

## Building Service Residential Selection Booklet

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# Wilo

*Cutting-edge technology and strong customer loyalty.*

Wilo is one of the world's leading manufacturers of pumps and pump systems for heating, cooling and air-conditioning technology as well as water supply and sewage disposal. Ever since our formation in 1872, we have concentrated on researching, developing and producing new technologies. Our aim to offer customers all over the world excellent-quality products, top efficiency and maximum service lives combined with simple installation and operation, has made us an internationally renowned innovative leader for high-tech pumps, boasting 15 production sites, over 60 subsidiaries and about 7,500 employees in 50 countries. Everyone working at Wilo aspires to provide the ultimate in service. Ever smaller, more efficient, quieter, more intelligent, more durable and simpler are the key factors when it comes to the development, production and operation of our pumps and systems. We offer an extensive range of products, covering everything from decentralised pump systems for single-family houses right up to large cooling water pumps for power stations. Aside from developing world-class technology, a lot of attention also needs to be paid to our customers so that we can assert and expand our leading position on the German and international markets. This is why we continuously strive to make our customers' lives significantly easier and more efficient through our products and all-in-one solutions. Our "Pioneering for You" claim underlines this.

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## STAR Z TT

### Hot water circulator



**Technical Data:**  
**Flow:** 5 LPM  
**Head:** 1.1 m

#### Application:

- Taps and showers for
- Ⓡ Residential buildings
  - Ⓡ Commercial buildings
  - Ⓡ Small hospitals

#### Standard Features:

- Brass housing pump with integrated timer and temperature control
- 3 programmable switch-on and switch-off times
- Plug n Play "Red button technology press and turn"
- Display with symbolic language
- In built NRV and ball shut off valve
- Silent operation
- Energy efficient and user friendly operating concept
- Maintenance free
- Std. thermal insulation shell
- Rp ½ inner thread for easy installation
- Integrated temperature sensor to detect return line temperature
- Anti blocking function

## Star RS 15/6, RS 25/6, RS 25/8

### Hot water circulator



**Technical Data:**  
**Flow:** 100 LPM  
**Head:** 8 m

#### Application:

- Ⓡ Solar System, Heat Pumps system
- Ⓡ Industrial use
- Ⓡ Cold water systems & air-condition system

#### Standard Features:

- Wet motor pump
- Low power consumption
- 3 pre-selectable speed stage for power adjustment
- Terminal box position rotatable 3h; 6h; 9h; 12h
- Electrical connection possible on both sides of the terminal box

#### Selection Table

Specifications	Star Z 15 TT	RS 15/6	RS 25/6	Rs 25/8
Power Source	230 volts, single phase, 50 hz	230 volts, single phase, 50 hz		
Fluid temperature	20°C to 65°C	-10°C to 110°C		
Total Head (m) High/Med/Low	1.5 / 3.0 / 5.0	6/5/4	6/5/4	7.5/7/5
Max Flow (LPM) High/Med/Low	0.85 / 0.60 / 0.40	64/48/40	64/48/40	90/60/40
Inlet (mm)		15	25	25
Outlet (mm)		15	25	25
O/P Power P2 (W)	2 W	39	39	37
Protection class		IP 42	IP 42	IP 42
Max pressure		10 bar		
Casing	Brass	Cast Iron		
Impeller		Plastic		
Shaft		Stainless Steel		
Weight (kg)	2.1	2.1	2.4	3.8

### RLTC Hot water circulator control panel



#### Standard Features :

- Hot water circulator pump
- Wall Mounted IP 54 Enclosures
- Input Power Supply 230VAC±10%,50Hz 5A
- Out Put Power Supply SPDT 230VAC, 10A resistive
- Ambient Temperature 0 to 40°C
- Relative Humidity 95% non-condensing
- Auto-Off-Manual Switch
- Temperature controller with 7 Segment digital display and keys
- Thermocouple digital sensor
- Programmable Real time digital timer with LCD display

### DTC Hot water circulator control panel

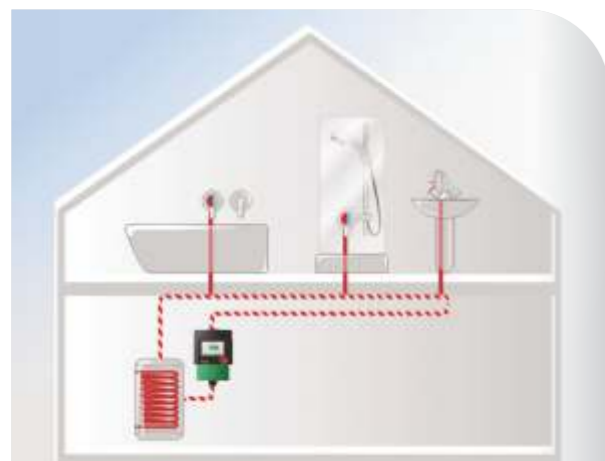


#### Standard Features :

- Wall mounted IP 54 enclosures
- Input Power Supply 230VAC±10%, 50Hz
- Out Put Power Supply SPDT 230VAC, 10A max resistive
- Ambient Temperature 0 to 40°C
- Relative Humidity 85% non-condensing
- Auto-Off-Manual Switch
- Differential Temperature controller with 7 Segment digital display and keys
- Two Thermocouple/NTC Sensors
- Programmable Real time digital timer with LCD display (only in advanced version)

#### Application :

- Specially designed for automatic control of instant hot water in solar application for:
  - Bungalows & Villas
  - Apartment
  - Farm house
  - Hotels
  - Hostels
  - Hospitals
- Hot water circulation in heat pumps system and other systems
- Hot water circulation in industrial use



### PB Inline pressure booster



**Technical Data:**  
**Flow:** upto 80 LPM  
**Head:** upto 19 m  
**Power:** upto 400 Watt  
 Available in 1 Ph

**Application:**

- Ⓡ Pressure boosting water transfer from roof tank to tap
- Ⓡ Silent operation

#### Standard Features:

- Automatic/manual operation
- Easy to carry, install and operate Motor built with Thermal Protector for safety
- Rust-proof casting by electric coating

#### Selection Table

Pump Model	Power Rating		LPM	Head (m)																	
	kW	HP		0	5	10	15	20	25	30	35	40	45	50	55	60	65				
PB88	0.08	0.10	10	9	8	7	6	5	4	1											
PB200	0.20	0.27	16	15	14	13	12	11	10	9	6	3	1								
PB400	0.40	0.54	20	19	18	17	16	15	14	13	12	11	10	8	6	4					

### PW Inline pressure booster



**Technical Data:**  
**Flow:** 40 LPM  
**Head:** 45 mts

**Application:**

- Ⓡ Boosting water pressure at taps and showers
- Ⓡ Water supply for household use
- Ⓡ Water transfer for small machines and instruments
- Ⓡ Sprinkler systems
- Ⓡ Gardening and car washing

#### Standard Features:

- Self priming function
- Automatic operation
- Thermal protector to avoid motor burn out
- Efficient cooling for motor by specially designed cooling fan
- Easy to carry, install and operate

#### Selection Table

Pump Model	Power Rating		LPM	Head (m)												
	kW	HP		0	5	10	15	20	25	30	35	40	45			
PW122	0.18	0.25	39	37	35	30	25	20	12	4	1					
PW175	0.18	0.25	35	33	30	27	27	18	12	6						
PW252	0.25	0.50	43	39	35	31	26	22	18	13	9	4				

Conversion Table: 1 m = 3.281 ft and 1 m<sup>3</sup>/hr = 16.67 LPM = 3.67 GPM

## FWJ / HWJ

### Single pump booster (SS Impeller)


**Technical Data:**
**Flow:** upto 80 LPM

**Head:** upto 46 m

**Voltage:** 1 ~ 230 V, 50 Hz.

**Application:**

Water transfer in

- Ⓡ Bungalows / farm houses
- Ⓡ Apartments / hostels

#### Standard Features:

- Stainless steel pump body
- Stainless steel impeller
- Available with hydro pneumatic tank / electronic control for automatic operation
- High efficient motor suitable for wide voltage fluctuations
- Anti rust material
- Component parts insensitive to corrosion
- Easy to carry, install and operate

#### Selection Table

Pump Model	Power Rating		Connection		Flow Range	Head Range	Pressure Range
	kW	HP	Suction	Discharge	m <sup>3</sup> /hr	m	bar
F/H WJ201	0.37	0.5	1"	1"	0.6 - 3.0	26 - 12	1.2 - 2.0
F/H WJ202	0.60	0.8	1"	1"	0.3 - 4.3	34 - 10	1.2 - 2.5
F/H WJ203	0.75	1.0	1"	1"	0.5 - 4.6	38 - 10	1.5 - 3.0
F/H WJ204	1.10	1.5	1"	1"	0.6 - 4.7	44 - 18	1.5 - 4.0

Technical Specifications of single pump boosters FWJ/HWJ are with fluid control / pressure switch and tank

## HMHIL / FMHIL

### Single pump booster (SS Impeller)


**Technical Data:**
**Flow:** upto 215 LPM

**Head:** upto 62 m

**Voltage:** 1 ~ 230 V, 50 Hz.

**Application:**

Water transfer in

- Ⓡ Bungalows / farm houses
- Ⓡ Apartments / hostels
- Ⓡ Silent in Operation

#### Standard Features:

- Stainless steel impeller
- Wetted parts made up of stainless steel
- Available with hydro pneumatic tank / electronic control for automatic operation
- High efficient motor suitable for wide voltage fluctuations
- Silent in operation
- Easy to carry, install and operate

