



H 8000 series

Wear-resistant vortex pumps



Flygt



ITT Industries
Engineered for life

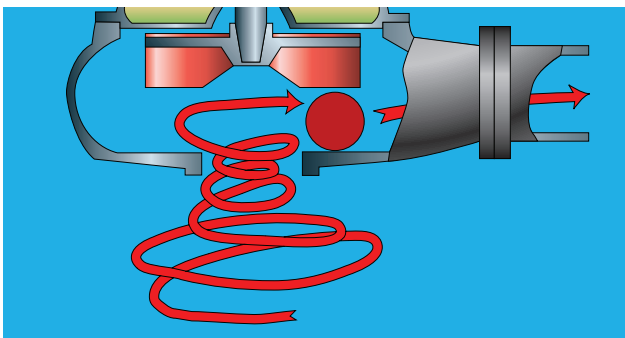
Reliable and cost-effective

Flygt H 8000 wear-resistant vortex pumps are designed for the continuous transportation of highly abrasive solids. Years of customer feedback has shown that H 8000 pumps are cost effective and reliable even under the most demanding conditions.

In addition, Flygt vortex pumps offer unmatched long-term high performance with minimum downtime. This is due to a number of reasons: one, the level of wear in vortex pumps is by nature extremely low; two, wear has a limited impact on output; three, there are no wear rings in a vortex pump that can reduce pumping efficiency.

Low weight is a further advantage offered by H 8000 pumps. By using Ni-Hard 4 wear-resistant materials, there is no need to run pumps at low speeds to lengthen service lifetime.

By equipping H 8000 pumps with an optional agitator (available for most models) the density of the pumped mixture can be increased. For extreme operating conditions, we offer a special dredge version that features cable and shaft seals which can be replaced without opening the hermetically sealed motor.



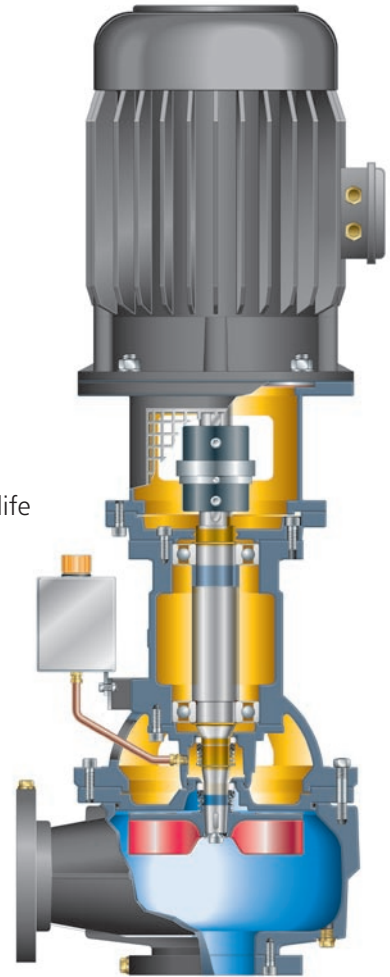
A vortex impeller creates a powerful pumping action while leaving a wide, open passage through which solids can pass.

Typical applications include:

- Construction and mining
- Sewage
- Food processing
- Water control

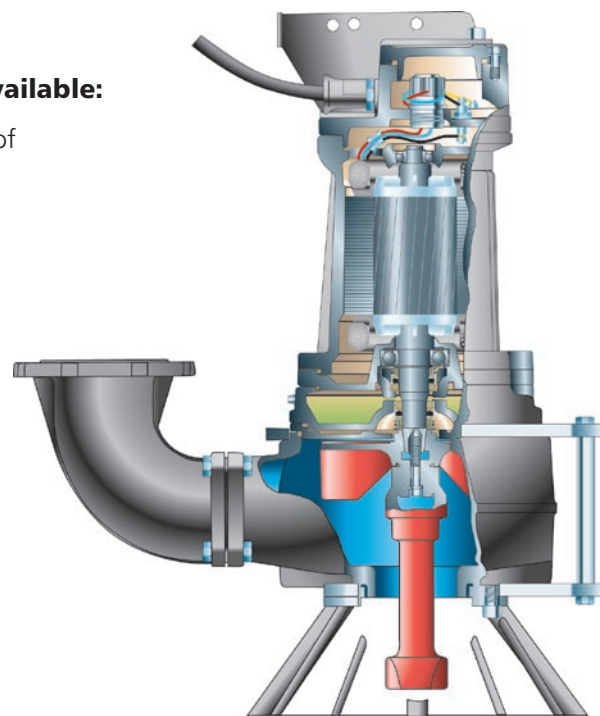
Design features

- Solids have limited contact with impeller
- Fewer blockages
- Less wear
- No narrow clearances
- No adjustments
- Closed bearings, greased for life
- Two independent mechanical seals running in oil – allows for dry running
- Mechanical shaft seals in silicon carbide/silicon carbide and carbon/ceramic
- Seal flushing is available as an option
- All pumps equipped with back vanes that:
 - keep solids out
 - reduce seal pressure
 - extend seal life

