

# 27 SERIES GRP

## High Flow GRP Filter Housing



With water resources becoming less readily available, the use of larger and larger scale water treatment systems is increasing. Where extraction and purification of brackish and seawater is required the use of standard 304 or 316 stainless steel housings is not normally recommended. To help operators overcome these problems Amazon Filters has developed a filtration system comprising of a **27 Series GRP** (Glass Fibre Reinforced Plastic) housing available in various lengths, and the large diameter **SupaPleat FFC** high flow filter. Where flow rates are high the use of a high surface area cartridge provides a more cost effective solution than standard 65mm diameter filters. This

system has been specifically designed to reduce filtration costs associated with water purification.

The **27 Series GRP** housing consists of a GRP (FRP) polymeric body with Acetal connections.

Housings are designed so that flow through the cartridge is optimized in 'out to in' mode and the robust construction provides a maximum operating pressure of 16 bar and maximum operating temperature of 45° C. The external surface is painted and coated to provide protection from UV light damage.

| Accessories  | Part Number |
|--|-------------|
| Saddle and Strap Set  | 27S010H00   |
| Extraction Tool       | 27S010H14   |

### Industries and Applications

- Membrane protection in desalination plants and other industrial water purification systems
- Capture of carbon particles shed from dechlorination systems
- Control of resins downstream of deionization columns
- General particulate removal

### Filter Cartridge

Amazon Filters manufactures **SupaPleat FFC** cartridges to be used with the **27 Series GRP** housing. The range of large diameter **SupaPleat FFC** filters are specifically designed to reduce filtration costs in water purification. Utilising advanced pleated meltblown polypropylene media and an optimised pleat pack design has produced a very high surface area cartridge offering high flow rates and long filter life.

Please consult our Sales office for further details on this product.



## Features and Benefits

- Design allows high flow rates minimising filtration costs and change-out times
- Available in lengths of up to 60" so suitable for high flow systems
- Suitable for brackish and salt water providing more cost effective option than Super Duplex or lined housings
- PED Compliant
- Design based upon standard RO membrane tubes so can be installed easily into water treatment systems
- Super Duplex connection material and ASME X coding available on request

## Product Range

Amazon Filters design and manufacture an extensive range of liquid filtration systems, providing one of the widest selections of filtration vessels, depth filters and pleated cartridges available today, ensuring excellent process and filter compatibility. As one of Europe's leading manufacturers of filtration systems, Amazon Filters is able to offer a solution to meet all filtration requirements. Amazons' filters are manufactured in clean room conditions and all products come with detailed Product Validation Guides and Technical Support documentation.



# 27 Series Technical Data

## Maximum Operating Conditions

Maximum Pressure: 16 bar g  
 Temperature Range: 45°C

## Materials of Construction

Body: Glass reinforced plastic  
 End fittings: Acetal - C  
 Seal: Silicone

**PED\*/PESR\*\*Status:** Compliant with PED 2014/68/EU and PESR 2016 No. 1105

Fluid Groups: Liquids Group 2

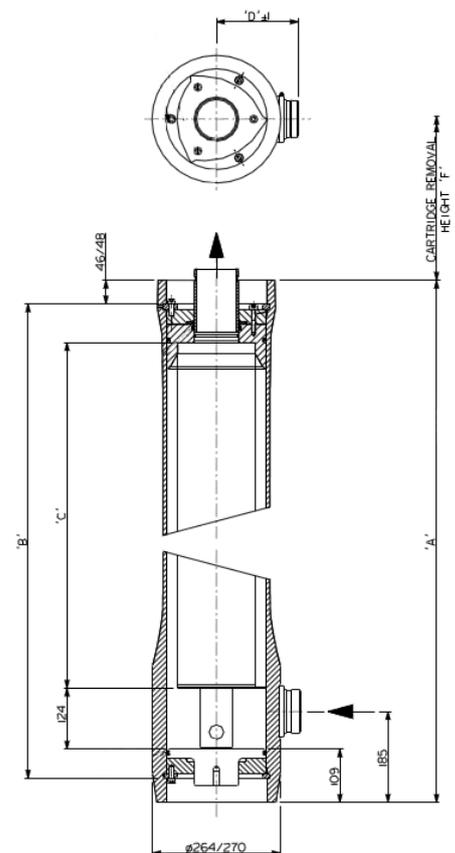
Marking: SEP (Sound Engineering Practice)

\* Pressure Equipment Directive

\*\* Pressure Equipment (Safety) Regulations No. 1105

Technical drawings for each individual housing showing dimensions, volume, weights, maximum temperatures and design pressures available on request.

| Model | Dimensions |      |      |     |      | Volume (Litres) | Dry Weight (kg) |
|-------|------------|------|------|-----|------|-----------------|-----------------|
|       | A          | B    | C    | D   | E    |                 |                 |
| 20"   | 881        | 781  | 516  | 165 | 700  | 16              | 23kg            |
| 40"   | 1384       | 1284 | 1019 | 165 | 1200 | 32              | 27kg            |
| 60"   | 1887       | 1787 | 1522 | 165 | 1700 | 48              | 31kg            |



## Ordering Guide

| 2701         | 4                  | H                       | Z             | N        | 30         | V                       | A          | K               | S            |
|--------------|--------------------|-------------------------|---------------|----------|------------|-------------------------|------------|-----------------|--------------|
| No of Stacks | Cartridge Length   | Cartridge End Cap Style | Closure Style | Mounting | Connection | Connection Type         | Materials  | Finish          | Seal         |
| 2701 - 1     | 4 - 40"<br>6 - 60" | H - Code H              | Z - Special   | N - None | 30 - 3"    | V - Victaulic Couplings | A - Acetal | K - Painted GRP | S - Silicone |

Example: 27014HZN30VAKS = 27 Series GRP, 1 x 40" out to in SupaPleat FFC cartridge, special closure, no mounting, 3" Victaulic Couplings, GRP construction with Silicone gaskets.

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