

Pioneering for You

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Wilo-PB

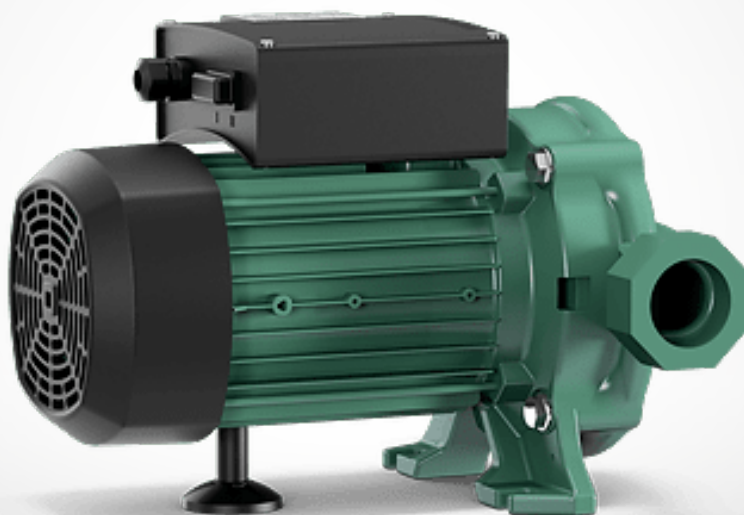


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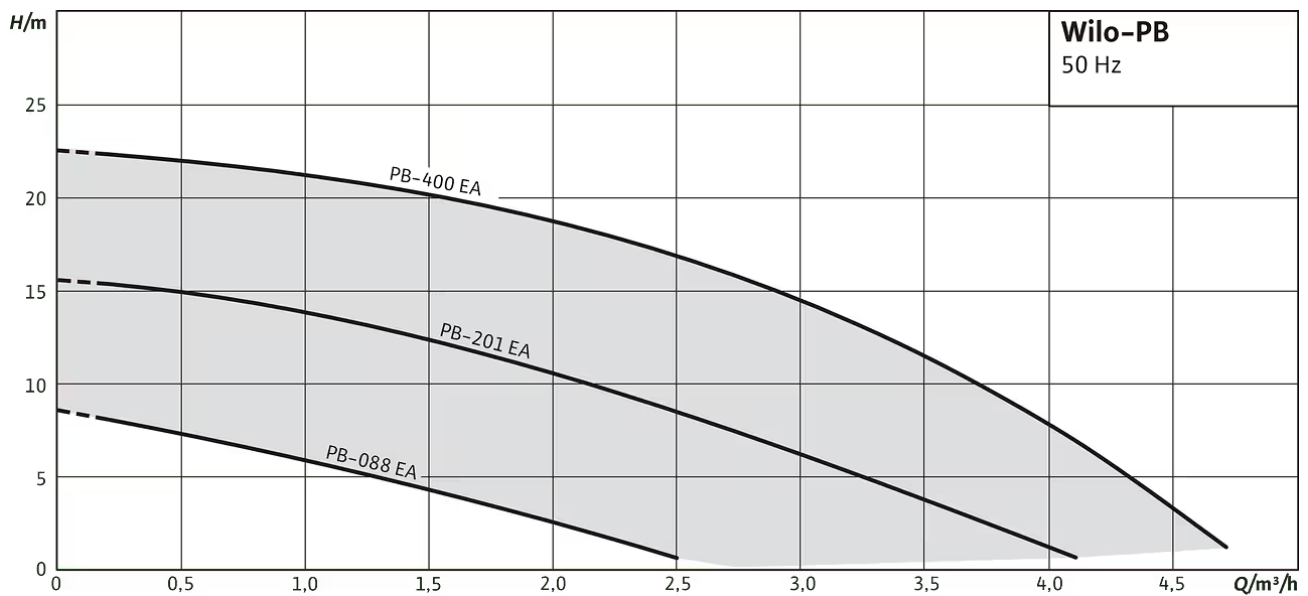


Safe and stable pressure boosting for the residential environment.

