ACQ MULTIMEDIA FILTER
(FOR POTABLE WATER SUPPLY)

Designed in Germany

by ACQ (Agil Clever Qualitat)

www.acqtech.de

Made in P.R.C

ACQ
AGIL.CLEVER.QUALITÄT

ACQ MULTIMEDIA FILTER

PRODUCT DESCRIPTION

Automatic Multimedia Filters are designed with unique proprietary components that provide lightweight, corrosion-resistant, easy-to-operate, and versatile units

Highlights

- Non-corrosive GRP reinforced polyethylene filter tanks
- Fully automatic WS1TC valve and control system for adjustable backwash and rinse cycles
- Suitable for flow rates up to 1.5 LPS
- Removal of particles, sediments and turbidity down to 10 – 15 Microns
- 3 Filter media (Filter Sand & Gravel)
- Easy installation, no complex face piping
- Low turbidity in treated water

Markets Served

Villas

Palaces

Farms

Clinics

Educational facilities

Food & Beverage Production

Restaurants

Municipal Water

KEY DIFFERENTIATING COMPONENTS

ACQ brand FRP tanks

The tanks are designed in Germany and manufactured with a seamless polyethylene shell, continuously wound with miles of fiberglass reinforcement, and sealed with epoxy resin. Production utilizes computer-aided winding machines and specialized equipment to ensure exceptional performance and long-lasting durability.

These tanks are fully compliant with the Pressure Equipment Directive (P.E.D.) 2014/68/EU and are suitable for drinking water applications in accordance with KTW recommendations.

Timer-based control valves

ACQ Filter uses the intelligent water treatment control valves. These valves are constructed of corrosion-resistant materials, with the valve body and cap molded from glass-filled thermoplastic with low pressure drop and durability.

TECHNICAL SPECIFICATIONS

Model	Diameter		Volume	Connection	Service flow	Backwash flow	Weight	Filter Media (3 layers)
	mm	Inch	Liters	Inch	L/S	L/S	kg	
ACQ1054	259	10	61	1	1	1.3	7.7	Fiter sand (0.8-1.1mm) (12 Kg) Gravel (3-5 mm) (12 Kg) Gravel (5-8 mm) (12 Kg)
ACQ1252	307	12	85	1	1.5	1.7	8.7	

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GENERAL CONDITIONS FOR INSTALLATION

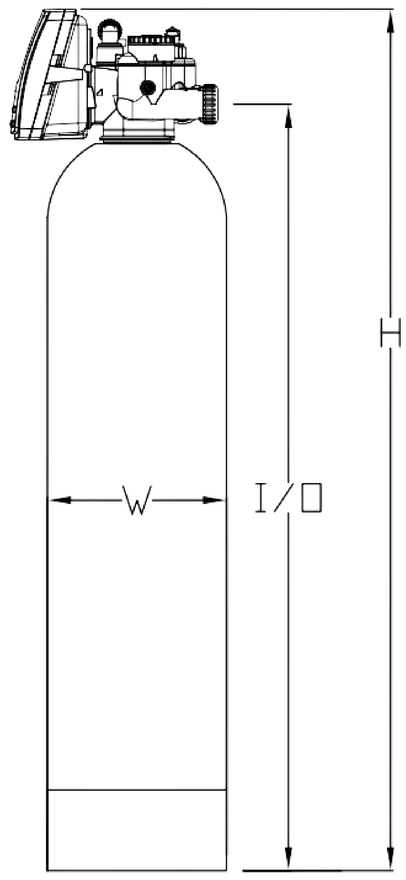
Electrical Rating	230 - 24V / 50 HZ
Minimum Inlet Pressure	200 kPa (2 Bar)
Maximum Inlet Pressure	700 kPa (7 Bar)
Average Pressure Loss	100 kPa (1 Bar)

DIMENSIONS

DIMENSIONS (mm)				
MODEL	TOTAL HEIGHT	INLET	OUTLET	DIAMETER
	H	I	O	W
ACQ1054	1630	1440	1440	259
ACQ1252	1580	1390	1390	307

