CIRCULATION PUMPS

MAGI 2
MAGI MAX
MAGI-H
AMG
NOVA
NOVA MAX
IVO
BETA 2
OHI PRO
OHI PRO MAX
DN25 manifold
DN25 coupling
OHI
OHI MAX
Magnetic Filter
S-150 Controler
W15 IH-10
CIRCULATION PUMPS BETA BR/OHI
BR
CPI 15-15
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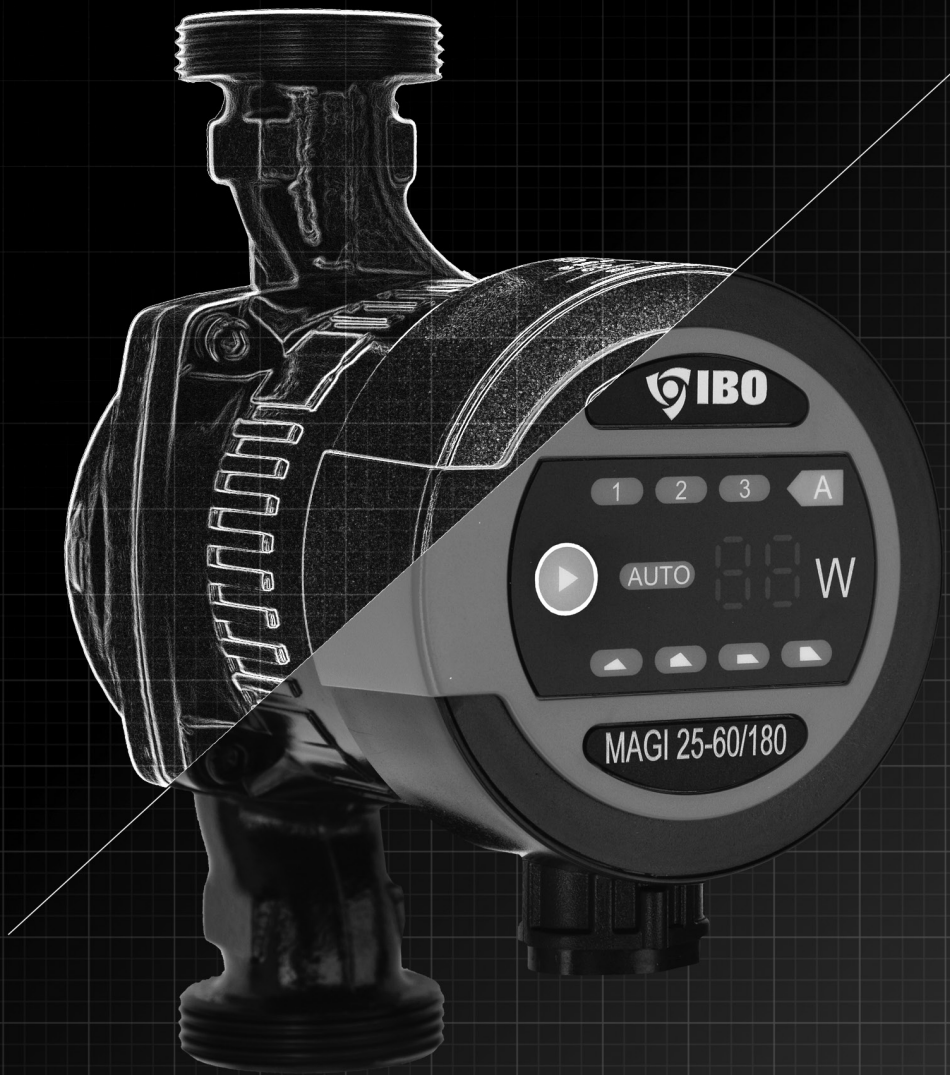
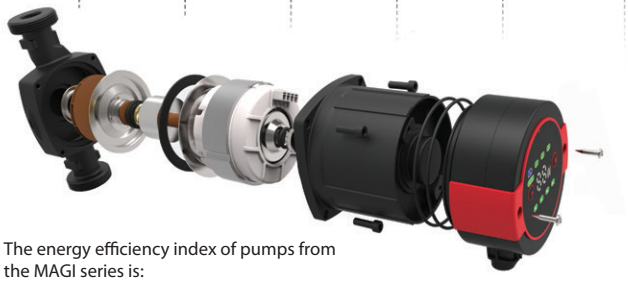
IPML



MAGI 2

Energy-saving electronic circulation pumps which meet the requirements of A-rated pumps.

