

**Select From 3"-10" Sizes. Pump up to 3500 GPM.
Empower Your Application With The Trash Flow.**

- Top quality Wastecorp engineering
- Select from skid mounted, trailer mounted and silent pumps
- Engines from the industry's most reputable manufacturers
- Solids handling and clean water impeller options



Optional Equipment/Accessories

- Check valve
- Casing heater
- Suction and discharge gauges
- Spare parts kit
- Pump maintenance kit
- John Crane mechanical seals
- Optional elastomers and materials including EPDM, neoprene, Viton and more.
- John Deere®, CAT®, Deutz® diesel, engines
- DOT approved highway package

Performance Range

Capacity range	460-3500 GPM
Available sizes	3"-10"
Max. head	135 ft.
Max. temp.	160 °F (71 °C)
Max. solids (in)	3"
Max. operating pressure	90 psi
RPM range	650-2400

Materials of Construction

Main casing	A48CL30
Impeller	A60-40-18
Wear plate	SAE1020
Cover plate	A48CL30
Bearing housing	A48CL30
Seal plate	A48CL30
Flapper valve	Neoprene
Shaft sleeve	ANSI 4140 HT
Impeller shaft	A48CL30
Mechanical seal	<ul style="list-style-type: none"> • Oil-Lubricated double floating • Casing and spring SS316 • O'rings in Buna & Viton, • Faces in titanium and tungsten carbide
Inlet/outlet flanges	A48CL30
Gaskets	Buna



Shown: Deutz diesel engine panel with automatic start and lockable controls during unsupervised operation.

PART A - GENERAL SPECIFICATION

The pumping units required under this Section shall be complete including pumps, engines etc. A quantity of _____ horizontal, self-priming centrifugal type pump(s) engine- driven, with inch _____ suction and discharge connection, capable of GPM against a maximum total discharge head of _____ feet, including a maximum total dynamic suction lift of _____ feet and a maximum re-prime lift of feet. The pump shall permit the passage of a minimum sphere size of _____ inch in diameter. Pump shall be a Wastecorp Trash Flow self-priming centrifugal engine driven pump, model: _____, as manufactured by Wastecorp Pumps.

PART B – PUMP CONSTRUCTION

ADJUSTABLE WEAR PLATE: The pump shall be constructed with a back pull-out design, such that the rotating element can be withdrawn from the pump casing without disconnecting suction or discharge piping. The pump shall have a sliding and locking wear plate carrier located at the front of the pump casing for adjustment of impeller to wear ring tolerance. The wear plate carrier shall be axially adjustable without the use of shims. External jackscrews located on the mounting plate shall allow the carrier to shift and lock the mechanism in any pre-determined horizontal direction.

IMPELLER: The impeller shall be no less than _____ inch diameter, 2-vane, semi-open, non-clog, ductile iron construction with integral pump-out vanes on the back shroud. The impeller shall be keyed to the tapered 316L stainless steel shaft, and secured with a locknut and washer. Impeller shall be computer-balanced at the specified output speed.

MECHANICAL SEAL: The pump shaft shall be sealed against leakage by a 'non- fretting' type mechanical seal. Both the stationary sealing member and mated rotating member shall be of silicon carbide alloy. The mechanical seal shall be cartridge style, oil cooled, lubricated and installed within a separate oil filled reservoir between the seal plate and bearing housing. The seal oil cavity shall be separated from the bearing cavity by a double lip seal to prevent entrapment of solids and dry running failure of the mechanical seal.

CASING: The pump case shall be cast iron with a built-in volute. Each casing shall have a 3" NPT threaded priming hole with tapped seal plug and Teflon gasket. Casing drain plug shall be at least 3/4" NPT.

BEARING & HOUSING: Pump shall be provided with heavy-duty, oil lubricated, deep groove, open ball bearings. Bearing housing shall be cartridge style, line bored, cast iron arranged for oil lubrication. Bearing housing shall be a separate casting from the pump case with a mounting support. Housing shall include top vent, bottom drain, oil fill connection and glass sight gauge.

MOUNTING PLATE COVER: The pump shall be equipped with a removable mounting plate cover. The cover shall be secured with cast iron knobs.

SUCTION CHECK VALVE: The pump shall be provided with a weighted check valve that may be removed through the check valve cover access plate located at the top of the pump casing without the need to drain the pump or disturb the piping. Check valve cover plate is designed with a hinge that permits removal of check valve.



Trash Flow® Centrifugal Pumps

TFCC-ME™ Engine Driven Pump Series

STATIONARY BASE: Pump and engine shall be mounted on a common, welded steel base with pre-drilled anchor holes to secure pump to concrete floor. Optional lifting bale welded to base, when specified.

OPTIONAL TRAILER FRAME: Pump and engine shall be mounted on fabricated steel highway-trailer frame with DOT approved removable wheels and lights. Frame to be supplied with an adjustable swivel sport-utility jack complete with 2" ball hitch. Optional lifting bale welded to base, when specified.

COUPLED: Power transmission shall be directly coupled to the pump shaft by means of a fly-wheel coupling arrangement.

ENGINE: Pump shall be driven by means of a ___HP; RPM (gasoline or diesel) continuous-duty engine complete with radiator, air cleaner, muffler, fuel filter, and control panel with warning lights, hour meter, safety shutdown for oil and temperature, and key switch panel box with 12V electric start. Standard aluminum fuel tank with a 30 US gallon capacity.

PAINT: All ferrous metal surfaces shall be shop cleaned and degreased. Entire pump and drive assembly shall be shop primed with Wastecorp's rust inhibiting, low VOC, alkyd resin primer designed for use over iron and steel substrates. The primer as a universal metal primer is used with high performance top coats and is also suitable as a barrier coat, which would normally be attached by strong solvents and corrosive environments in high performance coatings. The entire pump and drive assembly shall be shop painted with our superior alkyd enamel with a durable color pigment system, designed for steel construction in interior and exterior use. The top coat characteristics are: chip and flake resistant, dirt resistant and high gloss finish, suitable for use in USDA inspection facilities. Finish to 3.0-4.0 mils DFT per coat.



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