

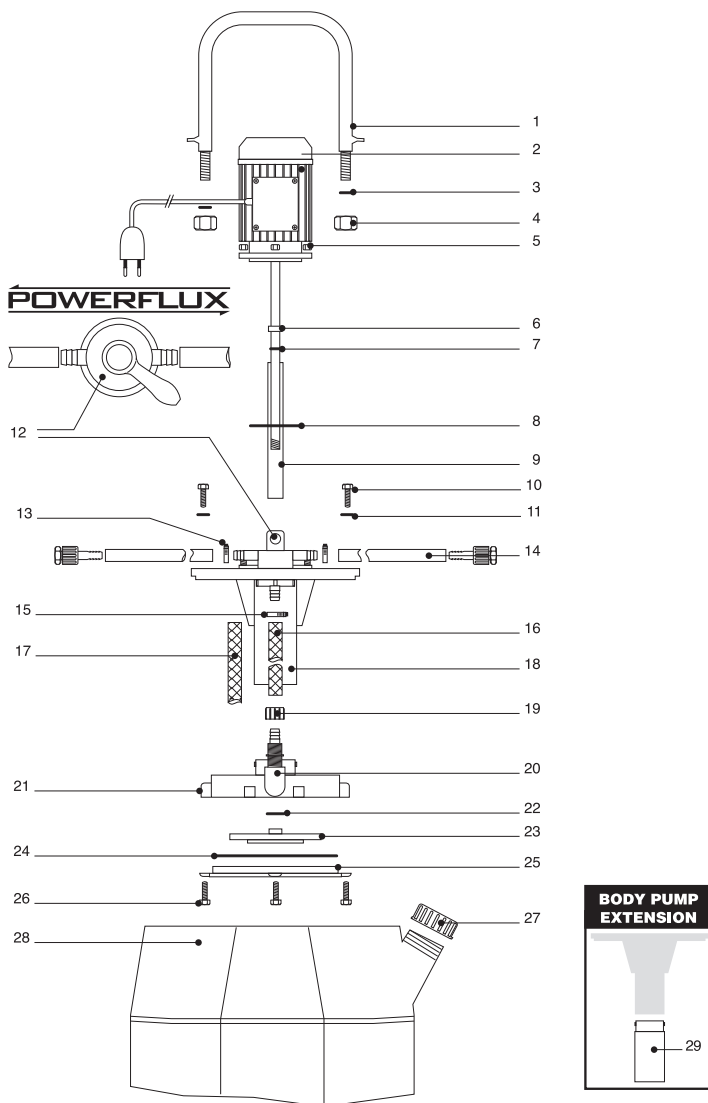
# AQUA MAX

## SUPAFLUSH



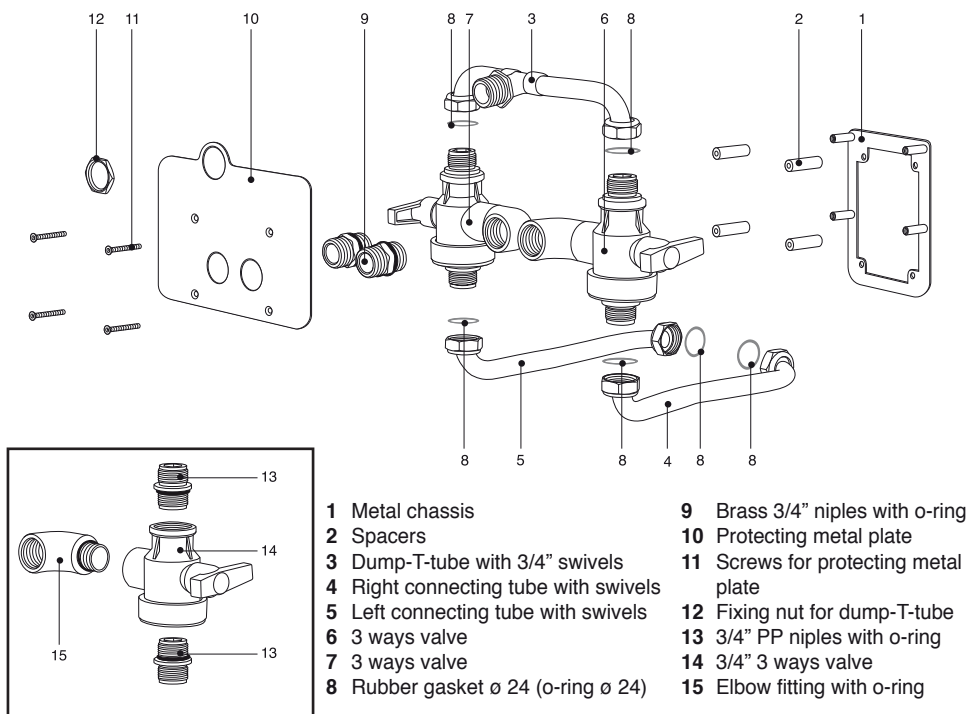
### User Manual & Instructions

# **DIAGRAMMATIC PARTS LIST**



- |                               |                           |                                      |
|-------------------------------|---------------------------|--------------------------------------|
| 1 Handle                      | 11 O-ring for screw 12 MA | 21 PP rotor housing                  |
| 2 Single phase motor 220V~    | 12 Flux inverter          | 22 O.R. for impeller                 |
| 3 O-ring for handle blind nut | 13 Steel hose fastner     | 23 Impeller                          |
| 4 PVC blind nut 16 MA         | 14 Chrome steel pipe      | 24 O.R. for rotor cap filter housing |
| 5 Brass nut 6 MA              | 15 PP hose fastner        | 25 Rotor cap filter housing          |
| 6 PP washer Ø 14 mm           | 16 Inlet circuit pipe     | 26 PP screw 8 MA                     |
| 7 O-ring for shaft sleeve     | 17 Drain pipe             | 27 Tank cap                          |
| 8 O-ring for motor flange     | 18 Pump body with inserts | 28 PE tank                           |
| 9 Shaft sleeve                | 19 Hose fastner           | 29 Pump body extension               |
| 10 PP screw 12 MA             | 20 Elbow fitting          |                                      |

## DIAGRAMMATIC PARTS LIST



## CONTENTS

- 1 Supaflush pump
- 1 Carry bag with shoulder strap
- 2 3m of 3/4" reinforced hose with swivel couplings
- 1 special funnel to assist filling tank
- 1 bag selection of various fittings to facilitate connection to heating systems

## SPECIFICATION

Dimensions: 65 cms x 56 cms x 37cms

Weight: 13 kilos

Capacity: 27 litres

Flow rate: 5,400 ltrs/hr max

Power consumption: 0,45 HP

Max working head: 2 bar

Incorporated multifunction isolation/dump valves protective plate.

The SUPAFLUSH pump may be used with any proprietary brand of descaling and flushing chemicals on the market and is able to operate easily to a maximum head of 2 bar and efficiently clean up to 20 radiators.