#### Selection Table

Pump Model	Motor Rate Power		Connection		Flow Range	Head Range	Pressure Range
	kW	HP	Suction	Discharge	m <sup>3</sup> /hr	m	bar
F/H MHIL 102-EM-20	0.37	0.50	1"	1"	0.5 - 3	18.4 - 07.9	1.2 - 1.8
F/H MHIL 103-EM-20	0.37	0.50	1"	1"	0.5 - 3	27.1 - 12.2	1.8 - 2.8
F/H MHIL 104-EM-20	0.55	0.75	1"	1"	0.5 - 3	36.9 - 16.1	2.2 - 3.5
F/H MHIL 105-EM-20	0.55	0.75	1"	1"	0.5 - 3	46.7 - 18.9	2.8 - 4.2
F/H MHIL 106-EM-20	0.55	0.75	1"	1"	0.5 - 3	56.5 - 21.7	3.2 - 4.5
F/H MHIL 302-EM-20	0.37	0.50	1"	1"	0.4 - 5	21.5 - 06.3	1.2 - 1.8
F/H MHIL 303-EM-20	0.55	0.75	1"	1"	0.4 - 5	31.7 - 08.9	1.8 - 2.8
F/H MHIL 304-EM-20	0.55	0.75	1"	1"	0.4 - 5	42.0 - 11.0	2.2 - 3.5
F/H MHIL 305-EM-20	0.75	1.00	1"	1"	0.4 - 5	52.3 - 14.3	2.8 - 4.2
F/H MHIL 306-EM-20	1.10	1.50	1"	1"	0.4 - 5	64.6 - 20.6	3.2 - 4.5
F/H MHIL 502-EM-20	0.55	0.75	1 1/4"	1"	0.5 - 8	21.5 - 07.2	1.2 - 1.8
F/H MHIL 503-EM-20	0.55	0.75	1 1/4"	1"	0.5 - 8	31.4 - 07.8	1.8 - 2.8
F/H MHIL 504-EM-20	0.75	1.00	1 1/4"	1"	0.5 - 8	42.5 - 12.0	2.2 - 3.5
F/H MHIL 505-EM-20	1.10	1.50	1 1/4"	1"	0.5 - 8	55.2 - 19.6	2.8 - 4.2
F/H MHIL 506-EM-20	1.50	2.00	1 1/4"	1"	0.5 - 8	67.5 - 25.0	3.2 - 4.5
F/H MHIL 902-EM-20	0.75	1.00	1 1/2"	1 1/4"	0.8 - 13	21.4 - 09.8	1.2 - 1.8
F/H MHIL 903-EM-20	1.10	1.50	1 1/2"	1 1/4"	0.8 - 13	33.2 - 15.2	1.8 - 2.8
F/H MHIL 904-EM-20	1.50	2.00	1 1/2"	1 1/4"	0.8 - 13	45.2 - 20.8	2.2 - 3.5

Technical Specifications of single pump boosters FMHIL/HMHIL are with fluid control / pressure switch and tank

## VMHIL / VMHI

### Multistage pressure booster system with VFD (SS impeller)



**Technical Data:**  
**Flow:** 10 m<sup>3</sup>/hr  
**Head:** 65 m

**Application:**

The pressure boosting pump with variable frequency drive is used to maintain the constant pressure in water supplies of

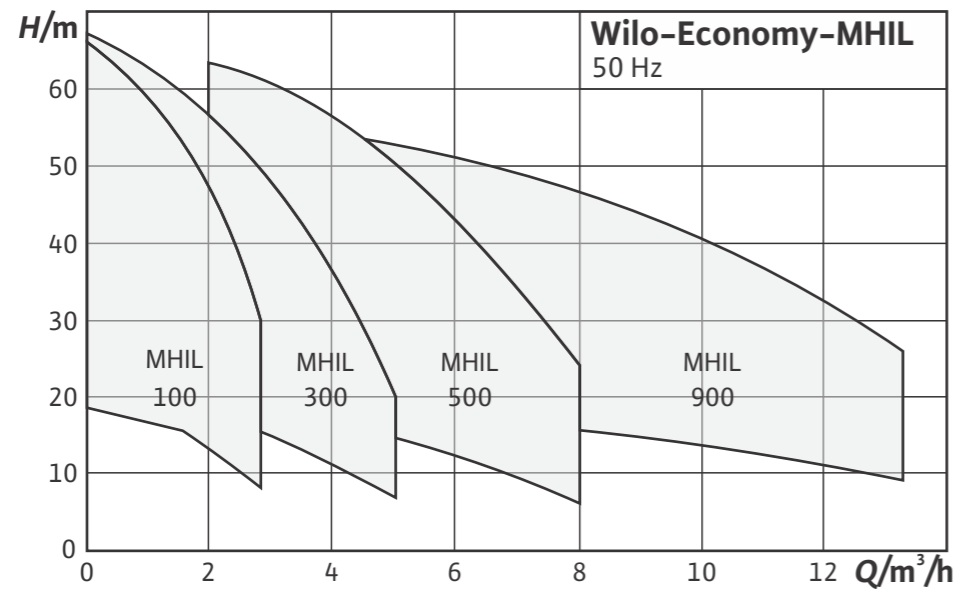
- Ⓡ Residential buildings
- Ⓡ Hotels
- Ⓡ Hospitals
- Ⓡ Water supply and distribution from a sump or a tank

#### Standard Features:

- Horizontal multistage stainless steel centrifugal pump with electric motor.
- Non return brass valve on delivery.
- Five way connector on delivery line.
- Pressure Transmitter and Pressure Gauge.
- Pump and Panel Mounting Base Plate.
- Factory assembled system supplied with pressure tank for ready to use.
- Control Panel with Built in VFD, built in PLC and PID functions for pumping application.
- VFD communication through RS 485 Modbus communication through RJ 45 Connector for BMS.
- Built in over voltage, under voltage, short circuit motor overload and dry run protection with float.

#### Selection Table

Refer Page No. 10 for MHIL / Page No. 11 for MHI



## MHIL / MHI - BC

### Horizontal twin pump booster (SS impeller)



**Technical Data:**  
**Flow:** upto 430 LPM  
**Head:** upto 65 m

**Application:**

Pressure boosting in

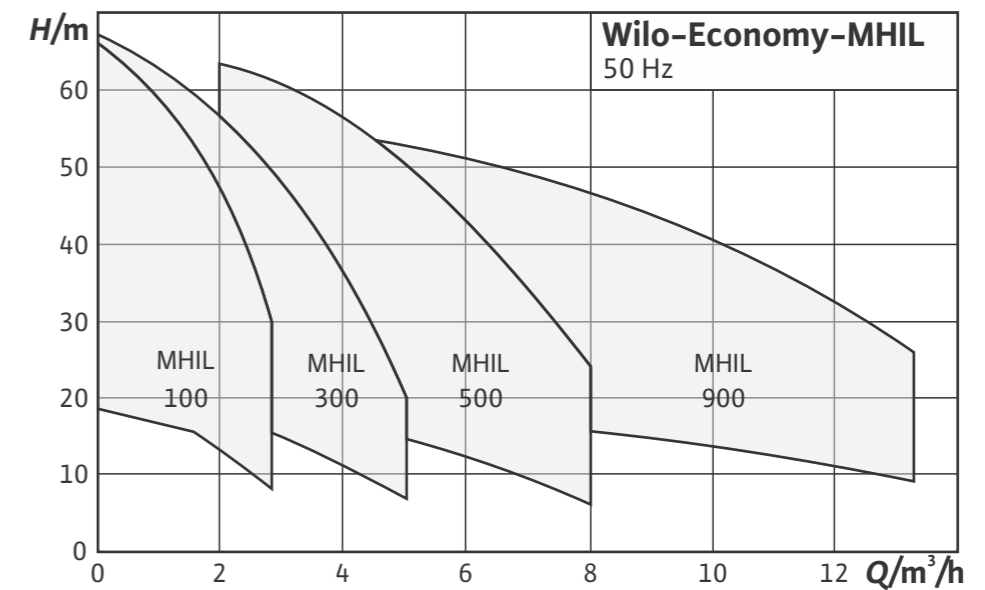
- Ⓡ Bungalows
- Ⓡ Farm houses
- Ⓡ Apartments and
- Ⓡ Hotels

#### Standard Features:

- Horizontal multistage stainless steel centrifugal pump with electric motor
- Factory assembled system along with control panel supplied for ready to use
- Automatic pump cascading and alteration
- Built in over voltage, under voltage, short circuit motor overload and dry run protection with float
- Easy to install and operate

#### Selection Table

Refer Page No. 10 for MHIL / Page No. 11 for MHI



## WJ Self-priming Jet pump (SS body)



**Technical Data:**  
**Flow:** 83 LPM  
**Head:** 50 m  
 Available in single and three phase

- Application:**
- Ⓡ Pumping water from wells
  - Ⓡ Filling, pumping empty, transferring by pumping, irrigation and sprinkling
  - Ⓡ As emergency pump for overflows farms.

### Standard Features:

- Stainless steel pump body
- Stainless steel impeller
- High efficient motor suitable for wide voltage fluctuations
- Anti rust material
- Component parts insensitive to corrosion
- Easy to carry, install and operate

### Selection Table

Pump Model	Power Rating		Discharge in LPM	Head (m)													
	kW	HP		10	12	14	18	20	22	24	26	30	34	38	42	44	
WJ201	0.37	0.5	76		50	46	34	25	20	17	10						
WJ202	0.60	0.8		72	68	62	48	40	36	30	24	14	5				
WJ203	0.75	1.0		74	72	65	60	56	45	40	28	18	8				
WJ204	1.10	1.5				78	76	72	68	64	48	32	22	13	10		

## MHIL Multistage pumpset (SS impeller)



**Technical Data:**  
**Flow:** Upto 58 LPM / 13 m<sup>3</sup>/hr  
**Head:** Upto 68 m  
**Temp.:** -15°C to +90°C  
**Max. Operating Pressure:** 10 bar  
**Max. Inlet pressure:** 6 bar  
 Available in single and three phase

- Application:**
- Water supply and pressure boosting
- Ⓡ Commerce and industry
  - Ⓡ Washing and spraying systems
  - Ⓡ Rainwater utilisation
  - Ⓡ Cooling and cold water circuits

### Standard Features:

- Stainless steel impeller
- Wetted parts made up of stainless steel
- High efficient motor suitable for wide voltage fluctuations
- Silent in operation
- Easy to carry, install and operate

### Selection Table

Pump Model	Power Rating		LPM m <sup>3</sup> /hr	0	8	17	25	33	42	50	58
	kW	HP		0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5
MHIL102	0.37	0.50	Head (m)	20	19	18	16	14	11	8	8
MHIL103	0.37	0.50		29	27	26	24	21	17	13	13
MHIL104	0.55	0.75		39	38	35	32	28	23	16	16
MHIL105	0.55	0.75		50	47	44	40	34	28	20	20
MHIL106	0.55	0.75		61	57	53	47	40	32	22	22
MHIL107	0.55	0.75		67	64	59	53	45	35	24	24

Pipe size - Suction/Delivery - 1" (25 mm)

Pump Model	Power Rating		LPM m <sup>3</sup> /hr	0	17	33	50	67	83	100
	kW	HP		0.0	1.0	2.0	3.0	4.0	5.0	6.0
MHIL302	0.37	0.50	Head (m)	22	21	19	15	11	6	1
MHIL303	0.55	0.75		33	32	27	22	16	9	1
MHIL304	0.55	0.75		43	40	35	28	21	11	1
MHIL305	0.75	1.00		55	50	44	36	26	14	2
MHIL306	1.10	1.50		67	62	56	47	36	21	3

