

The Flygt Bibo dewatering pumps

Tough, portable and reliable submersibles, 50 Hz

1.430







The Flygt Bibo submersible range. Saving time. Time after time.

Flygt Bibo pumps save you time, every time. Portable, robust and reliable, they'll take on the toughest dewatering tasks anywhere you need them. Operating submerged they don't need complicated installation or dedicated superstructures: just lower the pump into a pit and switch on the power.

It's that quick and easy. And with very little maintenance required, time is not the only thing that a Flygt Bibo can save.

More than 50 years of continuous development

The first Flygt Bibo pump was launched in 1947. The unique design made it the world's first submersible dewatering pump – a revolutionary concept that meant quieter operation, no dry-mounting superstructure or special housing and no long mechanical shafts.

And the design has been continuously improved and refined ever since, with new and specialist models being introduced to tackle the toughest of tasks in the most hostile environments. Bibo is Latin for "I drink"

Flygt Bibo pumps are ideal for applications in which the water or liquid contains concentrations of abrasives such as:

- clay
- sand
- grit and gravel
- drilling fines

A casing for all conditions.

Flygt Bibo pumps are available in a range of casing materials to suit different applications:

- lightweight aluminium
- hard-wearing cast iron
- stainless steel

Flygt Bibo pumps are tested and approved in accordance with international standards IEC 34-1 and CSA. Some models are also used in areas where explosion proof equipment is required.

A wide range of Flygt Bibo pumps have been designed for use in special conditions, such as:

- warm liquid
- sea water
- corrosive liquid

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More people trust Flygt Bibo than any other brand

Today, there are more Flygt Bibo dewatering pumps in operation around the world than any other competitive brand. In fact, it's not unusual for an original Flygt Bibo to turn up on a site, still working after 40 years or more of excellent service.

Construction

The Flygt Bibo range is the ideal choice for all construction site dewatering tasks. Whether it is active dewatering of ground water, with slim line pumps, passive dewatering of ground water, or the removal of seawater in a harbour for bridge construction. And because they are portable, the pumps can simply be moved to another part of the site, when they have completed a task.

Mining & quarrying

With over 50 years of experience in some of the most demanding mines and quarries in the world, the Flygt Bibo range of pumps have been designed to handle the toughest conditions. And many models are available in explosion proof versions, which means they can be used just about anywhere in a mine that requires dewatering.

Tunnelling

Whether you are tunnelling under a lake, seabed, mountain range, or city, you need to know that the pumps removing the water are reliable. That's why Flygt Bibo pumps are in operation in tunnelling projects the world over. Manufactured strictly in accordance with international standards, a Flygt Bibo pump won't let you down, wherever you are.

Other industries

Flygt Bibo pumps can also be found performing general dewatering duties in many other industries. These include fish farms, pulp and paper mills, power stations, shipyards and oil and gas facilities. Often performing temporary or emergency dewatering tasks, they will always meet your demands.



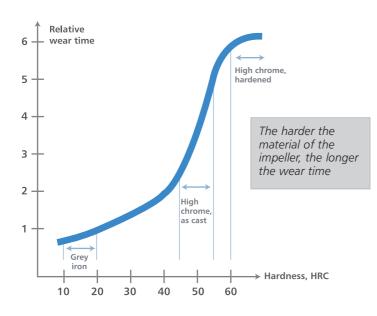
Building on the Flygt Bibo reputation

The toughest impellers in the business

All Flygt Bibo impellers are manufactured and designed by ITT Flygt. The high-chromium content and special hardening (to HRC 60) ensure outstanding wear resistance, prolonged operation at rated performance and reduced maintenance costs.

Whether you choose an open or semi-open multi-vane impeller with adjustable diffuser and strainer for abrasive media and demanding operating conditions, or a stainless steel impeller for corrosive environments, ITT Flygt-manufactured designs are among the most reliable on the market.







The full range of submersible cables includes the Flygt-developed SubCab[®] heavy-duty cable, screened cables and special cables for warm liquid, high voltage and chemical environments.

