



Circulation Pumps

Guidelines towards choice and substitution

Up date to: 05/2023

Diagrams and drawings for compatibility and substitution



ANTARES
for water & fire

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INDEX

	Pag.
HIGH ENERGY EFFICIENCY CIRCULATORS	3
• MODULEX frequency conversion circulator with controller and PWM socket	3
• Universal motors with impeller for high energy efficiency replacements	5
• AlfaMax” small flow circulators 5-6 mt. with sideward electronic device	7
• “AlfaMax” small flow circulators 5-6-8 mt. with front electronic device.....	8
• ALFAMAIOR medium flow circulators	9
• Large flow flanged circulators	10
CIRCULATORS FOR SOLAR SYSTEMS	11
UNIVERSAL IMPELLER MOTORS FOR REPLACEMENTS WITH COEFFICIENT ENERGY HIGHER THAN 0.23	12
MOTORS WITH IMPELLER FOR REPLACEMENTS WITH HIGH EFFICIENCY SIDE INVERTER ELECTRONIC CIRCUIT	13
RECIRCULATION PUMPS FOR DOMESTIC HOT WATER SYSTEMS	14
AUTOMATIC BOOSTER PUMPS FOR PRESSURE BOOSTING	15
CUSTOMIZED CIRCULATORS WITH PLASTIC BODIES	15
• With normalized plastic body H 130 - WILO type Ku - GRUNFOS type Cacao	16
• WILO* NFSL 12/6 - ARISTON* - MTS* - ARCA* - BIASI* SAVIO*	17
• WILO* FRSL 15/6 FERROLI* - DOMITECH* - DOMIPROJECT* - DIVATOP*	18
• WILO* KSL 15/16 - GRUNFOS CAOD - VAILLANT* - VIESSMANN*	19
• GRUNDFOS CESAO 2 - JUNKERS* - BOSCH* - DE DIETRICH*	20
• RIELLO* - BERETTA* - VOKERA*	21
• GRUNDFOS AOKR - WILO KSL	22
• ARCA*	23
TOOLS AND ACCESSORIES FOR CIRCULATORS	23
• Power cables and socket adapters	23
• Heads for built-in deaerator	24
• Bodies for circulators	24
• Valves, fittings and accessories for circulators	25

High energy efficiency circulators

MODULEX frequency conversion circulator with controller and PWM socket



MODULEX UPM HYBRID CIRCULATOR

ANTARES universal circulator for all applications and replacements

Multiple interchangeability:

meaning that it can easily replace failed or low energy-efficient circulators without stocking unnecessary spare parts, saving space, time and money.

High energy efficiency:

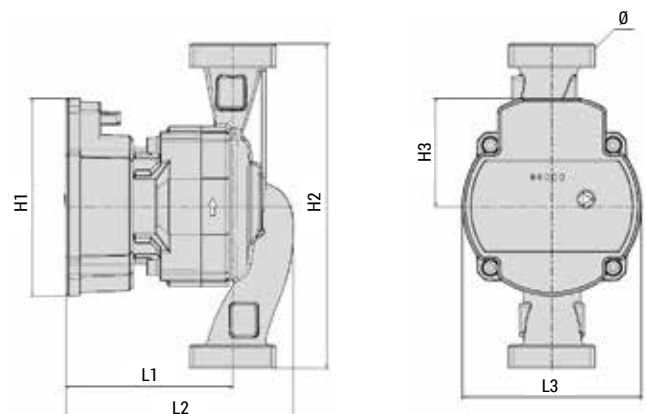
Not only it is suitable for replacing faulty circulators, but it is also equipped with high energy efficiency, which makes it ideal for new systems and renovations. It has a compact energy-efficient motor, which absorbs less energy than older generation models and therefore allows a reduction in heating system costs.

Multiple applications:

- Boilers
- Traditional heating systems
- Radiant panel floor heating systems
- Mixing and heat exchange unit
- Biomass heating

- ▶ Universal circulator for all applications.
- ▶ Universal circulator for all replacements.
- ▶ Intelligent frequency conversion circulator with electronic control of:
 - PP - Proportional Pressure
 - CP - Constant Pressure
 - CS - Constant Speed
 - Self Adapt - Automatic Control
- ▶ Complies with European directives Eup/Erp with energy efficiency index ≤ 0.21 .
- ▶ Equipped with PWM controller for external regulation.
- ▶ Structural quality: rotating parts made of ceramic bearings, resistant to wear.