The Wilo-PB is a non-self-priming, single-stage centrifugal pump for automatic water supply and pressure boosting. It is suitable for the descending installation of roof-mounted water tanks (e.g. elevated tanks) to the extraction points of the water supply below in semi-detached/detached houses. It is the ideal pump for low or fluctuating water pressure within public water supply networks. Thanks to automatic mode, it always ensures stable water pressure.

Your advantages

- > Dry-running protection for high operational reliability
- > High reliability thanks to automatic mode and corrosion protection through coated hydraulics
- > Standardised design for easy installation
- > Compact design and low-noise operation (55 dBA) for domestic applications
- > Low power consumption thanks to automatic control



Design

Circulating pump

Application

- > Residential pressure boosting from a water tank

Equipment/function

- > Directly flanged motor
- > Thermal motor protection switch for 1~230V version
- > Flow sensor for automation of versions PB-...A
- > Flow sensor, Pressure switch and pressurized tank for automation and protection of versions PB-...S...A

Wilo-PB

Typekey

Example:	Wilo-PB-S252SMA
PB for Pump Boosting	Pump type
S for plastic, C for coating	Functional or material characteristic
25*10 = 250W	Output/10
2 for third generation	Serie number
S for small, N for normal and L for large	Tank size
E for 50Hz, M for 60Hz	Frequency
A for automatic	Automatic device

Technical data

- > Mains connection 1~230 V, 50 Hz (for ...E versions)
- > Mains connection 1~220 V, 60 Hz (for ...M versions)
- > Connection (pressure and suction side): from ¾" up to 1 ¼" - Depending on the models
- > Fluid temperature from 5°C to +80°C [for PB-(S)...A]
- > Fluid temperature from 5°C to +60°C [for PB-...S...A]
- > Ambient temperature from 0°C to +40°C
- > Storage temperature from -20°C to +60°C
- > Max. inlet pressure: From 0.45 bars up to 1.0 bars - Depending on the models
- > Max. outlet pressure: From 1.35 bars up to 3.1 bars - Depending on the versions
- > Switch-on flow: 2l/min (only for PB-(S)...A)
- > Switch-on pressure: 0.8 bars for PB-250SEA / 1.1 bars for PB-401SEA
- > Switch-off flow: 2l/min for PB-(S)...A versions
- > Switch-off flow: 5l/min for PB-...S...A versions
- > Protection class 1~: IP X4

Materials

- > Pump housing: EN-GJL-200 for PB-...A and PB-...S...A
- > Pump housing: mPPO GF30 for PB-S...A
- > Impeller: mPPO GF30 and mPPO GF20 (depending on versions)
- > Terminal box cover: ABS
- > Impeller cover: Brass
- > Shaft: Stainless steel 1.4006
- > Mechanical seal: Carbon/ Ceramic

Scope of delivery

- > Pump
- > Installation and operating instructions
- > Accessory assembly (2 sets of unions, nipple, gasket for piping, for PB-201EA & PB-350MA only)
- > Accessory assembly (2 sets of flanges, gasket, for SEA/SMA type only)

Product list

Product description	Mains connection	Rated power P_2	Gross weight, approx. <i>m</i>	Article number
PB-088EA	1-230 V, 50 Hz	0.06 kW	5.5 kg	3068133
PB-201EA	1-230 V, 50 Hz	0.2 kW	9.5 kg	3068136
PB-400EA	1-230 V, 50 Hz	0.4 kW	12.5 kg	3068138



Data sheet

Hydraulic data

Maximum operating pressure P_N	1 bar
Discharge port	G $\frac{3}{4}$
Min. fluid temperature T_{min}	5 °C
Max. fluid temperature T_{max}	80 °C
Min. ambient temperature T_{min}	0 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Mains connection	1~230 V, 50 Hz
Rated power P_2	0.06 kW
Rated current I_N	0.47 A
Rated speed n	2900 1/min
Insulation class	F
Protection class	IPX4

Materials

Impeller	PPO/PS-GF20
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Installation dimensions

Pipe connection on the suction side DNs	G $\frac{3}{4}$
Pipe connection on the discharge side DNd	G $\frac{3}{4}$

