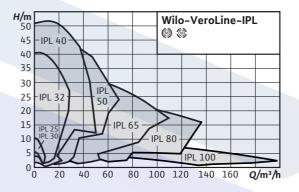


Series description: Wilo-VeroLine-IPL







Glanded pump in in-line design with threaded connection or flange connection

Application

For pumping heating water (in accordance with VDI 2035), water-glycol mixtures and cooling and cold water without abrasive substances in heating, cold water and cooling water systems

Type key Example	IPL 40/160 <mark>4/2</mark>		
IPL	In-line pu <mark>mp</mark>		
40	Nominal di <mark>ameter DN of the pi</mark> pe connection		
160	Nominal im <mark>peller diameter</mark>		
4	Nominal motor power P ₂ in kW		
2	Number of po <mark>les</mark>		

- Special features/product advantages
 High-efficiency motors as standard; from 0.75 kW nominal motor power: motors with IE2 technology
- High corrosion protection thanks to cataphoretic coating
- Standard condensate drainage holes in the motor housings and
- Series version: Motor with one-piece shaft
- Version N: Standard motor B5 or V1 with stainless steel plug shaft
- Bidirectional mechanical seal with forced flushing
- Easy to install due to feet with threaded holes on pump housing

Technical data

- Permissible temperature range -20 °C to +120 °C
- Mains connection 3~400 V, 50 Hz (others on request)
- Protection class IP 55
- Nominal diameter Rp 1 to DN 100
- Max. operating pressure 10 bar (special version: 16 bar)

Description/design

Single-stage, low-pressure centrifugal pump in in-line design with Mechanical seal

- Flange connection with pressure measuring connection R $^{1}/_{Q}$
- Motor with one-piece shaft

Materials

- Pump housing and lantern: EN-GJL-250
- Impeller: PPO fibreglass-reinforced ENGJL200 (depending on pump
- Shaft: 1.4021
- Mechanical seal: AQEGG; other mechanical seals on request

Scope of delivery • Pump

- Installation and operating instructions

- Available in following designs as standard
 with 2-pole motors 3~400 V (n = 2900 rpm)
- with 4-pole motors 3~400 V (n = 1450 rpm)

- Brackets for installation on a base
- PTC thermistor sensors, PTC resistor tripping relays, special motors
- Special mechanical seals
- Control systems CR, CRn, CC-HVAC, VR-HVAC and switchgears

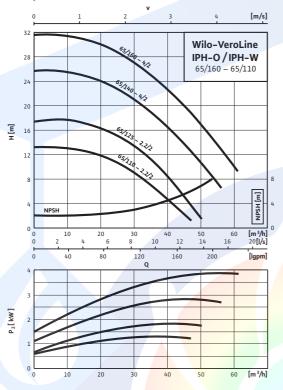
- General notes ErP (ecological design–) directive
 The benchmark for most efficient water pumps is MEI ≥ 0.70
- The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.
- The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.
- Information on benchmark efficiency is available at www.europump.org/efficiencycharts



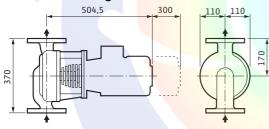


Data sheet: Wilo-VeroLine-IPH-O 65/110-2.2/2

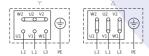
Pump curves



Dimension drawing



Terminal diagram



Δ: Connection diagram delta connection
Y: Connection diagram star connection
Motor protection switch required onsite.
Check the direction of rotation! To change the direction of rotation, exchange any two phases.

After removing the bridges, Y- $\!\Delta$ start is possible.