**Working fluid temperature up to 50°C-55°C.**

## PREPARATION

Initially start the heating system to ascertain the problem area. Once established switch the heating system off.

Open all restrictive radiator & zone valves.

Turn off the cold feed to the expansion tank and drain the tank sufficiently to loop together the feed & expansion pipes incorporating a gate valve. This loop will ensure total circulation when the SUPAFLUSH pump is applied.

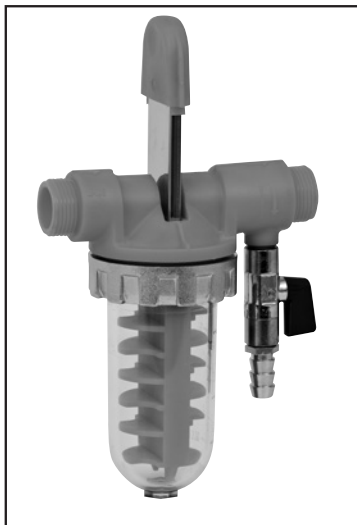
Draining the expansion tank can be undertaken either by conventional means or connecting the flushing pump into the system & draining the expansion tank until the pump tank is approx 1/3-3/4 full which should be sufficient to drain the tank and allow the loop to be fitted.

NB - The pump motor must not be operating during this process.

## POSITION

Generally the SUPAFLUSH pump should be situated in an area with access to a cold feed supply & drain facility. A kitchen or utility room usually being ideal.

## SUPAMEG COMPACT FILTER



If your SUPAFLUSH pump comes complete with the filter, then proceed as follows.

The filter should always be fitted via the swivel coupling to the “return” side of the pump, thus ensuring the water is cleaned after initially passing through the heating system.

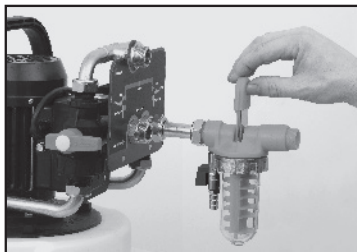
Prior to flushing, ensure that joints are tight & the drain valve with the hose tail is turned off. The removable magnet should also be pushed in its correct top position as indicated.

As flushing proceeds the magnet inserted through the top. Down the central core will attract the iron oxide particles as they pass & gradually the filter will become choked.

To empty the filter simply stop the flushing pump & close the circulating valve on the down side of the filter according to flow.

Remove the magnet by extracting from the top of the filter body, which then loosens the metal particles from the internal coil. Next either place a receptacle under the drain tap or fit a hose and drain to a convenient location.

Open the drain valve & start the pump ensuring that the flow is in accordance with the closed circulating valve on the pump.



All debris will now be flushed through the filter cleaning the coil and draining off via the drain valve.