3 YEAR WARRANTY



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 reference criterion for: **the most energy-efficient circulation pumps.**

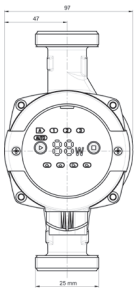
The MAGI series circulation pump is equipped with a permanent magnet motor and a differential pressure controller which automatically and continuously adjusts the pump performance to meet the actual needs of the system. The pump control panel is placed on the top of the motor, which makes it easy to 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.

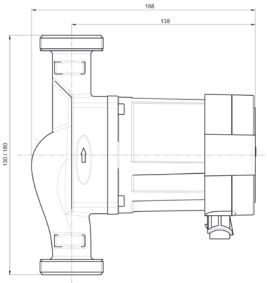
- **The pump has 8 operating modes:**
- **AUTO (factory default)** - High to low proportional pressure characteristic curve
- **LPP / HPP** - Proportional pressure curves
- **LCP / HCP** - Constant pressure curves
- **I/II/III** - Constant speed curves.

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	1×230V +6%/-10%, 50Hz	
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	

PARAMETERS

Name	*Operation mode (x1)*	*Lift (m)*	*Capacity (l/min)*	*Motor power (W)*	*Connector diameter (cale)*	*Connector spacing (mm)*	*Dimensions*						
							L1	*L2*	*B1*	*B2*	*H1*	*H2*	*G*
MAGI 25-40/180	8	4	50	5-22	1½ x 1	180	90	180	52	99	129	169	11/2″
MAGI 25-60/130 MAGI 25-60/180	8	6	55	5-45	1½ x 1	130	65	130	52	99	129	169	11/2″
						180	90	180	52	99	129	169	
MAGI 25-80/180 MAGI 32-80/180	8	8	90	5-70	1½ x 1 2 x 1½	180	90	180	52	99	129	169	11/2″ 2″

MAGI MAX

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

Energy Efficiency Index for MAGI pumps is:

EEI<=0,23

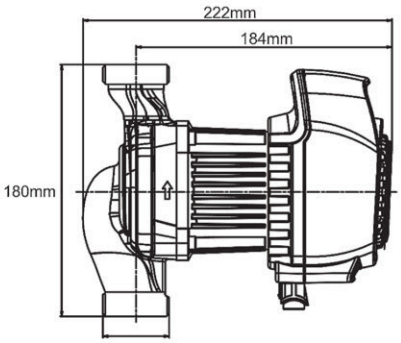
The MAGI circulating pump is equipped with a permanent magnet motor and a pressure differences regulator for automatic and continuous pump capacity adjustment to the actual requirements of the system. The pump control panel is located on top of the motor for easier operation by the user. Current power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



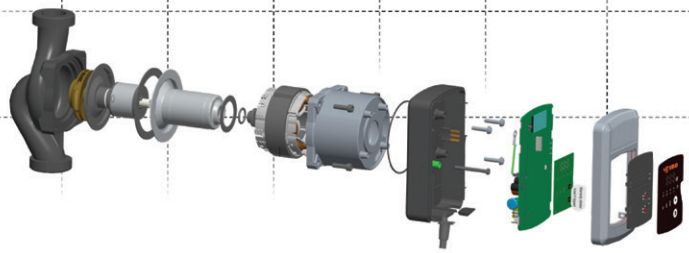
TECHNICAL DATA		
Supply voltage	1×230V +6%/-10%, 50Hz	
Motor protection	No additional motor protection is required	
Ingress Protection	IP 44	
Insulation class	F	
Maximum ambient relative humidity	≤ 95%	
Maximum central heating system pressure	1 Mpa	
Maximum suction-side inflow pressure depending on the heating medium temperature	Medium temperature	
	≤ 85 °C	0.005 MPa
	≤ 90 °C	0.028 MPa
	≤ 95 °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.	TF110	
Maximum pump surface temperature	≤ 110°C	
Pumped liquid temperature range	2~+95°C	
Automatic venting function	YES	