Approved fluids (other fluids on request)

Heating water (in accordance with VDI 2035)

Water-glycol mixtures (for 20-40 vol.% glycol and fluid temperature ≤ 40 °C)

Cooling and cold water

Heat transfer oil

Up to +350 °C

Permitted field of application

Standard version for operating pressure	P _{max}	Heat transfer oil: 9	bar
Temperature range at max. ambient temperature +40 °C		-10+350 °C	
Max. ambient temperature		+40 °C	
Installation in closed buildings			

Pipe connections

Nominal flange diameter	DN 65
Flanges (according to EN 1092-2)	PN 25
Flange with pressure-measurement connections	-

Materials

Pump housing	1.0625
Lantern	EN-GJS-400-15
Impeller	EN-GJL-250
Pump shaft	1.4005 [AISI416]
Mechanical seal	AQ1VGG
Other mechanical seals	On request

Electrical connection

Mains connection		3~400 V, 50 Hz
Nominal speed	n	2850 rpm

Motor/electronics

Integrated full motor protection		Special version with PTC thermistor sensor (KLF) at additional charge				
Protection class		IP 55				
Insulation class		F				
Efficiency	$\eta_{_{M}}$	0.82				
Power factor	cos φ	0.88				
Motor winding up to 3 kW		230 V	⁄ Δ/400	V Y, 5	0 Hz	



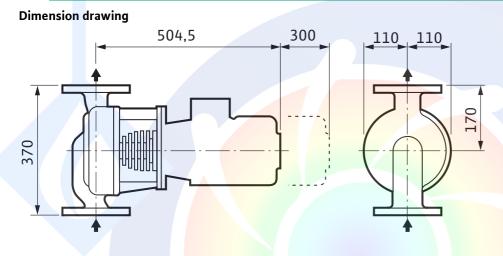
Data sheet: Wilo-VeroLine-IPH-O 65/110-2.2/2

Information for order placements			
Weight approx.		43.6 kg	
Make		Wilo	
Туре		VeroLine-IPH-O 65/110-2.2/2	
Art no.		2105778	

no.	2105778
Observe motor name plate data	

Motor winding from 4 kW	230 V Δ/400 V Y, 50 Hz	
Installation options		
Pipe installation (≤ 15 kW motor power)	with horizontal shaft only	
Support-bracket mounting	-	

Dimensions and dimension drawings: Wilo-VeroLine-IPH-O 65/110-2.2/2



Ordering information: Wilo-VeroLine-IPH-O 65/110-2.2/2

Information for order placements			
Make	ake		
Туре		VeroLine-IPH-O 65/110-2.2/2	
Art no.		2105778	
EAN number		4048482091471	
Colour		Silver	
Minimum order quantity		1	
Minimum order quantity unit		PCE	
Weight (net)	kg	43.6	
Length (net)	mm	559.5	
Width (net)	mm	220	
Height (net)	mm	370	
Weight (gross)	kg	45.1	
Length (gross)	mm	585	
Width (gross)	mm	300	
Height (gross)	mm	380	
Packaging type		Cardboard box	

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اولین و بزرگترین

سایت تخصصی سیستمهای پمپاژ با امکان محاسبه آنلاین و انتخاب پمپ



اولین و بزرگترین مرجع انتخاب آنلاین سی

انتخاب آنلاين انواع بوسترپمپ انتخاب آنلاین انواع پمپ ارائه مطالب تخصصي

تولید بوسترپمپ آتشنشانی

در كلاسهاى S3 - S2 - S1 مورد تاییدسازمان آتشنشانی تهران



تولید بوستر پمپ آبرساني دور متغير بدون محدوديت برند

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صنعت

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در حوزههای:





سرمایش و گرمایش موتورخانه

نرمافزار فنی و مهندسی

استخر، سونا و جکوزی

سیستمهای پمپاژ

تهویه و تخلیه دود سیستمهای پمپاژ ايمنى معماري اطفاء حريق اعلام حريق

آمــوزش

مشاوره - طراحي - اجراء

تاسیسات مکانیکی (موتورخانه - استخر) تهویه و تخلیه دود سیستمهای پمپاژ ايمنى معماري اعلام حريق اطفاء حريق

تهــران، سعـدی شمـالـی، خیابان مرادی نور، پـلاک ۳۱ تلفن: ۶۹۶۶۸۶۷۷–۲۱ه فکس: ۵۵۸۷۶۷۷–۲۱ه

