

Peerless Pump

SOLIDS HANDLING PUMP

Freestream



Specifications:

Capacities

Up to 5,940 gpm
(1,350 m³/hr)

Head

Up to 295 feet
(90 m)

Pressure

Up to 232 psi
(16 kg/cm²; 1,600 kPa)

Horsepower

Up to 250 hp
(185 kW)

Drives

Motors and engines

Liquids Pumped

Solids, sewage, sludge, paper stock and industrial waste.

Temperature

Up to 176°F
(80°C)

Materials of Construction

Cast iron; other materials available.

The Freestream

First choice for handling solids, sewage and sludge.

The Freestream has been available for more than a decade with hundreds in operation throughout the world.

The Freestream range is available in a wide choice of configurations, specifications and a wide range of hydraulic coverage.

The Impeller

The heart of the Freestream is the unique impeller design. The single spiral vane will handle “cannonball” solids, fibrous materials and thick sludges.

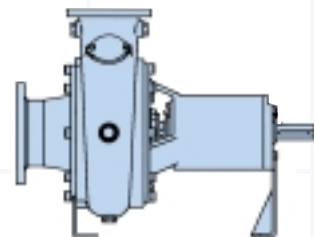
The feature that sets Freestream apart from other spiral vane impeller pumps is that the vane terminates in a radial outlet edge.

The benefits to the customer are substantial — the impeller can be trimmed to suit the specific duty requirements, thus saving power and running costs. In some cases, a saving in space and capital cost can also be achieved.

Configurations

The Freestream can be configured to meet your specifications. The horizontal mounted Freestream is suitable for a direct or belt drive and is available with or without mounting feet.

Our vertical open shaft/dry pit Freestream is driven by an open shaft with the driver mounted above the pump. Other configurations include: vertical direct mounted motor driven, close coupled motor driven, and a submersible/immersion motor driven pump. Use any of these configurations to handle sewage, industrial waste, sludge, paper stock or most other liquids containing solids.

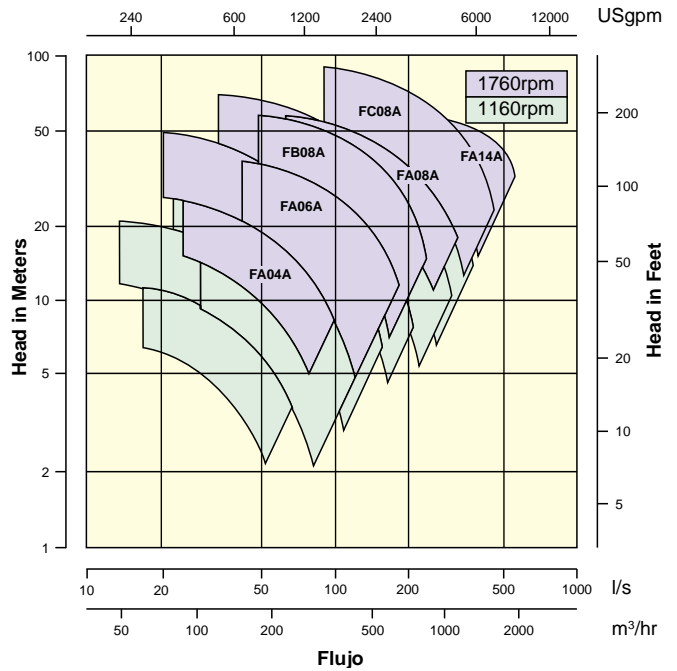
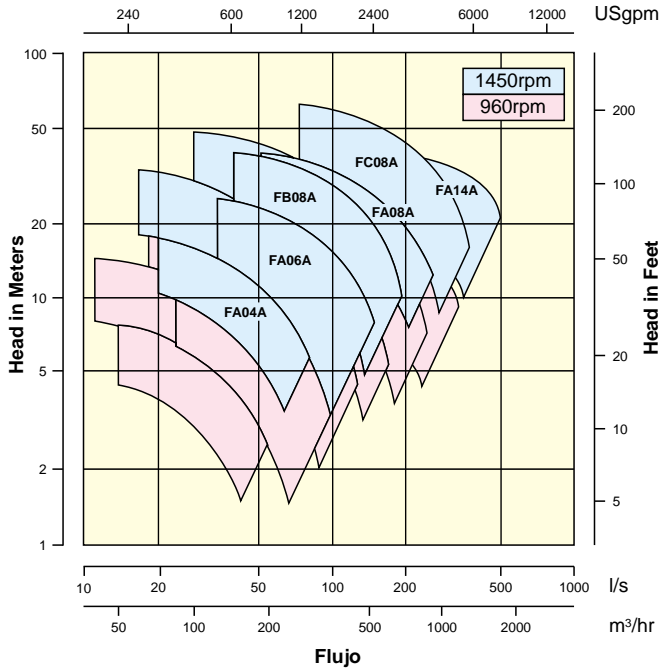


Performance

Freestream pumps have much steeper characteristic curves and wider efficiency bands than channel impeller pumps. This means that relatively large changes in pumping head can be tolerated without significant loss of efficiency and with minimal variation in flow.



Freestream Range Performance Charts



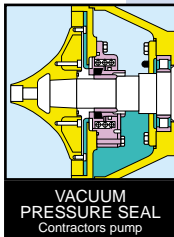
CENTERLINE DISCHARGE
Suction and discharge on same center line

'O' RING SEALING

INTEGRAL front cover/wear liner
incorporating flushing grooves

HIGH EFFICIENCY
IMPELLER
Single spiral vane,
solids handling

FLANGES drilled
to ANSI standards



HAND HOLE
Access to volute and
impeller

BALANCED IMPELLER
Adjustable balance weights

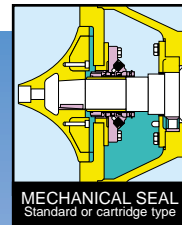
OPTIONAL SEALING
Packing (grease lubricated)
or mechanical seal (Max 176°F)

HEAVY DUTY SHAFT
Reduced deflection and wear

HEAVY DUTY THRUST
BEARINGS
L10 life 100,000 hours.
Twice normal design criteria

TAPERED SHAFT END
Positive impeller location
key and locking screw

PROTECTED SHAFT
Stainless Steel shaft sleeve



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