Pipe size - Suction/Delivery - 1" (25 mm)

Pump Model	Power Rating		LPM m <sup>3</sup> /hr	0	17	33	50	67	83	100	117	133	150
	kW	HP		0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
MHIL502	0.55	0.75	Head (m)	22	21	20	19	17	15	13	10	7	4
MHIL503	0.55	0.75		32	31	29	27	24	21	17	13	8	2
MHIL504	0.75	1.00		44	42	40	37	34	29	25	19	12	5
MHIL505	1.10	1.50		56	54	52	49	46	41	35	28	19	8
MHIL506	1.10	1.50		68	67	64	61	56	51	44	36	25	12

Pipe size - Suction - 1 1/4" (32 mm) & Delivery - 1" (25 mm)

Pump Model	Power Rating		LPM m <sup>3</sup> /hr	0	33	67	100	133	150	167	183	200	217
	kW	HP		0	2	4	6	8	9	10	11	12	13
MHIL902	0.75	1.00	Head (m)	22	21	20	18	16	15	14	13	11	10
MHIL903	1.10	1.50		34	33	31	29	27	25	23	21	18	15
MHIL904	1.10	1.50		46	44	42	40	36	33	31	28	25	21
MHIL905	2.20	3.00		58	57	55	51	47	45	41	38	33	27

Pipe size - Suction - 1 1/2" (38 mm) & Delivery - 1 1/4" (32 mm)

## MHI Multistage pumpset (SS impeller)



**Technical Data:**  
**Flow:** 83 LPM  
**Head:** 70 m  
**Temp.:** -15°C to +90°CMax.  
**Operating Pressure:** 10 bar  
**Max. Inlet pressure:** 6 bar  
 Available in single and three phase

**Application:**

- Ⓡ Pumping water from wells
- Ⓡ Filling, pumping empty, transferring by pumping, irrigation and sprinkling
- Ⓡ As emergency pump for overflows.

### Standard Features:

- All pump components made up of stainless steel
- High efficient motor suitable for wide voltage fluctuations
- Silent in operation
- Light and compact construction

### Selection Table

Pump Model	Power Rating kW	HP	LPM m <sup>3</sup> /hr	0	16	25	33	50	67	83	96
MHI202	0.55	0.75	Head (m)	0	1	1	2	3	4	5	6
MHI203	0.55	0.75		22	21	20	18	15	11	6	1
MHI204	0.55	0.75		32	30	28	26	21	15	8	1
MHI205	0.75	1.00		43	41	38	36	29	22	13	4
MHI206	1.10	1.50		56	55	52	49	42	33	23	10

Pipe size - Suction/Delivery - 1" (25 mm)

Pump Model	Power Rating kW	HP	LPM m <sup>3</sup> /hr	0	17	33	50	67	83	100	117	133	147
MHI402	0.55	0.75	Head (m)	0	1	2	3	4	5	6	7	8	9
MHI403	0.55	0.75		22	21	20	19	17	15	12	9	4	0
MHI404	0.75	1.00		34	33	31	29	26	23	19	14	8	2
MHI405	1.10	1.50		45	44	42	39	35	31	26	19	11	2
MHI406	1.50	2.00		57	56	54	51	47	42	36	27	17	7

Pipe size - Suction - 1 1/4" (32 mm) & Delivery - 1" (25 mm)

Pump Model	Power Rating kW	HP	LPM m <sup>3</sup> /hr	0	33	67	100	133	167	200	218	233
MHI802	0.75	1.00	Head (m)	0	2	4	6	8	10	12	13	14
MHI803	1.10	1.50		24	23	21	20	18	15	11	8	6
MHI804	1.50	2.00		36	35	34	31	28	23	18	15	12
MHI805	1.85	2.50		48	47	44	42	38	32	24	19	15

Pipe size - Suction - 1 1/2" (38 mm) & Delivery - 1 1/4" (32 mm)

Pump Model	Power Rating kW	HP	LPM m <sup>3</sup> /hr	0	83	166	250	333	416	450
MHI1602	1.50	2.20	Head (m)	0.0	5.0	10.0	15.0	20.0	25.0	27.0
MHI1603	1.85	2.50		24	22	21	18	14	6	3
MHI1604	2.50	3.40		36	34	31	27	21	11	6

Pipe size - Suction - 2" (50 mm) & Delivery - 1 1/2" (38 mm)

Conversion Table: 1 m = 3.281 ft and 1 m<sup>3</sup>/hr = 16.67 LPM = 3.67 GPM

## TWI 5 Multistage Submersible pumpset (SS)



**Technical Data:**  
**Flow:** upto 266 LPM  
**Head:** upto 88 m  
 TWI3 & TWI5- 1 Ph &  
 TWI9- 1 Ph & 3 Ph

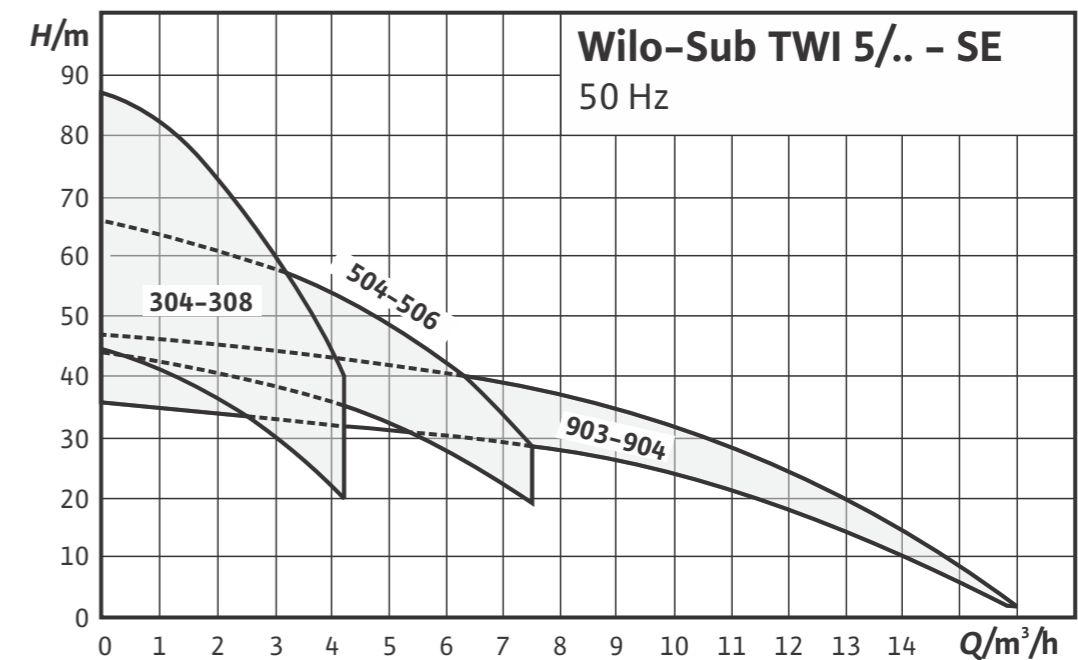
**Application:**  
 Pumping clear water from

- Ⓡ Well
- Ⓡ Rainwater storage tanks and vessels
- Ⓡ Irrigation, sprinkling and pumping out clear water
- Ⓡ Water supply
- Ⓡ Rainwater utilisation

### Standard Features:

- Easy installation and commissioning thanks to ready-to-plug delivery including all accessories
- Thermal motor protection
- Pump (housing, stages, impellers) made entirely of stainless steel
- The self-cooling motor also enables the provision outside the water

### Selection Table



Conversion Table: 1 m = 3.281 ft and 1 m<sup>3</sup>/hr = 16.67 LPM = 3.67 GPM



## De-watering (Polypropylene) pump

TMW



**Technical Data:**  
**Flow:** upto 220 LPM  
**Head:** upto 10 m  
**Solid passage:** upto 10 mm

- Application:**
- Ⓡ Dewatering of waste water in basements, sumps, bungalows
  - Ⓡ Flood control
  - Ⓡ Dewatering at construction sites.

### Standard Features:

- Constantly clean pump sump due to patented integrated turbulator (TMW)
- Minimal residual water level of 2 mm (TMR)
- For aggressive fluids (HD version)
- With float switch (A version)
- Incl. hose connection and 10 m cable

## PD 300



**Technical Data:**  
**Flow:** 160 LPM  
**Head:** 7.5 m

- Application:**
- Ⓡ Clean public bath, water tanks
  - Ⓡ Building basement, drainage of handy sewage facility
  - Ⓡ Drainage to prevent flooding for small places

### Standard Features:

- Lower residual water level
- Smaller motor size
- Auto control by pressure sensor
- Anti rust material
- Component parts insensitive to corrosion

### Selection Table

Pump Model	Power Rating		Phase	Sync. Speed (rpm)	Pipe Size (mm)	Free passage (mm)	Total Head (m)													
	kW	HP					0	2	3	4	5	6	7	8	9					
PD 300	0.37	0.50	1	2800	32	10		160	140	125	100	70								
TMW 32/11	0.55	0.75	1	2800	32	10	240	215	200	180	165	150	120	100	70					

## De-watering pump

FAS / FAC



**Technical Data:**  
**Flow:** upto 1700 LPM  
**Head:** upto 30 m  
**Solid passage:** upto 16 mms

- Application:**
- Ⓡ Dewatering from residential buildings
  - Ⓡ Commercial buildings
  - Ⓡ Industry
  - Ⓡ Hospitals

**Material of construction**  
**Motor body:** Stainless Steel  
**Pump body:** Cast Iron  
**Impeller:** Cast Iron

### Standard Features:

- Attached float switch (A-model) enables easy operation
- Robust high efficiency motor
- Stainless steel motor body with IP 68 protection
- AC thermal motor protection
- Integrated motor control for current overload and high temperature
- Easy to carry and handle

### Selection Table

Pump Model	Power Rating		Phase	Sync. Speed (rpm)	Pipe Size (mm)	Free passage (mm)	Total Head (m)	Total Head (m)												
	kW	HP						3	5	8	10	15	20	25	30					
FAS 50/15	0.75	1.0	1/3	2800	50	10	Discharge in LPM	330	300	235	180	20								
FAS 80/21	1.5	2.0	1/3	2800	80	11		680	630	530	480	300	100							
FAS 50/30	2.2	3.0	1/3	2800	50	11			525	480	465	380	300	190	25					
FAS 80/26	2.2	3.0	1/3	2800	80	11			765	740	640	570	445	270						
FAS 100/21	2.2	3.0	1/3	2800	100	11			1000	920	780	690	400	100						