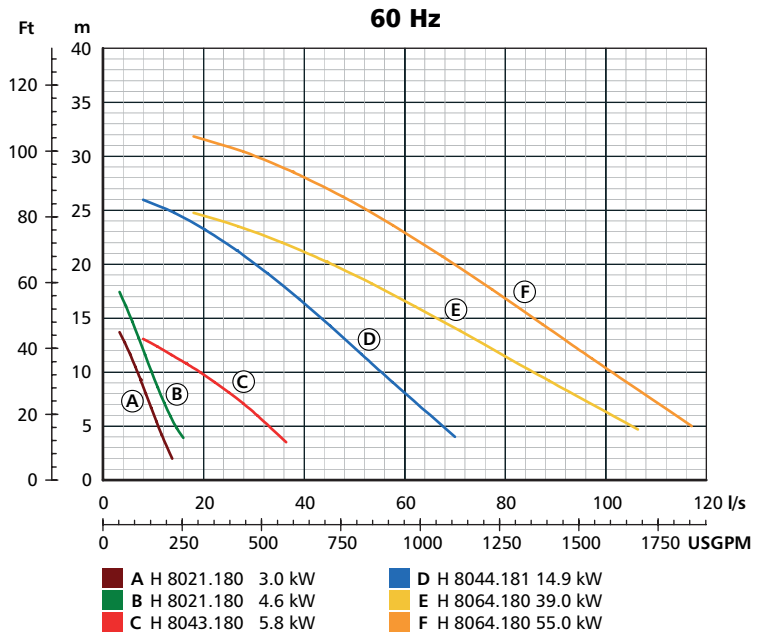
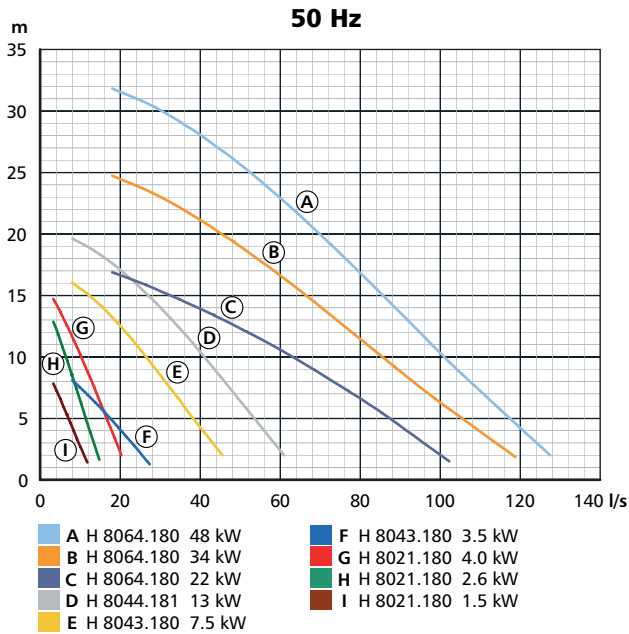


Options available:

- Flame proof
- Cooling
- Agitator

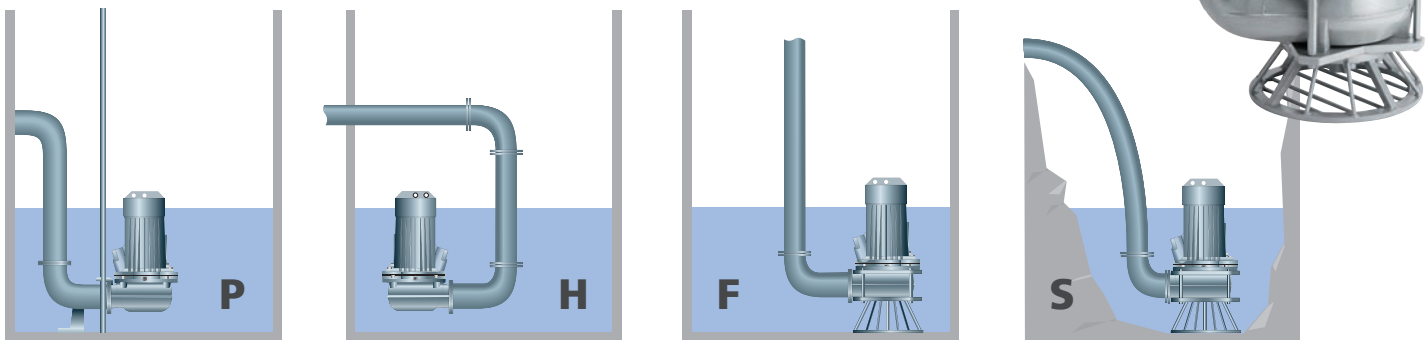


Submersible installation



50 Hz				MODEL	60 Hz			
H 8021	H 8043	H 8044	H 8064		H 8021	H 8043	H 8044	H 8064
1,5-4	3,5-7,5	13	22-48	Rating (kW)	3-4,6	5,8-8,6	14,9	39-55
-	-	-	-	Rating (hp)	4-6,1	7,8-11,5	20	52-73,5
75	100	100	150	Discharge (mm)	75	100	100	150
3	4	4	6	Discharge (inch)	3	4	4	6

