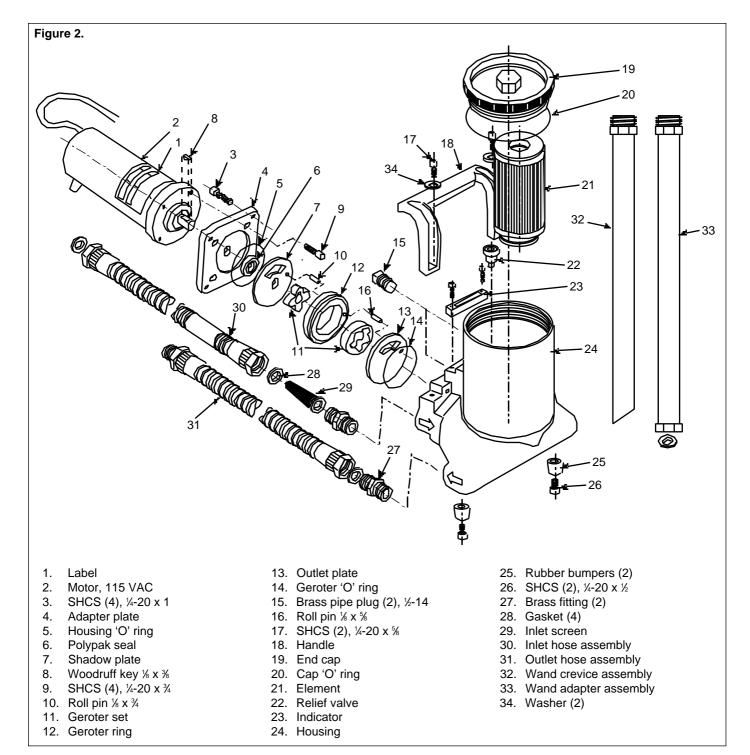
Set at 3.5 bar for motor protection Filter unit -20°C to +82°C -4°C to +50°C Hose/wand

10.6 ka

1/4 hp at 2500 rpm 3A maximum

110V ▼ single phase

50 Hz



Note: SHCS denotes "socket head cap screw"

Troubleshooting guide **Symptom Problem** Solution Does not start ON/OFF switch Turn switch on, replace if defective. No electrical power Plug in the filter unit, check for tripped circuit breakers, check for blown fuses. Replace if defective. Rectifier Motor overheated (77°C) Allow motor to cool, thermal overload will automatically reset. Defective motor Replace motor. Does not start or erratic Worn motor brushes Replace motor brushes. motor noise Intermittent start/stop High viscosity fluids High viscosity fluids can cause the motor to overheat and cycle operation intermittently. Worn motor brushes Replace motor brushes. Defective motor Replace motor. Hot motor Pumping under heavy load It is normal, under a heavy pumping load, for the motor to reach Defective motor Replace motor if the motor shell temperature reaches greater than 77°C. No flow or erratic Filter housing not filled with oil Allow the filter unit to run for a few seconds. Check tightness of inlet fittings and hoses. Check gaskets are in pump noise Suction leak place and are not damaged. Check for kinks or restrictions in the inlet hose. No suction Blocked strainer Clean or replace the inlet strainer as required. Reduced oil flow High viscosity fluids High viscosity fluids can cause reduced flow, which is normal. Element dirty Replace or clean element. Clean relief valve or replace if defective. Relief valve sticks or lodged open Partially obstructed inlet or Clear the hose obstruction. outlet hose Suction leak Check tightness of inlet fittings and hose. Worn gears Replace gear set. Indicator moves to RED Element dirty Replace or clean element. Oil extremely cold or viscous Change element to coarser micron rating. area

Obstructed outlet Defective indicator

No element

Hoses discolour or become rigid

Indicator does not

seem to move

the unit

Defective indicator

Fluid compatibility

Oil formation under

Defective shaft seal

Clear outlet obstruction.

Install element.

Replace indicator.

Replace indicator.

Certain fluids, over time, will cause the hoses to discolour. This does not impair their, performance. But, some fluids will cause the

hoses to become brittle, requiring replacement.

Replace the motor shaft seal.