Ordering information

Product data

Brand	Wilo
Product description	PB-088EA
Article number	3068133
EAN number	4048482852218
Colour	green/black
Minimum order quantity	1
Date of sales availability	2019-03-01

Dimension, weight

Length with packaging	210 mm
Length <i>L</i>	190 mm
Height with packaging	150 mm
Height <i>H</i>	119 mm
Width with packaging	190 mm
Width <i>W</i>	178 mm
Gross weight, approx. <i>m</i>	5.5 kg
Net weight, approx. <i>m</i>	3.5 kg

Packaging

Packaging type	Euro pallet
Packaging property	Sales packaging
Pieces per pallet	80
Number per layer	40

Tender text

Non self-priming, single-stage centrifugal pump for automatic water supply/pressure boosting from a tank (e.g. elevated tank) to extraction points located beneath for single-/two-family houses.

Automatic activation and deactivation takes place thanks to a built-in flow switch.

When the extraction point is open, the water flows out of the tank into the pump.

The volume flow created switches on the pump by means of the flow switch, which is integrated into the pressure port.

When the extraction point is closed, the pump switches off due to a lack of volume flow.

Product advantages

- > Stable water pressure due to automatic operation
- > High operational reliability and dry-running protection due to the integrated flow switch
- > Integrated thermal motor protection as standard
- > Extremely low-noise operation
- > Corrosion protection through coated pump hydraulics

Scope of delivery

- > Pump
- > Installation and operating instructions
- > Installation accessories: 2 screwed connections, nipples and gaskets each

Product data

Maximum operating pressure P_N	1 bar
Min. fluid temperature T_{min}	5 °C
Max. fluid temperature T_{max}	80 °C
Max. ambient temperature T_{max}	40 °C

Materials

Impeller	PPO/PS-GF20
Pump housing	Grey cast iron

Motor data

Mains connection	1~230 V, 50 Hz
Voltage tolerance	±10 %
Rated power P_2	0.06 kW
Rated current I_N	0.47 A
Rated speed n	2900 1/min
Insulation class	F
Protection class	IPX4

Installation dimensions

Pipe connection on the suction side DNs	G ¾
Pipe connection on the discharge side DNd	G ¾

Ordering information

Brand	Wilo
Product description	PB-088EA
Net weight, approx. m	3.5 kg
Article number	3068133



Data sheet

Hydraulic data

Maximum operating pressure P_N	2 bar
Discharge port	G $\frac{3}{4}$
Min. fluid temperature T_{min}	5 °C
Max. fluid temperature T_{max}	80 °C
Min. ambient temperature T_{min}	0 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Mains connection	1~230 V, 50 Hz
Rated power P_2	0.2 kW
Rated current I_N	1.51 A
Rated speed n	2900 1/min
Insulation class	F
Protection class	IPX4

Materials

Impeller	PPO/PS-GF20
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Installation dimensions

Pipe connection on the suction side D_Ns	G $\frac{3}{4}$
Pipe connection on the discharge side D_Nd	G $\frac{3}{4}$

Ordering information

Product data

Brand	Wilo
Product description	PB-201EA
Article number	3068136
EAN number	4048482852225
Colour	green/black
Minimum order quantity	1
Date of sales availability	2019-03-01

Dimension, weight

Length with packaging	260 mm
Length <i>L</i>	246 mm
Height with packaging	220 mm
Height <i>H</i>	194 mm
Width with packaging	260 mm
Width <i>W</i>	240 mm
Gross weight, approx. <i>m</i>	9.5 kg
Net weight, approx. <i>m</i>	7.5 kg

Packaging

Packaging type	Euro pallet
Packaging property	Sales packaging
Pieces per pallet	48
Number per layer	12

Tender text

Non self-priming, single-stage centrifugal pump for automatic water supply/pressure boosting from a tank (e.g. elevated tank) to extraction points located beneath for single-/two-family houses.

Automatic activation and deactivation takes place thanks to a built-in flow switch.

When the extraction point is open, the water flows out of the tank into the pump.

The volume flow created switches on the pump by means of the flow switch, which is integrated into the pressure port.

When the extraction point is closed, the pump switches off due to a lack of volume flow.

