Circulator pumps

MAGI 2
MAGI MAX
MAGI-H
AMG
NOVA
NOVA MAX
IVO

Circulations pumps

BETA 2
OHI PRO
OHI PRO MAX
DN25 manifold
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OHI
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Magnetic Filter
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3 YEARS GUARANTEE

MAGI 2

SERWIS 48

Energy-saving electronic circulation pumps which meet the requirements of A-rated pumps.
The energy efficiency index of pumps from the MAGI series is:

EEI ≤ 0,23

which according to the Commission Regulation (EU) No. 622/2012 is the eference criterion for: the most energy-efficient circulation pumps.

The MAGI series circulation pump is equipped with a permanent magnet motor and a differential pressure controller which automatically and continuously adjusts the pump performance to meet the actual needs of the system. The pump control panel is placed on the top of the motor, which makes it easy to operate by the user. The current consumption of electricity is displayed on its dial. The pump set includes a set of screw connections with an adapter for connecting the cable.
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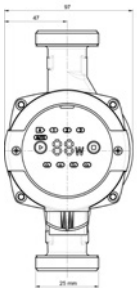
The pump has 8 operating modes:

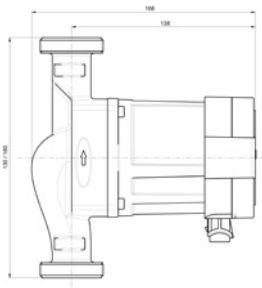
- AUTO (factory default) - high to low proportional pressure characteristic curve
- LPP / HPP - Proportional pressure curves
- LCP / HCP - Constant pressure curves
- I/II/III - Constant speed curves

Application:

The MAGI series circulation pump is best suited for the following systems:
Equithermic heating systems with variable flow:

- Heating systems with variable pipeline temperature
- Heating systems with night mode
- Air conditioning systems
- Industrial circulation systems
- Home central heating systems and home hot water systems





SPECIFICATIONS		
Electrical supply	1 × 230 V +6%/-10%, 50 Hz	
Motor protection	There is no need for an additional motor protection.	
Ingress Protection Code	IP 44	
Insulation class	H	
Maximum ambient relative humidity	≤ 95%	
Maximum pressure in the central heating system	1 Mpa	
Minimum inlet suction pressure depending on heating medium temperature	Medium temperature	
	≤ 85°C	0,005 MPa
	≤ 90°C	0,028 MPa
	≤ 110°C	0,100 MPa
EMC compliance	EN61000-6-1; EN61000-6-3	
Running pump sound pressure	43 dB (A)	
Allowable ambient temperature	0~+40°C	
Maximum heating medium temperature	TF110	
Maximum heat of pump surface	≤ 115°C	
Fluid temperature range	2~+110°C	

Name	Operation mode (x1)	Lift (m)	Capacity (l/min)	Motor power (W)	Connector diameter (inch)	Connector spacing (mm)	Dimensions						
							L1	L2	B1	B2	H1	H2	G
MAGI 2 25-40/180	7	4	50	5–22	1½ × 1	180	90	180	52	99	129	169	1½"
MAGI 2 25-60/130	7	6	55	5–45	1½ × 1	130	65	130	52	99	129	169	1½"
MAGI 2 25-60/180						180	90	180	52	99	129	169	
MAGI 2 25-80/180	7	8	90	5–70	1½ × 1	180	90	180	52	99	129	169	1½"
MAGI 2 32-80/180			95		2 × 1½								2"

MAGI MAX

Energy-saving electronic circulation pumps with A energy-efficiency rating.
Energy Efficiency Index for MAGI pumps is:

EEI ≤ 0,23

The MAGI circulating pump is equipped with a permanent magnet motor and a pressure differences regulator for automatic and continuous pump capacity adjustment to the actual requirements of the system. The pump control panel is located on top of the motor for easier operation by the user. Current power consumption is displayed on its panel.
The pump is supplied with union joints and cable adapter.

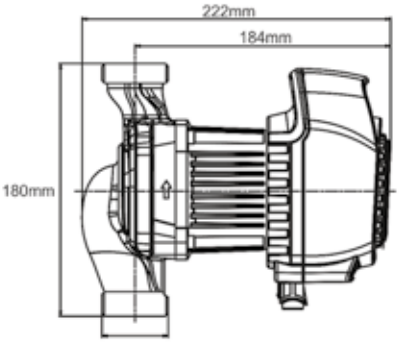
The pump provides 9 operating modes:

- ECO (factory setting)- From highest to lowest proportional pressure characteristic curve
- PP2/PP3/PP4/PP5 - Proportional pressure curves
- CP2/CP3/CP4/CP5 - Constant pressure curves

Application:

Magi circulation pump is intended for the following systems:

- Constant temperature variable flow heating system
- Variable pipe temperature heating system
- Heating system with night mode
- Air conditioning system
- Industrial circulation system
- Domestic central heating system and domestic hot water system



SPECIFICATIONS		
Supply voltage	1 × 230 V + 6%/-10%, 50 Hz	
Motor protection	No additional motor protection is required	
Ingress Protection Code	IP 44	
Insulation class	F	
Maximum ambient relative humidity	≤ 95%	
Maximum pressure in the central heating system	1 Mpa	
Minimum inlet suction pressure depending on heating medium temperature	Medium temperature	
	≤ 85°C	0,005 MPa
	≤ 90°C	0,028 MPa
	≤ 95°C	0,100 MPa
EMC compliance	EN61000-6-1; EN61000-6-3	
Running pump sound pressure	43 dB (A)	
Allowable ambient temperature	0~+40°C	
Maximum heating medium temperature	TF110	
Maximum heat of pump surface	≤ 110°C	
Fluid temperature range	2~+95°C	
Automatic venting function	YES	

MODEL	Operation mode (x1)	Lift (m)	Capacity (l/min)	Motor power (W)	Connector diameter (inch)	Connector spacing (mm)	Weight (kg)
MAGI 25-100/180	11	10	170	10–180	1½ × 1	180	4,5
MAGI 32-100/180	11	10	180	10–180	2 × 1½	180	4,6

MAGI-H

Energy-saving electronic circulation pumps with A energy-efficiency rating.
Energy Efficiency Index for MAGI pumps is:

EEI ≤ 0,23

The MAGI circulating pump is equipped with a permanent magnet motor and a pressure differences regulator for automatic and continuous pump capacity adjustment to the actual requirements of the system. The pump control panel is located on top of the motor for easier operation by the user. Current power consumption is displayed on its panel.
The pump is supplied with union joints and cable adapter

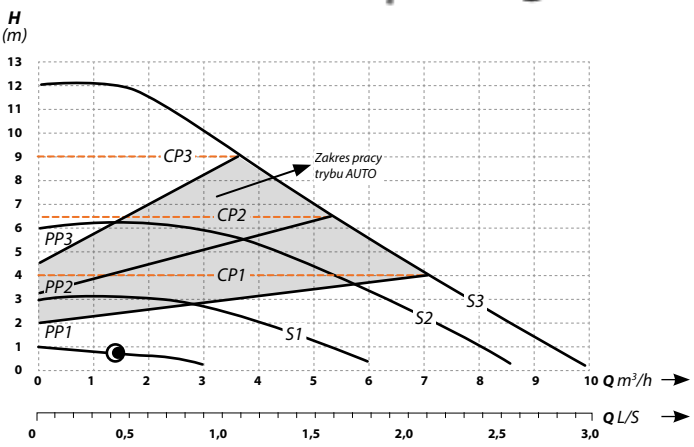
The pump provides 12 operating modes:

- • AUTO (factory setting)
- - From highest to lowest proportional pressure characteristic curve
- • I / II / III - Constant rotational speed curves
- • PP1/PP2/PP3/PP4 - Proportional pressure curves
- • CP1/CP2/CP3/CP4 - Constant pressure curves.