Pump Model	Power Rating		Phase	Sync. Speed (rpm)	Pipe Size (mm)	Free passage (mm)	Total Head (m)	Total Head (m)																
	kW	HP						7	8	9	10	12	13	14	15	16	18	20	22	24	26	28	30	
FAC 80F/24.66/37*	3.70	5.0	3	2800	80	56	Discharge in LPM	950	910	860	820	750	700	650	600	550	350	200	100					
FAC 80/28 F	3.70	5.0	3	2800	80	15		1250	1200	1170	1110	1050	1000	950	900	850	750	650	500	350	200			
FAC 100/33 F	5.50	7.5	3	2800	100	15		1550	1500	1475	1450	1400	1350	1300	1200	1150	1075	1000	900	800	700	600	400	

\* FAC 80 & 100 - Motor housing is in cast iron

## Sewage pump STS/PDV/TC



**Technical Data:**  
**Flow:** 1500 LPM  
**Head:** 32 m  
**Solid passage:** upto 65 m

**Application:**

- Ⓡ Sewage disposal from residential buildings
- Ⓡ Commercial buildings
- Ⓡ Industry
- Ⓡ Small hospitals

**Material of construction**  
**Motor body:** Stainless Steel  
**Pump body:** Cast Iron  
**Impeller:** Cast Iron

### Standard Features:

- Attached float switch (A-model) enables easy operation
- Robust pump with high efficiency
- Dry motor construction with sealing chamber
- Stainless steel motor body with IP 68 protection
- AC thermal motor protection
- Integrated motor control for current overload and high temperature
- Easy to carry and handle

### Selection Table

Pump Model	Power Rating		Total Head (m)													
	kW	HP	3	4	5	6	7	8	9	10	12	13	14	15	16	17
TC 40/10*	0.60	0.8	255	230	200	170	140	100	50							
PDV-S750*	0.75	1.0	300	270	240	200	160	120	80	20						
STS 50/10	0.37	0.5	280	240	210	170	130	100	50							
STS 80/12	0.75	1.0	500	440	370	325	270	230	170	100						
STS 50/13	0.75	1.0	350	325	300	270	225	200	175	125	100					
STS 50/15	0.75	1.0		400	340	320	270	255	225	200	100	50				
STS 80/18	1.50	2.0		700	650	600	550	490	470	450	350	270	230	200	150	
STS 80/20	2.20	3.0		900	850	800	750	670	620	600	470	400	350	300	200	100

\* TC 40/10 - Impeller is made up of resin  
 \* PDV-S750 - Impeller is made up of stainless steel

## Rexa/MTC Cutter pumpset



**Technical Data:**  
**Flow:** upto 358 LPM  
**Head:** upto 39 m  
**Power:** upto 3.9 kW (5hp)  
**Voltage:** 230 V / 400 V  
**Phase:** Single / Three  
**Max. immersion depth:** 20 m

**Application:**  
 Pumping of:

- Ⓡ Sewage containing faeces
- Ⓡ Pre-cleaned sewage without faeces and long fibre components
- Ⓡ Wasterwater

### Standard Features:

- High reliability through ATEX approval and longitudinally watertight cable inlet (CUT GE...)
- High operational reliability through spherically-formed macerator with pulling cut
- Long service life through a high-quality motor seal with two independent mechanical seals and optional pencil electrode for sealing chamber control

### Selection Table

Pump Model	Motor Rating		Pressure Connection	Flow (LPM)		67	133	200	267	333
	kW	H.P.		Flow (m3/hr)		4	8	12	16	20
Drain MTC40 F 16.15/7/1-230-50	0.7	1.0	Rp 1½/DN 40			15	12	6		
Drain MTC40 F 16.15/7/3-400-50	0.7	1.0	Rp 1½/DN 40			15	22	6		
Drain MTC32 F 39.16/30/3-400-50-2	3.4	5.0	DN 32			37	34	30	25	
Rexa CUT GE03.25/P-T25-2-540X	2.5	3.0	DN 32/40, Rp 1¼	Head (m)		23	19	15	11	5
Rexa CUT GE03.34/P-T39-2-540X	3.9	5.0	DN 32/40, Rp 1¼		31	28	26	22	14	
Rexa CUT GI03.26/S-T15-2-540	1.5	2.0	DN 32/40, Rp 1¼		20	16	12	9	2	
Rexa CUT GI03.26/S-M15-2-523/P	1.5	2.0	DN 32/40, Rp 1¼		20	16	12	9	2	

## WP Mini

### Self-priming mini monoset



**Technical Data:**  
**Flow:** upto 63 LPM  
**Head:** upto 45 m  
**Power:** upto 0.75 kW (1hp)  
**Voltage:** 240 V

**Application:**  
 Water transfer in:  
 ® Bungalows  
 ® Farm houses  
 ® Apartments  
 ® Industry Use

#### Standard Features:

- Suitable for wide band of voltage i.e. 160 volts to 250 volts
- Life long permanent lubricated bearings
- Built in thermal over-load protection
- TEFC, capacitor start & run Motor, insulation class B
- High suction lift upto 7.3 m (at 240 V, single phase)
- High quality aluminium extruded motor body
- Direction of rotation - anticlockwise, when viewed from drive end
- Low life cycle cost - low maintenance, low power consumption and easy motor rewinding

#### Selection Table

Pump Model	Motor Rating		Suction Size (mm)	Delivery Size (mm)	Head (m)										
	kW	H.P.			6	12	18	24	26	30	36	45			
WP MINI 025/026	0.19	0.25	19	19	28	21	15								
WP MINI 050/052	0.37	0.50	25	25	34	23	15	5							
WP MINI 051/053	0.37	0.50	25	25	40	30	24	20	15						
WP MINI 100/101	0.75	1.00	25	25	63	55	46	40	34	28	20				
WP MINI 102	0.75	1.00	25	25	41	33	28	16	13	6					
WPMINI 103	0.75	1.00	25	25	45	35	30	22	15	6					
Wilo Crown 05	0.37	0.50	25	25	30	23	15	7							
Wilo Crown 10	0.75	1.00	25	25	52	45	37	28	20	6					

## WHS C

### Self-priming High suction pumpset



**Technical Data:**  
**Flow:** upto 71 LPM  
**Head:** upto 39 m  
**Power:** upto 1 HP  
**Voltage:** 220 V

**Application:**  
 Water transfer in:  
 → Water transfer for domestic use in Gardening, Apartments, Bungalows, Hotels etc.  
 → Washing - Garages, Laundries, Automobiles service station  
 → For lifting water to overhead storage tanks.  
 → Lawn sprinklers & Pressure Boosting system

#### Standard Features:

- Sturdy & compact design
- High suction lift upto 8 m at 220V
- Single shaft for pump & motor to ensure permanent correct alignment
- Suitable for wide band of voltage i.e. 160V to 240V
- Lifelong permanent lubricated (ZZ) bearings
- High performance TEFC, capacitor start capacitor run motor, class of insulation 'B'
- Built in thermal over-load protection
- Capacitor fixed inside the terminal box to avoid damage
- Dynamically balanced rotating parts to ensure min. vibration, noise free operation & long bearing life
- Sealing arrangement - Mech. seal (high quality for long life)
- Direction of Rotation - CW, from driving end
- High quality electric grade stamping are used for better efficiency
- High Tensile Brass (HTB-1) Impeller to avoid clogging & increase durability
- Safety Feature - earthing provision, TOP
- Low life cycle cost - low maintenance, low power consumption and easy motor rewinding

#### Selection Table

Pump Model	Motor Rating		Pipe Size (mm)		Total Head (m)											
	kW	HP	Suct.	Del.	6	9	12	15	18	21	24	27	30	33	36	39
WHS C05	0.37	0.50	25	25	55	50	45	39	35	28	23					
WHS C10	0.75	1.00	25	25	71	67	61	56	51	47	44	39	35	31	27	23

Note : The above performance is based on mean supply voltage of 220 V @ 1425 RPM at 50 Hz and subject to change due to continuous R&D.

## WHS V Self-priming High suction pumpset



**Technical Data:**  
**Flow:** upto 44 LPM  
**Head:** upto 36 m  
**Power:** upto 0.5 HP  
**Voltage:** 240 V

- Application:**
- Water transfer for domestic use in gardening, apartments, bungalows, hotels etc.
  - Washing – garages, laundries, automobiles service station
  - Circulation of water in solar heater systems
  - For lifting water to overhead storage tanks, lawn sprinklers & pressure boosting system

### Standard Features:

- High performance TEFC, capacitor start & run motor, Class of insulation 'B'
- High suction lift upto 6 m at 240V
- Single shaft for pump & motor
  - to ensure permanent correct alignment
- Sealing arrangement – Mech. seal (high quality for long life)
- Direction of rotation – CW, from driving end
- Safety feature – earthing provision, TOP
- Brass impeller to avoid clogging & increase durability

### Selection Table

Pump Model	Motor Rating		Suc Size (mm)	Del Size (mm)	Flow (LPM)	Total Head (m)										
	(kW)	(H.P.)				6	9	12	15	18	21	24	27	30	33	36
<b>WHS V05</b>	0.37	0.50	25	25		44	42	39	36	33	29	26	22	18	13	9

**Note:** The above performance is based on mean supply voltage of 240 V @ 2800 RPM at 50 Hz and subject to change due to continuous R&D.

