

# Self-Cleaning Analyser Filter System

From £2,360.00 (GBP)



The RF100AN-Q Analyser Filter System is a revolutionary new product specifically designed to provide filtered samples for analysers and dosing pump systems with almost no maintenance.

It is excellent for filtering difficult samples contaminated with suspended solid for supply to chlorine, ammonia and other analysers.

The small pump delivers the sample to your analyser and drives a self-cleaning filter that prevents the filter mesh, pump and analyser from blocking and blinding.

This wall mounted unit has a continuous flow through the tank – ideal for fast loop systems. The pump self-cleaning filter in the tank withdraws filtered sample water and delivers between 0 and 16 litres per minute your analyser

## Key Features

- Removes suspended solids down to 60 microns
- Mag drive pump with polypropylene casing and impeller
- Auto air bleed for self-priming
- Board mounted for ease of installation
- Float switch and pressure sensor for dry run protection
- High reliability and easy to use
- Power - 230v or 110v 50 Hz, or 115v 60 Hz
- 16 litres per minute maximum flow
- ABS & polypropylene Self Cleaning Filter Head
- PVC Filter Tank and Nylon monofilament filter mesh

## Description - RF100AN-Q Analyser Filter System

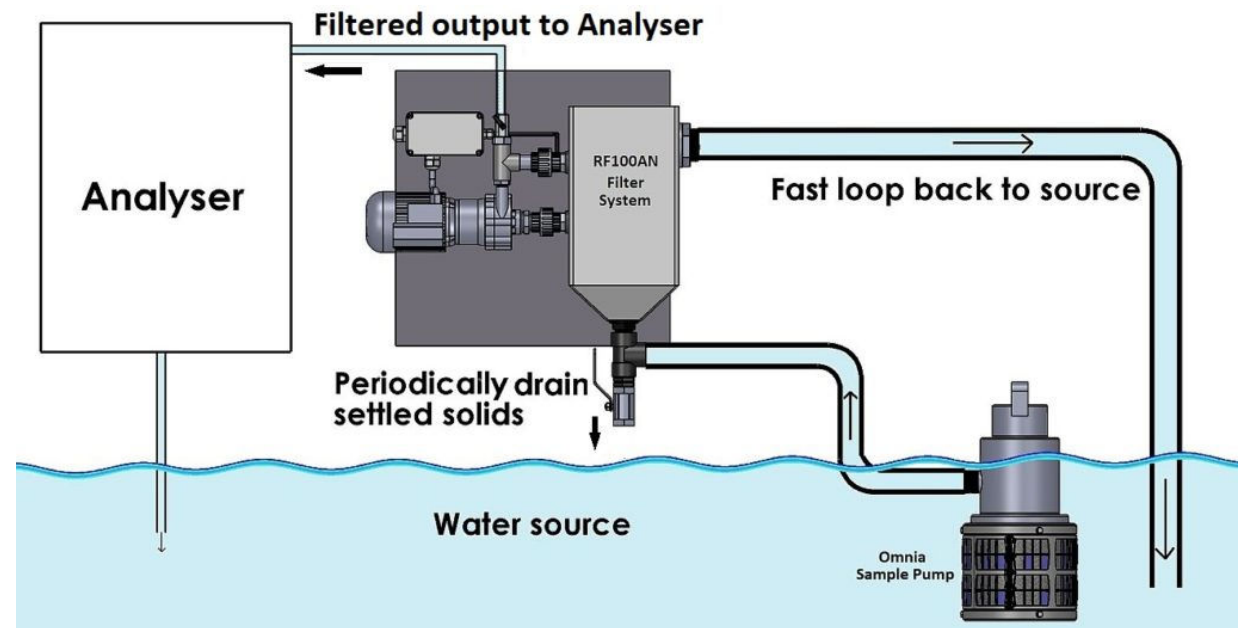
The RF100AN-Q is a self-cleaning analyser filter system, for filtering fluids to 60 microns and supplying it to analytical equipment. The system samples from a continuous flow through a tank maintaining a constant water level, and can sample from very dirty water.

Debris and other suspended solids in the sample are carried out by the flow through the system or, if they are particularly heavy, can be periodically purged through a valve at the conical base of the tank. This can be automated on a timer if required.

This is a very robust system continuously filtering fluids to 60 microns. The pump drives the filter and supplies from 0 – 16 litres/minute to your analyser.

The self-cleaning filter head in the tank has a continuous backwash when the pump is operating. This clears contaminants from the filter mesh allowing for very low maintenance operation. These units can be used alone or in conjunction with a Rotorflush submersible pump filtering and pumping from the water source to the RF100AN-Q.

For information about sampling directly from a water source have a look at our Omnia O1608-16 submersible sample pump with a built-in self-cleaning filter.



