



TFSP Centrifugal Separator Project Specifications

150 PSI MAX • 120°F MAX • SEPARABLE SOLIDS TO 50 MICRONS

Model Number	Flow Rate @ 75'TDh	Pump HP	Connection		Purge Size
			Inlet*	Outlet	
TFSP-0065	65	3	2" fpt	1-1/2" mpt	3/4" fpt
TFSP-0080	80	3	2-1/2" flng	2" mpt	3/4" fpt
TFSP-0100	100	5	3" flng	2-1/2" mpt	3/4" fpt
TFSP-0200	200	7.5	4" flng	3" flng	1-1/2" fpt
TFSP-0350	350	10	6" flng	4" flng	1-1/2" fpt
TFSP-0450	450	15	6" flng	5" flng	1-1/2" fpt
TFSP-0800	800	25	8" flng	6" flng	2" fpt
TFSP-1200	1200	30	10" flng	8" flng	2" fpt

TOWER-FLO® Centrifugal Separators are available in three models and shall consist of the following major components:

- Model TFS - separator only
 - Model TFSP - separator, automatic purge controls, pump, motor and motor controls
 - Model TFSR - separator, pump, motor, motor controls and continuous, zero discharge purge to a recovery bag filter.
- Each centrifugal separator shall be shipped as a complete factory assembled and tested unit.

Project: _____ Date: _____

The TOWER-FLO® Centrifugal Separator being specified for this project is a Model **TFSP**-_____ with a flow rate of _____ GPM. ____ unit(s) are specified and each unit shall be equipped with the following components:

COMPONENT SPECIFICATION

SEPARATOR _____ **Standard:** _____", _____ inlet and outlet connections, Sch 40 steel construction; exterior primer after wire brush cleaning; exterior finish coating of industrial grade enamel; 150 PSI maximum operating pressure; 120°F maximum operating temperature, _____ clean out port; inlet/outlet pressure gauges; _____" plugged port for air bleed (valve not included); and _____" fpt purge connection.

- _____ **Option:** stainless steel construction.
- _____ **Option:** ASME Code Stamped for MAWP of 150 PSIG @ 210°F.
- _____ **Option:** Maximum operating pressure of _____ PSI.
- _____ **Option:** Maximum operating temperature of _____°F.
- _____ **Option:** 22-1/2° mounting stand.

PURGE _____ **Standard:** _____" Automatic purge valve assembly factory plumbed and wired. Includes: a 2-way brass ball valve with 24 VAC fail-safe actuator that closes in the event of power failure; a 2-way manual brass ball valve for isolation; clear PVC pipe for viewing purge liquid clarity; all fittings for complete installation to separator purge connection; purge control timer in control panel.

BASE _____ **Standard:** skid base fabricated of structural steel channel and/or tube, primed and coated (same as separator coatings).
 _____ **Option:** 2" drip pan fabricated of structural steel angle and plate, primed and coated (same as separator coatings).
 _____ **Option:** skid or drip pan base of stainless steel construction.

PUMP _____ **Standard:** Non self-priming; standard fitted, horizontal flooded suction, close coupled to a TEFC motor; and capable of _____ GPM at _____ feet TDH.
 _____ **Option:** Self-priming; close-coupled to motor; specified as follows:
 _____ and capable of _____ GPM at _____ feet TDH.



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MOTOR ___ **Standard:** Three phase; 60 Hz; TEFC; class 30 cast iron case; NEMA jm frame; rated at a service factor of 1.15 at 40°C over ambient; ___ HP; UL and CSA listed; at the following VAC, phase and Hz: _____.
___ **Option:** 575V.

STRAINER ___ **Standard:** ___", cast iron body; stainless steel basket; bolted cast iron cover with gasket; with necessary eccentric reducer for pump connection; and gaskets, bolts and nuts necessary for complete factory assembly.

CONTROLS ___ **Standard:** UL®/cUL® Listed control panel with: NEMA 4X enclosure, IEC motor starter with running light and overload protection; transformer to convert primary supply to 120 VAC control power and 24 VAC power supply for automatic purge valve; fused branch and control circuit protection; through-the-door power disconnect; pump HOA switch with contacts for remote pump on/off from building management system; purge duration and frequency control timer; and manual purge push-button.
___ **Option:** CSA Listed control panel.

OTHER OPTIONAL COMPONENTS:

ISOLATION VALVE ___ **Option:** Inlet _____.
 ___ **Option:** Outlet _____.

NOZZLES ___ **Sweeper-Eductor Nozzle**, 1/4" MPT, ABS plastic, quantity of _____.

HOLDERS ___ **Clip-On Nozzle Holder**, quantity of _____; for ___ 1-1/4"; ___ 1-1/2"; or ___ 2" PVC pipe.