When all the debris is removed then reverse the cleaning procedure, ensuring that the dump valve is closed and the magnet reinserted into its position.

Ensure that all dirty water dumped in the procedure is replaced with clean.

## ASSEMBLY



Using the female swivel fittings, screw the two lengths of hose provided to the “flow” and “return” 3/4” mi threads as clearly indicated in the centre at the base of the protection plate, fitted to the rear of the SUPAFLUSH pump.

Supply three own hoses, and with the protection plate facing towards you connect as follows:-

1. Clean cold water supply to the water inlet tap situated on the tank top, as indicated on the bottom left of the protection plate.
2. Connect to 3/4” mi joint valve dump outlet situated on the top of the protection plate, and route direct to drain.
3. Connect to the flushing tank overflow situated on the L/H side of the tank as indicated on the protection plate and route directly to the drain.

**ALL FITMENT POSITIONS ARE CLEARLY INDICATED ON THE PROTECTION PLATE**

The pump is supplied with various adaptors to facilitate system connection at the point most suitable for each individual system ie radiators or boiler.

## THE INITIAL FLUSH AND OPERATION

NOTE: - If the pump was used to drain the expansion tank/system, first remove the dirty water prior to replenishing the tank approx 1/3rd with cold clean water via the inlet tap as previously mentioned.

With the system drained and the tank approx 1/3 rd full off clean water the system is now ready for the initial flush. Ensure the pump isolation valves fitted on the protection plate are pointed in the “recirculate” position.

After checking that any obstructing valves are fully open on the whole system, including the newly installed gate valve on the F&E loop, start the pump for approx 10-15 mins in a forward direction. After this period reverse the flow again for 10-15 mins. Repeat this procedure several times whilst constantly monitoring the condition of the water, & maintain the water is clear.

## WATER FLOW ALTERNATION

This is achieved by alternating the lever on the flow diverter valve to a forward or reverse position. The lever when in the correct position “points” to the flow direction required.

The flow diverter valve is situated on the top of the tank at the front, directly over the filling neck. As the water becomes dirty then dump and replace for “dumping” see dump valve section.

Any commercial brand of descaler or flushing agent may now be introduced and mixed and operated according to the manufacturers instruction.

## NOTES

1. If an acid based descaler is used then the system including the pump must be neutralised with the suggested neutralising agent prior to the final flush through with cold water.
2. At all times the tank filling cap must be left off in order to allow the exhaust of acidic vapour created by cleaning process.
3. Maintain vigilance on the amount of foam produced. Do not overfill the tank by exceeding the maximum level.

All radiators should be individually flushed. This is achieved by closing all radiators except the one being worked on. Radiators should be initially flushed individually with clean water.

Alternating the flow direction as previously described and prior to repeating the process with the appropriate chemical additive.

## DUMP VALVES

Both flow and return pipes are fitted with single - 3 position valves.

IE:- Dump - Closed - Recirculate

Each position for each valve lever is clearly indicated on the protection plate:

DUMP	VERTICAL UPWARD
CLOSED	HORIZONTAL
RECIRCULATE	VERTICAL DOWNWARD

This system allows dirty water to be expelled when flowing in either direction.

As previously mentioned, the flow reverse lever, when in position, “points” from bottom to top indicating the direction of flow. To dump the water, first establish the flow direction by checking the position on the lever. Having established this, then adjust the three position valve situated at the farthest point of flow from “recirculate” to “dump”. The pump will now start to dump the dirty water. Having completed the dump then return the valve from “dump” to its original “recirculate” position then replace the expelled water with clean. This procedure must be repeated alternating the valves as the flow direction is altered.

Notes:

1. To circulate both valves in the “recirculate” position
2. To dump - the valve farthest from the point of flow is adjusted to the “dump” position.

After completion of the cleaning process re-open all valves and thoroughly flush the system through, dumping any remaining dirty water and replacing with clean until it is clear.

When the water remains clear then follow the manufacturers instructions for the introduction of inhibitor. On completion, test, vent, and replace all valves to original position.

## COMBINATION BOILERS

Because of the restriction of space it is recommended that the flow and return hoses from the SUPAFLUSH pump are connected by the radiators or by the boiler when being replaced.

## WARRANTY

In order to maintain continued flushing pump efficiency and reliability it is of paramount importance that all equipment is thoroughly washed with clean water.

12 Months parts and labour subject to fair wear and tear and no misuse.

Then manufacturer and distributor reserve the right, that in the event of a fault claim they will repair or replace accordingly at their discretion.

NOTE: - These notes are for guidance only and in no way will any claims for any damages be entered into in any way whatsoever caused.



---

## SUPAFLUSH PUMP

Via Barca, sn - 60025 Loreto (An) Italy  
Tel. 071/780064 Fax 071/780264  
[www.aquamax.it](http://www.aquamax.it) - [info@aquamax.it](mailto:info@aquamax.it)

---