## WMB / MPMS Monoblock pumpset- 1 Phase



**Technical Data:**  
**Flow:** upto 750 LPM  
**Head:** upto 30 m  
**Power:** 2 HP  
**Voltage:** 220 V

- Application:**  
 Water supply in:
- ® Buildings
  - ® Apartments
  - ® Hotels
  - ® Irrigation
  - ® Clear water transfer in Industries

### Standard Features:

- Suitable for wide band of voltage i.e. 160V to 240V
- Lifelong permanent lubricated (ZZ) bearings
- High performance TEFC, Class of insulation 'F'
- Built in thermal over-load protection
- Capacitor fixed inside the terminal box to avoid damage
- Dynamically balanced rotating parts to ensure min. vibration, noise free operation & long bearing life
- Sealing arrangement – Mech. Seal (High Quality for long life)
- Designed for automatic air release during priming
- Direction of Rotation – ACW, when viewed from suction side
- Safety Feature – Earthing provision, TOP
- Low life cycle cost – low maintenance, low power consumption and easy motor rewinding

### Selection Table

WMB- 1 Phase @ 2790 RPM

Pump Model	Motor Rating		Pipe Size (mm)		Head (m)									
	kW	HP	Suct.	Del.	6	9	12	15	18	21	24	27	30	
WMB05A	0.37	0.5	25	25	120	110	105	100	75	35				
WMB10A	0.75	1.0	25	25			100	98	95	93	90	70	45	
WMB10C	0.75	1.0	40	40			225	210	185	150	105	45		
WMB15C	1.1	1.5	40	40	320	315	310	300	270	210	130			
WMB20C	1.5	2.0	40	40			340	335	325	275	195	70		
WMB20D	1.5	2.0	50	50	450	430	400	340	275	175				
WMB20E	1.5	2.0	65	50			555	535	425	245				
WMB20G	1.5	2.0	80	80	750	650	520	230						

Pump Model	Motor Rating		Pipe Size (mm)		Discharge (LPM)	Head (m)									
	kW	H.P.	Suct.	Del.		15	16	18	19	21	24	25	27	28	30
MPMS 10HH*	0.75	1.00	32	25	134	130	120	115	105	85	75	55	42	10	
MPMS 20HH*	1.50	2.00	50	40	220	210	205	190	165	155	125	120	80		

\* 230 V

**MPM**

**Non Self priming centrifugal monobloc**



**Technical Data:**  
**Flow:** upto 2300 LPM  
**Head:** upto 78 m  
**Power:** upto 30 HP  
**Voltage:** 230 V (Single phase)  
 415 V (3 phase)

**Application:**  
 Water transfer in:  
 (R) Bungalows  
 (R) Farm houses  
 (R) Apartments

**Material of construction:**  
**Pump:** Cast Iron  
**Impeller:** Cast Iron / Bronze  
**Sealing arrangement:** Gland pack / Mech. seal

**Standard Features:**

- Dynamically balanced rotating parts to ensure min. vibration, noise free operation & long bearing life
- Designed for wide Voltage fluctuations

**Selection Table**

Pump Model	Motor Rating		Pipe Size (mm)		Head (m)										
	kW	H.P.	Suct.	Del.	6	10	12	15	17	19	21	24	27	30	
MPM 011	0.75	1.0	50	50	290	250	210	130							
MPM 012	0.75	1.0	32	25				160	145	125	100	60	20		
MPM 013	0.75	1.0	32	25				135	125	115	105	80	50	10	
MPM 014	0.75	1.0	40	32				150	135	120	100	50			
MPM 0155	1.10	1.5	40	40				260	240	225	210	160	100		
MPM 0156	1.10	1.5	50	50	500	450	320								
MPM 021	1.50	2.0	50	40				200	190	180	165	140	110	60	
MPM 022	1.50	2.0	50	40				290	275	260	235	170			
MPM 023	1.50	2.0	65	50				575	510	410	300				
MPM 023L	1.50	2.0	80	65	850	700	575								

Pump Model	Motor Rating		Pipe Size (mm)		Head (m)																			
	kW	H.P.	Suct.	Del.	10	12	15	17	19	21	24	27	30	32	33	35	38	42	48	50	53			
MPM 034	2.20	3.0	50	40							245	230	205	190	190	150	100							
MPM 035	2.20	3.0	50	40							370	340	300	250										
MPM 036	2.20	3.0	65	50				685	585	520	435	300												
MPM 036H	2.20	3.0	65	50				525	460	350														
MPM 037	2.20	3.0	80	65	850	760	600	400																
MPM 058	3.70	5.0	50	40							475	460	430	410	410	380	340	250						
MPM 059	3.70	5.0	65	50							450	425	425	375	275									
MPM 0510	3.70	5.0	65	50							680	650	600	525	420	300	300							
MPM 0511	3.70	5.0	75	65				1100	1050	980	860	790	490											
MPM 0713	5.50	7.5	50	40													325	270	240	170				
MPM 0714	5.50	7.5	65	50							720	670	605	605	530	440	150							
MPM 0715	5.50	7.5	80	65							990	920	840	750	660	660	400							
MPM 0716	5.50	7.5	100	75				1320	1200	1120	800													

Pump Model	Motor Rating		Pipe Size (mm)		Head (m)																			
	kW	H.P.	Suct.	Del.	17	19	21	24	27	30	32	33	35	38	42	48	50	53	56	59	62			
MPM 1017	7.50	10.0	50	40												360	350	315	280	240	180			
MPM 1018	7.50	10.0	65	50												800	740	650	465	300				
MPM 1019	7.50	10.0	80	65												1040	970	970	850	660				
MPM 1020	7.50	10.0	100	75												1465	1350	1200	1020	800	800			
MPM 1020L	7.50	10.0	100	75												1700	1500	1380	700					
MPM 1221	9.30	12.5	65	50												870	820	775	660	600	425			
MPM 1222	9.30	12.5	80	65												1110	1060	1060	1000	910	700			
MPM 1223	9.30	12.5	100	75												1620	1520	1360	1200	1200				
MPM 1223L	9.30	12.5	100	75												1650	1300	600						

**Selection Table**

Pump Model	Motor Rating		Pipe Size (mm)		Head (m)																					
	kW	H.P.	Suct.	Del.	17	19	21	24	27	30	32	33	35	38	42	48	50	53	56	59	62	65	68	71	74	78
MPM 1524	11.00	15.0	65	50														830	775	700	600	500	325			
MPM 1525	11.00	15.0	65	50														800	750	660	600	480				
MPM 1526	11.00	15.0	80	65														1180	1140	1000	740	630				
MPM 1527	11.00	15.0	100	75														1700	1600	1520	1520	1350	1000			
MPM 1527L	11.00	15.0	100	75	2250	2125	2050	1850	1600	1200																
MPM 2028	15.00	20.0	65	50														900	840	800	740	650	570	470	300	
MPM 2029	15.00	20.0	80	65														1140	1110	1085	1044	950	720			
MPM 2030	15.00	20.0	100	75														1700	1700	1600	1450	1215	600			
MPM 2531	18.60	25.0	100	75														1700	1500	1420	1240	950				
MPM 3032	22.00	30.0	100	75														1840	1800	1780	1750	1700	1580	1500	1280	
MPM 4033	30.00	40.0	125	100														2250	2225	2200	2100	1980				

### MNC

#### Self-priming Non-Clog pump & pumpset



**Technical Data:**  
**Flow:** upto 4446LPM  
**Head:** upto 34 m  
**Power:** upto 26 HP

Available in 3 Ph

**Application:**

- Ⓡ De-watering from trenches and pits
- Ⓡ Mud transfer

**Material of construction:**

**Pump:** Cast Iron  
**Impeller:** Cast Iron / Bronze  
**Sealing arrangement:** Gland pack/Mech. seal

**Standard Features:**

- Self priming and back pull out design for easy maintenance
- Non clog and semi open impeller enables to handle solids up to 40 mm
- Non asbestos PTFE gland packing along with stuffing box arrangement
- Motors are with high operating efficiency and suitable for wide voltage fluctuations
- Replaceable wearing parts and rewind able motor.
- Stator and rotors are coated with rust proof solution for better corrosion resistance.

**Selection Table**

Pump Model	Power Rating		Rated Speed (RPM)	Pipe Size (mm)		Total Head (m)																		Solid Size (mm)	Imp. Ø dia. (mm)	Dir. of Rotation													
	kW	HP		Suct.	Del.	6	8	10	12	14	15	16	18	19	20	22	24	25	26	28	30	32	34																
Monobloc Pumpsets																																							
MNC011M	0.75	1.00	2900	40	40	330	300	266	228	162	138	86	Discharge (LPM)																		7.00	116.00	ACW						
MNC022M	1.50	2.00	2900	40	40																			8.50	134.00	ACW													
MNC033M	2.20	3.00	2900	50	50	564	540	516	474	444	378	342	306	216	126	60																			10.50	144.30	ACW		
MNC055M	3.70	5.00	1450	80	80	1110	1032	935	827	758	684	523	399	276																			15.50	224.00	CW				
MNC056M	3.70	5.00	2900	80	80																			532	502	456	428	409	342	295	209	133	7.00	174.00	ACW				
MNC077M	5.50	7.50	2900	80	80																			846	831	817	798	770	678	570	439	291	14.50	174.00	ACW				
Motor Coupled																																							
MNC011	0.75	1.00	2850	40	40	288	264	240	180	132	78																			7.00	116.00	ACW							
MNC022	1.50	2.00	2850	40	40	366	330	282	258	216	174	132	90																			8.50	134.00	ACW					
MNC033	2.20	3.00	2850	50	50	558	534	492	462	438	378	342	306	222	132	72																			10.50	144.30	ACW		
MNC055	3.70	5.00	1420	80	80	1182	1110	1032	936	810	720	576	342	210																			15.50	224.00	CW				
MNC056	3.70	5.00	2900	80	80																			532	502	456	428	409	342	295	209	133	7.00	174.00	ACW				
MNC077	5.50	7.50	2900	80	80																			846	831	817	798	770	678	570	439	291	14.50	174.00	ACW				
MNC1010	7.50	10.00	1450	100	100	1900	1786	1653	1558	1482	1330	1254	1159	912	646	475																			18.50	292.00	CW		
MNC1212	9.30	12.50	1450	100	100	2280	2138	1976	1900	1824	1682	1590	1464	1300	1060	923	764	325																			23.00	292.00	CW
MNC2020	15.00	20.00	1450	150	150	3753	3515	3306	3183	3050	2774	2588	2405	1900	1330																			34.00	296.00	ACW			
MNC2525	18.70	25.00	1450	150	150	4218	4093	3870	3756	3637	3323	3146	2947	2470	1921	1520	1123																			40.00	296.00	ACW	
Engine Coupled																																							
MNC055	4.50	6.00	1500	80	80	1044	912	858	732	516	372																			15.50	224.00	CW							
MNC055	9.00	12.00	1800	80	80	1242	1218	1146	1104	1050	924	756	660	552	312																			15.50	224.00	CW			
MNC1010	9.00	12.00	1500	100	100	1998	1866	1794	1716	1542	1440	1350	1158	918	762	588																			18.50	292.00	CW		
MNC1212	10.50	14.00	1500	100	100	2310	2184	2124	2010	1890	1818	1740	1506	1236	1062	918	546																			23.00	292.00	CW	
MNC2020	16.50	22.00	1500	150	150	3900	3780	3600	3534	3396	3078	2970	2772	2358	1878	1596	1248																			34.00	296.00	ACW	
MNC2525	19.50	26.00	1500	150	150	4446	4284	4128	4062	3912	3624	3588	3300	2934	2424	2196	1830																			40.00	296.00	ACW	