Discharge options

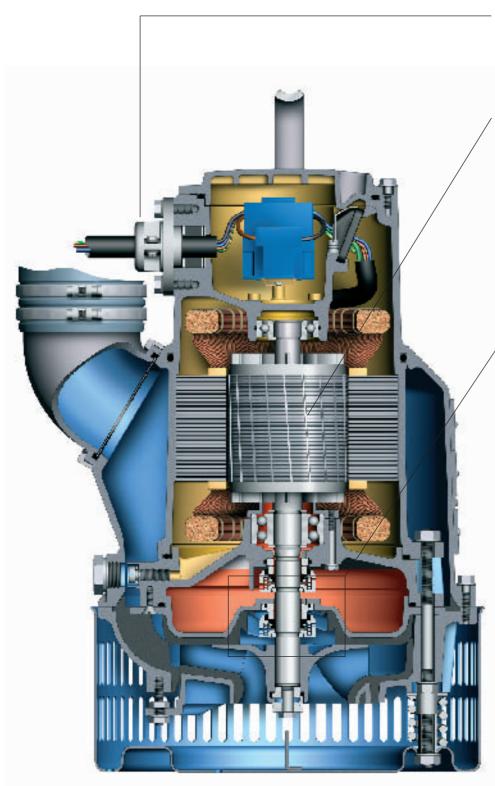
The discharges are available in a variety of configurations including hose connections and threaded for pipe or quick release couplings.

Internal wear-part protection

All major components subjected to wear are coated with nitrile rubber, or polyurethene for extreme abrasion protection.

Triple-function oil housing

Seals are lubricated in a dedicated oil housing, which also serves to diffuse heat from the motor and the bearings, and provides a barrier between the pumped liquid and the motor.



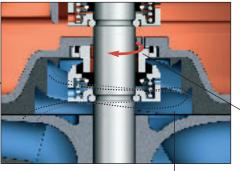
Secure cable entrance

Cables are protected through a special entrance designed to incorporate both a seal and a strain relief function.

High performance motors

ITT Flygt has designed its high performance induction motors specifically for submersible use.

Insulated according to Class F or H, pumps can be left to dry run, without damage being caused to the motor.



Spin-Out™ seal protection

Unique to ITT Flygt, this patented design protects the outer seal and extends service life by expelling abrasive particles from the seal chamber.

Double mechanical shaft seals

Two sets of ITT Flygt-designed mechanical shaft seals, made of WCCR corrosion resistant tungsten carbide, provide the Bibo range with double security against liquid penetration.



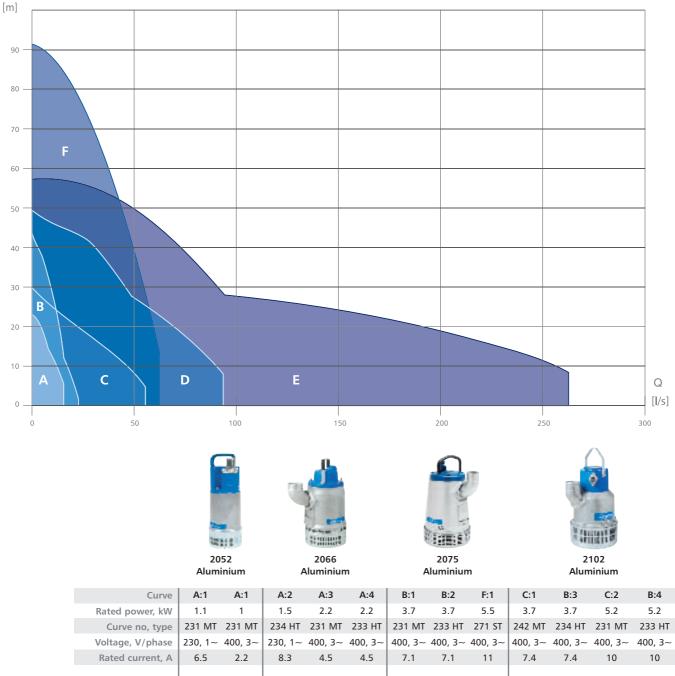
The Flygt Bibo dewatering pumps, 50 Hz

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The standard range – aluminium

The widest range of Flygt Bibo pumps, these hard wearing, lightweight pumps are found in operation in all types of dewatering applications.

