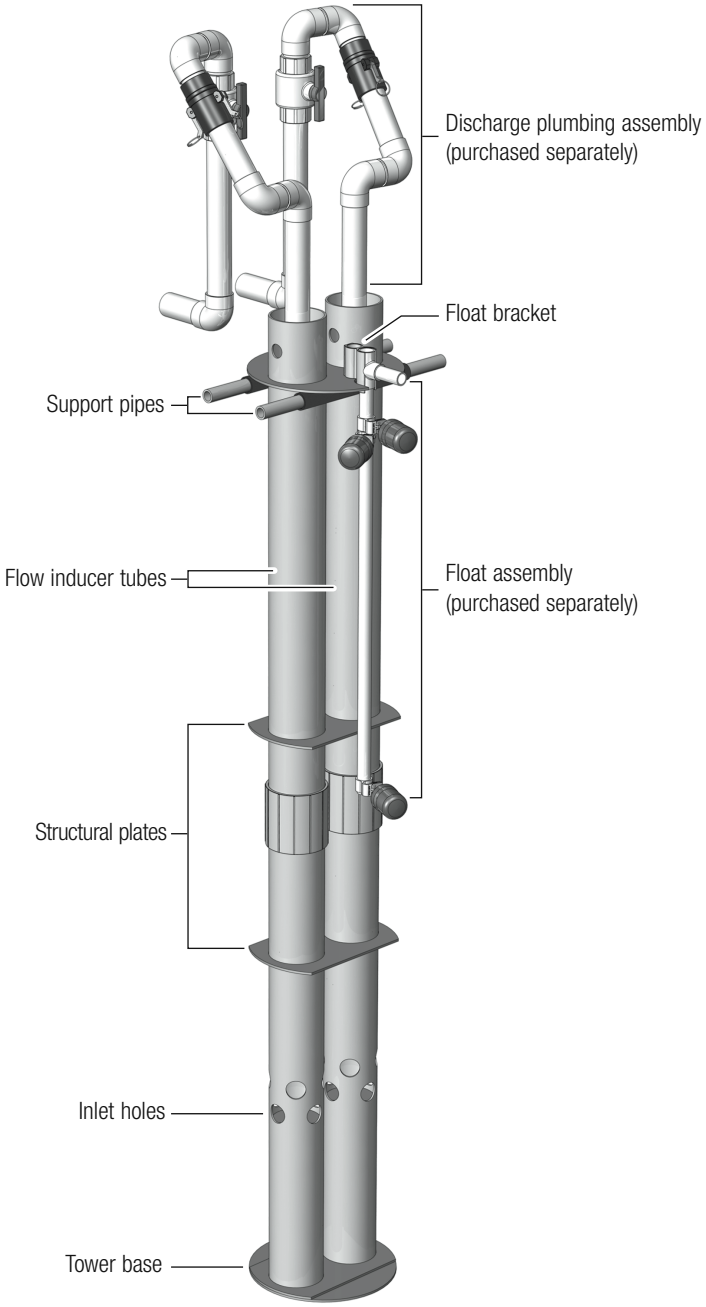
Orenco SYSTEMS

Technical Data Sheet

Flow Inducer Towers

Applications

Orenco® flow inducer towers are designed for use in commercial/ municipal recirculation and final discharge tanks following secondary treatment, where filtration is not required. Flow inducer towers can be ordered to house from two to five of Orenco's 4-in. submersible effluent pumps.



Orenco® flow inducer tower (Duplex model shown)

General

The base of the flow inducer tower rests on the bottom of the tank and the top of the flow inducer tower extends at least eight inches into the riser. For tanks with curved bottoms, an Orenco vault basin (VB1806-FRP) is necessary to create a flat surface on which the flow inducer tower can rest. The pumps sit on raised fiberglass platforms inside of the 5-inch (127-mm) diameter Class 125 flow inducer tubes.

A float bracket is attached to the tower to accommodate an Orenco float assembly.

Standard Models

Recirculation Tank Models:
FITR-D102, FITR-T102, FITR-Q102, FITR-P102
FITR-D126, FITR-T126, FITR-Q126, FITR-P126

Discharge Tank Models:
FITD-D102, FITD-T102, FITD-Q102, FITD-P102
FITD-D126, FITD-T126, FITD-Q126, FITD-P126