**NOTE:** Performance applicable to liquid of specific gravity 1 & Viscosity as of water.

\*MNC011M - 1 Ph & 3 Ph

### WPO

#### Horizontal Open well Submersible pumpset- 1 Phase



**Technical Data:**  
**Flow:** 740 LPM  
**Head:** 33 m  
**Power:** upto 3 HP  
**Voltage:** 230 V

**Application:**  
 Water transfer in:  
 Ⓡ Bungalows  
 Ⓡ Farm houses  
 Ⓡ Apartments

**Standard Features:**

- Compact mechanical design
- Highly durable water cooled rewindable motor
- Designed for underwater applications in submerged condition
- Designed for wide Voltage fluctuations
- Dynamically balanced rotating parts to ensure - min. vibration, noise free operation & long bearing life
- Carbon vs SS thrust bearing pads - for low power consumption & long life
- Rotors are painted with epoxy paint - to protect from corrosion
- All internal parts are specially coated - to prevent internal rusting
- No suction & priming problem
- High operating efficiencies of pumpset - result into Low power consumption & electric bills
- Single Phase Pump set are supplied with Starter Box

**Selection Table**

Pump Model	Motor Rating		Pipe Size (mm)		Total Head (m)																																													
	kW	HP	Suct.	Del.	6.0	9.0	10.5	12	13.5	15	18	19.5	21	24	25.5	27	28.5	30	33																															
WPO05L	0.37	0.50	25	25	180	140	120	105	80	55																																								
WPO05H	0.37	0.50	25	25	125	115	105	95	85	60	40																																							
WPO010L	0.75	1.00	40	40	360	315	290	270	245	225	180	150	100																																					
WPO010H	0.75	1.00	32	25																			150	140	115	100	90	75	60																					
WPO015L	1.12	1.50	50	50																			420	390	365	340	310	255	220	180	80																			
WPO015H	1.12	1.50	40	40																																					200	180	150	135	118	100	80			
WPO020L	1.50	2.00	50	50																			450	430	410	390	370	315	285	250	160	100																		
WPO020H	1.50	2.00	40	40																																					290	270	260	250	225	210	190	170	150	80
WPO030L	2.24	3.00	65	50																			740	700	660	630	590	500	450	400	210																			

Pump Model	Motor Rating		Pipe Size (mm)		Total Head (m)										
	kW	HP	Suct.	Del.	9	12	15	18	21	24	27	30	33		
WPO Maxima 05*	0.37	0.5	25	25	Discharge (LPM)	130	120	110	85	55	6				
WPO Maxima 10*	0.75	1.0	32	25		160	158	156	150	135	115	80	46		

\*220V

## MPO

### Horizontal Open well Submersible pumpset- 3 Phase



**Technical Data:**

**Flow:** 1460 LPM  
**Head:** upto 62 m  
**Power:** upto 10 hp  
**Voltage:** available in 3 phase

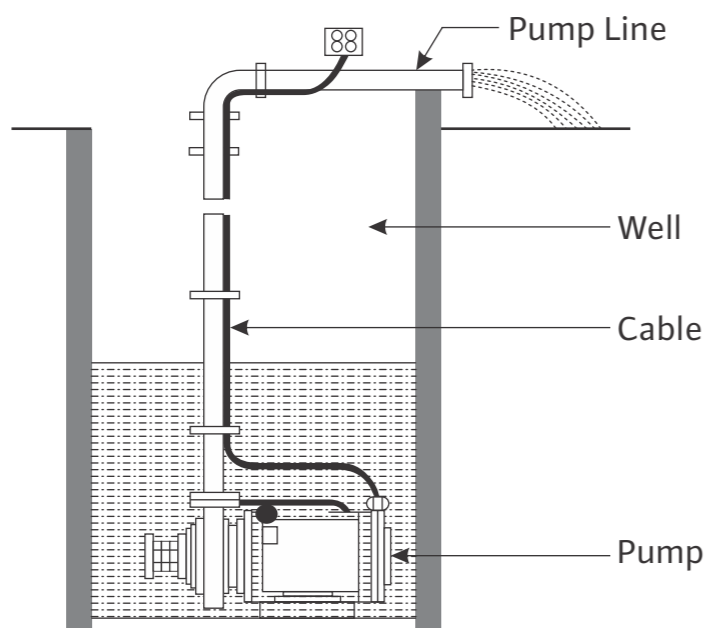
**Application:**

Water transfer in:  
 Ⓡ Bungalows  
 Ⓡ Farm houses  
 Ⓡ Apartments  
 Ⓡ Agriculture

**Standard Features:**

- No need of foundation and foot wall as installed under water
- SS shaft for long and trouble free life
- Energy efficient motor design
- Motor designed to operate in wide voltage range
- Motor filled with anti corrosive liquid to increase life of internal parts
- Strong carbon v/s stainless steel thrust bearing for longer life

### Typical Submerged Installation



## Selection Table

### Openwell 3 Phase

Pump Model	kW	HP	Outlet Size (mm)	Head (m)																					
				8	11	12	15	16	18	19	21	22	24	25	26	28	30	32	33	35	39	41	48	50	56
MPO020	1.50	2.00	40						250	235	220	195	180	150	130	115	50								
MPO020L	1.50	2.00	50	640	550	500	410	350																	
MPO031	2.20	3.00	40											250	240	235	220	205	190	180	150				
MPO032	2.20	3.00	40								350	330	320	290	275	250	180								
MPO033	2.20	3.00	50	680	660	585	550	485	435	300															
MPO034	2.20	3.00	65	930	810	775	600	400																	

Pump Model	kW	HP	Outlet Size (mm)	Head (m)																					
				8	11	12	15	16	18	19	21	22	24	25	26	28	30	32	33	35	39	41	48	50	56
MPO055	3.70	5.00	40											500	490	470	445	425	410	380	300	270			
MPO056	3.70	5.00	50							690	650	635	600	575	550	500	450	325							
MPO057	3.70	5.00	65			1150	1020	960	860	805	690	600	430												
MPO078	5.50	7.50	40																			330	240	210	60
MPO079	5.50	7.50	50											720	685	655	620	590	530	340	250				
MPO0710	5.50	7.50	65							1040	1000	980	920	900	870	785	730	640	590	420					
MPO0711	5.50	7.50	80							1450	1320	1270	1100	1030	850	780	620								

Pump Model	HP	Outlet Size (mm)	Head (m)																						
			19	21	24	27	30	32	33	34	35	38	42	48	50	53	56	59	60	62	65	68	71	74	78
MPO1012	10.0	40													470	420	405	370	325	250	230	100			
MPO1013	10.0	50						820	810	790	770	730	650	420	300										
MPO1014	10.0	65			1250	1150	1050	970	925	900	810	400													
MPO1015	10.0	80			1540	1390	1210	990	750	600															
MPO1016	10.0	80	1400	1200	500																				
MPO1217	12.5	50			1000	920	900	880	870	850	800	740	600	550	400										
MPO1218	12.5	65			1200	1140	1090	1050	1040	1000	910	650													
MPO1219	12.5	80	1770	1640	1470	1300	1060	920	780																

Pump Model	HP	Outlet Size (mm)	Head (m)																							
			19	21	24	27	30	32	33	34	35	38	42	48	50	53	56	59	60	62	65	68	71	74	78	
MPO1520	15.0	50												900	780	735	660	550	440	400						
MPO1521	15.0	50												880	840	785	710	670	625	480	300					
MPO1522	15.0	65												1250	1160	1050	800	600								
MPO1523	15.0	80			1980	1860	1760	1640	1520	1475	1380	1290	800													
MPO2024	20.0	50																850	810	800	740	690	630	550	460	300
MPO2025	20.0	65															1280	1230	1150	1045	900	800	650			
MPO2026	20.0	80							1650	1620	1580	1540	1420	1200	600											
MPO2527	25.0	80												1860	1760	1550	1450	1300	1100							
MPO3028	30.0	80															2250	2080	2000	1830	1710	1550	1500	1350		

## WBW4 - (Water filled) Borewell submersible pumpset (100 mm)



**Technical Data:**  
**Flow:** 500 LPM  
**Head:** 1142 ft  
**Power:** upto 5 HP

### Application

- Domestic household water supply
- Water supply to high rise building, housing complex, villas, farm houses, gardens and nurseries
- Washing – garages, poultry farms, cattle farms, and stud farms
- Fountains

### Standard Fetures:

- Discharge upto to 500 LPM
- Head upto 348 mts (1142 ft)
- Pumps from 0.37 kW (0.5 HP) upto 3.7 kW (5 HP)
- Wide voltage range available in single phase and three phase
- High grade engineered polymer – glass filled virgin Noryl
- High quality Winding Wires to ensure reliability & capability to withstand wide voltage fluctuation
- Adequate Bearing supports are provided at top, bottom and middle for better stability
- Casings are provided with wear ring (SS) for Longer life and ease in maintenance
- Top & Suction Bush are protected by proper Sand Guard arrangement
- Non return valve designed for minimum friction loss
- Water lubricated and fully rewindable motor with 2.75 m 3 core PVC flat cable along with earthing provision
- Resistant to corrosion and abrasion

### Selection Table

**Selection Chart - 4" (100mm) WILO Borehole Submersible Pump Sets → B Series, 1 Phase / 3 Phase @ 2800 RPM**

Pump Set - Description	No. of Stage	Motor Rating		Rated Current		Discharge Dia. (mm)	Discharge (LPM)					
		HP	kW	1 Ph	3 Ph		0	10	20	30	40	50
WBW4B-05/07	7	0.50	0.37	5.3	-	32	53	49	43	37	30	19
WBW4B-08/09	9	0.75	0.55	6.2	2.75	32	66	60	53	44	34	21
WBW4B-08/10	10	0.75	0.55	6.2	2.75	32	73	67	59	49	38	23
WBW4B-10/12	12	1.00	0.75	7.5	3.25	32	86	77	69	59	43	25
WBW4B-10/13	13	1.00	0.75	7.5	3.25	32	93	84	75	63	47	28
WBW4B-10/14	14	1.00	0.75	7.5	3.25	32	101	90	81	68	51	30
WBW4B-10/16	16	1.00	0.75	7.5	3.25	32	115	103	92	78	58	34
WBW4B-15/18	18	1.50	1.10	10.5	4.00	32	131	119	106	90	68	40
WBW4B-15/20	20	1.50	1.10	10.5	4.00	32	145	132	118	100	76	44
WBW4B-20/25	25	2.00	1.50	13.8	4.80	32	189	165	141	124	98	60
WBW4B-30/36	36	3.00	2.20	19.8	6.90	32	264	238	209	176	126	72
WBW4B-30/38	38	3.00	2.20	19.8	6.90	32	278	251	220	185	133	76
WBW4B-30/40	40	3.00	2.20	19.8	6.90	32	293	264	232	195	140	80

**Note:** The above performance is based on mean supply voltage of 220 V / 415 V at 50 Hz and subject to change due to continuous R&D.