The following pages are our standard version pumps. For more information, please contact your local ITT Flygt representative.

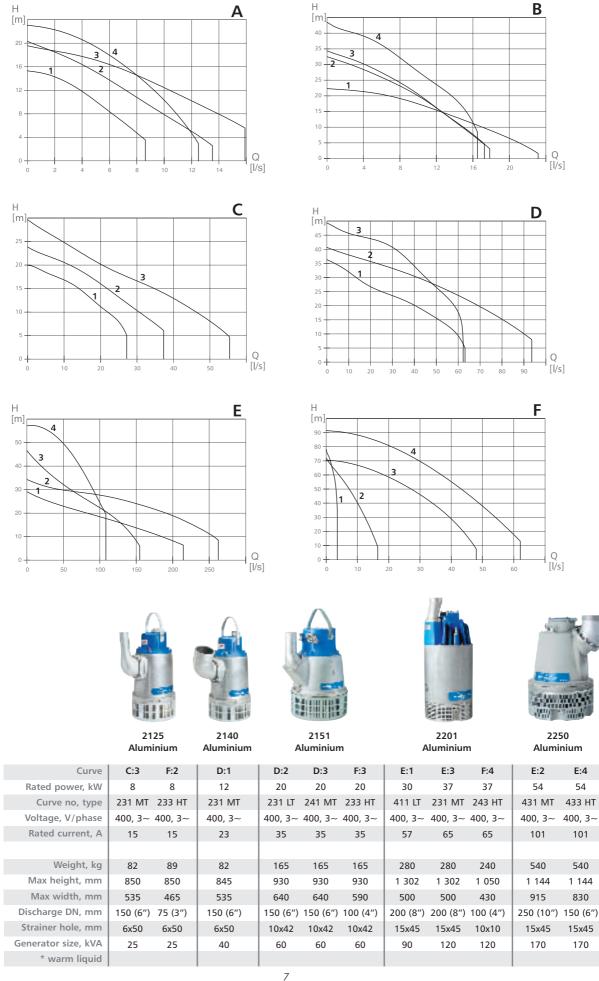




Weight, kg 18 30 30 30 40 40 64 50 48 50 48 18 Max height, mm 530 530 520 520 520 565 565 575 655 655 655 655 Max width, mm 445 405 200 200 375 375 375 415 430 390 430 390 Discharge DN, mm 50 (2") 50 (2") 75 (3") 75 (3") 75 (3") 100 (4") 75 (3") 50 (2") 100 (4") 75 (3") 100 (4") 75 (3") Strainer hole, mm 5x18 7x21 8x8 8x8 6x6 7x40 7x40 7x40 5x18 7x21 7x21 7x40 Generator size, kVA 3 3 5 8 8 12 12 18 12 12 16 16 * warm liquid * * * * * * * * *

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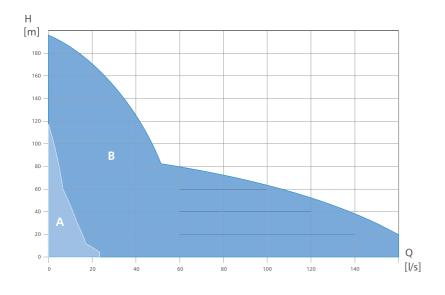


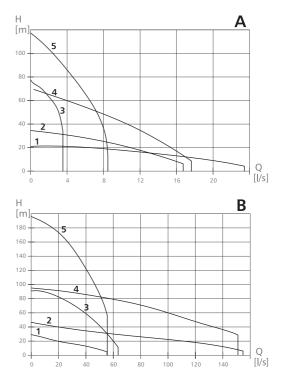
Max width

The Flygt Bibo dewatering pumps, 50 Hz



Cast iron Flygt Bibo pumps are designed for use in corrosive or abrasive liquids. All the cast iron pumps are available as explosion proof version.







