

Flygt Submersible Pumps

AVAILABLE FOR RENTAL AND SALE



Flygt 5000 Series

A chain is only as strong as its weakest link. That's why we pay attention to the details: it's only by eliminating all the weak links that we can supply pumps our customers really can rely on. Pumps that give them greater peace of mind.

The main difference between slurry and waste water pumps is in the parts that are in direct contact with the slurry and thus subject to wear by the slurry's solid particles.

Better heat transfer

Our specially designed and manufactured motor provides enhanced cooling because heat losses are concentrated around the stator. Trickle impregnated in resin (Class H insulation), the stator windings are rated at 180°C (355°F) and enable up to 30 starts per hour.

Efficient cooling

These pumps are cooled either by the surrounding liquid or, in more demanding applications, with an internal closed-loop cooling system.

Inspection chamber

To increase operational reliability, an inspection chamber between the seal unit and the bearings enables rapid spot checks and maintenance. In the case of a seal failure, a built-in sensor provides an early warning of any fluid build-up, thus reducing the risk of expensive repair work.

Agitator

The pump can be equipped with an agitator. The unique design of Flygt agitators create a strong vertical thrust, which forces settled solids into suspension. This makes the particles easier to transport and ensures a cleaner sump at the end of the pumping cycle. When pumping coarse slurries, an agitator mounted on the pump shaft resuspends settled particles and makes them possible to transport.

Cable entry

Water-resistant cable entry provides both sealing and strain relief functions to ensure a safe installation.

Sensors

Thermal sensors embedded in the stator windings prevent overheating, and a leakage sensor in the inspection chamber minimizes the risk for bearing and stator failure.

Long-life bearings

All slurry pumps have two row angular contact ball bearings as the main bearing, because they give a high load capability in the radial as well as the axial direction. The bearings are well protected with a lifetime lubrication of high performance grease.



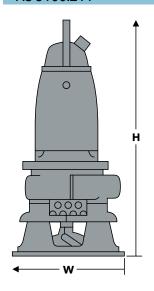
The seals for the slurry pumps are designed to cope with highly abrasive pump media. Only the seal rings are exposed to the media. Other parts of the seal, such as springs and torque locks are protected from wear, clogging and corrosion inside the seal housing.



5000 Series Heavy-Duty Slurry Pumps

HS 5100/5500 series pumps will easily handle extremely abrasive slurries containing sand, gravel, grit or ash, without damage. Both the impeller and pump casing are made of high chrome alloyed cast iron, for maximum abrasion resistance. The HS 5100 series pumps use a one-piece pump casing, while the HS 5500 series have a replaceable liner of high chrome alloyed cast iron. Heavy-duty mechanical seals are protected by a unique expeller and pressure isolation chamber. The optional agitator, when attached to the shaft, resuspends particles around the pump inlet.

HS 5100.211



Model number: 5100.211

Motor rating: 15 HP@1150 RPM

20 HP@1755 RPM

230V Voltage (3ø): Full load amps: 46/52A

> 460V 575V 17/21A 22/26A

Versions: 4" Std., Imp.

4" High vol., Imp.

Discharge conn: 4" Victaulic

Pump dimensions: $23^{1/2}$ " W (max.), $45^{1/4}$ " H (max.)

Max. weight (lbs.): 555

Options:

Description: Cast iron construction with high

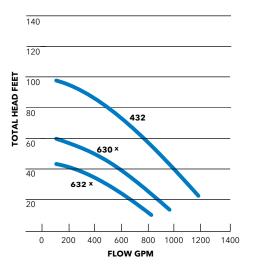
chrome volute; highchrome multi-vane closed impeller; rests

on stand.

Agitator;

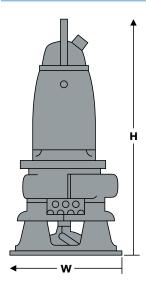
Explosion proof (FM approved)

variant 5100.221



x Optional Agitator Version

HS 5100.251



Model number: 5100.251

25 HP@1160 RPM Motor rating:

34 HP@1760 RPM

230V Voltage (3ø): Full load amps: 64/81A

> 460V 575V 25/32A 32/40A

Versions: 4" Std., Imp.

4" High vol., Imp.

Discharge conn: 4" Victaulic

Pump dimensions: $23\frac{1}{2}$ W (max.), $50\frac{1}{4}$ H (max.)