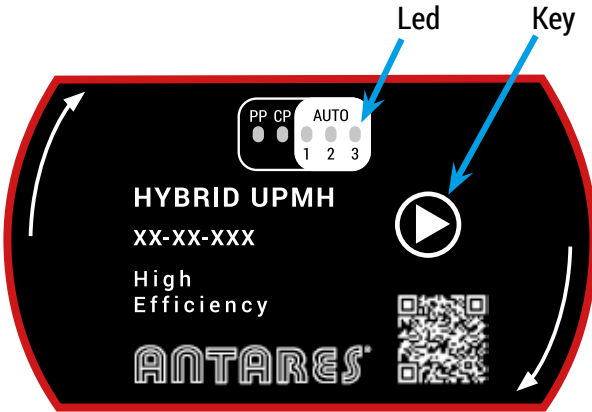
The ANTARES MODULEX UPM- circulation pump is an intelligent frequency conversion circulator with integrated electronic differential pressure control, with the possibility of setting the regulation module and the head (differential pressure). The differential pressure is controlled by the pump speed.



Models and reference codes

Art. code	Model	Head mt	Max Flow m ³ /h	Thread \emptyset	Height
					H2
P.110.69	UPMH 15-60-130	1-6	2.9	1" M.	130
P.110.60	UPMH 25-60-130		3.2	1 1/2" M.	130
P.110.68	UPMH 25-60-180		3.2	1 1/2" M.	180
P.110.89	UPMH 15-80-130	1-8	2.9	1" M.	130
P.110.84	UPMH 20-80-130		-	1 1/4" M.	130
P.110.80	UPMH 25-80-130		3.4	1 1/2" M.	130
P.110.88	UPMH 25-80-180		3.6	1 1/2" M.	180
P.110.82	UPMH 32-80-180		4.0	2" M.	180

Control panel



Performance curves

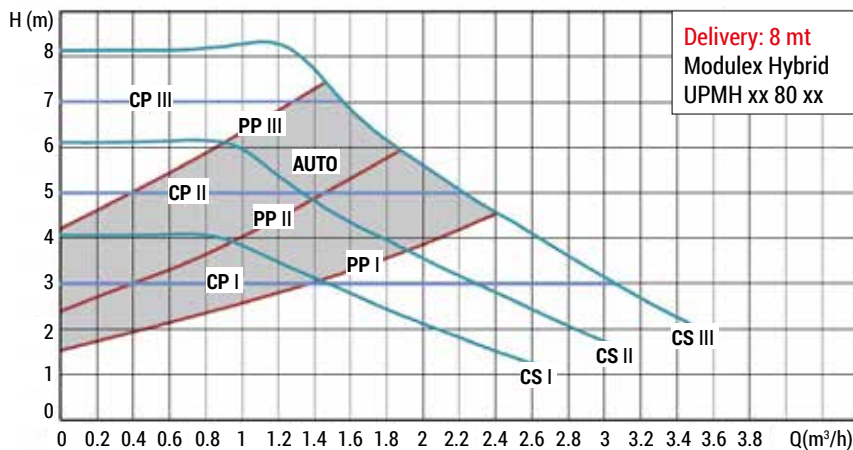
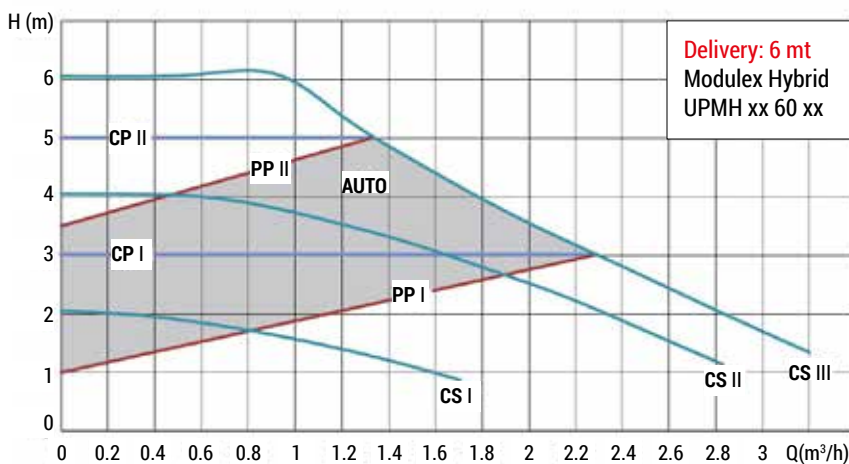
Pump performance symbols:

- **PP**= Proportional Pressure
- **CS**= Constant Speed
- **CP**= Constant Pressure
- **AUTO** = Self Adapt – Automatic Control



Possibility to set the control mode and the delivery (differential pressure).
The differential pressure is regulated by the pump speed.