PARAMETERS

MODEL	Operation mode (x1)	Lift (m)	Capacity (l/min)	Motor power (W)	Connector diameter (cale)	Connector spacing (mm)	Weight (kg)
MAGI 25-100/180	9	10	170	10-180	1½ x 1	180	4,5
MAGI 32-100/180	9	10	180	10-180	2 x 1½	180	4,6

MAGI-H

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



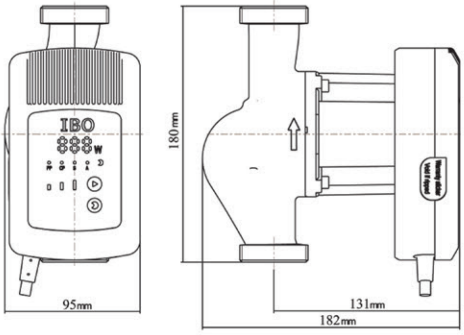
Energy Efficiency Index for MAGI-H pumps is

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

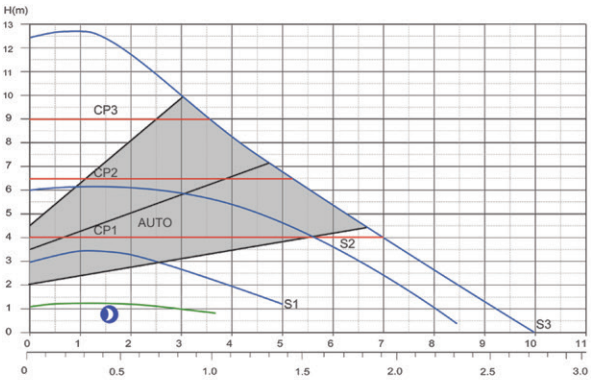
The pump provides 12 operating modes:

- **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.



TECHNICAL DATA		
Supply voltage	1×230V +6%/-10%, 50Hz	
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. inflow pressure
	≤ 75 °C	0.005 MPa
	≤ 90 °C	0.028 MPa
	≤ 110 °C	0.100 MPa
Compliance with the EMC standard	EN61000-4-4	
Operating pump sound pressure	43 dB (A)	
Permissible ambient temperature	0~+40°C	
Maximum heating medium temp.	TF110	
Maximum pump surface temperature	≤ 120°C	
Pumped liquid temperature range	2~+110°C	
Automatic venting function	YES	

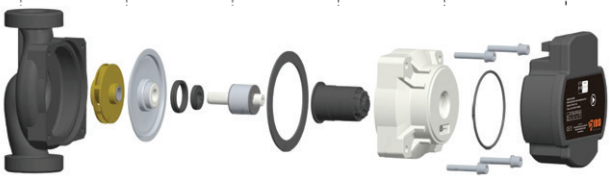
PARAMETERS

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

AMG

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:

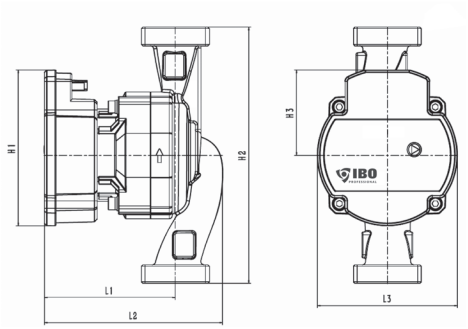
EEI<=0.20

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



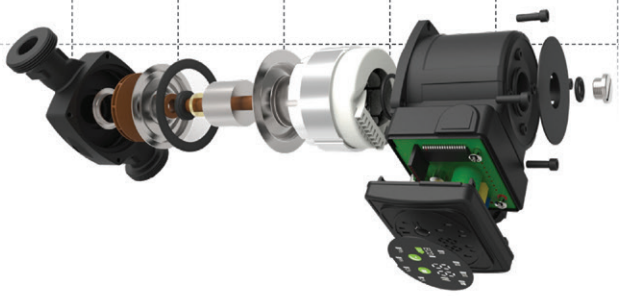
Model	Dimensions (mm)					
	L1	L2	L3	H1	H2	H3
AMG XX-XX/130	93	126	99	110	130	60
AMG XX-XX/180					180	

