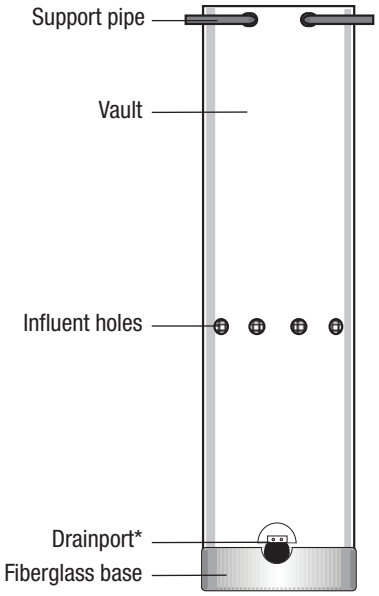
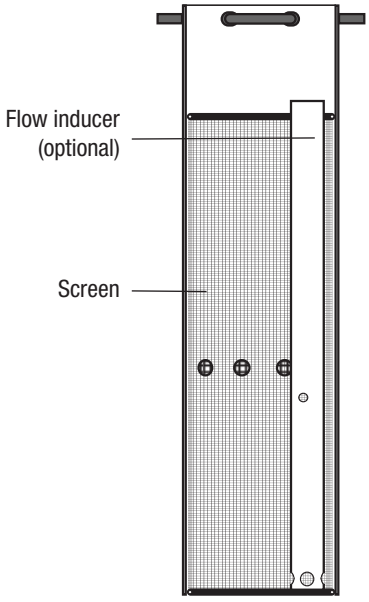
Screened Vaults

Applications

Orenco Screened Vaults are used to screen effluent being pumped from septic tanks in on-site wastewater disposal systems. When pumping from a single compartment septic tank, the discharge rate should not exceed 30gpm (1.9L/sec). Higher flow rates require a multiple tank arrangement, typically with an effluent filter in the primary tank.



Side view



Side cutaway view

**Screened Vaults that are taller than 60in (1524mm) and have inlet holes higher than 12in (305mm) from the bottom are equipped with two drainports.*

General

Orenco Screened Vaults are composed of a rigid cylindrical vault with a base, a screen with a nominal open area of 50%, and two support pipes. Effluent enters through eight influent holes around the perimeter of the vault and flows through the screen to the effluent pump.

Flow inducers are required in screened vaults when using high head turbine pumps. A flow inducer consists of a section of 4in (100mm) PVC pipe with four 1 3/8inch (35mm) holes drilled around the perimeter at the base and two 1/2in (13mm) orifices drilled near the center of the flow inducer.

Standard Models

SV1548-12, SV1548-16

Product Code Diagram

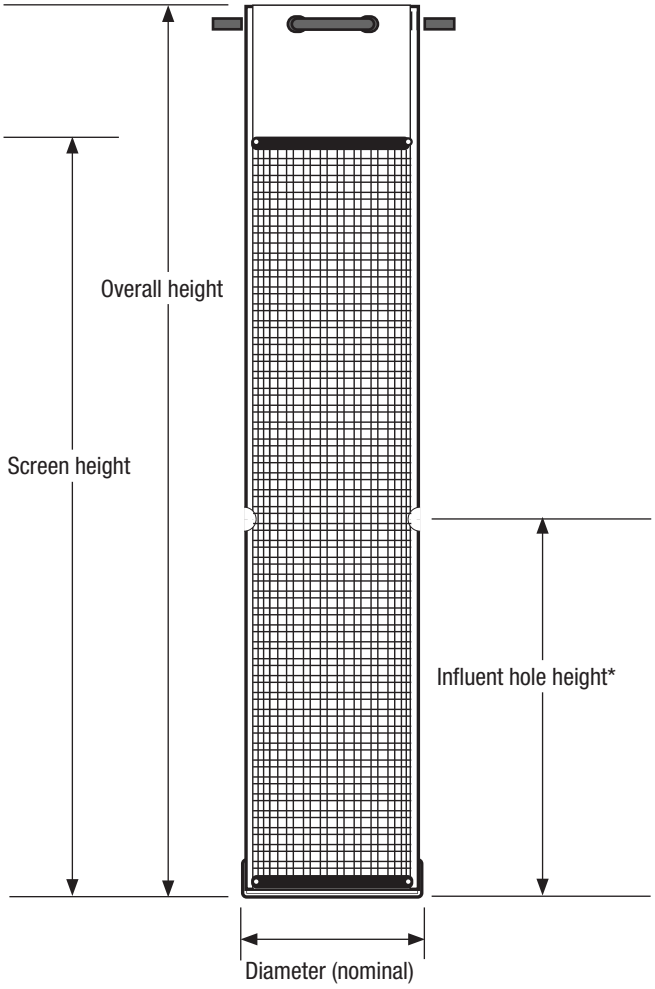
SV 15 48 ☐ - ☐

- SV: Orenco® Screened Vault
- 15: 15in (381mm) vault height
- 48: 48in (1219mm) vault height
- ☐: Flow inducer: Blank = no flow inducer; FI = flow inducer
- ☐: Inlet hole height, standard: 12 = 12in (305mm); 16 = 16in (406mm)

Not all product code configurations may be available as standard products.

Materials of Construction

Vault	PVC irrigation pipe per SCS 432E
Screen top	Polyurethane
Screen body	Polyethylene mesh with UV stabilizer
Base	Fiberglass
Support pipe	Schedule 80 PVC
Flow inducer (optional)	PVC



Specifications

Dimensions, in (mm)	SV1548-16
Diameter, nominal	15 (375)
Overall height	48 (1219)
Mesh screen height	39 (991)
Influent hole height*	16 (406)
Mesh screen opening	0.125 (3.2)

**Influent hole height may vary depending upon the configuration of the tank. Optimum hole height is at 70% of the minimum liquid level for single-compartment tanks.*