

GLF-LT Filtration Units

Overview

The process water pipework systems, {LTHW, CHW & Condenser water} installed in modern building service developments invariably contain numerous small-bore components that require the process water to be free of particulate contamination so that they work effectively.

To this end, the BSRIA Guide BG 29/2012 Pre-commission Cleaning of Pipework Systems recommends the use of side-stream filtration as being suitable for these types of installations and is strongly recommended for systems with a water content greater than 2,500 litres.

To meet this requirement, Goodwater initially developed The Cygnus GLF range of skid mounted Stainless Steel filtration systems which are specifically designed for installation onto closed, recirculating LTHW, CHW and Condenser water systems.

The use of the Cygnus GLF results in better system operational conditions within the process water system resulting in higher pumping efficiency and extended lifetime for all wetted system components. Water treatment chemicals are also more effective in filtered water.

The side-stream filtration process, aided by powerful magnets, effectively removes silt, sludge and other particulates including magnetic particles such as iron oxides and magnetite.

The Cygnus GLF-LT

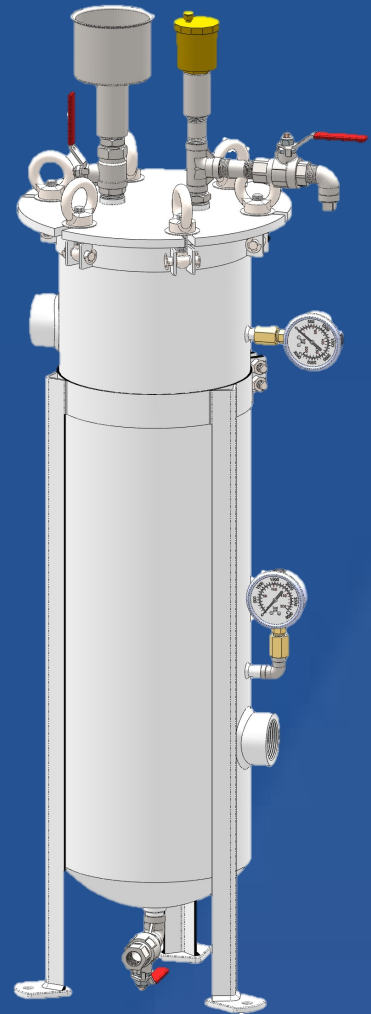
Goodwater have now added to the GLF range, with a 'lighter' version of the fully skid-mounted units; the **Cygnus GLF-LT** range of units. These are a stripped back version of the GLF units and consist only of the filtration unit itself.

The Cygnus GLF-LT range of units offer the same filtration capabilities as their bigger skid mounted units, and also come fitted as standard with a Tun-Dish assembly and air vent, which therefore allows them to be used as a system dosing pot for the dosing of chemicals, thereby eliminating the requirement to install a separate dosing pot.

There are three units available in the range;

- GLF-LT-32
- GLF-LT-40
- GLF-LT-50.

Your Goodwater consultant will be able to help with the sizing of the unit.

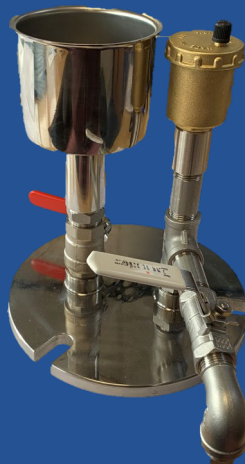


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System Features

- Polished 304 Stainless Steel bag filter housing c/w
- Inlet and outlet pressure gauges. 0-10 bar {Glycerine filled}.
 - Stainless Steel basket and basket holder for the filter bag.
 - Stainless Steel encapsulated high strength magnetic bar(s) for metal oxide capture.
 - Enhanced solids deposition due to reduced water velocity in the filter chamber.
 - Polypropylene filter bag with a wide range of micron ratings between 1-200micron (default 50 micron).
 - Adjustable Stainless Steel feet.
 - Housing Closure uses M12 Stainless Steel wing bolts with ball joints and clips. Fully dismountable.
 - Closure c/w Tun Dish Assembly and air vent for chemical dosing.
 - Air Release Assembly c/w "T" adaptor.
 - Ball valve purge and air bleed/filling valve.
 - Bottom drain connection (with plug): ½" BSP.

- ✓ Magnetic Filter
- ✓ Dirt Separator
- ✓ Automatic Air Vent
- ✓ Dosing Pot



Technical Specifications

- Max. pressure: 10 bar
- Max. temperature: 90°C
- Stainless steel magnetic bars:
 - GLF-32: 1 bar 300 mm
 - GLF-40: 2 bars 300 mm
 - GLF-50: 2 bars 600 mm
- Clean pressure loss:
 - GLF-32: 0.15bar
 - GLF-40: 0.21bar
 - GLF-50: 0.25bar
- Housing volume:
 - GLF-32: 4L
 - GLF-40: 15L
 - GLF-50: 20L

Optional Thermal Insulation Jacket

The Cygnus GLF-LT units can be supplied with a thermal insulation jacket which completely protects and insulates the filtration unit from heat losses in heating installations and from condensation in chilled water installations. It is easily installed, without the need for tools, around the body and on the cover of the filter.

Health and safety is also improved with heating systems, with the jacket minimising exposure to hot surfaces and potential burns.



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Dimensions (mm)