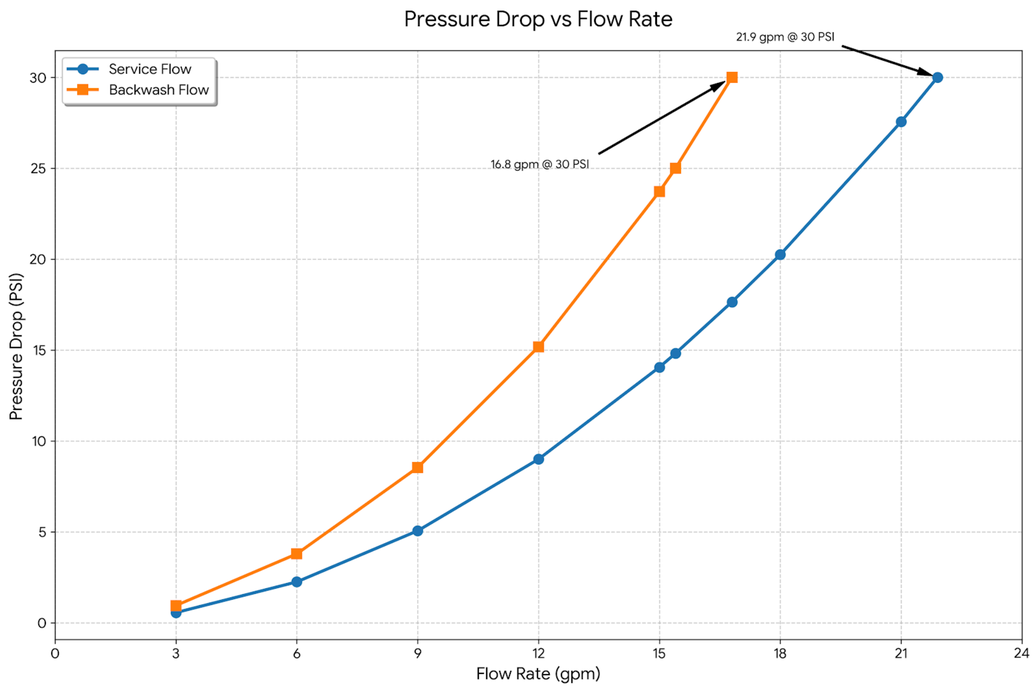
Notes

- All dimensions subject to tolerance ± 10 mm
- Allow a minimum 500 mm space on top for media loading
- Product improvement designs are subject to change without notice