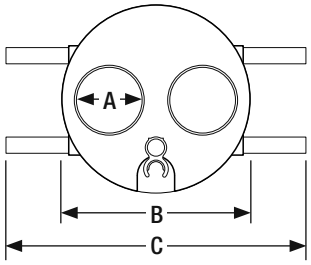
Product Code Diagram

FIT ☐ - ☐ ☐

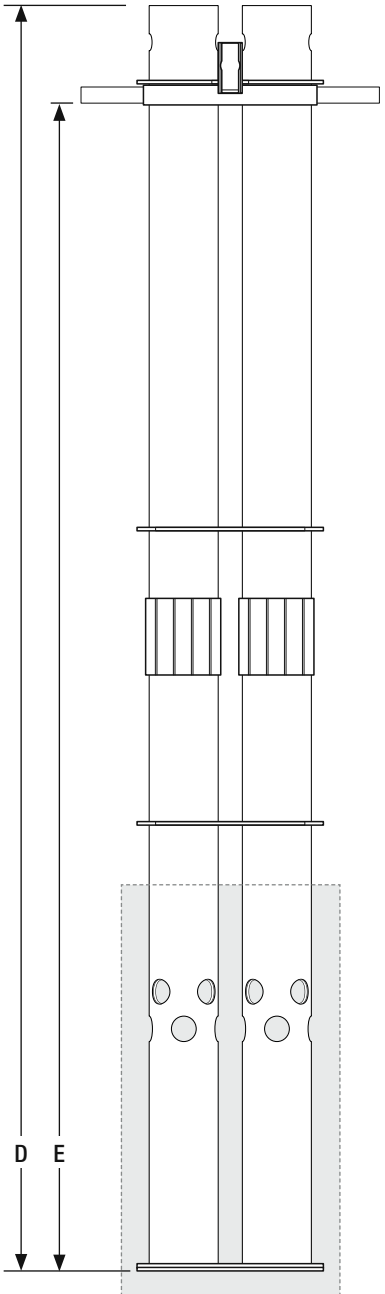
- Height:
  102 = 102" (2590 mm)
  126 = 126" (3200 mm)
  Or specify custom size
- Flow inducers:
  D = duplex (houses two pumps)
  T = triplex (houses three pumps)
  Q = quad (houses four pumps)
  P = pentad (houses five pumps)
- Tank type:
  R = recirculation tank
  D = discharge tank
- Flow inducer tower

Materials of Construction

Support pipes	Schedule 80 PVC
Float bracket	PVC
Flow inducer tubes	PVC
Structural plates	Fiberglass
Tower base	Fiberglass



Top view, Orenco flow inducer tower (Model FITR-D102 shown)



Side view, Orenco flow inducer tower (Model FITR-D102 shown)

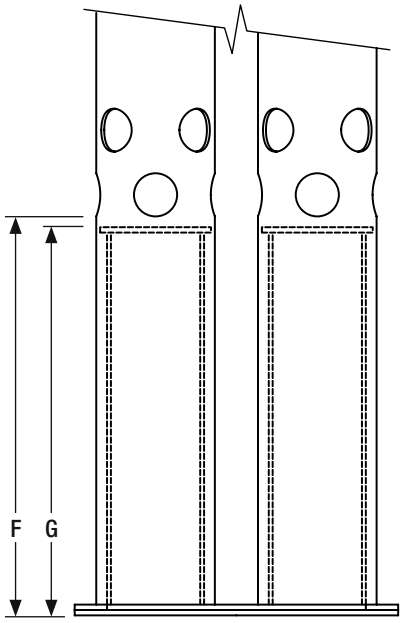
Specifications

Recirculation Tank Examples

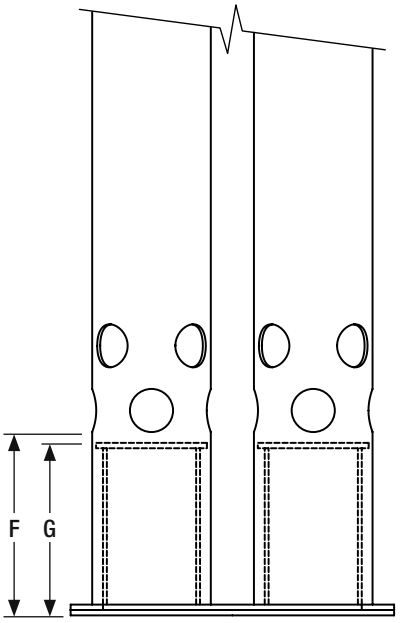
Dimensions, in. (mm)	FITR-D102	FITR-T126	FITR-Q102	FITR-P126
Number of tubes	2	3	4	5
A - Tube diameter, nominal	5.00 (125)	5.00 (125)	5.00 (125)	5.00 (125)
B - Structural plate diameter	15.00 (381)	15.00 (381)	17.00 (432)	17.00 (432)
C - Support pipe length	24.00 (610)	24.00 (610)	24.00 (610)	24.00 (610)
D - Tower height	102.00 (2590)	126.00 (3200)	102.00 (2590)	126.00 (3200)
E - Support pipe height	94.75 (2407)	118.75 (3016)	94.75 (2407)	118.75 (3016)
F - Inlet hole height	19.25 (489)	19.25 (489)	19.25 (489)	19.25 (489)
G - Pump plate height	19.00 (483)	19.00 (483)	19.00 (483)	19.00 (483)
Inlet hole diameter	2.00 (50)	2.00 (50)	2.00 (50)	2.00 (50)
Inlet holes per tube	8	8	8	8

Discharge Tank Examples

Dimensions, in. (mm)	FITD-D102	FITD-T126	FITD-Q102	FITD-P126
Number of tubes	2	3	4	5
A - Tube diameter, nominal	5.00 (125)	5.00 (125)	5.00 (125)	5.00 (125)
B - Structural plate diameter	15.00 (381)	15.00 (381)	17.00 (432)	17.00 (432)
C - Support pipe length	24.00 (610)	24.00 (610)	24.00 (610)	24.00 (610)
D - Tower height	102.00 (2590)	126.00 (3200)	102.00 (2590)	126.00 (3200)
E - Support pipe height	94.75 (2407)	118.75 (3016)	94.75 (2407)	118.75 (3016)
F - Inlet hole height	9.25 (235)	9.25 (235)	9.25 (235)	9.25 (235)
G - Pump plate height	9.00 (229)	9.00 (229)	9.00 (229)	9.00 (229)
Inlet hole diameter	2.00 (50)	2.00 (50)	2.00 (50)	2.00 (50)
Inlet holes per tube	8	8	8	8



Close up, flow inducer tower for recirculation tanks (Model FITR-D102 shown)



Close up, flow inducer tower for discharge tanks (Model FITD-D102 shown)

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