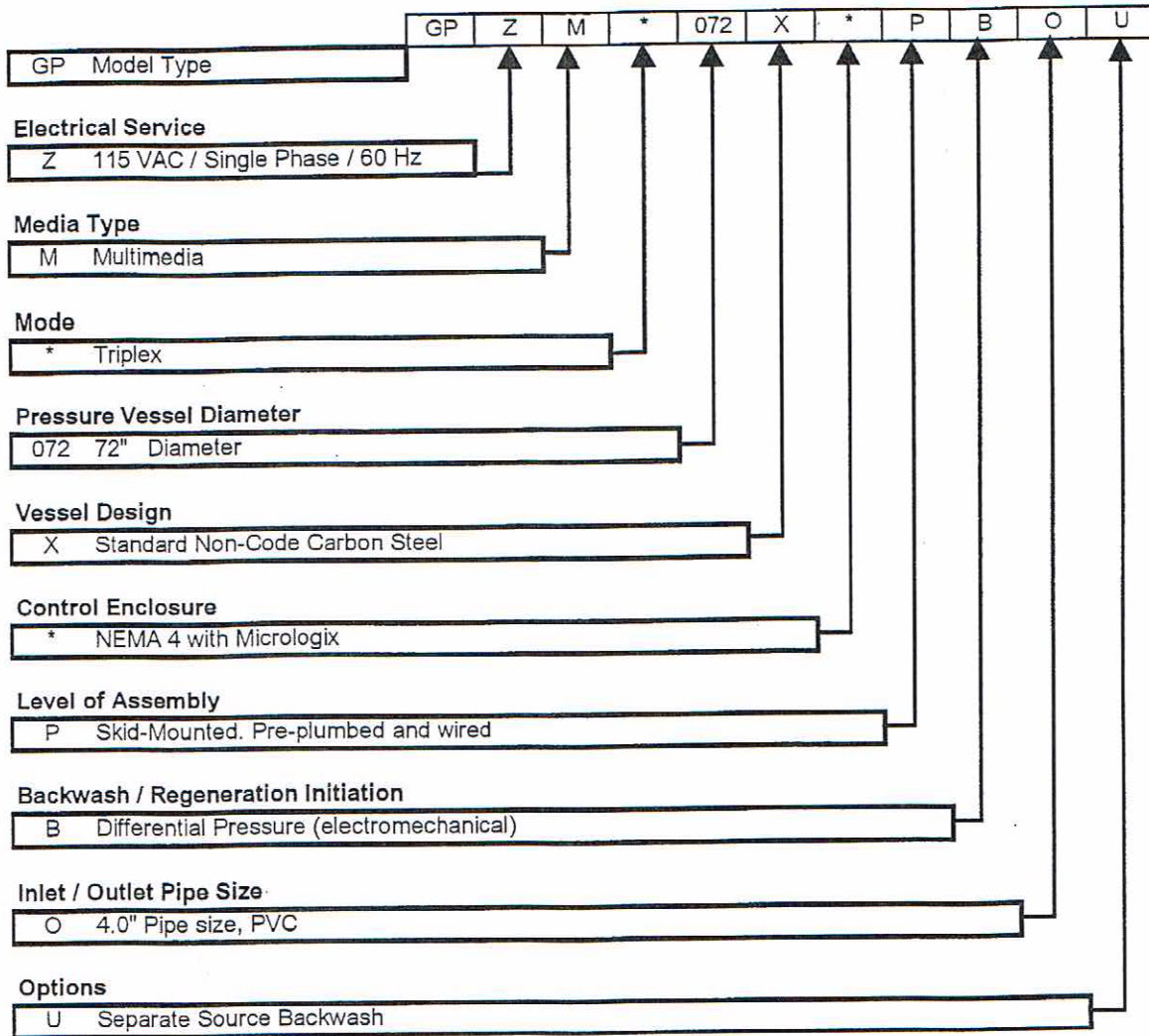


Product Number Matrix GP Series Multimedia Filters

The following chart explains your product description number.