Performance curves



Working conditions

- Liquid temperature: 2°C ~ 110°C
- Room temperature: 0°C ~ 40°C
- Max. system pressure: 10 bar
- Protection level: IP44
- Rated voltage/frequency: 220 V ~ 240 V / 50 Hz
- Insulation class: E
- Characteristics of the pumped liquid: clean, free from solids and mineral oils, non-toxic, chemically neutral
- Installation: the motor shaft must be kept in the horizontal direction

More detailed technical data sheets can be requested or downloaded from our website:

www.antaresint.com



Functions of the different models

Model MODULEX	Internal control			External control
	Proportional Pressure	Constant Pressure	Constant Curve	
HYBRID UPMH	I	I	I	PWM P1
	II	II	II	
	III	III	III	
	AUTO	-	-	
SOLAR UPMS (P.023)	I	I	I	P2/P1
	II	II	II	
	III	III	III	
	AUTO	-	-	

Our technical department is available for any further details

THE CIRCULATOR CAN BE INSTALLED ON PLASTIC COMPOSITE BODIES (FOR OEM)



Universal motors with impeller for high energy efficiency replacements

MODULEX type in frequency conversion with PWM control and socket - EEI coefficient <0,21



Art. P.121.80

Universal spare motor with high efficiency frequency conversion impeller and inverter for replacements on GRUNDFOS UPM and ALFA domestic circulators, ANTARES models and other brands with ANTI-CLOCKWISE rotation (CCW). With PWM control socket and equipped with SELF ADAPT, PP, CP, CS functions. Self-regulating with or without connecting the cable to the PWM regulator.

Distance between fixing holes 68 mm - complete with gaskets and power cables. Max head: 8 mt. - 4-year warranty.

Compatible and interchangeable with Grundfos UPM3 and other brands



Old GRUNDFOS models and other brands

- UPM3 (all types with or without PWM controller)
- UPM2 (all types with or without PWM controller)
- ALFA2 (all types with or without PWM controller)



Old models Grundfos UPS xx xx xxx and other brands



Art. P.122.80

Universal spare motor with high efficiency frequency conversion impeller and inverter for replacement on WILO domestic circulators and other brands with CW rotation (CW). With PWM control socket and equipped with SELF ADAPT, PP, CP, CS functions. Self-regulating with or without connecting the cable to the PWM regulator.

Distance between fixing holes 69 mm - complete with gaskets and power cables. Max head: 8 mt. - 4-year warranty.

Compatible and interchangeable: WILO



- PARA (all types with or without PWM controller)
- PICO (all types with or without PWM controller)
- YONOS (all types with or without PWM controller)



Old models RS xx / X and other brands

High energy efficiency AlfaMax and AlfaMaior circulators



Use:

- Boilers
- Heating and cooling systems.
- Solar systems.
- Mixing and heat exchange unit
- Biomass heating

Technical characteristics:

- Working temperature: +2°C ~ +110°C.
- Max pressure: 10 bar.
- Wet rotor pump.
- Protection class: IP42 - Isolation class: F.

Details:

- Ratio of energy efficiency inferior to: 0,20.
- Electronic protection incorporated.
- Employable with water and anti-freeze liquids.

Functions:

- Controlled by two buttons on front panel.

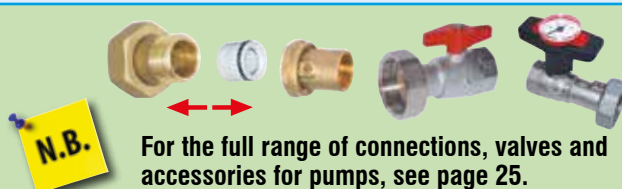
When tension is present the display lights up and shows instant power absorption.

The buttons are for:

- Setting the work mode
- Activating night reduction power

Setting function mode:

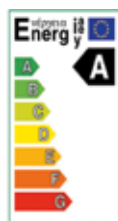
- Automatic functioning in relation to the delivery required by the system so as to optimise power consumption.
- Three selectable speeds.
- Constant pressure.
- Proportional pressure.



N.B. For the full range of connections, valves and accessories for pumps, see page 25.

