

NO SCALE REFILLING GUIDE

TOOLS REQUIRED

FUNNEL

SPANNERS AND WRENCHES (FOR UNDOING BRASS UNIONS ON SOME MODELS)

FLAT BLADE SCREWDRIVER (FOR TURNING ISOLATION VALVES)

SILICONE GREASE (FOR RUBBER O-RING LUBRICATION)

CHANGING RESIN (Blue vessel) Fig 1

- Half fill a bucket with water to rinse out vessel later
- Turn off feed water
- Disconnect main filter vessel from pre and post filter pipes by removing either the red tags or undoing brass pipe unions on headstock. Remove pressure vessel head by unscrewing it anticlockwise. The seal may be dry and tight to undo. *(Tip If the seal is tight clamping the vessel upside down by its headstock in a vice will give enough purchase to break the seal.)*
- On vessels where the central riser is not fixed, (fig 2) draw out internal distribution system before removing resin, *(some blue vessels had a foam disc in the bottom, after resin is removed it might be necessary to remove foam to release any trapped resin residue, take care to refit foam into vessel once cleaned)*
- Empty vessel of resin by tipping, using additional water to aid removal
**note on blue vortex vessels the central pipe is fixed and cannot be removed to assist with resin removal*
- Vessels with foam insert models only, insert internal distribution system back into foam bed inside vessel, ensuring no old media is trapped beneath foam
- Refill the vessel with new media. The sequence of filling is Bag A- the ceramic spheres are first to be poured in, followed by Bag B - the resin. **IMPORTANT- No media must enter the central distribution riser pipe.** (Fig 3)
- Clean internal threads on the vessel, add lubrication to the central riser stem sealing o-ring in the centre of the headstock and to the main outer o-ring on the headstock (Fig 4) before reconnecting internals and refitting it to the main vessel. Use silicone grease on all o-rings (available from most plumbers merchants)
- Reconnect your feed water and outlet connections to the head noting flow direction on head.
- Open the feed water supply and run a tap for about 3 minutes check whether water runs clear, if not run water through system for longer until it is clear.
- Dispose old resin in general waste bin.

Fig 1



Fig 2

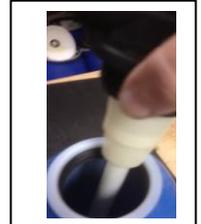


Fig 3



Fig 4



CHANGING RESIN (black vessel) (Fig1)

- Half fill a bucket with water to rinse out vessel later
- Turn off feed water
- Remove connections from the pressure vessel inlet and outlet ports to release pressure and remove pressure vessel head (Fig 2) by unscrewing it anticlockwise. The seal may be dry and tight to undo. *(Tip If the seal is tight, clamping the vessel upside down by its headstock in a vice will give enough purchase to break the seal.)*
- Remove short pipe, white ring rubbers and internal white plug (Fig 3)
- Empty vessel of resin by tipping, using additional water to aid removal **note on black vessels do not pull internal distribution system (main white tube in vessel) to assist with resin removal*
- Refill the vessel by using the funnel (Fig 4) The sequence of filling is Bag A-the ceramic spheres are first to be poured in, followed by Bag B the resin **IMPORTANT- No media must enter the central distribution pipe.**
- Clean internal threads on the vessel, add lubrication to the central riser stem sealing o-ring in the centre of the headstock and to the main outer o-ring on the headstock (Fig 5) before reconnecting internals and refitting it to the main vessel. Use silicone grease on all o-rings (available from most plumbers merchants)
- Reconnect your feed water and outlet connections to the head noting flow direction on head.
- Open the feed water supply and run a tap for about 3 minutes check whether water runs clear, if not run water through system for longer until it is clear.
- Dispose old resin in general waste bin

Fig 1



Fig 2. disconnect main filter vessel from pre and post filter pipes by removing red tags and pulling pipes outwards

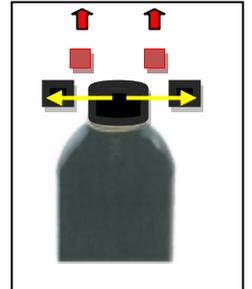


Fig 3. removing internal white plug from top of riser tube & remove old media



Fig 4. position funnel beside riser pipe so as to fill through the hole the internal plug sits in



Fig 5. position of O-rings for lubrication