1.1.2 Options Included

NEMA 4 differential pressure controller, 115 VAC.

The differential pressure controller utilizes a pressure switch, which initiates backwash at a pre-identified set point. The differential pressure controller is standard on all duplex systems and operates in a sequential mode.

Skid Mounting. The units are mounted on a common skid

Separate Source Backwash. The units use a separate source for backwash water.

1.2 SYSTEM DESIGN SPECIFICATIONS

This subsection contains design specifications for your U.S. Filter Multimedia Filter. For the specifications of individual components used on the system, refer to the component's instruction sheets in section 8.5.

For more information on the GP Series Multimedia Filter and its components, refer to the remainder of this section (1.0), to the parts lists in section 7.0, and to the manufacturer's instructions in section 8.5.

1.2.1 Technical Specifications

Pressure Vessel Construction

Material.....	Carbon steel
Shell sidesheet.....	60"
Vessel diameter.....	72"
Top head.....	Flanged and dished
Bottom head.....	Flanged and dished
ASME code stamped.....	No
Seismic Zone 4 rated.....	No
Top Access.....	one 11" x 15" opening
Media removal (side).....	two 4" x 6" openings
Interior lining.....	10-12 mils (2 coats) sprayed epoxy, color white
Exterior finish.....	5-7 mils sprayed epoxy blue Devco Devron 250
Lifting lugs.....	two
Floor support.....	(4) Structural steel legs with integral drilled steel pads mounted on a common skid.

Internal Distributors

Influent distributor (top).....	galvanized steel pipe inlet distributor
Underdrain distributor (bottom).....	PVC hub radial with drilled laterals

Face Piping

Pipe material.....	PVC pipe
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Valves

Control valves

Quantity.....	five
Type:.....	diaphragm valves only up to 4", 6" and larger are butterfly valves
Actuators:.....	hydraulically- or pneumatically-operated valves
Stager (pilot) valve.....	one brass 4-position stager, controlled by cycle timer
Sample valves.....	one on the automatic outlet valve

Instrumentation

Pressure Gauges

Quantity:..... one per vessel
 Location:..... one pressure gauge on the inlet
 Type: 0-100 psi pressure gauge

Electrical and Controls

Enclosure rating NEMA 4
 Electrical 120 Volts AC / 1 Phase / 60 Hertz / 5 Amps / 10
 Watts - standard,
 Cycle Timer electromechanical timer with differential pressure
 (D/P) initiation
 Backwash flow control one self-adjusting, located on backwash drain line

Vessel Media and Subfill Volumes

Vessel Media and Subfill Volumes (listed in order loaded - bottom to top)							
Tank Dia. (in)	Subfill (ft ³)				Vessel Media (ft ³)		
	3/4" x 1/2" quartz	1/2" x 1/4" quartz	1/4" x 1/8" quartz	#8-12 garnet	#30-40 garnet	#20 quartz (sand)	0.85-0.95 mm Anthracite
72	18.0	7.0	7.0	7.0	9.5	18.5	42.0

Dimensions and Weights

Dimensions and Weights (approximate)						
	Tank Diameter (in.)	Length (in.)	Width (in.)	Height (in.)	Shipping Weight (lb.)	Operating Weight (lb.)
triplex	72	21' 4"	8' 10"	9' 3"	40,000	85,000

1.2.2 Process Specifications

Flow Rates

Flow Rates						
Tank Diameter (in)	Stand Alone Pretreatment Flow Rates (GPM)*			RO Pretreatment Flow Rates (GPM)		Backwash/Rinse Flow Rates (GPM) @ 30-100 psig
	Min.	Normal	Max.	Min.	Max.	
72	277	416	554	190	226	424

* Minimum, normal and maximum flow based on 10, 15, and 25 gpm/ft² respectively.

Step Times

Refer to the Control Write-Up in section 3 of the manual.

Pressures and Temperatures

Maximum inlet pressure: 100 psig (7 kg/cm²)

Maximum inlet temperature: 100 °F (37.8 °C)