2075 Cast iron



2135 Cast iron 2201

Cast iron



2400 Cast iron

	Curve	A:1	A:2	A:3	B:1	A:4	A:5	B:2	B:3	B:4	B:5
	Rated power, kW	3.7	3.7	5.5	8	8	13.5	37	37	90	90
	Curve no, type	231 MT	233 HT	271 ST	231 MT	233 HT	231 HT	231 MT	233 HT	231 MT	243 HT
	Voltage, V/phase	400, 3~	400, 3~	400, 3~	400, 3~	400, 3~	400, 3~	400, 3~	400, 3~	400, 3~	400, 3~
	Rated current, A	7.1	7.1	11	15	15	24	65	65	149	149
	Weight, kg	73	73	90	150	165	250	445	350	900	985
	Max height, mm	565	565	575	830	830	940	1 140	1 050	1 180	1 245
dth Max height	Max width, mm	445	415	405	485	465	362	500	435	770	770
	Discharge DN, mm	100 (4")	75 (3")	100 (4")	100 (4")	75 (3")	50 (2")	200 (8")	100 (4")	150 (6")	100 (4")
	Strainer hole, mm	8x8	8x8	8x50	6x50	6x50	6x6	15x45	10x10	10x10	10x10
	Generator size, kVA	12	12	18	15	15	45	120	120	270	270
<u> </u>	* warm liquid	*	*	*				*	*		

2125

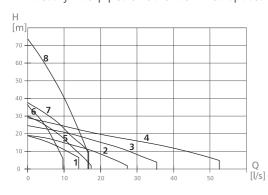
Cast iron



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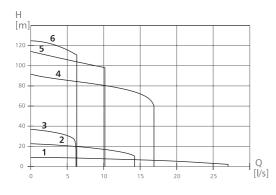
Slim

These pumps are usually used in active dewatering. Special slim design means they fit easily into pipes or other confined spaces.



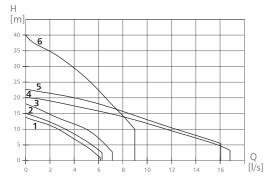
Sludge

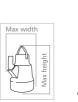
Flygt Bibo sludge pumps are ideal for pumping liquid containing large particles.



Stainless steel

Another option for corrosive or abrasive liquids, Flygt stainless steel Bibo pumps can also handle warm liquid pumping tasks.











2071 Slim Aluminium

2102 Slim Aluminium

2125 Slim Aluminium

Curve	1	6	2	5	3	7	4	8	
Rated power, kW	3	3	3.7	3.7	5.2	5.2	8	8	
Curve no, type	211 LT	231 MT	242 MT	234 HT	231 MT	233 HT	231 MT	233 HT	L
Voltage, V/phase	400, 3~	400, 3~	400, 3~	400, 3~	400, 3~	400, 3~	400, 3~	400, 3~	
Rated current, A	6.3	6.3	7.4	7.4	10	10	15	15	
Weight, kg	28	28	56	56	56	56	90	93	
Max height, mm	705	705	741	741	741	741	927	927	
Max width, mm	185	185	293	293	293	293	360	360	L
Discharge DN, mm	75 (3")	75 (3")	100 (4")	75 (3")	100 (4")	75 (3")	100 (4")	100 (4")	
Strainer hole, mm	8x50	8x50	Ø8	Ø8	Ø8	Ø8	6x50	6x50	
Generator size, kVA	10	10	12	12	16	16	25	25	
* warm liquid	*	*							