Application:

MAGI-H circulation pump is intended for the following systems:

- Constant temperature variable flow heating system
- Variable pipe temperature heating system
- Heating system with night mode
- Air conditioning system
- Industrial circulation system
- Domestic central heating system and domestic hot water system.



SPECIFICATIONS		
Electrical supply	1× 230 V +6%/-10%, 50 Hz	
Motor protection	No additional motor protection is required	
Ingress Protection Code	IP 42	
Insulation class	H	
Maximum ambient relative humidity	≤ 95%	
Maximum pressure in the central heating system	1 Mpa	
Minimum inlet suction pressure depending on heating medium temperature	Medium temperaturet	
	≤ 75°C	0,005 MPa
	≤ 90°C	0,028 MPa
	≤ 110°C	0,100 MPa
EMC compliance	EN61000-4-4	
Running pump sound pressure	43 dB (A)	
Allowable ambient temperature	0~+40°C	
Maximum heating medium temperature	TF110	
Maximum heat of pump surface	≤ 110°C	
Fluid temperature range	2~+110°C	
Automatic venting function	YES	

MODEL	Operation mode (x1)	Lift (m)	Capacity (l/min)	Motor power (W)	Connector diameter (inch)	Connector spacing (mm)	Weight (kg)
MAGI H 25-120/180	11	12	160	14–185	1½ × 1	180	4,9
MAGI H 32-120/180	11	12	160	14–185	2 × 1½	180	5,1

AMG

PWM CONTROL

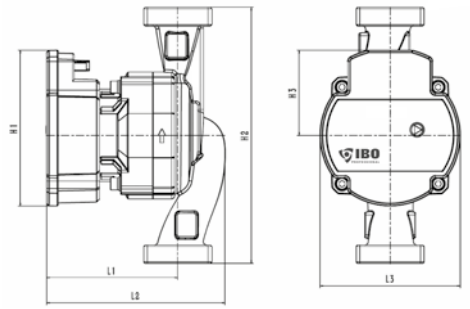
Energy-saving electronic circulation pumps which meet the requirements of A-rated pumps.
PWM CONTROL
The energy efficiency index of pumps from the AMG series is:

EEI ≤ 0,20

The pumps are designed to force circulation in systems equipped with an electronic processor, which automatically controls the operation of the pumps. This feature, in combination with a frequency converter, allows for significant savings in electricity consumption. This solution is used in central heating and solar installations. The equipped processor enables the pump to choose one of 8 modes of operation as needed per installation. The power consumption is from 1/10 to 1/3 lower than in classic pumps. The pump set includes a set of screw connections and a power cord.

Application:

The AMG series circulation pump is best suited for the following systems:
- Equithermic heating systems with variable flow
- Heating systems with variable pipeline temperature
- Heating systems with night mode
- Air conditioning systems
- Industrial circulation systems
- Home central heating systems and home hot water systems



Model	Dimensions (mm)					
	L1	L2	L3	H1	H2	H3
AMG XX-XX/130	93	126	99	110	130	60
AMG XX-XX/180					180	

SPECIFICATIONS		
Electrical supply	1 × 230 V + 6%/-10%, 50 Hz	
Motor protection	No additional motor protection is required	
Ingress Protection Code	IP 44	
Insulation class	E	
Maximum ambient relative humidity	≤ 95%	
Maximum pressure in the central heating system	1 Mpa	
Minimum inlet suction pressure depending on heating medium temperature	Medium temperature	Min. inlet pressure
	≤ 85°C	0,005 MPa
	≤ 90°C	0,028 MPa
	≤ 110°C	0,100 MPa
EMC compliance	EN61000-6-1; EN61000-6-3	
Running pump sound pressure	43 dB (A)	
Allowable ambient temperature	0~+40°C	
Maximum heating medium temperature	TF 110	
Maximum heat of pump surface	≤ 125°C	
Fluid temperature range	2~+110°C	

MODEL	Operation mode (x1)	Lift (m)	Capacity (l/min)	Motor power (W)	Connector diameter (inch)	Connector spacing (mm)	Weight (kg)
AMG 25-40/180	10	4	42	22	15	180	2,1
AMG 15-60/130	10	6	48	45	158	130	2,0
AMG 25-60/130	10	6	55	45	25	130	2,0
AMG 25-60/180	10	6	55	45	25	180	2,3
AMG 25-80/180	10	8	65	65	25	180	2,8
AMG 32-80/180	10	8	70	65	32	180	2,8

NOVA

Energy-saving electronic circulation pumps with A energy-efficiency rating.
Energy Efficiency Index for NOVA pumps is:

EEI ≤ 0,23

The NOVA circulating pump is equipped with a permanent magnet motor and a pressure differences regulator for automatic and continuous pump capacity adjustment to the actual requirements of the system. The pump control panel is located on top of the motor for easier operation by the user. Current power consumption is displayed on its panel. The pump is supplied with union joints and cable adapter.

The pump has 8 operating modes:

- AUTO (factory setting) - From highest to lowest proportional pressure characteristic curve
- BL1 / BL2 - Proportional pressure curves
- HD1 / HD2 - Constant pressure curves
- HS1/HS2/HS3 - Constant rotational speed curves

Application:

NOVA circulation pump is intended for the following systems:

- Constant temperature variable flow heating system
- Variable pipe temperature heating system
- Heating system with night mode
- Air conditioning system
- Industrial circulation system
- Domestic central heating system and domestic hot water system

SPECIFICATIONS		
Supply voltage	1 × 230V + 6%/-10%, 50 Hz	
Motor protection	No additional motor protection is required	
Ingress Protection	IP 44	
Insulation class	F	
Maximum ambient relative humidity	≤ 95%	
Maximum central heating system pressure	1 Mpa	
Maximum suction-side inflow pressure depending on the heating medium temperature	Medium temperature	Min. inlet pressure
	≤ 85°C	0,005 MPa
	≤ 90°C	0,028 MPa
	≤ 95°C	0,050 MPa
Compliance with the EMC standard	EN61000-6-1; EN61000-6-3	
Operating pump sound pressure	43 dB (A)	
Permissible ambient temperature	0~+40°C	
Maximum heating medium temp.	TF 95	
Maximum pump surface temperature	≤ 110°C	
Pumped liquid temperature range	2~+95°C	

MODEL	Operation mode (x1)	Lift (m)	Capacity (l/min)	Motor power (W)	Connector diameter (inch)	Connector spacing (mm)	Weight (kg)
NOVA 20-40/180	8	4	50	5–22	1½ × 1	180	3
NOVA 25-60/180	8	6	55	5–45	2 × 1½	180	3
NOVA 25-60/130	8	6	55	5–45	1½ × 1	130	2,9

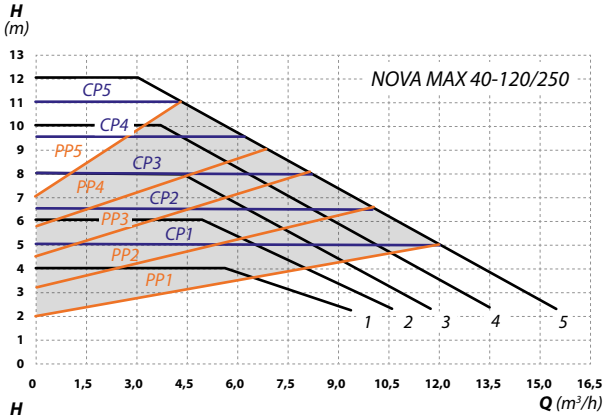
NOVA MAX

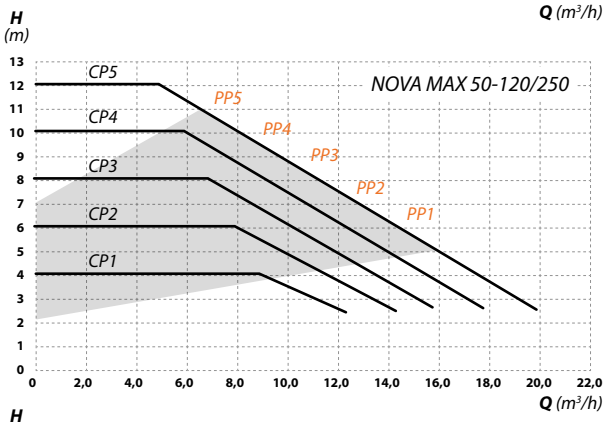
Energy-saving electronic circulation pumps that meet the requirements for A class pumps.

