

FILTERSORB SP 3 SYSTEM – DUPLEX (TWO VESSELS IN PARALLEL)



3 LITERS OF FILTERSORB SP 3
TREATS 1 CUBIC METER
OF WATER
(Conversion Basis)

PRESSURE VESSEL: COMPOSITE C 2469

UPFLOW OPERATION – TOP & BOTTOM DISTRIBUTION SYSTEM

INCLUDING GRANITE MEDIA IN BOTTOM DISTRIBUTION SYSTEM

SYSTEM SPECIFICATIONS

System Type	: Duplex (Two Vessels in Parallel)
Operation	: Upflow
Vessel Model	: Composite C 2469
Vessel Size	: 24" Ø x 69" Straight Side
Total Media Volume per Vessel	: 100 Liters (FilterSorb SP 3)
Media Type	: FilterSorb SP 3
Top Distribution	: Yes (Lateral System)
Bottom Distribution	: Yes (Lateral System with Granite)
Inlet / Outlet	: 2" Flanged
Design Pressure	: 150 PSI (10.3 bar)
Design Temperature	: 50 °C
Piping Material	: PVC / CPVC / UPVC (Schedule 80)
Flow Direction	: Upflow (Bottom Inlet → Top Outlet)
System Operation	: Lead / Lag (Manual / Automatic)
Recommended Flow Range*	: 2 – 4 m ³ /hr per vessel

*Flow range depends on application and water quality.

FILTERSORB SP 3 MEDIA

Media Volume per Vessel	: 100 Liters
Bulk Density (approx.)	: 0.85 – 0.95 g/cc
Bed Depth (approx.)	: 650 – 700 mm
Application	: Arsenic, Heavy Metals, Fluoride & general water treatment

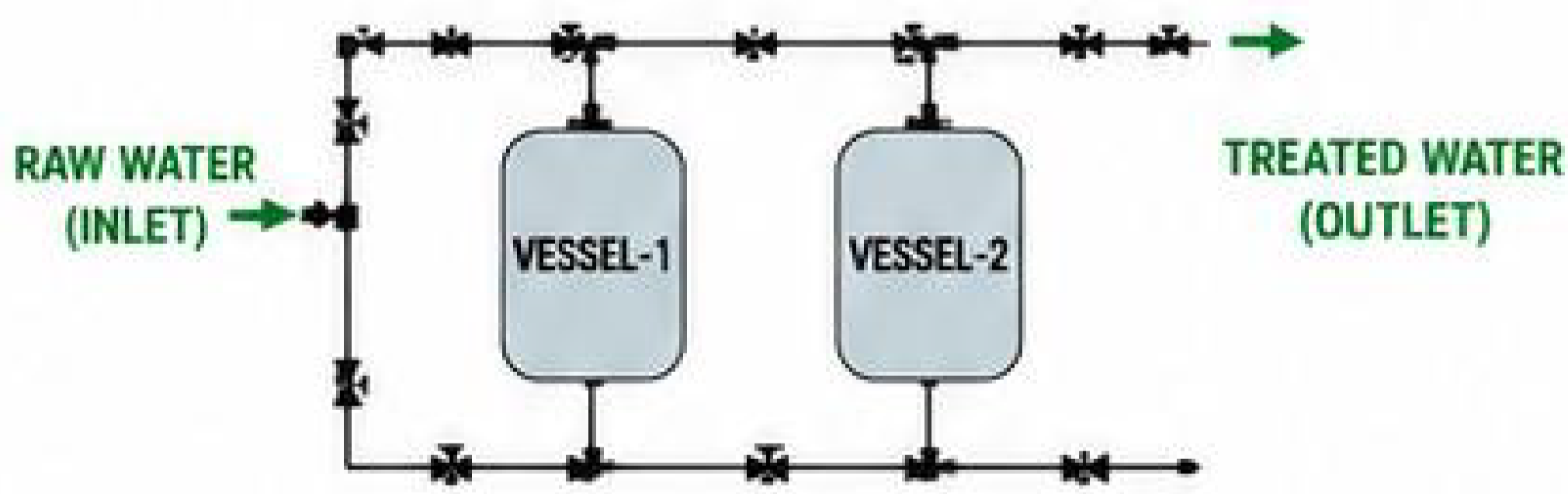
GRANITE MEDIA (SUPPORT LAYER)

Media Type	: Granite (Natural)
Size	: 6 – 12 mm
Function	: Support layer to prevent media loss and ensure uniform water distribution

CALCULATION (BASED ON 3 LITERS FILTERSORB SP 3 TREATS 1 m³ OF WATER)

Media Volume per Vessel	: 100 Liters
Treatment Capacity per Vessel	: 100 ÷ 3 = 33.33 m ³
Total Treatment Capacity (2 Vessels)	: 66.67 m ³
In Gallons (1 m ³ = 264.172 US Gallons)	
• Per Vessel	: 33.33 m ³ × 264.172 = 8,805 Gallons
• Total (2 Vessels)	: 66.67 m ³ × 264.172 = 17,610 Gallons

FLOW DIAGRAM (UPFLOW)



DIMENSIONS (APPROX.)