Max. weight (lbs.): 710

Description: Cast iron construction with high

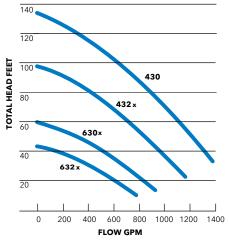
> chrome volute; high chrome multi-vane closed impeller; rests

on stand.

Options:

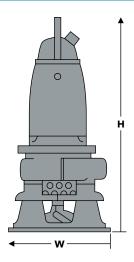
Explosion proof (FM approved)

variant 5100.261



x Optional Agitator Version

HS 5100.300



Model number: 5100.300

Motor rating: 45HP@1170RPM 70 HP@1775 RPM

Voltage (3ø): 460V 575V 44/58/63A Full load amps: 55/72/80A

Versions: 4" Standard

Imp. Code 430, 432 4" High volume Imp. Code 630, 632

4" Victaulic Discharge conn: Pump dimensions: $23^{1/2}$ W (max.), $57^{3/4}$ H (max.)

Max. weight (lbs.): 1095

Description: Cast iron construction with high

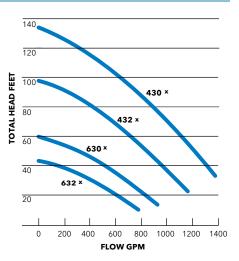
chrome volute; high chrome multi-vane closed impeller; rests

on stand.

Options: Agitator;

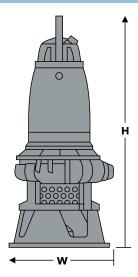
Explosion proof (FM approved)

variant 5100.310



x Optional Agitator Version

HS 5150.300



Model number: 5150.300

Motor rating: 60 HP@1775 RPM Voltage (3ø): 460V 575V Full load amps: 55/63A 68/80A Versions: 6" Standard

Imp. Code 432, 434

Discharge conn: 6" Victaulic Pump dimensions: $34^{1/2}$ " W (max.), $65^{1/4}$ " H (max.)

Max. weight (lbs.): 1465

Cast iron construction with high Description:

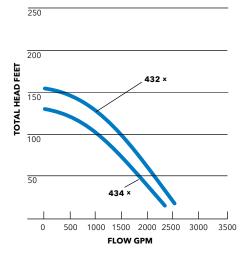
chrome volute; high chrome multi-vane closed impeller; rests

on stand.

Options: Agitator;

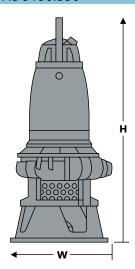
Explosion proof (FM approved)

variant 5150.310



× Optional Agitator Version

HS 5150.350



Model number: 5150.350

Motor rating: 85HP@1775RPM Voltage (3ø): 460V 575V Full load amps: 101/125A 80/101A

Versions: 6" Standard

Discharge conn:

Imp. Code 430, 432, 434, 436, 438

6" Victaulic Pump dimensions: 34¹/₂" W (max.), 70¹/₄" H (max.)

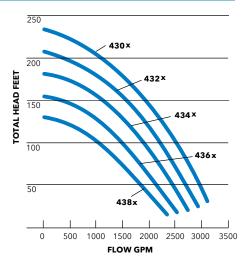
Max. weight (lbs.): 2005

Description: Cast iron construction with high

chrome volute; high chrome multi-vane closed impeller; rests

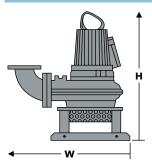
Options: Agitator; Explosion proof (FM approved)

variant 5150.360



x Optional Agitator Version

HS 5520



Model number: 5520.180
Motor rating: 5 HP@1735 RPM

Voltage (3ø): 460V
Full load amps: 6.6A
Discharge conn: 4" Flange
Impeller code: 436

Pump dimensions: $29^{1/2}$ W (max.), $33^{1/2}$ H (max.)

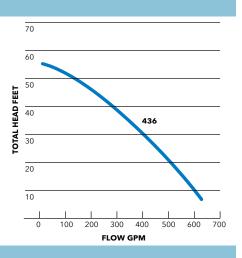
Max. weight (lbs.): 380

Stator and pump

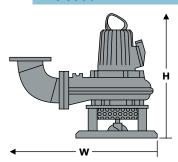
housing material: Cast iron

Options: FM approved variant;

Warm liquid version available



HS 5530



Model number: 5530.180

Motor rating: 10 HP@1740 RPM

Voltage (3ø): 460V Full load amps: 13A Discharge conn: 6" Flange Impeller code: 436

Pump dimensions: $42^{1/2}$ W (max.),

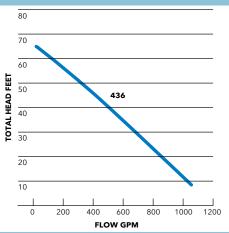
40" H (max.)