Conversion Table: 1 m = 3.281 ft and 1 m<sup>3</sup>/hr = 16.67 LPM = 3.67 GPM

**Selection Chart - 4" (100mm) WILO Borehole Submersible Pump Sets → C Series, 1 Phase / 3 Phase @ 2800 RPM**

Pump Set - Description	No. of Stage	Motor Rating		Rated Current		Discharge Dia. (mm)	Discharge (LPM)					
		HP	kW	1 Ph	3 Ph		0	25	25	35	45	55
WBW4C-10/10	10	1.0	0.75	7.5	3.25	32	78	68	62	50	38	23
WBW4C-10/12	12	1.0	0.75	7.5	3.25	32	93	81	74	60	45	28
WBW4C-15/15	15	1.5	1.10	10.5	4.00	32	116	108	95	78	55	32
WBW4C-15/16	16	1.5	1.10	10.5	4.00	32	124	115	102	83	58	34
WBW4C-20/18	18	2.0	1.50	13.8	4.80	32	142	129	114	95	67	38
WBW4C-20/20	20	2.0	1.50	13.8	4.80	32	158	143	127	105	74	42
WBW4C-20/22	22	2.0	1.50	13.8	4.80	32	174	157	140	116	81	46
WBW4C-30/25	25	3.0	2.20	19.8	6.90	32	191	171	146	121	86	53
WBW4C-30/28	28	3.0	2.20	19.8	6.90	32	214	192	164	136	96	59
WBW4C-30/31	31	3.0	2.20	19.8	6.90	32	237	212	181	150	106	65
WBW4C-30/35	35	3.0	2.20	19.8	6.90	32	268	240	205	170	120	74
WBW4C-40/45	45	4.0	3.00	24.3	9.00	32	332	288	250	212	148	95
WBW4C-50/50	50	5.0	3.70	28.0	10.60	32	348	315	275	234	164	105

**Selection Chart - 4" (100mm) WILO Borehole Submersible Pump Sets → D Series, 1 Phase / 3 Phase @ 2800 RPM**

Pump Set - Description	No. of Stage	Motor Rating		Rated Current		Discharge Dia. (mm)	Discharge (LPM)							
		HP	kW	1 Ph	3 Ph		0	20	35	50	60	70	80	
WBW4D-08/05	5	0.75	0.55	6.2	2.75	32	41	40	38	33	27	25	17	
WBW4D-08/06	6	0.75	0.55	6.2	2.75	32	49	47	45	40	33	28	20	
WBW4D-10/08	8	1.00	0.75	7.5	3.25	32	65	60	55	52	43	35	25	
WBW4D-15/10	10	1.50	1.10	10.5	4.00	32	82	75	68	62	54	42	32	
WBW4D-15/11	11	1.50	1.10	10.5	4.00	32	90	83	75	68	59	46	35	
WBW4D-20/13	13	2.00	1.50	13.8	4.80	32	106	102	97	85	71	61	46	
WBW4D-20/15	15	2.00	1.50	13.8	4.80	32	122	118	111	98	82	71	53	
WBW4D-30/19	19	3.00	2.20	19.8	6.90	32	155	140	130	112	94	80	59	
WBW4D-30/21	21	3.00	2.20	19.8	6.90	32	171	155	144	124	104	89	65	
WBW4D-30/24	24	3.00	2.20	19.8	6.90	32	196	177	164	142	119	102	74	
WBW4D-40/28	28	4.00	3.00	24.3	9.00	32	224	205	191	165	140	118	87	
WBW4D-50/31	31	5.00	3.70	28.0	10.60	32	245	220	206	180	155	130	93	
WBW4D-50/33	33	5.00	3.70	28.0	10.60	32	261	234	219	191	165	139	99	
WBW4D-50/35	35	5.00	3.70	28.0	10.60	32	277	249	232	203	175	147	105	
WBW4D-50/36	36	5.00	3.70	28.0	10.60	32	284	256	239	209	180	151	108	
WBW4D-50/38	38	5.00	3.70	28.0	10.60	32	300	270	252	220	190	160	114	

**Selection Chart - 4" (100mm) WILO Borehole Submersible Pump Sets → E Series, 1 Phase / 3 Phase @ 2800 RPM**

Pump Set - Description	No. of Stage	Motor Rating		Rated Current		Discharge Dia. (mm)	Discharge (LPM)							
		HP	kW	1 Ph	3 Ph		0	35	50	70	90	110	130	
WBW4E-10/05	5	1.0	0.75	7.5	3.25	40	39	37	35	33	26	19	13	
WBW4E-15/07	7	1.5	1.10	10.5	4.00	40	55	51	48	46	36	27	17	
WBW4E-15/08	8	1.5	1.10	10.5	4.00	40	63	58	55	52	41	31	20	
WBW4E-20/10	10	2.0	1.50	13.8	4.80	40	79	72	68	63	52	38	25	
WBW4E-20/12	12	2.0	1.50	13.8	4.80	40	95	86	82	75	62	46	30	
WBW4E-30/15	15	3.0	2.20	19.8	6.90	40	119	107	101	90	75	58	36	
WBW4E-30/16	16	3.0	2.20	19.8	6.90	40	127	114	107	96	80	62	38	
WBW4E-30/18	18	3.0	2.20	19.8	6.90	40	143	128	121	108	90	69	43	
WBW4E-40/21	21	4.0	3.00	24.3	9.00	40	161	145	138	120	101	76	49	
WBW4E-50/25	25	5.0	3.70	28.0	10.60	40	193	175	166	153	123	95	65	

**Selection Chart - 4" (100mm) WILO Borehole Submersible Pump Sets → F Series, 1 Phase / 3 Phase @ 2800 RPM**

Pump Set - Description	No. of Stage	Motor Rating		Rated Current		Discharge Dia. (mm)	Discharge (LPM)								
		HP	kW	1 Ph	3 Ph		0	50	60	75	90	110	130	150	
WBW4F-10/04	4	1.0	0.75	7.5	3.25	40	33	29	28	26	23	20	13	9	
WBW4F-15/06	6	1.5	1.10	10.5	4.00	40	51	45	43	41	36	30	23	13	
WBW4F-20/08	8	2.0	1.50	13.8	4.80	40	66	58	56	50	46	38	28	16	
WBW4F-20/10	10	2.0	1.50	13.8	4.80	40	83	73	70	63	57	48	35	20	
WBW4F-30/12	12	3.0	2.20	19.8	6.90	40	101	90	86	81	72	60	47	26	
WBW4F-30/15	15	3.0	2.20	19.8	6.90	40	126	112	108	101	90	75	58	33	
WBW4F-40/16	16	4.0	3.00	24.3	9.00	40	132	115	111	104	94	78	60	35	
WBW4F-50/20	20	5.0	3.70	28.0	10.60	40	158	139	133	124	110	94	66	40	
WBW4F-50/22	22	5.0	3.70	28.0	10.60	40	174	153	146	136	121	104	73	44	
WBW4F-50/25	25	5.0	3.70	28.0	10.60	40	198	174	166	155	138	119	83	50	

**Note:** The above performance is based on mean supply voltage of 220 V / 415 V at 50 Hz and subject to change due to continuous R&D.

Conversion Table: 1 m = 3.281 ft and 1 m<sup>3</sup>/hr = 16.67 LPM = 3.67 GPM



**Selection Chart - 4" (100mm) WILO Borehole Submersible Pump Sets → G Series, 1 Phase / 3 Phase @ 2800 RPM**

Pump Set - Description	No. of Stage	Motor Rating		Rated Current		Discharge Dia. (mm)	Total Head (m)	Discharge (LPM)								
		HP	kW	1 Ph	3 Ph			0	100	120	140	160	180	200	220	240
								55	45	41	37	32	27	22	16	9
WBW4G-20/08	8	2.0	1.50	13.80	4.80	50	55	45	41	37	32	27	22	16	9	
WBW4G-30/10	10	3.0	2.20	19.80	6.90	50	68	57	52	47	40	34	28	20	12	
WBW4G-30/12	12	3.0	2.20	19.80	6.90	50	82	68	62	56	48	41	33	24	14	
WBW4G-50/17	17	5.0	3.70	28.00	10.60	50	116	96	88	79	68	58	47	34	20	
WBW4G-50/20	20	5.0	3.70	28.00	10.60	50	137	113	103	93	80	68	55	40	23	

**Selection Chart - 4" (100mm) WILO Borehole Submersible Pump Sets → H Series, 1 Phase / 3 Phase @ 2800 RPM**

Pump Set - Description	No. of Stage	Motor Rating		Rated Current		Discharge Dia. (mm)	Total Head (m)	Discharge (LPM)								
		HP	kW	1 Ph	3 Ph			0	120	180	240	280	320	360	400	415
								41	34	31	27	25	21	16	13	10
WBW4H-30/07	7	3.0	2.20	19.80	6.90	50	41	34	31	27	25	21	16	13	10	
WBW4H-30/09	9	3.0	2.20	19.80	6.90	50	52	43	40	35	32	27	21	16	13	
WBW4H-50/12	12	5.0	3.70	28.00	10.60	50	70	58	53	47	42	36	28	22	17	
WBW4H-50/14	14	5.0	3.70	28.00	10.60	50	82	68	62	55	49	42	33	26	20	

**Selection Chart - 4" (100mm) WILO Borehole Submersible Pump Sets → I Series, 1 Phase / 3 Phase @ 2800 RPM**

Pump Set - Description	No. of Stage	Motor Rating		Rated Current		Discharge Dia. (mm)	Total Head (m)	Discharge (LPM)								
		HP	kW	1 Ph	3 Ph			0	180	220	280	340	380	420	460	500
								31	24	21	20	17	15	14	12	10
WBW4I-20/05	5	2.0	1.50	13.80	4.80	50/65*	31	24	21	20	17	15	14	12	10	
WBW4I-30/07	7	3.0	2.20	19.80	6.90	50/65*	43	33	30	28	24	21	20	17	13	
WBW4I-40/09	9	4.0	3.00	24.30	9.00	50/65*	56	43	38	36	30	27	25	22	17	
WBW4I-50/11	11	5.0	3.70	28.00	10.60	50/65*	68	52	47	44	37	33	31	27	21	

**Note:** The above performance is based on mean supply voltage of 220 V / 415 V at 50 Hz and subject to change due to continuous R&D.