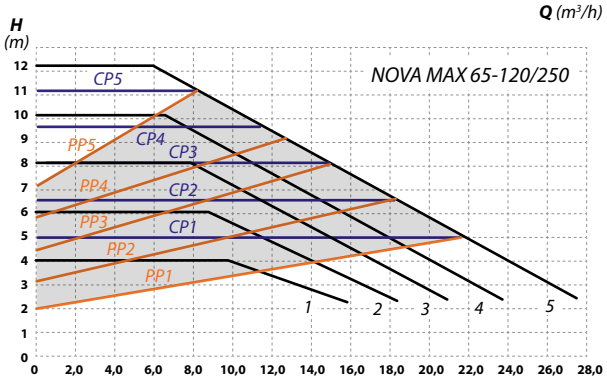
The energy efficiency coefficient for NOVA pumps is:

EEI ≤ 0,23

The NOVA circulation pump is fitted with a permanent magnet motor and differential pressure controller that automatically and continuously adjusts the pump capacity to meet the actual needs of the system. The pump control panel is placed on the top of the motor for easy operation by the user. Its dial displays the current electricity consumption. A set of threaded unions is supplied with the pump, including an adapter for cable connection.







The pump features 16 operation modes:

- AUTO (factory setting) - The curve of proportional pressure characteristics – from highest to lowest
- PP1 / PP2 / PP3 / PP4 / PP5 - proportional pressure curves
- CP1 / CP2 / CP3 / CP4 / CP5 - constant pressure curves
- I / II / III / IV / V - constant rotational speed curves

Application:

The NOVA series circulation pump is best suited for the following systems:

- Fixed temperature heating system with variable flow rate
- Heating system with variable pipeline temperature
- Heating system with night mode
- Air-conditioning system
- Industrial circulation system
- CH and DHW systems

SPECIFICATIONS		
Supply voltage	1 × 230 V +6%/-10%, 50 Hz	
Motor protection	No additional motor protection is required	
Ingress Protection	IP 44	
Insulation class	H	
Maximum ambient relative humidity	≤ 95%	
Maximum central heating system pressure	1 Mpa	
Maximum suction-side inflow pressure depending on the heating medium temperature	Medium temperature	Min. inlet pressure
	≤ 85°C	0,005 MPa
	≤ 90°C	0,028 MPa
	≤ 95°C	1,000 MPa
Compliance with the EMC standard	EN61000-6-1; EN61000-6-3	
Operating pump sound pressure	43 dB (A)	
Permissible ambient temperature	0~+40°C	
Maximum heating medium temp.	TF 95	
Maximum pump surface temperature	≤ 115°C	
Pumped liquid temperature range	2~+110°C	

MODEL	Operation mode (x1)	Lift (m)	Capacity (l/min)	Motor power (W)	Connector diameter (inch)	Connector spacing (mm)	Weight (kg)
NOVA MAX 40-120/250	15	12	275	15–600	1½	250	17,30
NOVA MAX 50-120/250	15	12	350	15–600	2	250	17,75
NOVA MAX 65-120/250	15	12	350	15–600	2½	250	17,95

IVO

SERWIS 48

Energy-saving electronic circulation pumps that meet the requirements for A class pumps.

The energy efficiency coefficient for IVO pumps is:

EEI ≤ 0,23

which, according to Commission Regulation (EU) no. 622/2012 is the reference criterion for **the most energy-efficient circulation pumps**

The IVO series circulation pump is equipped with a permanent magnet motor and a differential pressure regulator, which automatically and continuously adjust the pump capacity to meet the actual needs of the system. The pump control panel is placed on the top of the motor for easy operation. Its dial displays the current electricity consumption. The pump is supplied with a set of threaded unions, including an adapter for cable connectionw

The pump features 8 operation modes:

- AUTO (factory setting) - The curve of proportional pressure characteristics – from highest to lowest
- LPP / HPP - Proportional pressure curves
- LCP / HCP - Constant pressure curves
- I/II/III - Constant rotational speed curves

Application:

IVO series circulation pump is best for the following systems:

- Fixed temperature heating system with variable flow rate
- Heating system with variable pipeline temperature
- Heating system with night mode
- Air-conditioning system
- Industrial circulation system
- Household CH and DHW systems

SPECIFICATIONS		
Supply voltage	1 × 230 V +6%/-10%, 50 Hz	
Motor protection	No additional motor protection is required	
Ingress Protection	IP 44	
Insulation class	H	
Maximum ambient relative humidity	≤ 95%	
Maximum central heating system pressure	1 Mpa	
Maximum suction-side inflow pressure depending on the heating medium temperature	Medium temperature	Min. inlet pressure
	≤ 85°C	0,005 MPa
	≤ 90°C	0,028 MPa
	≤ 110°C	0,050 MPa
Compliance with the EMC standard	EN61000-6-1; EN61000-6-3	
Operating pump sound pressure	43 dB (A)	
Permissible ambient temperature	0~+40°C	
Maximum heating medium temperature	TF 110	
Maximum pump surface temperature	≤ 115°C	
Pumped liquid temperature range	2~+110°C	

Name	Operation mode (x1)	Lift (m)	Capacity (l/min)	Motor power (W)	Connector diameter (inch)	Connector spacing (mm)	Dimensions						
							L1	L2	B1	B2	H1	H2	G
IVO 25-40/180	7	4	50	5–22	1½ × 1	180	90	180	52	99	129	169	1½"
IVO 25-60/130	7	6	55	5–45	1½ × 1	130	90	180	52	99	129	169	1½"

BETA 2

Energy-saving electronic circulation pumps with A energy-efficiency rating.
Energy Efficiency Index for BETA 2 pumps is:

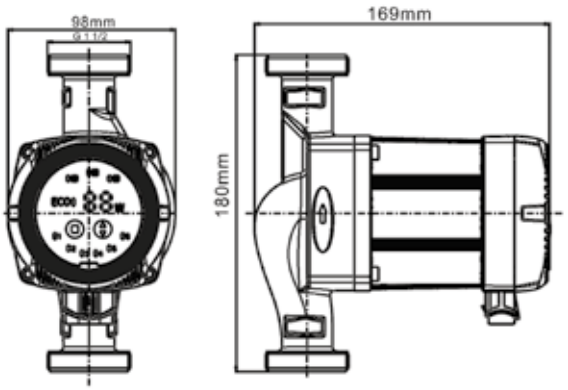
EEI ≤ 0,23

The pumps are designed for forcing circulation in central heating systems and solar systems. The pumps are equipped with an electronic processor for automatic pump control, which together with a frequency converter allows for significant energy savings. The processor provides 11 operating modes depending on the system requirements. The power consumption is from 1/10 to 1/3 of conventional pumps.
The pump is supplied with union joints and power cable.