Max. weight (lbs.): 680

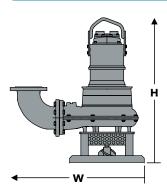
Stator and pump

housing material: Cast iron Options: Agitator;

FM approved variant; Warm liquid version available



HS 5540



Model number: 5540.181

Motor rating: 20HP @ 1750 RPM

Voltage (3ø): 460V Full load amps: 26 Discharge conn: 6" Flange Impeller code: 434

Pump dimensions: $42\frac{1}{2}$ W (max.),

46 ¹/₄" H (max.)

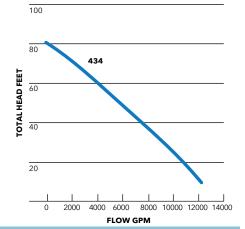
Max. weight (lbs.): 891

Stator and pump

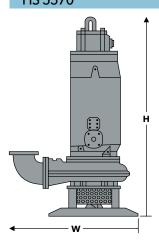
housing material: Cast iron

Options: Agitator (Imp. Code 435);

FM approved variant; Warm liquid version available



HS 5570



Model number: 5570.180

Motor rating: 335HP@1760 RPM

280 HP@1185 RPM

Voltage (3ø): 460V 575V Full load amps: 365/345A 300/266A

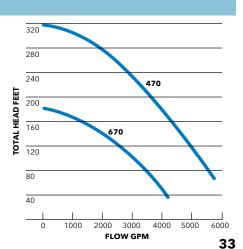
Discharge conn: 8" Flange
Impeller code: 470, 670
Pump dimensions: 59" W (max.),
80 1/4" H (max.)

Max. weight (lbs.): 3230

Stator and pump

housing material: Cast iron Options: Agitator;

FM approved variant; Warm liquid version available



Flygt Accessories

Automatic Level Control Systems



Xylem offers a family of automatic controls that allow unattended operation of Flygt portable pumps. They are available with either two Flygt ENM-10 level sensors or with FPC 100 controller. The FPC 100 allows for automatic pump operation without the use of floats or level sensors.

Manual Control for Medium and Large Portable Pumps



A complete range of manual controls are available for medium and large portable Flygt submersible pumps. Each NEMA 4X enclosure is equipped with the correct circuit breaker/overload for pump protection of the model involved.

Manual Control for Small Portable Pumps



These strong, rugged units provide easy manual control and full electrical protection for smaller Flygt portable submersibles. They include Flygt short-circuit and overload protection, along with starting components for single phase models, housed in a NEMA 4X watertight and corrosion resistant enclosure.

Zinc Anodes



High grade zinc anode kits are available for most Flygt submersible pumps to help protect against the damaging effects of galvanic corrosion. The anodes are easily mounted to the pump with the stainless steel hardware provided. Specify exact pump model when ordering.

Tandem Coupling Kits



Tandem coupling kits are available for most models, allowing the pump to connect in series with another Flygt submersible pump to overcome severe vertical heights. The coupling kit is easily installed after the strainer is removed, allowing the connecting hose from another pump to be attached with clamps. Consult your nearest Flygt location for pressure limitations and other application requirements.

Flygt FPC100 Automatic Pump Controller



The Flygt FPC100 Automatic Pump Controller is used primarily for dewatering pumps in construction and mining applications where ordinary level sensors are not the ideal choice. The FPC 100 offers entirely automatic pump control without the need for components built into the pump or separate level sensor arrangements.

Flygt Pump Flotation Modules



Flygt pump flotation modules (PFM) have been developed to provide a light-weight and cost-effective alternative to traditional steel pontoons. The flotation modules are prefabricated from strong polyethylene with foam filling. The pump floats close to the surface, increasing the pump's service life and reducing maintenance since the pump is no longer working in a high solids environment.

Low Suction Collar



The Flygt low suction collar removes unwanted water down to very low levels when required for emergency services. This works with pump models 2610, 2620 and 2640.