SPECIFICATIONS		
Electrical supply	1×230V +6%/-10%, 50Hz	
Motor protection	There is no need for an additional motor protection.	
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 (mm)*	*Connector spacing (mm)*	*Weight (kg)*
AMG 25-40/180	8	4,5	42	22	15	180	2,1
AMG 15-60/130	8	6	48	45	158	130	2,0
AMG 25-60/130	8	6	55	45	25	130	2,0
AMG 25-60/180	8	6	55	45	25	180	2,3
AMG 25-80/180	8	8	65	65	25	180	2,8
AMG 32-80/180	8	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.

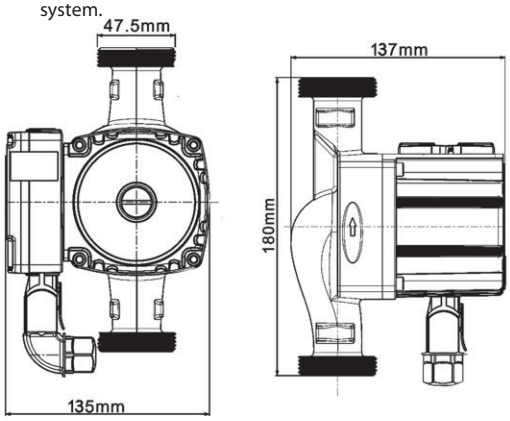
The pump provides 8 operating modes:

- **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.



TECHNICAL DATA		
Supply voltage	1×230V +6%/-10%, 50Hz	
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. inflow 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	

PARAMETERS

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

NOVA MAX

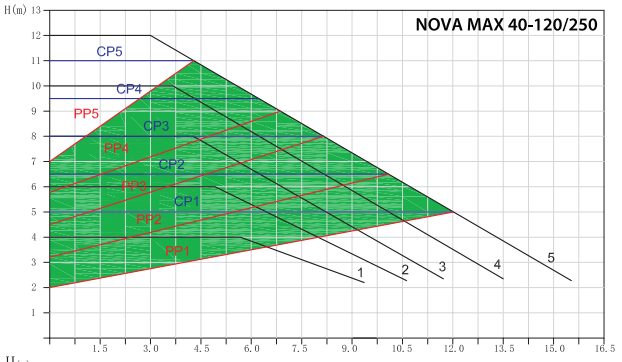
Energy-saving electronic circulation pumps that meet the requirements for A class pumps.

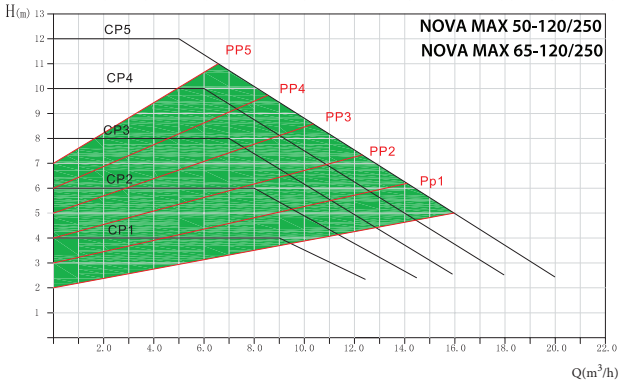
The NOVA circulation pump is fitted with a permanent magnet motor and differential pressure controller that automatically and continuously adjusts the pump capacity to meet the actual needs of the system. The pump control panel is placed on the top of the motor for easy operation by the user. Its dial 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.