Application:

BETA 2 circulation pump is intended for the following systems:

- Constant temperature variable flow heating system
- Variable pipe temperature heating system
- Heating system with night mode
- Air conditioning system
- Industrial circulation system
- Domestic central heating system and domestic hot water system



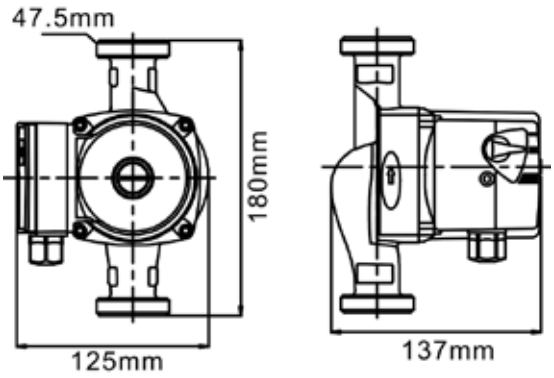
SPECIFICATIONS		
Supply voltage	1 × 230 V +6%/-10%, 50 Hz	
Motor protection	No additional motor protection is required	
Ingress Protection	IP 42	
Insulation class	H	
Maximum ambient relative humidity	≤ 95%	
Maximum central heating system pressure	1 Mpa	
Maximum suction-side inflow pressure depending on the heating medium temperature	Medium temperature Min. inlet pressure	
	≤ 85°C	0,005 MPa
	≤ 90°C	0,028 MPa
	≤ 110°C	0,100 MPa
Compliance with the EMC standard	EN61000-6-1; EN61000-6-3	
Operating pump sound pressure	43 dB (A)	
Permissible ambient temperature	0~+40°C	
Maximum heating medium temp.	TF 110	
Maximum pump surface temperature	≤ 125°C	
Pumped liquid temperature range	2~+110°C	

MODEL	Operation mode (x1)	Lift (m)	Capacity (l/min)	Motor power (W)	Connector diameter (inch)	Connector spacing (mm)	Weight (kg)
BETA 25-40/180	8	4	48	22	1½ × 1	180	3,1
BETA 25-60/130	8	6	55	45	1½ × 1	130	3,1
BETA 25-60/180	8	6	55	45	1½ × 1	180	3,0

OHI PRO

OHI PRO series are seal-less circulation pumps with increased durability.

The pumps have a higher density ceramic shaft and plain bearings. Motor durability and better electrical parameters are achieved by using stronger Class F insulation winding. All processes during the manufacture of OHI PRO pumps are carried out by robots. The robots also check the quality of the intermediate products after each stage of production. At the end, the pumps are electrically and hydraulically tested. Due to the automation of the manufacturing process, the final product is of the top quality that is reproducible in every unit. All these actions have allowed us to extend the warranty period to 3 years. The pumps are supplied with union joints and a cable with a plug.



By default, the pumps have 3 speed levels for adjusting operating parameters depending on the user's and system's requirements. Due to the design and high quality materials used, the pumps are very quiet during operation.

The idea behind the creation of the OHI PRO pump was based on the belief that it is necessary to build a device with a more durable and reliable design compared to generally available circulation pumps, as well as a change in the price underselling trends.

All OHI pumps have PZH (National Institute of Hygiene) approval.

Name	Gear	Lift (m)	Capacity (l/min)	Motor power (W)	Connector diameter pump/ Screw connection diameter (inch)	Connector spacing (mm)
OHI PRO 15-60/130	1	3,7	27	46	1 × ¾	130
	2	5,2	39	63		
	3	5,9	55	93		
OHI PRO 25-40/180	1	2,4	30	38	1½ × 1	180
	2	3,4	43	53		
	3	3,9	54	71		
OHI PRO 25-60/130 OHI PRO 25-60/180	1	3,4	30	46	1½ × 1	130 180
	2	4,9	45	63		
	3	5,7	63	93		
OHI PRO 32-60/180	1	3,7	37	46	2 × 1¼	180
	2	5	56	63		
	3	5,8	75	93		

3 YEARS GUARANTEE

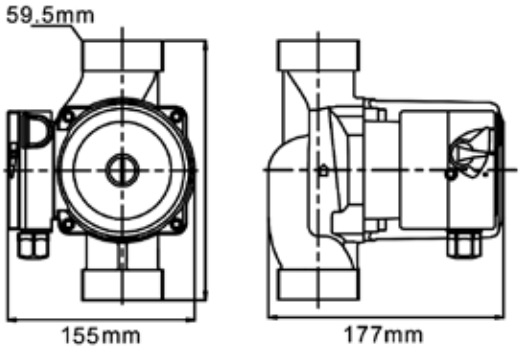
OHI PRO MAX

OHI PRO MAX series are seal-less circulating pumps with increased durability. The MAX pumps have higher operating parameters than the OHI PRO pumps.
The pumps have a higher density ceramic shaft and plain bearings. Motor durability and better electrical parameters are achieved by using stronger Class F insulation winding. All processes during the manufacture of OHI PRO pumps are carried out by robots. The robots also check the quality of the intermediate products after each stage of production. At the end, the pumps are electrically and hydraulically tested. Due to the automation of the manufacturing process, the final product is of the top quality that is reproducible in every unit. All these actions have allowed us to extend the warranty period to 3 years.

By default, the pumps have 3 speed levels for adjusting operating parameters depending on the user's and system's requirements. Due to the design and high quality materials used, the pumps are very quiet during operation.

The idea behind the creation of the OHI PRO pump was based on the belief that it is necessary to build a device with a more durable and reliable design compared to generally available circulation pumps, as well as a change in the price underselling trends

All OHI pumps have PZH (National Institute of Hygiene) approval.



Name	Gear	Lift (m)	Capacity (l/min)	Motor power (W)	Connector diameter pump/ Screw connection diameter (inch)	Connector spacing (mm)
OHI PRO MAX 25-80/180	1	6	59	150	1½ × 1	130
	2	7	89	220		
	3	7,4	102	270		
OHI PRO MAX 32-80/180	1	6	74	150	2 × 1¼	180
	2	7,6	115	220		
	3	8	159	270		

PUMP GROUPS

GP-SIŁ-DN25 pump group with a 3-way mixing valve
The version without a pump includes an electric actuator.

It is equipped with:
- ball valve integrated with the thermometer (power supply: red)
- ball valve with integrated check valve and thermometer (check: blue)
- adjustable bypass
- EPP insulation

A standard 180 mm long circulation pump can be used.
Irreversible pump group (see: the manual).

SPECIFICATIONS	
Material	**steel, brass, EPP insulation**
Max. KVS groups with mixer	**6,6 m³/h**
Max. working temp	**110°C**
Max pressure:	**PN 6**
Upper connection	**G1"**
lower connection	**female thread GZ 1½"**
length (pump connection)	**180 mm/GZ (male thread) 1½"**

GGP-B-DN25 pump group with a direct heating circuit. Version without pump and 3-way mixing valve.

It is equipped with:
- ball valve integrated with the thermometer (power supply: red)
- ball valve with integrated check valve and thermometer (check: blue)
- EPP insulation

A standard 180 mm long circulation pump can be used.
Irreversible pump group (see: the manual).

