



TFSR 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	
TFSR-0065	65	3	2" fpt	1.5" mpt	3/4" fpt
TFSR-0080	80	3	2.5" flng	2" mpt	3/4" fpt
TFSR-0100	100	5	3" flng	2.5" mpt	3/4" fpt
TFSR-0200	200	7.5	4" flng	3" flng	1-1/2" fpt
TFSR-0350	350	10	6" flng	4" flng	1-1/2" fpt
TFSR-0450	450	15	6" flng	5" flng	1-1/2" fpt
TFSR-0800	800	25	8" flng	6" flng	2" fpt
TFSR-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 **TFSR-**_____ 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 _____ PSIG @ _____°F.
- ___ **Option:** Maximum operating pressure of _____ PSI.
- ___ **Option:** Maximum operating temperature of _____°F.
- ___ **Option:** 22-1/2° mounting stand.

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.

MOTOR ___ **Standard:** Three phase; 60 Hz; TEFC; NEMA 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.
- ___ **Option:** _____ High efficiency _____%; _____ Premium efficiency _____%



TFSR Centrifugal Separator Project Specifications

COMPONENT SPECIFICATION

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 and/or 24 VAC control power; 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 Recovery adds bag monitor alarm to alert operator and building management system when Purge Recovery filter bag needs changing; including: local "Replace Filter" alarm light and alarm horn with silence button.
___ **Standard:** Soft start motor starter for 40 HP and larger pump motors.
___ **Option:** CSA® Listed control panel.

PURGE RECOVERY VESSEL ___ **Standard:** Bag filter factory plumbed from separator purge connection to pump suction; stainless steel bag filter vessel with ___" fpt inlet and outlet connections; 3/4" fpt drain; stainless steel basket; Buna gasket; eye-bolt lid; and one standard #2, 25 micron polyester filter bag; factory installed purge-outlet-to-bag-filter-inlet piping; bag-filter-outlet-to-pump-suction piping;
___ **Option:** Quantity of ___ additional filter bags, ___ micron rated.
___ **Option:** ASME Code Stamped for MAWP of ___ PSIG @ ___°F.

OTHER OPTIONAL COMPONENTS:

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

PURGE VALVE ___ **Option:** ___" Automatic purge valve assembly factory plumbed and wired to control panel. 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; add purge control timer in control panel.

EFFLUENT POLISHING FILTER ___ **Option:** Cartridge filter factory plumbed from separator outlet to pump suction; stainless steel cartridge filter vessel, Buna gasket, positive lock cover clamp, with ___" fpt inlet and outlet connections, quantity of ___, ___ micron rated cartridge with Buna gaskets, spiral wound, 100 PSI MAWP and 300° F MAWT.
___ **Option:** Quantity of ___ additional cartridges, ___ micron rated.
___ **Option:** ASME Code Stamped for MAWP of ___ PSIG @ ___°F.