The energy efficiency coefficient for NOVA pumps is:

EEI<=0,23

TECHNICAL DATA		
Supply voltage	1×230V +6%/-10%, 50Hz	
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. inflow 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	

PARAMETERS

MODEL	Operation mode (x1)	Lift (m)	Capacity (l/min)	Motor power (W)	Connector diameter (cale)	Connector spacing (mm)	Weight (kg)
NOVA MAX 40-120/250	16	12	275	15-600	1½	250	17,30
NOVA MAX 50-120/250	16	12	350	15-600	2	250	17,75
NOVA MAX 65-120/250	16	12	350	15-600	2½	250	17,95

IVO

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

SERWIS 48

The energy efficiency coefficient for MAGI 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 MAGI 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 connection

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:

The MAGI 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
- Household CH and DHW systems

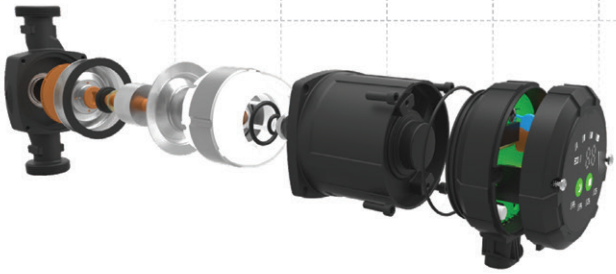
TECHNICAL DATA		
Supply voltage	1×230V +6%/-10%, 50Hz	
Motor protection	No additional motor protection is required	
Ingress Protection	IP 44	
Insulation class	H	
Maximum ambient relative humidity	≤ 95%	
Maximum central heating system pressure	1 Mpa	
Maximum suction-side inflow pressure depending on the heating medium temperature	Medium temperature	Min. inflow 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 temp.	TF 110	
Maximum pump surface temperature	≤ 115°C	
Pumped liquid temperature range	2~+110°C	

PARAMETERS

Name	*Operation mode (x1)*	*Lift (m)*	*Capacity (l/min)*	*Motor power (W)*	*Connector diameter (cale)*	*Connector spacing (mm)*	*Dimensions*						
							L1	*L2*	*B1*	*B2*	*H1*	*H2*	*G*
IVO 25-40/180	8	4	50	5-22	1½ x 1	180	90	180	52	99	129	169	11/2"
IVO 25-60/180	8	6	55	5-45	1½ x 1	180	90	180	52	99	129	169	11/2"

BETA 2

Energy-saving electronic circulation pumps with A energy-efficiency rating



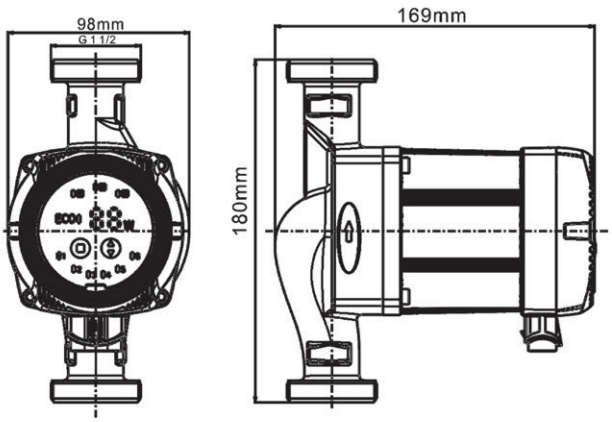
Energy Efficiency Index for BETA 2 pumps is

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.

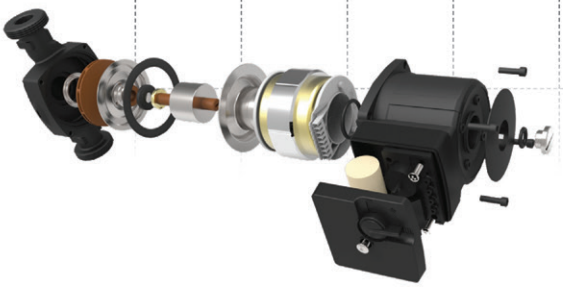


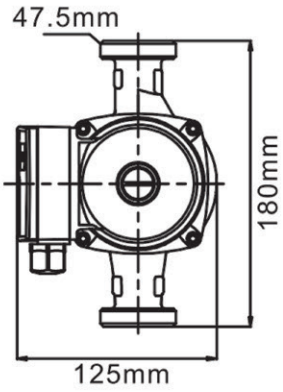
TECHNICAL DATA		
Supply voltage	1×230V +6%/-10%, 50Hz	
Motor protection	No additional motor protection is required	
Ingress Protection	IP 42	
Insulation class	H	
Maximum ambient relative humidity	≤ 95%	
Maximum central heating system pressure	1 Mpa	
Maximum suction-side inflow pressure depending on the heating medium temperature	Medium temperature	Min. inflow 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	