SPECIFICATIONS	
Materiał	**steel, brass, EPP insulation**
Maks. KVS grupy z mieszaczem	**6,6 m³/h**
Maks. temp. pracy	**110°C**
Maks. ciśnienie	**PN 6**
Przyłącze górne	**G1"**
Przyłącze dolne	**female thread GZ 1½"**
Długość (przyłącze pompy)	**180 mm/GZ (male thread) 1½"**

Electric actuator
- 3-point control, 5 or 6 Nm torque, (depending on the model)
- turning time by 90° — 135 s/2 minutes
- power cable: length depends on the model, power supply: 230 V
- Ingress Protection Code IP40

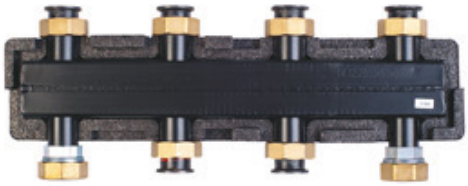
* The manufacturer's installation, operating, and warranty guidelines apply to the pump (check before installing in the pump group). Verify whether it is possible to correctly install the hydraulic and electrical equipment of a given manufacturer's pump in the pump group.
* The product is not included in the current catalogue price list
* Non-standard goods, made to order
* The photos and diagrams contained in this leaflet are for reference only.

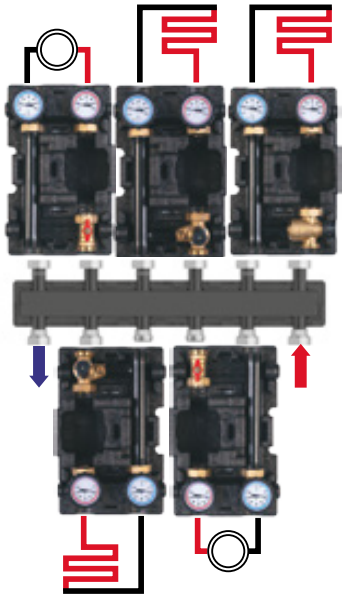
DN25 MANIFOLD

DN25 manifold (up to 70 kW) for working with central heating pump groups (standard)

The manifold is used to expand heating circuits, save space, and quickly build a comfortable heating system.
The distributor manifold block has a connector with flat sealing connections.

You can install pump groups in the upper and lower part of the manifold. Wall console included in the price of the manifold. The models of individual manifolds may differ in terms of the pump group assembly method (see the manual).





SPECIFICATIONS	
Power in kW at ΔT = 20 K	up to 70 kW
Upper connection	½" GW (female thread)
Lower connection	½" GW (female thread)
Pattern	125 mm
Size (including insulation):	
2 + 1 (number of heating circuits)	500 × 178 × 135 mm (W/H/D)
3 + 2 (number of heating circuits)	750 × 178 × 135 mm (W/H/D)
4 + 3 (number of heating circuits)	1000 × 178 × 135 mm (W/H/D)
Materials	brass/steel/EPP
Sealing type	EPDM
Max. operating temperature	up to 110°C
Max. operating temperature	6 bar
Kvs	3 m3/h

Schematic diagram

Note!
The diagram cannot replace the technical design prepared by an authorised designer. Read the instructions and warranty conditions before installation.

3-way mixing valves

4-way mixing valves

TECHNICAL DATA	
Spindle rotation torque	< 1 Nm
Type of fluid	woda, glikol (≤ 50%)
Max. working pressure	1,0 Mpa (10 bar)
Working temperature range	-10°C ÷ 110°C

DN	Kvs
20	6,3 m^3/h
25	12 m^3/h
32	16 m^3/h
40	25 m^3/h
50	40 m^3/h

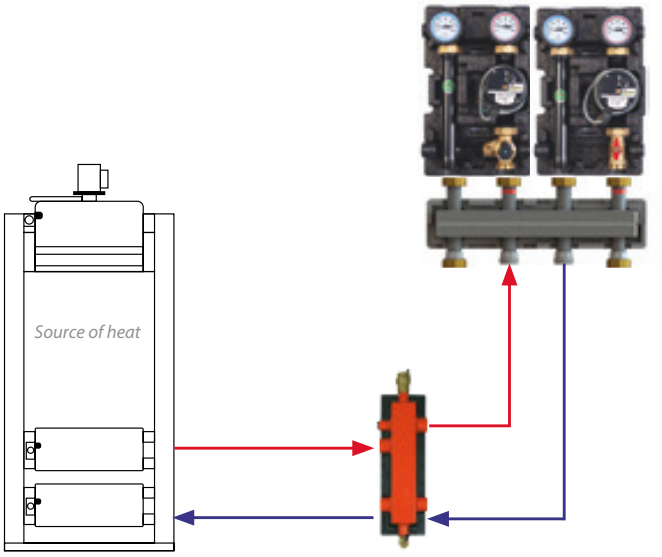
DN25 COUPLING

DN25 GW vertical hydraulic coupling (up to 70 kW) with EPP insulation
The task of the hydraulic coupling is to separate the boiler circuit from the heating circuit, balance the flows, and keep the pumps running smoothly. Additionally, the coupling protects the boiler against return temperature which is too low.

Chamber with a separation net and welded connectors:
- four 1" connectors for heating circuit pipes
- single ½" connector for the temperature sensor
- single ½" connector on the top for the air vent
- single ½" connector at the bottom to the drain-fill valve

Includes:
- - EPP insulation
- - single 1½" plug
- - single automatic vertical air vent
- - single ½" drain-fill valve

SPECIFICATIONS	
Power in kW at ΔT = 20 K	up to 67 kW
Connections of the heating system	4 × 1" GW (female thread)
Connection to the temperature sensor	½" GW (female thread)
Size (including insulation):	368 × 113 × 106 (H/Sz/Gł)
Materials	brass / steel / EPP
Max. operating temperature	do 110°C
Max. operating temperature	6 bar
Max. Kvs	3 m^3/h



Schematic diagram

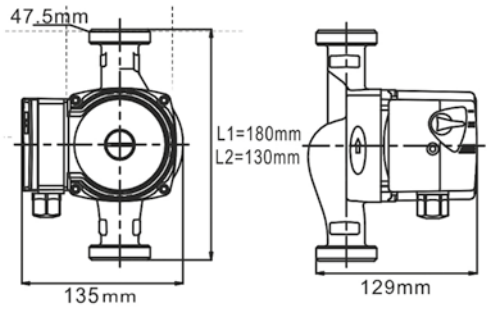
Note!
The diagram cannot replace the technical design prepared by an authorised designer. Read the instructions and warranty conditions before installation.

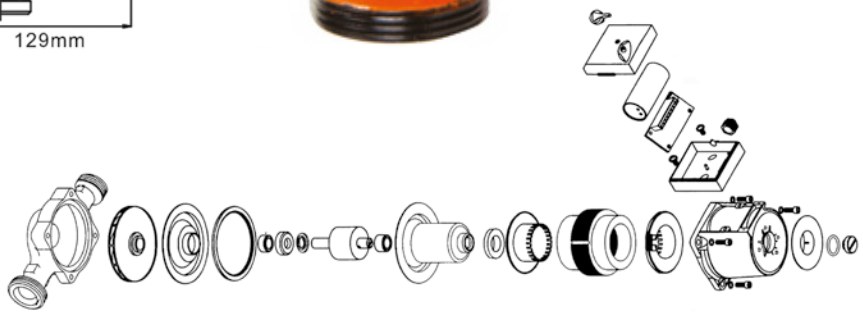
Note!
- The coupling can be installed together with the DN25 standard distributor (up to 70 kW)
- The coupling cannot be installed with a decoupling distributor or with an integrated coupling and guard
- The coupling does not contain any mounting elements

OHI

The pumps have 3-speed motors for adjusting operating parameters depending on the user's requirements. The pumps are available with bodies made of bronze or cast iron. Due to the design and high quality materials used, the pumps are very quiet during operation.