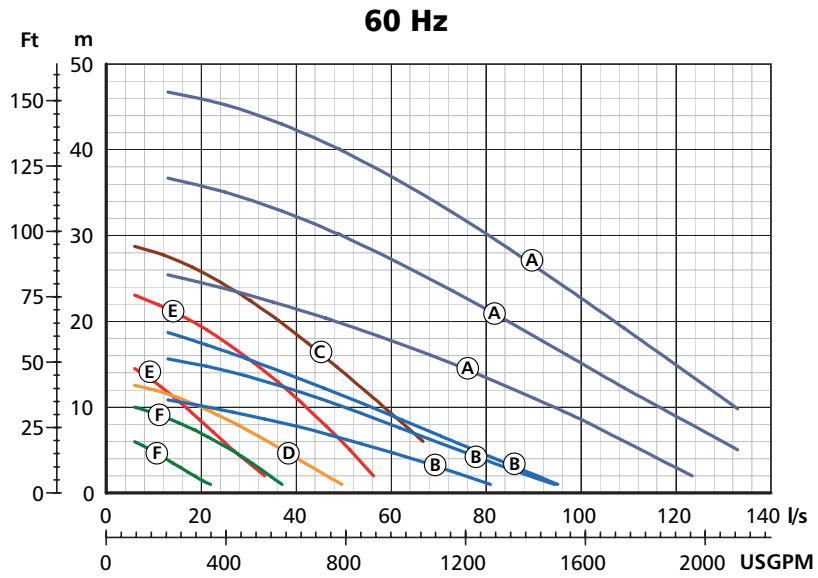
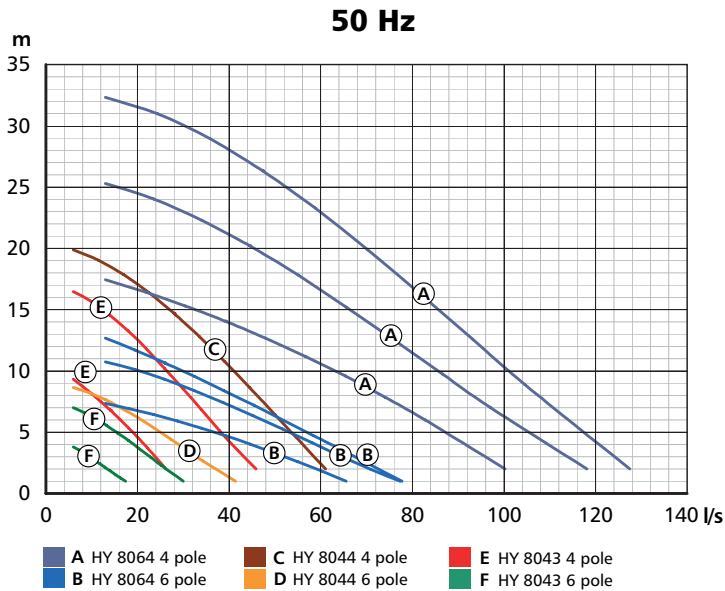
Methods of installation



Pumps are available for permanent fixed installation, using the guide-rail coupling **P** (for underwater installation) or the header coupling **H** for installation above water).

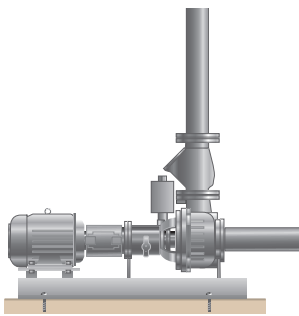
All pumps can be delivered for semi-permanent free-standing installations **F**, or for transportable **S** installations (with stand and discharge adapter). Pumps are also available in slim line versions.