Product advantages

- > Stable water pressure due to automatic operation
- > High operational reliability and dry-running protection due to the integrated flow switch
- > Integrated thermal motor protection as standard
- > Extremely low-noise operation
- > Corrosion protection through coated pump hydraulics

Scope of delivery

- > Pump
- > Installation and operating instructions
- > Installation accessories: 2 screwed connections, nipples and gaskets each

Product data

Maximum operating pressure P_N	2 bar
Min. fluid temperature T_{min}	5 °C
Max. fluid temperature T_{max}	80 °C
Max. ambient temperature T_{max}	40 °C

Materials

Impeller	PPO/PS-GF20
Pump housing	Grey cast iron

Motor data

Mains connection	1~230 V, 50 Hz
Voltage tolerance	±10 %
Rated power P_2	0.2 kW
Rated current I_N	1.51 A
Rated speed n	2900 1/min
Insulation class	F
Protection class	IPX4

Installation dimensions

Pipe connection on the suction side D_Ns	G ¾
Pipe connection on the discharge side D_Nd	G ¾

Ordering information

Brand	Wilo
Product description	PB-201EA
Net weight, approx. m	7.5 kg
Article number	3068136



Data sheet

Hydraulic data

Maximum operating pressure P_N	3 bar
Discharge port	G 1½
Min. fluid temperature T_{min}	5 °C
Max. fluid temperature T_{max}	80 °C
Min. ambient temperature T_{min}	0 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Mains connection	1~230 V, 50 Hz
Rated power P_2	0.4 kW
Rated current I_N	2.53 A
Rated speed n	2900 1/min
Insulation class	F
Protection class	IPX4

Materials

Impeller	PPO/PS-GF30
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Installation dimensions

Pipe connection on the suction side D_Ns	G 1½
Pipe connection on the discharge side D_Nd	G 1½

Ordering information

Product data

Brand	Wilo
Product description	PB-400EA
Article number	3068138
EAN number	4048482757063
Colour	green/black
Minimum order quantity	1
Date of sales availability	2019-03-01

Dimension, weight

Length with packaging	320 mm
Length <i>L</i>	300 mm
Height with packaging	260 mm
Height <i>H</i>	216 mm
Width with packaging	290 mm
Width <i>W</i>	270 mm
Gross weight, approx. <i>m</i>	12.5 kg
Net weight, approx. <i>m</i>	10.5 kg

Packaging

Packaging type	Euro pallet
Packaging property	Sales packaging
Pieces per pallet	24
Number per layer	8

Tender text

Non self-priming, single-stage centrifugal pump for automatic water supply/pressure boosting from a tank (e.g. elevated tank) to extraction points located beneath for single-/two-family houses.

Automatic activation and deactivation takes place thanks to a built-in flow switch.

When the extraction point is open, the water flows out of the tank into the pump.

The volume flow created switches on the pump by means of the flow switch, which is integrated into the pressure port.

When the extraction point is closed, the pump switches off due to a lack of volume flow.

Product advantages

- > Stable water pressure due to automatic operation
- > High operational reliability and dry-running protection due to the integrated flow switch
- > Integrated thermal motor protection as standard
- > Extremely low-noise operation
- > Corrosion protection through coated pump hydraulics

Scope of delivery

- > Pump
- > Installation and operating instructions
- > Installation accessories: 2 screwed connections, nipples and gaskets each

Product data

Maximum operating pressure P_N	3 bar
Min. fluid temperature T_{min}	5 °C
Max. fluid temperature T_{max}	80 °C
Max. ambient temperature T_{max}	40 °C

Materials

Impeller	PPO/PS-GF30
Pump housing	Grey cast iron

Motor data

Mains connection	1~230 V, 50 Hz
Voltage tolerance	±10 %
Rated power P_2	0.4 kW
Rated current I_N	2.53 A
Rated speed n	2900 1/min
Insulation class	F
Protection class	IPX4

Installation dimensions

Pipe connection on the suction side DNs	G 1 ¼
Pipe connection on the discharge side DNd	G 1 ¼

Ordering information

Brand	Wilo
Product description	PB-400EA
Net weight, approx. m	10.5 kg
Article number	3068138

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