All OHI pumps have PZH (National Institute of Hygiene) approval.



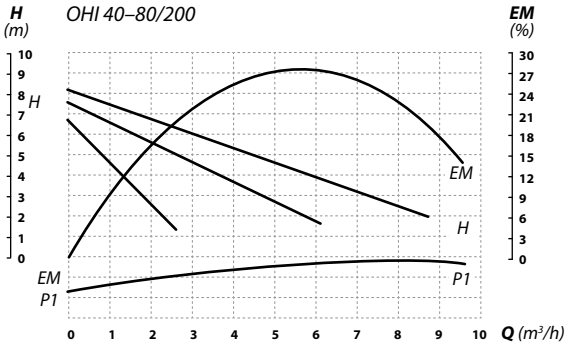


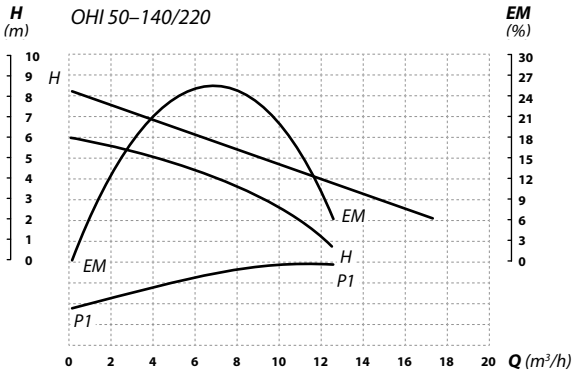
Name	Gear	Lift (m)	Capacity (l/min)	Motor power (W)	Connector diameter pump/ Screw connection diameter (inch)	Connector spacing (mm)
OHI 15-60/130	1	2,2	24	46	1 × ¾	130
	2	3,9	37	63		
	3	5,1	55	93		
OHI 25-40/180	1	2,2	27	38	1½ × 1	180
	2	3,2	38	53		
	3	4	55	71		
OHI 25-60/180	1	2,8	27	38	1½ × 1	180
	2	4,7	39	53		
	3	5,6	57	71		
OHI 32-60/180	1	2,2	31	46	1½ × 1	180
	2	3,9	47	63		
	3	5,4	69	93		
OHI 25-80/180	1	6,5	43	150	1½ × 1	130
	2	7,5	103	220		
	3	8	160	270		
OHI 32-60/180	1	3	22	46	2 × 1¼	180
	2	5	38	63		
	3	6	55	93		
OHI 32-80/180	1	6,5	43	150	2 × 1¼	180
	2	7,5	103	220		
	3	8	160	270		

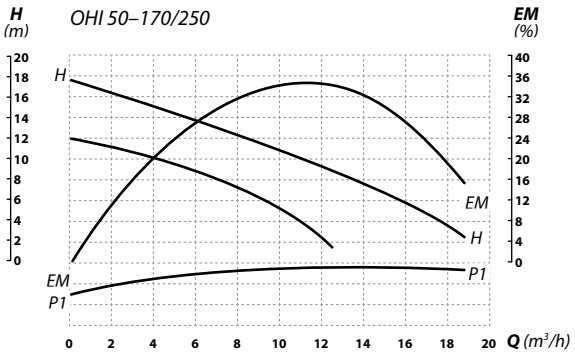
OHI MAX

The pumps are made of high quality materials. The pumps are complete with connecting flanges. 550W and 750W seal-less pumps for larger systems.

All OHI pumps have PZH (National Institute of Hygiene) approval.

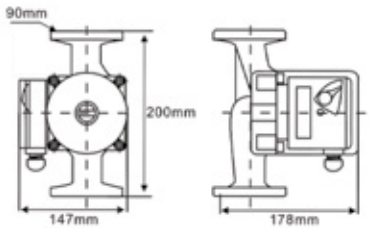


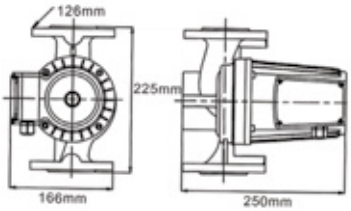


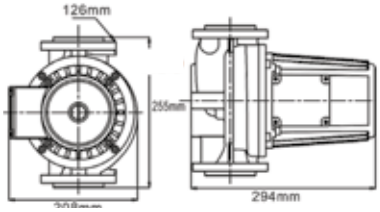


OHI 40-80/200

OHI 50-170/250







MODEL	Operation mode (x1)	Lift (m)	Capacity (l/min)	Motor power (W)	Flange diameter (inch)	Flange spacing (mm)	Weight (kg)
OHI 40-80/200	1/2/3	6,5/7,5/8	43/103/160	150/220/270	1½	200	6
OHI 50-140/220	1	12	210	550	2	220	16
OHI 50-170/250	1	16	320	750	2	250	17

S-150 CONTROLER

The S-150 CONTROLLER is designed to control the central heating water pump. The controller is tasked with switching on the pump if the temperature exceeds the set value, and switching it off if it drops below the set value. This prevents unnecessary operation of the pump, which allows you to save electricity (savings depending on the degree of use of the furnace can reach up to 60%) and extends the life of the pump. As a result, its reliability increases and operating costs decrease. The switch-on and switch-off temperature can be set in the range of 0–99°C. Hysteresis has been replaced with the possibility of any switch-off temperature setting.

Example: Set temperature of 34°C (lower display), switch-off temperature of 31°C

If the sensor temperature reaches 34°C, the pump turns on at 34°C and continues to work until the sensor temperature drops to 31°C, the controller turns the pump off.

The controller is equipped with 2 LED displays. The current temperature measured by the sensor is displayed as standard on the upper one, while the lower one shows the switch-off temperature. The MENU button toggles the controller into preview mode and switch-on/switch-off temperature settings, as well the anti-stop function setting.

Thermostat function

The controller has also a built-in thermostat function. It is possible to set the temperature at which the controller turns off the controlled devices, and then, after lowering it to the required value, it starts the device.

Anti-freeze function

The controller is equipped with the ANTI-FREEZE function, which starts the pump when the ambient temperature drops below 5°C to prevent the controller from freezing.

The controller is equipped with 2 LED displays. The current temperature measured by the sensor is displayed as standard on the upper one, while the lower one shows the switch-off temperature. The MENU button toggles the controller into preview mode and switch-on/switch-off temperature settings, as well the anti-stop function setting.

SPECIFICATIONS	
Temperature adjustment range (set temp)	0°C–99°C
Supply voltage	230 V / 50 Hz ± 10%
Power consumption	< 5 W
Max. operating temperature	-10°C–40°C
Temperature sensor	Resistant
Sensor cable length	ca. 1m
Mains cable length	ca. 1m
Pump power cord length	ca. 1m
Output	230 V / 50 Hz
Max output load current	pump 1A (load resistance)

MAGNETIC FILTER

The magnetic filter is designed to trap impurities found in central heating systems. Modern systems equipped with highly efficient boiler feed installations are exposed to breakdowns and reduction of performance and efficiency due to contamination with iron oxides, the main component of rust, which are generated by corrosion and deposited in the form of sludge.

Iron oxide particles circulate throughout the heating circuit, depositing in the critical points of the installation and exposing the entire system to the failure of pumps, valves or heat exchangers etc., and the heating efficiency of the boiler is reduced, which translates into increased heating costs.