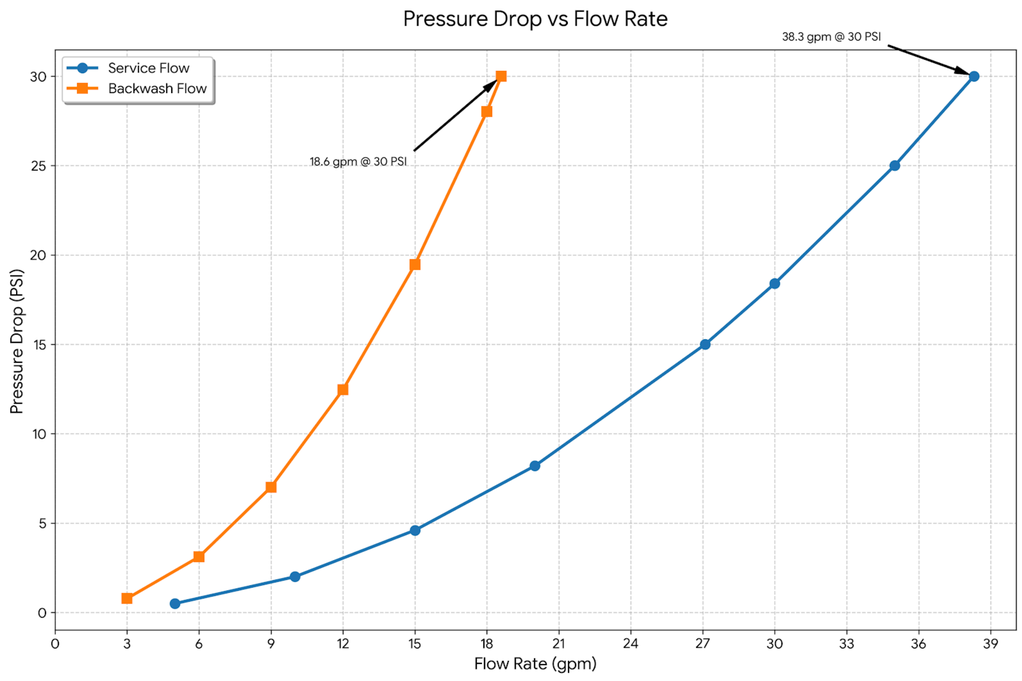


PRESSURE DROP CHART

ACQ1054



ACQ1252



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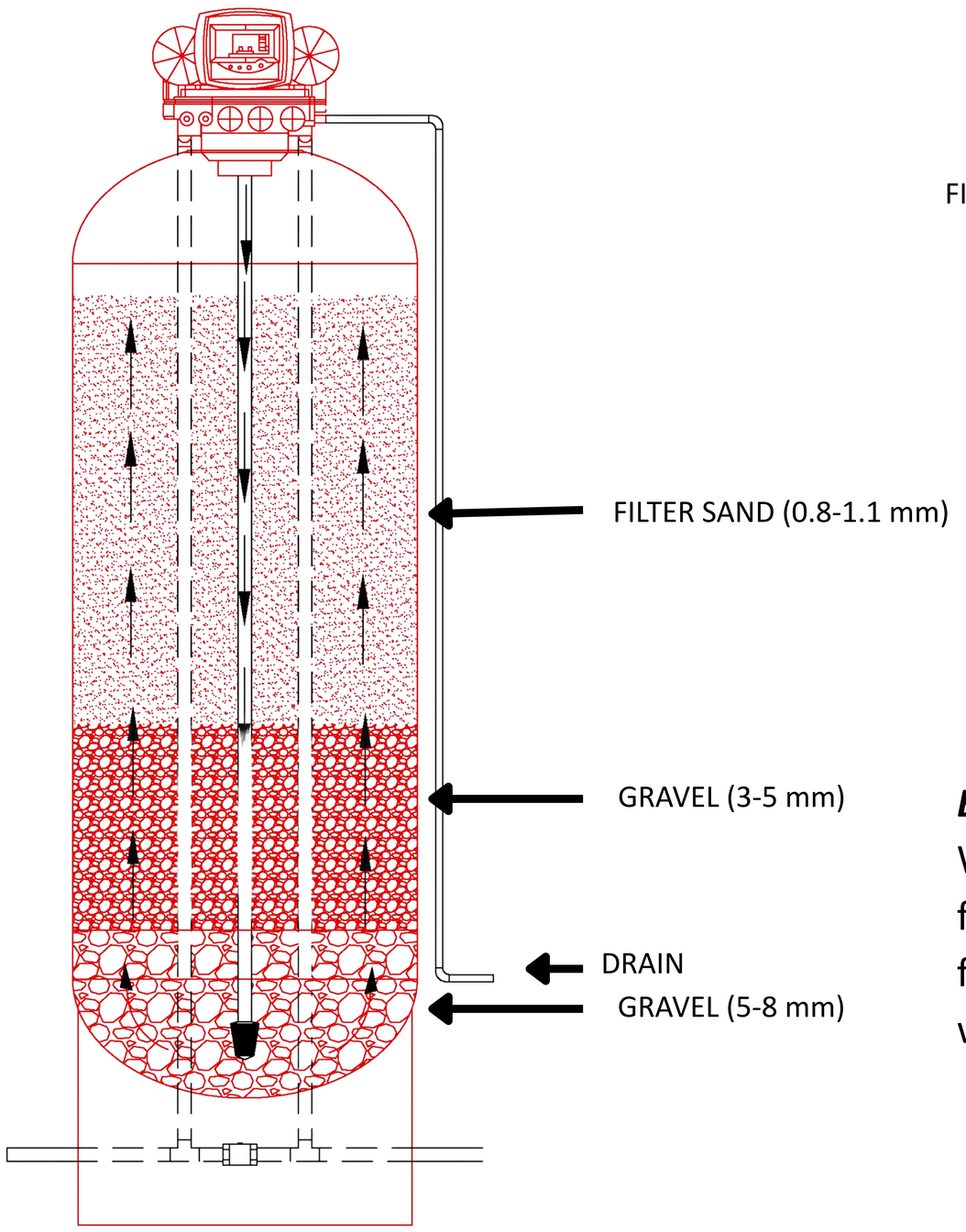
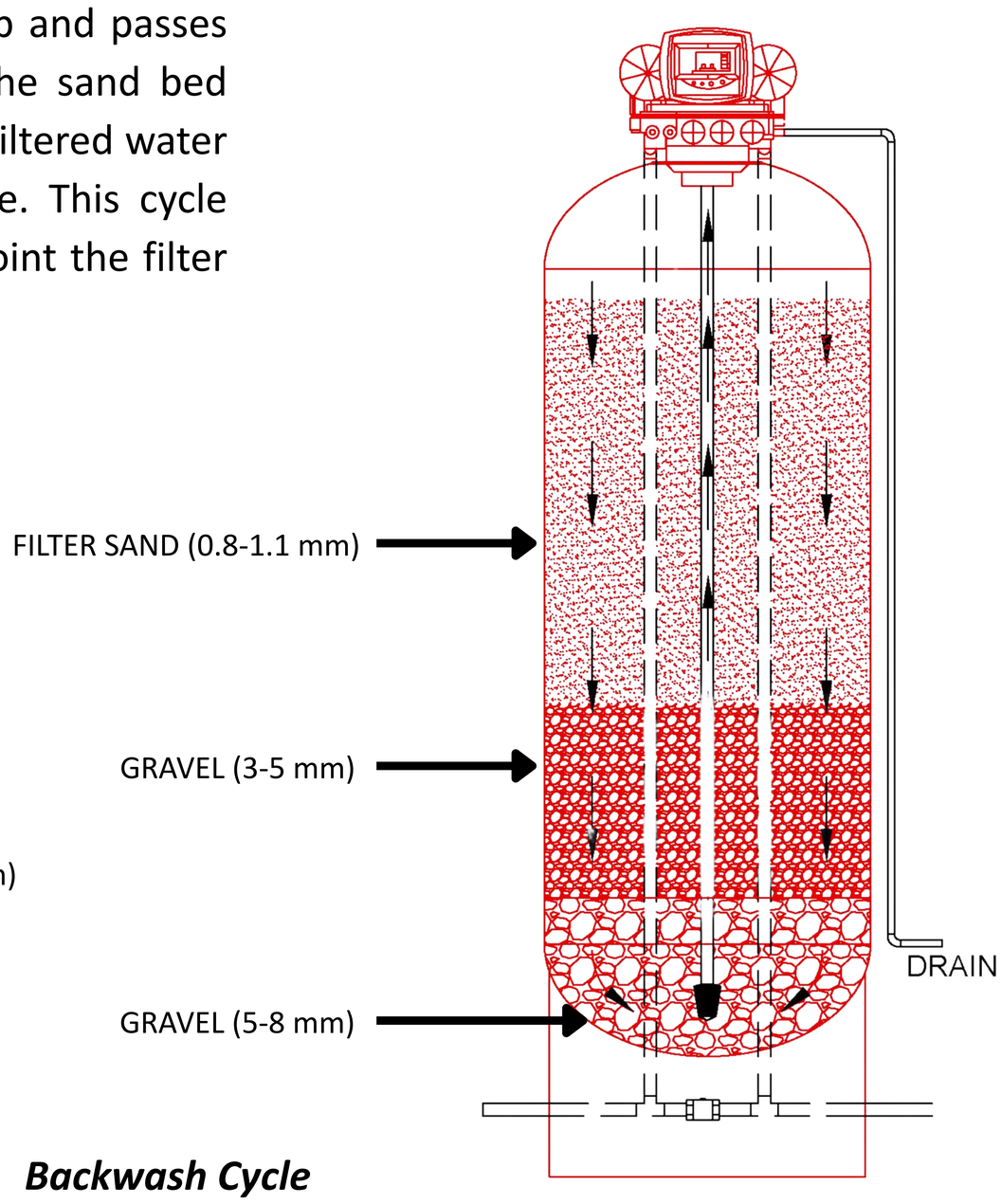
SEQUENCE OF OPERATION

Service Cycle

A filter service cycle begins when water enters the top and passes down through the layers of filter sand and gravel. The sand bed traps the suspended particles, cleaning the water. The filtered water then collects in the bottom drain and is sent for use. This cycle continues until the sand becomes clogged, at which point the filter is backwashed to clean it.





Backwash Cycle

When the sand becomes clogged, the backwash cycle cleans the filter by reversing the flow; water is pumped upwards, lifting and fluidizing the filter media to flush out the trapped debris through a waste drain, preparing the filter for the next service cycle.

Multimedia Sand Filtration

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