Dry installation

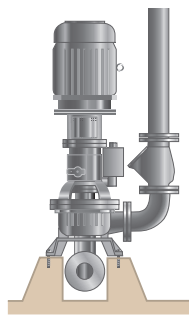


50 Hz			MODEL	60 Hz		
H 8043	H 8044	H 8064		H 8043	H 8044	H 8064
4 pole 6 pole	4 pole 6 pole	4 pole 6 pole		4 pole 6 pole	4 pole 6 pole	4 pole 6 pole
5,5-15 3-4	5,5-15 3-5,5	15-45 7,5-15	Rating (kW)	-	-	-
-	-	-	Rating (hp)	7,5-15 2-5	15-30 5-10	10-30 25-75
100 100	150 100	150 150	Discharge (mm)	100 100	150 100	150 150
4 4	4 4	6 6	Discharge (inch)	4 4	4 4	6 6

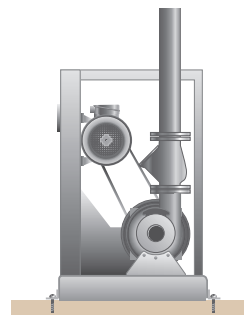
Methods of installation



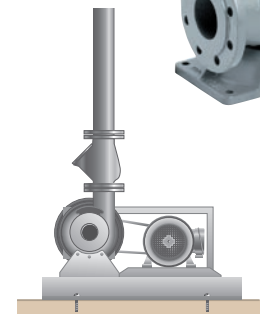
HM Horizontal installation with foundation and electric motor.



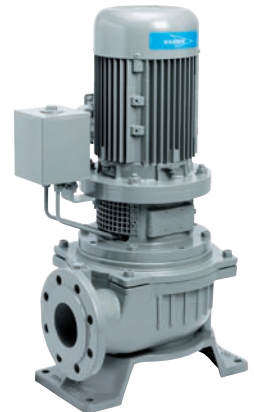
VM Vertical installation with support and electric motor.



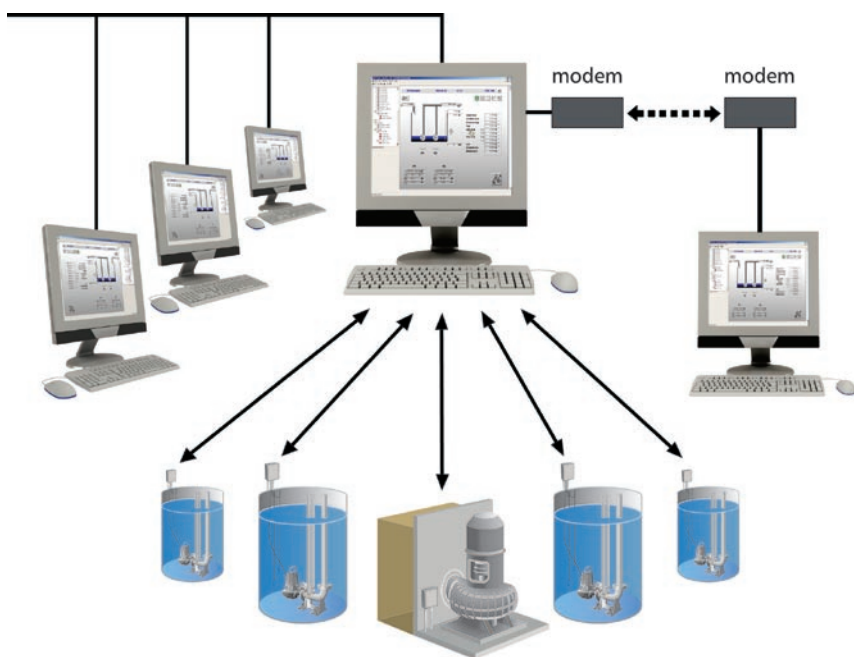
K V-belt-driven vertical installation.



L V-belt-driven horizontal installation.



Reduce service visits and emergency call-outs



Monitoring and control

With a well designed monitoring and control system, service costs can be radically reduced. For example, unnecessary service checks can be eliminated with the help of automatically generated service alerts – armed with detailed information, you'll be able to cut the number of emergency call-outs.

At Flygt we supply both the hardware and software for complete systems: everything from pump controllers, sensors and start equipment, to the software for running the system. With Flygt's SCADA supervision software, AquaView, you get a complete picture of your fluid handling processes.

World-wide service, world-class value

Because no two pumping stations or systems are alike, we let you choose the type of support package that best matches your needs.

At one end, we help in selecting the right pump for a new application. At the other end, we can provide full service assistance that includes everything from system planning and design, through construction and commissioning, to operation and maintenance.

With a world-wide network of authorised service centres, you always get the support you need: whether it's a question of planned maintenance, or express delivery of a part.

Extensive spare parts guarantee

We guarantee the availability of spare parts 15 years after we stop production of a pump model. This is just one of the ways we demonstrate long-term commitment to our customers.



ITT Flygt is the world's leading manufacturer and supplier of submersible pumping and mixing solutions. Flygt products are used within construction, mining, wastewater handling and a wide range of other industries.

With over 50 years of experience, we can help deliver reliable and cost-effective water-handling solutions. ITT Flygt has sales and service centres in more than 130 countries around the world.



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