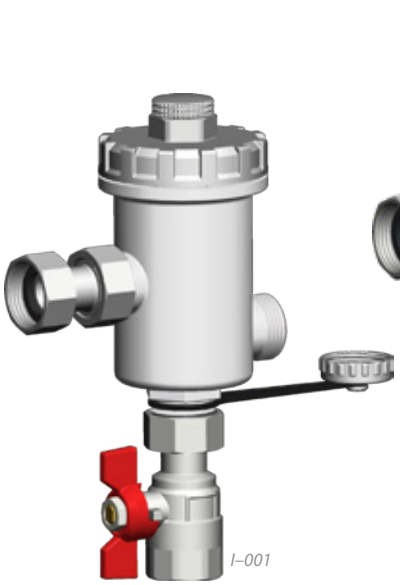
The use of magnetic filters / dirt separators improves the protection of the entire heating system, by removing most of the solid particles, which include iron or iron oxides suspended in the heating system fluid. The filters can be used in systems with continuous circulation of the heating medium. The heating medium may consist of water-glycol solution, with the glycol content not exceeding 50%..The filters can also be used in solar systems and cooling systems, trapping impurities such as sand.

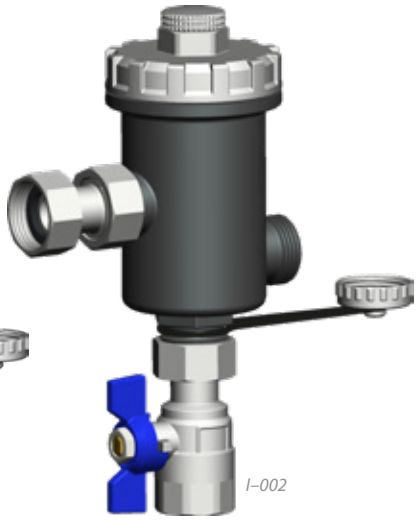
Characteristics:

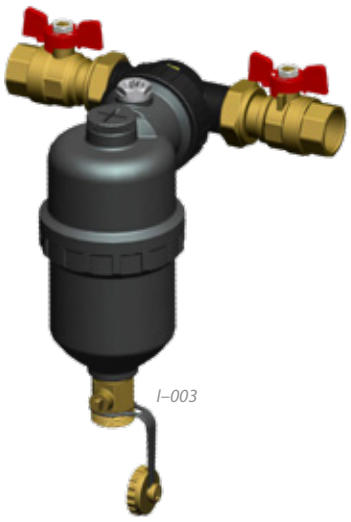
- For use in central heating and solar systems
- Double filtration method
- Easy removal of impurities
- High magnetic force
- Top quality materials
- 24 months warranty
- Warranty and post-warranty service

Technical data:

- Material: PA66 + glass fibre /copper, stainless steel
- Maximum operating pressure 6 bar/ 0,6Mpa
- Maximum liquid temperature 90°C
- Filtration efficiency ≥500µm
- Maximum flow 100 l/min
- Magnetic force 9000 Gauss
- Connection ¾" or 1"


I–001


I–002


I–003

MODEL	I-002	I-003
Dimensions	114 × 190 mm	149 × 213 mm
Max. working pressure	6 Bar / 0,8 Mpa	6 Bar / 0,6 Mpa
Max. liquid temperature	90°C	90°C
Filtering	≥ 500 µm	≥ 500 µm
Maximum flow	30 l/min	100 l/min
The strength of the magnet	9000 Gauss	9000 Gauss
Connections	¾"	¾" lub 1"
Material	PA66 + fiberglass/copper stainless steel	PA66 + fiberglass/copper
Weight	750 g /1050g	1480 g

W15 IH-10

Surface pump designed for increasing pressure in hydraulic systems. The pump can be used as a circulator for some industrial equipment, such as machines, laser devices, injection moulding machines, food processing machinery, and can also supply water to small boilers. The pump is designed to operate with cold and hot water. The set includes an automatic switch for pump operation control. The pump inlet/outlet and impeller are made of brass. An important advantage of the pump is its low-noise operation and compact size, therefore it can be installed in residential premises.

Application:

- Increasing pressure in systems with water heaters
- Increasing pressure in water supply systems
- By using the pump, regardless of the pressure and its changes in the water supply system, it is possible to increase the pressure and keep it constant
- Increasing pressure in multi-storey water systems
- Aeration and water circulation in fish keeping

MODEL	Max. capacity (l/min)	Max. lift (m)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Max. temperature (°C)
W15IH-10	20	10	90	230	0,45	¾–½	110
W15IH-10 economy	20	10	90	230	0,45	¾–½	110

BETA 25-60/130 BR

Circulation pumps with brass body

Energy-saving electronic circulation pumps with A energy-efficiency rating with brass body.

The pumps are equipped with an electronic processor for automatic pump control, which together with a frequency converter allows for significant energy savings. Energy Efficiency Index for BETA pumps is EEI<=0.23. The pumps are equipped with an electronic display showing current energy consumption.

OHI 15-60/130 BR | OHI 25-60/130 BR

Circulation pumps for hot water systems.

Seal-less 3-speed circulation pumps designed for forcing domestic hot water circulation in larger systems.
The pump is usually installed upstream the boiler or hot water tank
The pumps have PZH (National Institute of Hygiene) approval.

Name	Gear / Operation mode (x1	Lift (m)	Capacity (l/min)	Motor power (W)	Voltage (V)	Connector diameter (inch)	Connector spacing (mm)
BETA 25-60/130 BR	11	6	55	45	230	1½ × 1	130
OHI 15-60/130 BR	1/2/3	3/5/6	22/38/55	46/63/93	230	1 × ¾	130
OHI 25-60/130 BR	1/2/3	3/5/6	22/38/55	46/63/93	230	1½ × 1	130

CPI 15-15

Circulation pumps for hot water systems

Seal-less circulation pumps designed for forcing hot water circulation. In systems without hot water pumps, after opening the tap, before the hot water starts flowing, cool water remaining in the pipeline will flow first. If a hot water pump is installed, hot water will flow almost immediately after opening the tap. The pump is usually installed upstream the boiler or hot water tank. With years of experience, we have been able to improve previous designs and create the top quality pump.
Using the latest technology, the efficiency and, consequently, the energy consumption have been improved compared to older designs.

Brass body and ceramic shaft guarantee the pump is almost faultless.

The pumps have PZH (National Institute of Hygiene) approval.

Advantages:

- Robust design
- Low-noise operation
- Hassle-free control
- Easy installation
- Complete with cable and plug.

SPECIFICATIONS	
TYP:	CPI 15–15
Motor power	28 W
Voltage	230 V~ / 50 Hz
Motor RPM	2600 obr/min
Amperage	0,3 A
Ingress Protection	IP 42
Maximum operating pressure	10 bar (1 000 000 Pa)
Flow (l/min)	7,5
Head (m)	1,7
Liquid temperature	2–95°C
Min. suction pressure	0,4 bar (40 000 Pa) dla 95°C 0,2 bar (20 000 Pa) dla 65°C
Face-to-face length	85 mm
Inlet/outlet (for union joints)	½"

Name	Gear (×1)	Lift (m)	Capacity (l/min)	Motor power (W)	Voltage (V)	Connector diameter (inch)	Connector spacing (mm)
CPI 15-15	1	1,7	7,5	28	230	½	85

E-IBO 15-14

Compared to traditional circulation pumps, the energy consumption of the E-IBO pumps can be as low as 3W depending on the system.

Energy-saving electronic hot water circulation pumps with A energy-efficiency rating.

The E-IBO 15-14 pumps are designed for continuous operation forcing the hot water circulation, and in small heating systems. The pumps can be used in ventilation and air-conditioning systems. By using circulation pumps, water consumption is significantly reduced.

Compared to traditional circulation pumps, using the permanent magnet motor allows to reduce the energy consumption of the E-IBO pumps to as low as 3W depending on the system. The pumps are equipped with a spherical impeller operating in various planes.