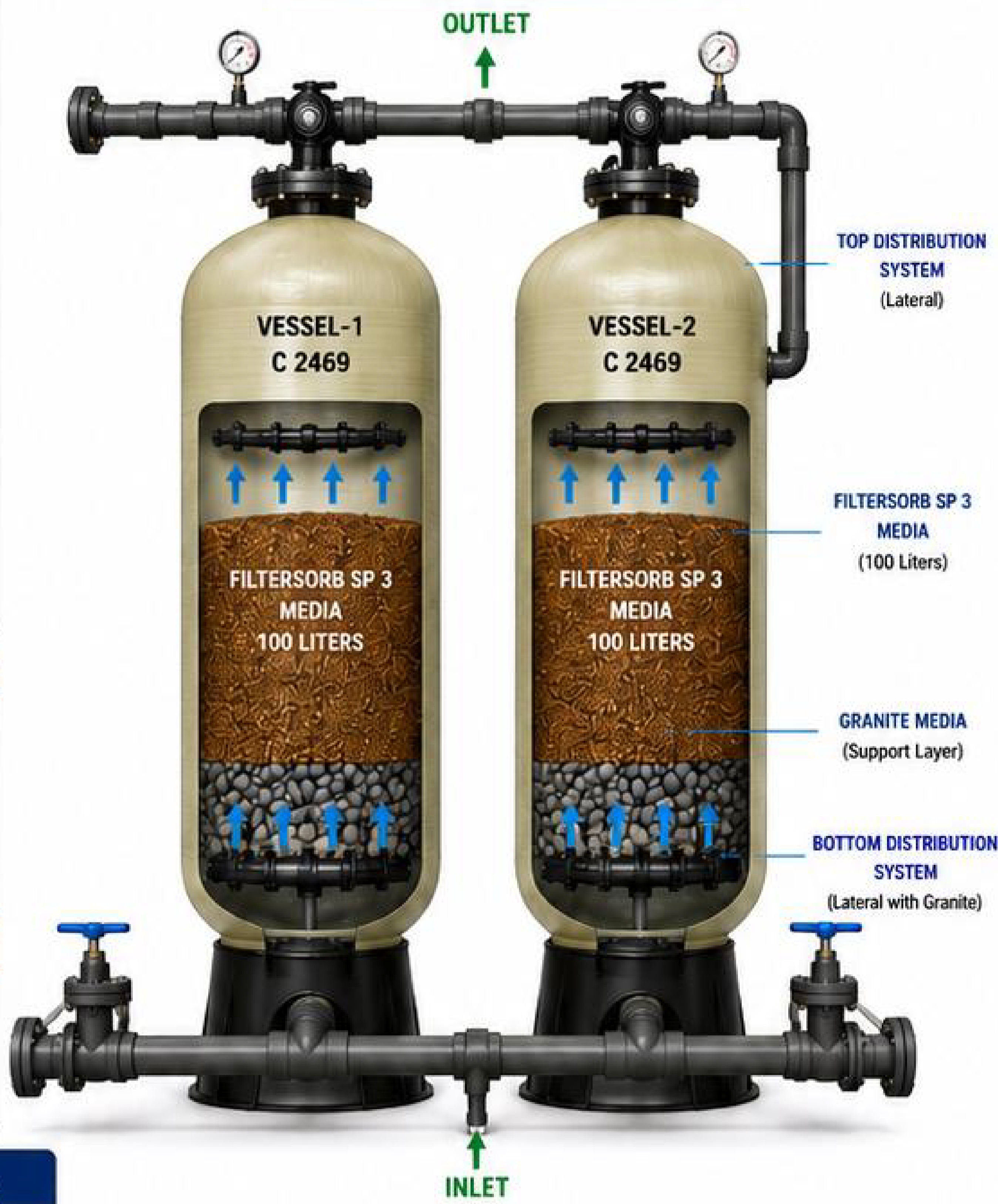
Vessel Size	: 24" Ø x 69"
Total Height (with valve)	: ~ 2100 mm
Inlet/Outlet Center to Center	: ~ 1850 mm
Floor Space (Duplex)	: ~ 1500 mm (W) x 1000 mm (D)

Note: Dimensions may vary with valve selection and piping configuration.