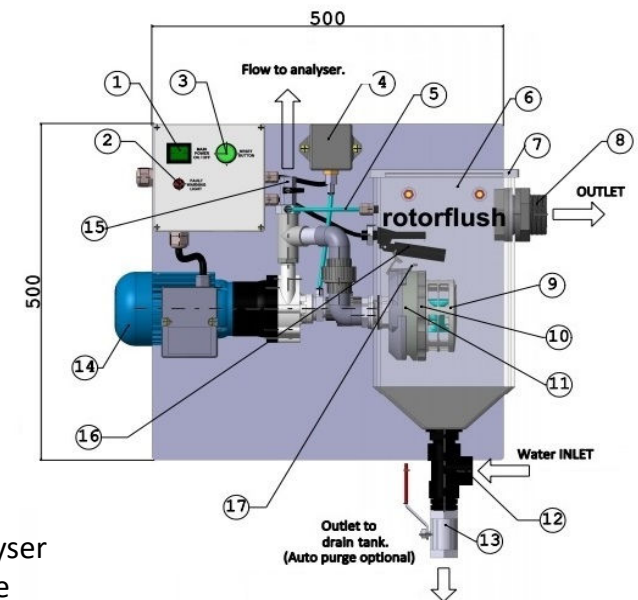
## How it Works...

The fluid to be filtered is introduced through the 1" inlet at the bottom of the filtering chamber. Most of the liquid exits through the outlet and is sent back to the source. The filter head has an internal backwashing rotor that continually cleans the filter screen.

The fluid flows from the outside of the filter head through a 60-micron nylon mesh. The pump sucks fluid from the inside of the filter head and a proportion is returned to the internal cleaning rotor. The remaining filtered fluid is sent to the analyser. This is adjustable from 0 – 16 l/minute.

### RF100ANQ Parts

1. Main power ON/OFF Mains supply 230v or 110v (see motor plate)
2. Fault warning Light
3. Reset Button
4. Pressure sensor unit
5. Continuous bleed (self-prime feature)
6. Filter tank
7. Anti-splash lid
8. 1½" BSP (NPT) Outlet – Continuous flow of water out to drain. Flow rate through tank 15 litres/min minimum.
9. Filter Cage
10. Retaining Nut
11. Filter Head Body
12. 1" BSP (NPT) INPUT Water INLET (to be filtered) Flow rate = 15 L/min minimum + flow to analyser
13. 1" BSP (NPT) Purge – Outlet to periodically drain solids that may settle in the tank. (Auto purge optional)
14. MAG drive pump (To supply drive to backwash rotor and provide filtered supply to analyser)
15. ¾" BSP (NPT) Ball valve – controls flow to analyser. Adjust between 0 and 15 l/min
16. Float switch
17. Quick Release Clip



## Models & Specifications

### RF100AN-Q Analyser Filter System Characteristics

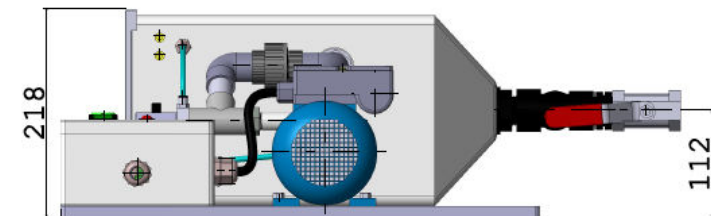
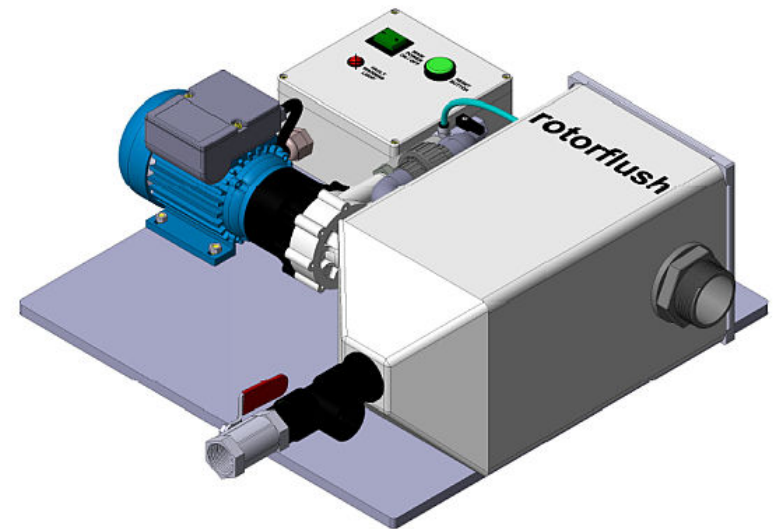
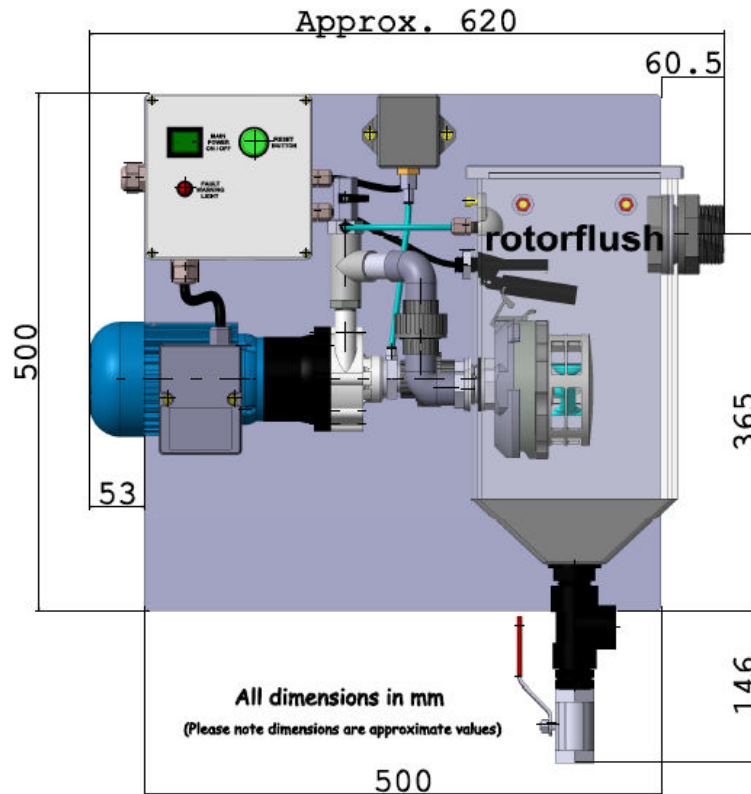