Features:

- Pump parameters can be automatically or manually adjusted to the system requirements
- A spherical Noryl impeller moves in various planes
- Wear-resistant ceramic shaft
- Stainless steel pump body
- Power cable with a plug

Advantages:

- Easy installation and start up
- Low power consumption
- High energy efficiency has been achieved by using the permanent magnet motor
- Maximum usability
- Robust design
- Low-noise level of the pump and the entire system

SPECIFICATIONS	
Supply voltage	1×230V +6% / -10%, 50Hz PE
Power consumption	3–9 W
Motor protection	No additional motor protection is required
Ingress protection	IP 44
Insulation class	H
Maximum ambient Relative humidity	≤ 95%
Maximum central Heating system pressure	1 MPa
Maximum suction-side Inflow pressure	2 m H_2O
Operating pump Sound pressure	43 dB (A)
Permissible ambient Temperature	0 ~ + 40°C
Maximum heating Medium temp.	TF 95
Pumped liquid Temperature range	2 ~ + 95°C
Inlet/outlet	½"
Inlet/outlet spacing	85 mm

Name	Gear (×1)	Lift (m)	Capacity (l/min)	Motor power (W)	Voltage (V)	Connector diameter (inch)	Connector spacing (mm)
E-IBO 15-14	AUTO	1,2	12	9	230	½	85

IPML

Industrial circulation pumps
For circulating cold and hot water

Pumps designed for constant or variable flow water supply systems with the medium temperature not exceeding 100°C (80°C) and the pressure not exceeding 0.6 MPa. Pumps are most often used in heating and cooling systems. The smallest of the series, the IPML 25/125 pump can also be used to fill solar systems. The IPML 50/1100 and 50/2200 water circulation pumps are intended for water containing non-abrasive and non-absorbent solid impurities of 0,27 kg/m^3.

Operating conditions:

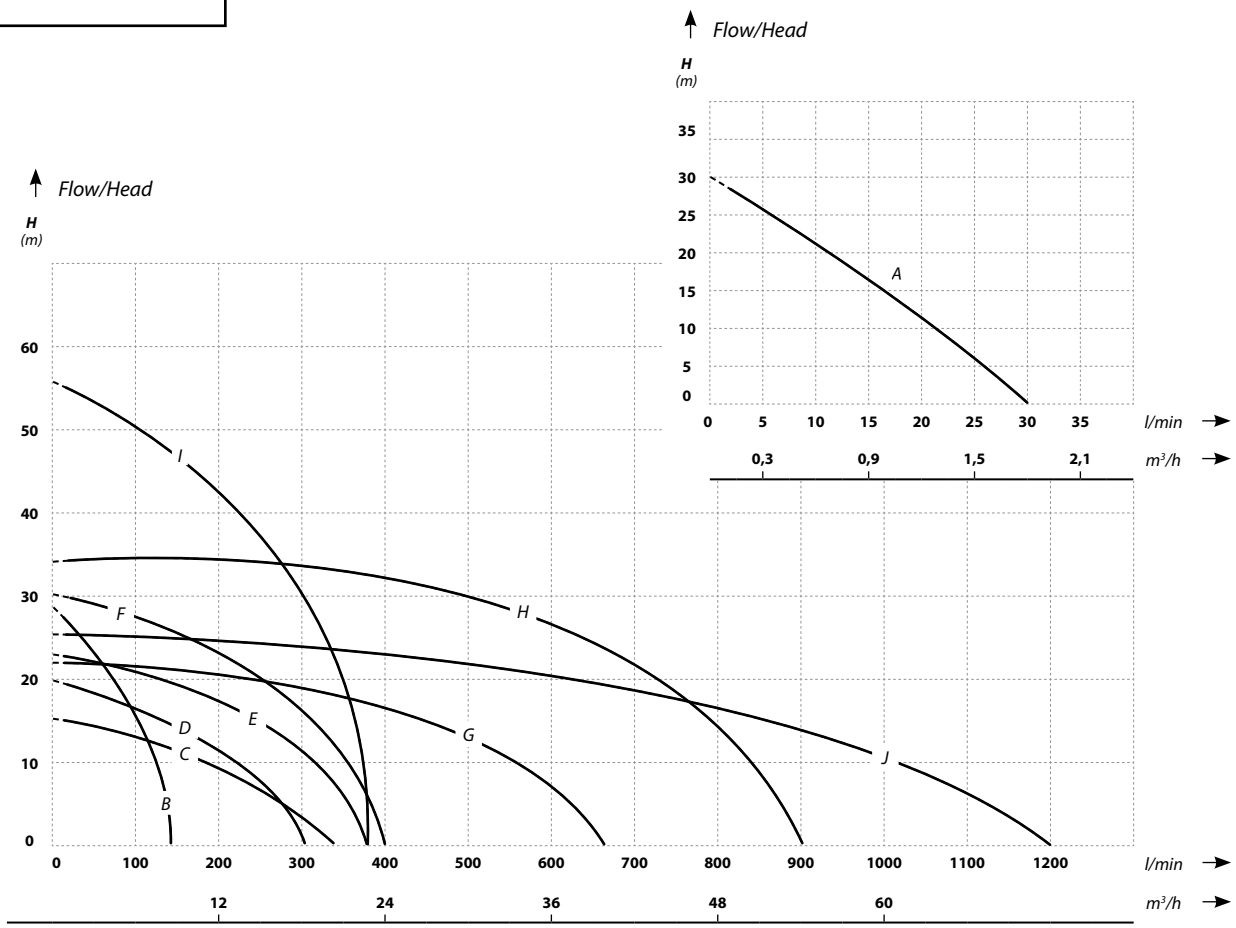
- Maximum liquid temperature 80 /100°C
- Maximum ambient temperature 40°C
- Class B/F Insulation
- Operating mode - continuous
- Protection - IP44
- Protection for 230V motors
- Rotational speed of the electric motor: 2850 RPM

Materials:

- Pump body: cast iron
- Bearing retainer: cast iron
- Motor housing: aluminium
- Shaft and rotor: stainless steel AISI 304
- Impeller: brass (to IPML 50/1100)
- Impeller: cast iron (from IPML 50/1500))
- Mechanical seal: ceramics/graphite/NBR

Name	Motor power (W)	Head (m)	Flow (l/min)	Voltage (V)	Inlet/outlet (inch)	Connector spacing (mm)	No. chart	Max. temperature medium (°C)
IPML 25/125	125	30	30	230	½	–	A	100
IPML 25/750	750	28	140	230	1	280	B	100
IPML 50/750	750	14	340	230	2	280	C	100
IPML 50/1100	1100	20	300	230	2	280	D	100
IPML 50/1500	1500	22	380	400	2	312	E	80
IPML 50/2200	2200	30	400	400	2	312	F	80
IPML 50/5500	5500	55	380	400	2	343	I	80
IPML 65/3000	3000	22	660	400	2½	343	G	80
IPML 65/4000	4000	34	900	400	2½	343	H	80
IPML 80/5500	5500	25	1200	400	3	343	J	80

IPML



Name	No. chart	H	H1	L	Weight (kg)
IPML 25/125	A	255	160	219	7,8
IPML 25/750	B	282	141	372	16,1
IPML 50/750	C	280	140	372	20,1
IPML 50/1100	D	280	140	372	29,4
IPML 50/1500	E	312	156	397	34,6
IPML 50/2200	F	312	156	397	36,8
IPML 50/5500	G	360	180	610	58
IPML 63/3000	H	343	171,5	565	66
IPML 65/4000	I	356	178	615	70,5
IPML 80/5500	J	400	200	640	76