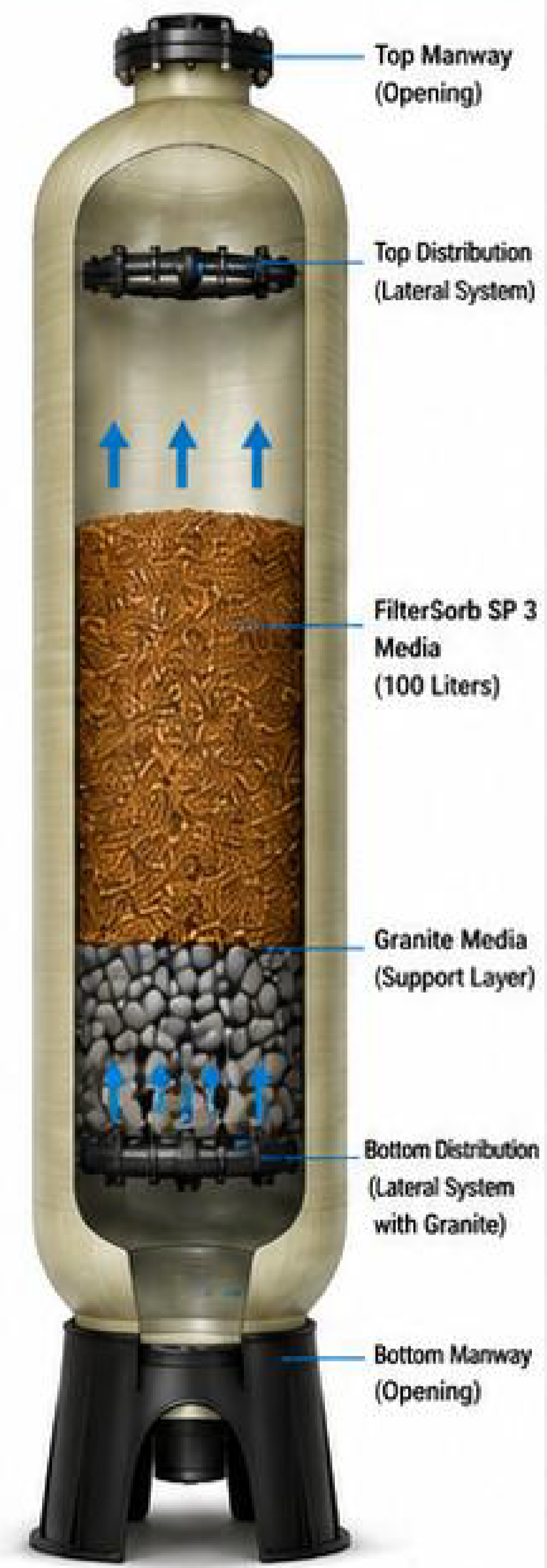
SYSTEM PIPING & CONNECTIONS

Inlet	: 2" Flanged
Outlet	: 2" Flanged
Vent / Air Release	: 1/2"
Drain	: 1/2"
Pressure Gauge	: 0 – 150 PSI
Sampling Port	: 1/2"

FRONT VIEW – SYSTEM LAYOUT



TYPICAL VESSEL (UPFLOW) INTERNAL VIEW



OPERATION MODE

Mode	Vessel-1	Vessel-2	Description
Normal (Lead / Lag)	IN SERVICE (LEAD)	STANDBY (LAG)	Vessel-1 treating water, Vessel-2 on standby
Alternate	STANDBY (LAG)	IN SERVICE (LEAD)	Vessel-2 treating water, Vessel-1 on standby
Maintenance / Backwash	ISOLATED	IN SERVICE	One vessel offline for backwash or maintenance

Note: Backwash flow rate recommendation: 15 – 20 m³/hr per vessel (upflow)
Backwash duration: 10 – 15 minutes or as per water quality.



SCAN FOR MORE INFORMATION

TOTAL TREATMENT CAPACITY (SYSTEM)



66.67 m³
(CUBIC METERS)
Total (2 Vessels)



17,610
Gallons
(US GALLONS)
Total (2 Vessels)

PER VESSEL CAPACITY
33.33 m³
(CUBIC METERS)
= 8,805 Gallons (US GALLONS)

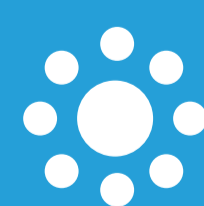
PER VESSEL CAPACITY
33.33 m³
(CUBIC METERS)
= 8,805 Gallons (US GALLONS)

**CLEANER WATER.
SAFER TOMORROW.**

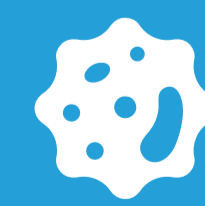
Reliable filtration. Sustainable Solutions.



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