ARIANA Industrie GmbH

Zum Lausbühl 3 · D - 79227 Schallstadt
Tel. +49 (0) 7664/50 99 00 - 0 · Fax +49 (0) 7664/50 99 00- 99
info@ariana-industrie.de · www.ariana-industrie.de

Maintenance Station R-3000 Manual

Function description

A self-priming eccentric screw pump integrated in the Maintenance Station ensures that cooling lubricant, and the oil and grease mixed into it, is fed into the separator. Prior to entering the pump, particulate matter is removed in the textile filter. This protects the pump against wear and tear and makes for gentle cleaning. In the separator, the cooling lubricant is conducted through various chambers and the separating element so that the oil and/or grease is separated from the aqueous cooling lubricant liquid and rises to the surface. The oil and/or grease collects and flows into the trash oil container when a specific level is exceeded. The liquid, now free of oil and grease, flows back into the cooling lubricant circuit.

Installation and commissioning

1.) Open the stainless steel preliminary filter housing and check that a filter bag has been inserted.
2.) Fill the unit with freshly prepared emulsion up to the level controller. For this please make sure that the level controller is in the lowest position.
The stainless steel preliminary filter housing must be filled about half way for the first commissioning.
3.) Place the float switch in the trash oil container.
4.) Position the unit right next to the container with the liquid to be cleaned so that it is easily accessible and lock the two lockable castors.
5.) Attach the return hose (3/4"; length 1.5 m) at the return ball valve and at the flexible return magnet holder. Place the hose in relation to the liquid container so that the cleaned emulsion can flow without backpressure. Then open the return ball valve.
6.) Attach the suction hose (1/2"; length 3.0 m) at the preliminary filter housing and at the flexible suction magnet holder. Position the suction nozzle with the magnet base at the container so that it is possible to submerge the flexible suction nozzle at a suitable location under the surface of the liquid.
7.) Make absolutely sure that the two drain ball valves at the bottom of the Maintenance Station are closed.
8.) Screw the 3/4" jointed hose into the overflow ball valve in such a way that the separated oil and grease can flow into the tramp oil container.
9.) After connecting the Maintenance Station to a power supply, it can be switched on and operated.

Level adjustment for oil separation

The level controller for trash oil separation is located in the last chamber of the unit. Once trash oil and impurities have floated to the surface in the middle chamber, the level controller can be rotated upwards during operation, which raises the level, and the impurities floating at the top can flow into the trash oil container.

Overflow protection for trash oil

The collecting tank is equipped with a float which causes the pump to automatically switch off as soon as the tank is full and thus prevent overflows.

Filter change

If the pump is on but no liquid is conveyed, the filter bag may be full and must be replaced. Switch off the unit and unplug it from the power supply. Open and remove the filter lid by releasing the fastening clamp. Raise the filter basket with the filter bag so that the remaining liquid can flow back in. Replace the filter bag and put it back in the stainless steel preliminary filter housing. After inserting the back-up ring, close up the housing again.

Emptying the separating chambers

If the Maintenance Station R-3000 is left unused for a longer period of time or if a different liquid is to be maintained, the separating chambers must be completely emptied and the unit cleaned.

Connect the suction hose with the lower ball valves and the stainless steel preliminary filter housing one after the other. The fast-action coupling after the pump must be released and connected with the return hose. The chambers are now emptied by means of the pump one after the other. For this purpose, the corresponding ball valve (at the bottom on the side wall) must be opened.