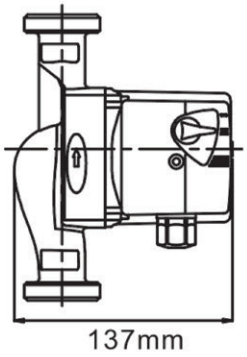
PARAMETERS

MODEL	Operation mode (x1)	Lift (m)	Capacity (l/min)	Motor power (W)	Connector diameter (cale)	Connector spacing (mm)	Weight (kg)
BETA 25-40/180	8	4,5	48	22	1½ x 1	180	3,1
BETA 25-60/130	8	6	55	45	1½ x 1	130	3,1
BETA 25-60/180	8	6	55	45	1½ x 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.

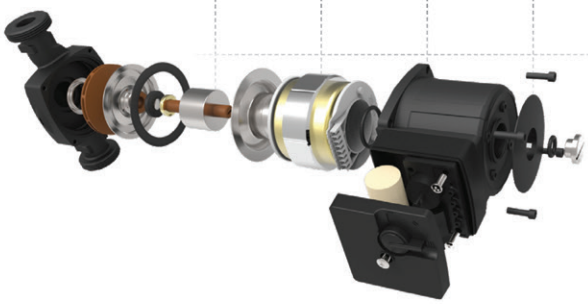
All OHI pumps have PZH (National Institute of Hygiene) approval.

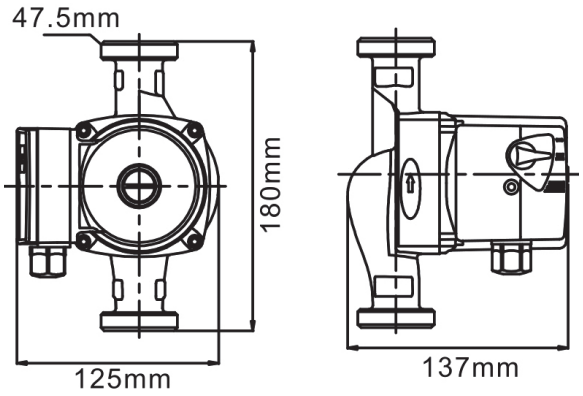
PARAMETERS

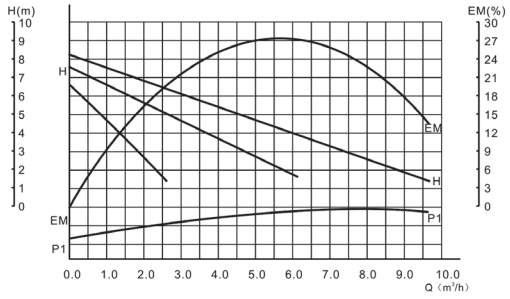
Name	Speed level	Head (m)	Flow (l/min)	Motor power (W)	Pump inlet/outlet diameter/Union joint diameter (inch)	Inlet/outlet spacing (mm)
OHI PRO 15-60/130	1	3	22	46	1 x ¾	130
	2	5	38	63		
	3	6	55	93		
OHI PRO 25-40/180	1	3	18	38	1½ x 1	180
	2	4	36	53		
	3	4,5	48	71		
OHI PRO 25-60/130 OHI PRO 25-60/180	1	3	22	46	1½ x 1	130 180
	2	5	38	63		
	3	6	55	93		
OHI PRO 32-60/180	1	3	22	46	2 x 1¼	180
	2	5	38	63		
	3	6	55	93		

OHI PRO MAX

3 YEAR WARRANTY







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.

PARAMETERS

Name	Speed level	Lift (m)	Capacity (l/min)	Motor power (W)	Pump inlet/outlet diameter/Union joint diameter (inch)	Inlet/outlet spacing (mm)
OHI PRO 25-80/180	1	6,5	43	150	1½ x 1	130
	2	7,5	103	220		
	3	8	160	270		
OHI PRO 32-80/180	1	6,5	43	150	2 x 1¼	180
	2	7,5	103	220		
	3	8	160	270		