**Conversion Table:** 1 m = 3.281 ft and 1 m<sup>3</sup>/hr = 16.67 LPM = 3.67 GPM

**WBW6 - (Water filled)**  
Borewell submersible pumpset (150 mm)



**Technical Data:**  
**Flow:** 1250 LPM  
**Head:** 745 ft  
**Power:** upto 12.5 HP

**Application**

- Domestic & community water supply
- Water supply to high rise building, housing complex, villas & hotels, fountains
- Farm houses, gardens and nurseries
- Drip and sprinkler irrigation
- Washing - garages, poultry farms, cattle farms, and stud farms
- Industrial applications

**Standard Fetures:**

- Discharge upto to 440 LPM
- Head upto 227 m (745 ft)
- Pumps from 2.2 kW (3.0 HP) upto 9.3 kW (12.5 HP)
- Wide voltage range available
- High quality winding wires to ensure reliability & capability to withstand wide voltage fluctuation
- Adequate bearing supports are provided at top, bottom and middle for better stability
- Top & suction bush are protected by proper sand guard arrangement
- Non return valve designed for minimum friction loss
- Water lubricated and fully rewindable motor with 2.75 m 3 core PVC flat cable along with earthing provision
- WBW6-A to K Series with in-built CI diffuser, S S impeller and SS sleeve with hard chrome plating

**Conversion Table:** 1 m = 3.281 ft and 1 m<sup>3</sup>/hr = 16.67 LPM = 3.67 GPM

**SELECTION CHART**

**Selection Chart- 6" (150 mm) WILO Borehole Submersible Pump Sets → A to K Series, 3 Phase @ 2900 RPM**

Pump Set - Description	No. of Stage	Motor Rating		Starting method	Rated Current	Discharge Dia. (mm)	Discharge (LPM)							
		HP	kW				3 Ph							
WBW6A-30/08	8	3.0	2.2	DOL	6.5	50	0	50	75	100	130	150	175	200
WBW6B-30/06	6	3.0	2.2	DOL	6.5	50	0	75	100	140	150	175	200	225
WBW6B-40/10	10	4.0	3.0	DOL	8.5	50	68	60	56	46	43	35	25	13
WBW6B-50/12	12	5.0	3.7	DOL	10.0	50	113	100	93	77	72	58	42	22
WBW6B-75/16	16	7.5	5.5	DOL	14.5	50	136	120	112	92	86	70	50	26
WBW6B-75/16	16	7.5	5.5	S/D	14.5	50	181	160	149	123	115	93	67	35
WBW6B-75/20	20	7.5	5.5	DOL	14.5	50	181	160	149	123	115	93	67	35
WBW6B-75/20	20	7.5	5.5	S/D	14.5	50	227	200	187	153	143	117	83	43
WBW6B-75/20	20	7.5	5.5	S/D	14.5	50	227	200	187	153	143	117	83	43
WBW6C-50/08	8	5.0	3.7	DOL	10.0	50	0	100	125	150	190	200	250	300
WBW6C-60/10	10	6.0	4.5	DOL	12.0	50	87	79	76	72	63	60	44	24
WBW6C-75/12	12	7.5	5.5	DOL	14.5	50	109	99	95	90	79	75	55	30
WBW6C-75/12	12	7.5	5.5	S/D	14.5	50	131	119	114	108	95	90	66	36
WBW6C-75/12	12	7.5	5.5	S/D	14.5	50	131	119	114	108	95	90	66	36
WBW6C-100/16	16	10.0	7.5	S/D	19.5	50	174	158	152	144	126	120	88	48
WBW6E-30/04	4	3.0	2.2	DOL	6.5	50	0	125	150	200	245	300	350	400
WBW6F-30/03	3	3.0	2.2	DOL	6.5	50	45	41	40	37	33	27	22	14
WBW6F-50/05	5	5.0	3.7	DOL	10.0	50	0	100	175	235	300	350	400	440
WBW6F-75/08	8	7.5	5.5	DOL	14.5	50	37	36	35	32	27	23	17	13
WBW6F-75/08	8	7.5	5.5	S/D	14.5	50	62	60	58	54	46	38	29	21
WBW6F-100/10	10	10.0	7.5	S/D	19.5	50	98	96	93	86	73	61	46	34
WBW6F-100/10	10	10.0	7.5	S/D	19.5	50	98	96	93	86	73	61	46	34
WBW6F-100/10	10	10.0	7.5	S/D	19.5	50	123	120	116	107	91	76	58	42
WBW6G-50/05	5	5.0	3.7	DOL	10.0	65	0	350	400	450	520	570	620	715
WBW6G-75/08	8	7.5	5.5	DOL	14.5	65	54	42	40	36	32	28	16	6
WBW6G-75/08	8	7.5	5.5	S/D	14.5	65	87	67	64	58	51	44	26	10
WBW6G-100/10	10	10.0	7.5	S/D	19.5	65	87	67	64	58	51	44	26	10
WBW6G-125/12	12	12.5	9.3	S/D	25.0	65	109	84	80	73	64	55	33	13
WBW6G-125/12	12	12.5	9.3	S/D	25.0	65	131	101	96	87	77	66	39	15
WBW6H-50/04	4	5.0	3.7	DOL	10.0	65	0	400	450	510	600	650	700	750
WBW6I-50/03	3	5.0	3.7	DOL	10.0	75	44	33	31	28	22	18	13	9
WBW6I-75/05	5	7.5	5.5	DOL	14.5	75	0	450	550	660	700	750	850	930
WBW6I-75/05	5	7.5	5.5	DOL	14.5	75	37	28	26	22	20	19	13	8
WBW6I-75/05	5	7.5	5.5	S/D	14.5	75	62	47	43	37	34	31	21	13
WBW6J-75/04	4	7.5	5.5	DOL	14.5	75	62	47	43	37	34	31	21	13
WBW6J-75/04	4	7.5	5.5	S/D	14.5	75	0	550	650	750	850	950	1050	1200
WBW6J-100/05	5	10.0	7.5	S/D	19.5	75	48	36	34	33	30	27	22	14
WBW6K-75/03	3	7.5	5.5	DOL	14.5	75	48	36	34	33	30	27	22	14
WBW6K-75/03	3	7.5	5.5	S/D	14.5	75	60	45	43	41	38	34	28	18
WBW6K-100/04	4	10.0	7.5	S/D	19.5	75	0	650	750	860	950	1050	1150	1250
WBW6K-100/04	4	10.0	7.5	S/D	19.5	75	41	29	28	26	25	22	17	12
WBW6K-100/04	4	10.0	7.5	S/D	19.5	75	41	29	28	26	25	22	17	12
WBW6K-100/04	4	10.0	7.5	S/D	19.5	75	55	39	37	35	33	29	22	16

Total Head (m)

• Contact us for higher duties

Note: The above performance is based on mean supply voltage of 415 V at 50 Hz and subject to change due to continuous R&D.

Conversion Table: 1 m = 3.281 ft

1 m<sup>3</sup>/hr = 16.67 LPM = 3.67 GPM

**Control Panel for WBW4**  
Control Panel for Borewell submersible pumpset (WBW4)



**Technical Data:**  
Power: 0.5 HP to 5.0 HP  
Phase: 1 Ph & 3 Ph

- Application**
- Ⓡ Domestic household water supply
  - Ⓡ Water supply to high rise buildings, housing complex, villas, farm houses, gardens & nurseries
  - Ⓡ Washing – garages, poultry farms, cattle farms & stud farms
  - Ⓡ Fountains

**Common Standard Features:**

- Excellent aesthetically designed & Robust construction
- Wall mounted/Floor Mounted Powder coated sheet metal enclosure, 1 nos. of earth terminal
- Easy to install, operate & maintain
- Fitted with 4 Pole heavy duty contactor it's can operate under wide voltage range
- Backup O/L Protection by OLR
- Highly Precise Digital display unit for Full Fledged Motor Protection
- Password protection for security
- Plug & Play– interchangeable parts

**Control Panel- Single Phase:**

- Digital DRP Controller with Dry Run, Over Voltage, Under Voltage protection
- Over Load Relay for Over Load protection with wide range of Relay setting suitable for site conditions
- Start & Stop Push Buttons
- Start Capacitor for starting torque, run capacitor with connector for easy replacement

**Control Panel- Three Phase:**

- Digital Multifunction Controller with Dry Run, Over Voltage, Under Voltage, Single Phase Protection
- Over Load Relay for Over Load protection with wide range of Relay setting suitable for site conditions
- Controller working in three modes – Auto Mode, Manual Mode & Timer Mode
- Twin Start & Stop Push Buttons, ON + OFF Timer & Auto Switch for Automatic Operation

**Technical Specification of Control Panel**

Motor Rating	Control Panel- Single Phase							Control Panel- Three Phase			
	Running Capacitor	Starting Capacitor	Full Load Current (FLC)	OLR Selection	Overvoltage (OV)	Undervoltage (UV)	Full Load Current (FLC)	OLR Selection	Overvoltage (OV)	Undervoltage (UV)	
HP	kW	(MFD)	(MFD)	(A)	(A)	(V)	(V)	(A)	(A)	(V)	(V)
0.50	0.37	36	120/150	5.3	6-10	240	150	NA	NA	NA	NA
0.75	0.55	36	120/150	6.2	6-10	240	150	2.75	2.5 - 4.0	440	250
1.00	0.75	36	120/150	7.5	9-14	240	150	3.25	2.5 - 4.0	440	250
1.50	1.10	45	150/200	10.5	9-14	240	150	4.00	4.0 - 6.5	440	250
2.00	1.50	60	150/200	13.8	13-21	240	150	4.80	4.0 - 6.5	440	250
3.00	2.20	72	200/250	19.8	20-32	240	150	6.90	6.0 - 10.0	440	250
4.00	3.00	100	200/250	26.0	20-32	240	150	9.00	9.0 - 14.0	440	250
5.00	3.70	100	200/250	30.0	30-40	240	150	10.60	9.0 - 14.0	440	250

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**Notes:**

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**Notes:**

A series of horizontal dotted lines for writing notes.