* warr





Aluminium/Cast iron



2201 Sludge Cast iron

Curve	1	2	3	6	5	4
Rated power, kW	4	5.5	5.5	37	37	37
Curve no, type	431 MT	234 HT	263 ST	275 ST	276 ST	277 ST
Voltage, V/phase	400, 3~	400, 3~	400, 3~	400, 3~	400, 3~	400, 3~
Rated current, A	8.4	12	12	65	65	65
Weight, kg	62/99	62/99	62/99	415	415	415
Max height, mm	702	702	702	1 200	1 200	1 200
Max width, mm	475	475	475	495	495	495
Discharge DN, mm	100 (4")	75 (3")	50 (2")	50 (2")	50 (2")	50 (2")
Throughlet, mm	80	46	32	30	30	30
Generator size, kVA	12	18	18	120	120	120
* warm liquid						







Stainless steel



3060 Stainless steel

Cu	rve	4	1	2	3	5	6	
Rated power,	kW	2.2	1	1.2	1.2	2.4	2.4	
Curve no, ty	pe	231 MT	251 HT	251 HT	250 HT	221 MT	250 HT	
Voltage, V/ph	ase	400, 3~	230, 1~	400, 3~	400, 3~	400, 3~	400, 3~	
Rated current	, A	4.5	5.9	2.5	2.5	4.9	4.9	
Weight,	kg	32	23	23	23	40	43	
Max height, n	nm	560	470	470	470	598	620	
Max width, n	nm	270	240	240	240	416	424	
Discharge DN, n	nm	65 (2.5")	50 (2")	50 (2")	50 (2")	65 (2.5")	50 (2")	
Strainer hole, n	nm	Ø12	10.5X20	10.5X20	10.5X20	15x15	Ø5	
Generator size, k	VA	8	3	4	4	8	8	
* warm liq	uid		*	*	*			

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Optimising performance

Enhanced reliability

The versatility and reliability of the Flygt Bibo range is further enhanced through a range of options and accessories designed to simplify installation and operation.



Pump flotation modules

Available in four different sizes, Flygt pump flotation modules are made in lightweight prefabricated polyethylene. They are a cost effective alternative to traditional steel pontoons.



Zinc anodes Easy to mount, for increased corrosion protection.





Tandem connection Several pumps can be connected in series for extra high head.

Hoses

Rubber and PVC hoses – available for standard, high head and heavy duty applications.

Discharge accessories

A range of discharge accessories can be used to connect the hose to the discharge outlet, including quick release and threaded couplings, or hose clamps.

Starters

Flygt offers a wide range of starters designed to suit customer needs.

FPC 100

This easy to install, automatic controller, operates without external floats or sensors. It calculates the optimal pumping cycle, resulting in less wear on parts and reduced energy consumption; considerably extending a pump's life expectancy.



Level regulators The level regulator switch, complete with automatic control system, provides a simple and effective method of level control.





Complete service and support



10-year spare parts availability

We build Flygt Bibo pumps to keep on working, year in, year out. And we guarantee availability of spare parts for 10 years after we stop production of a pump model.

It's just one of the ways in which ITT Flygt meets its long-term commitment to customers.

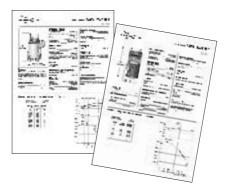


Your local service network – worldwide

One of the key factors behind the success of the Flygt Bibo range throughout the years, is the back-up service. This is available to all ITT Flygt customers, wherever they might be around the world.

With a network of suppliers and service centres spread throughout more than 130 countries, ITT Flygt can offer you the support and service you require.

From supplying Flygt Bibo pumps to your specification, to full service assistance and advice on operation and maintenance: our total service concept means that you get the service you need, on your terms.



Web support

As part of our service and support program we have introduced a web support function. Under the engineering section of ITT Flygt country web sites, detailed product information such as technical specifications, data sheets and dimensional drawings can be downloaded.

All ITT Flygt web sites can be accessed from www.flygt.com

ITT Flygt is the world's leading manufacturer and supplier of submersible pumping and mixing solutions. Flygt submersible pumps and mixers are used in mines, construction sites, wastewater plants, sewage systems and numerous other industries.

Our experience is utilised by engineers, planners and consultants to ensure reliable and cost-effective operation of our solutions all around the world. ITT Flygt has sales and service facilities in more than 130 countries.



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