Model	Volts	kW	L/min Max	Full Load	Float Switch	Phase
RF100AN-Q 230v 50Hz	230	approx 0.25	16	2.1 amps	Yes	Single
RF100AN-Q 110v 50Hz	110	approx 0.28	16	4.2 amps	Yes	Single
RF100AN-Q 115v 60 Hz	115	tba	16	4.2 amps	Yes	Single

**NB – Always Check the pump motor label for kW and Amps**

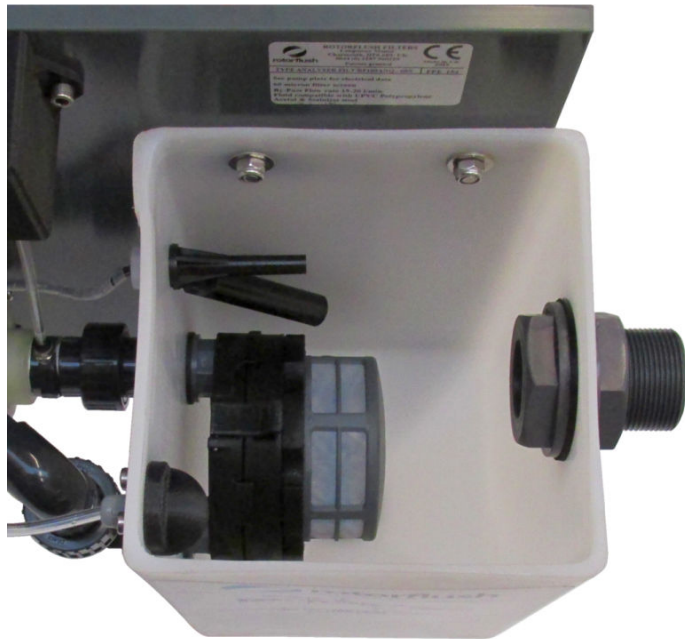
**All RF100AN-Q Analyser Filter Systems are now fitted with auto priming and a pressure sensor for dry running protection**

## RF100AN-Q Analyser Filter System Dimensions



PLEASE NOTE: Dimensions can vary as the tank is a moulded item and fittings have assembly tolerances to account for.

## RF100AN-Q Analyser Filter System Construction



Component	Material
Pump	Magnetic drive, polypropylene pump head
Filter head	Polypropylene, ABS, with nylon filter screen
Backing board	PVC
Filter chamber	PVC
Standard filter mesh screen	60, 115 or 250 micron nylon
Tank	Polyethylene
Pipework	PVC
IP66 Control Box	ABS

**Please Note:** Our filters are designed for use in dirty water or liquids with a viscosity close to that of water. Our filters and filterpumps are **NOT** suitable for use in raw sewage or any other dirty water which contains oils or fat.

## Ordering

**Rotorflush RF100AN-Q Self-cleaning Analyser Filter System.**

**Pre-filtration to online analyser systems down to 60 micron with adjustable flow rate.**

Rotorflush Filter Model No.	Price
RF100AN-Q 230v 50 Hz	£2,360.00
RF100AN-Q 110v 50 Hz	£2,540.00
RF100AN-Q 115v 60 Hz	£2,790.00

**Please note:**

**Delivery is by carrier and is usually between 5 and 14 days from order depending on product and availability.**

**Carriage and packing charges are extra.**

**Can't find what you need? Want to talk with us directly?  
We're here to help. Call us on +44(0) 1297 560229**



An actuated purge valve and a timer can be fitted to these units if required – POA depending on specification.