Small range "AlfaMax" 5-6 mt. with sideward electronic device

2-Year Warranty

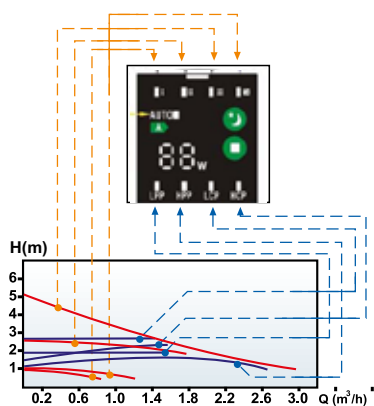


CIRCULATION PUMP
energy class A
Coefficient EEI < 0.20

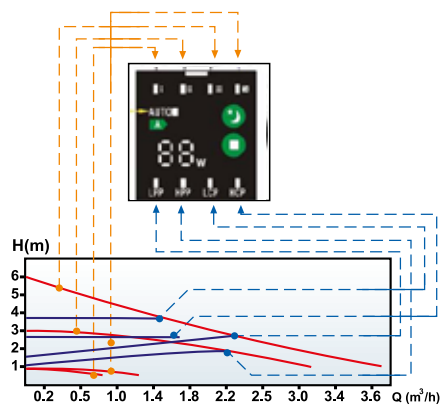
Art. P.065



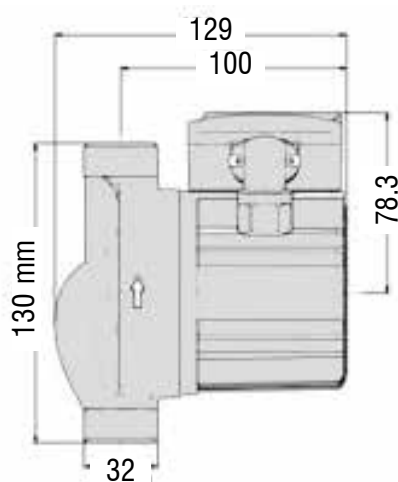
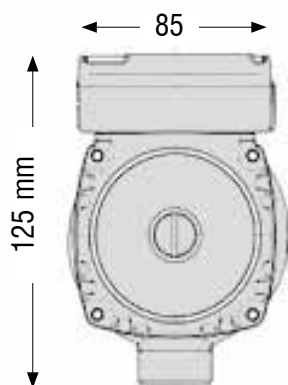
AS --/ 50



AS --/ 60



Dimensions



AlfaMax circulating pump with wet rotor high energetic efficiency, certified in class A and with coefficient factor EEI inferior to 0.20. With sideward electronic equipment.

Wet rotor - 2 year warranty. Already in conformity with new european leg. Erp 200/125/EC. For the insulating shell see art. P.070 page 25.

Order code	Type AlfaMax	Max delivery mt.	Max flow lt./min.	Height H	Connections Ø	W
P065.59	AS 15/50	5	50,5	130	1" M.	32
P065.50	AS 25/50			130	1 1/2" M.	32
P065.69	AS 15/60	6	60	130	1" M.	45
P065.60	AS 25/60			130	1 1/2" M.	45

Small-scale series "Alfamax" 5-6-8 mt with frontal electronic equipment

8 mt.



2-Year Warranty



CIRCULATION PUMP
energy class A
Coefficient EEI < 0.20

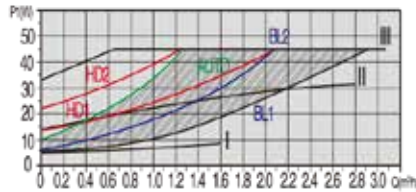
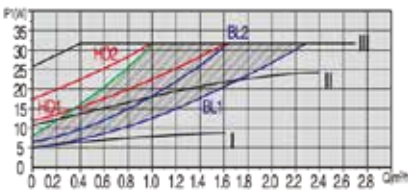
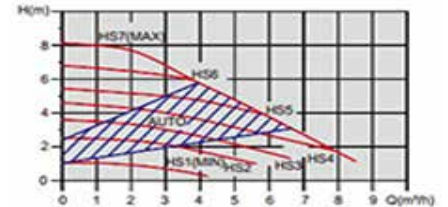
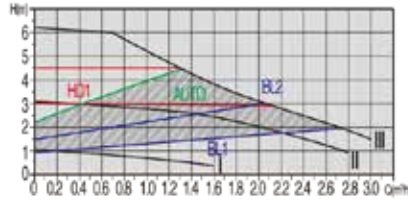
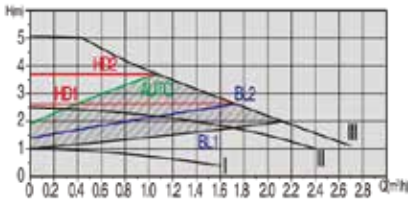
Art. P.064

4,9 m³/h

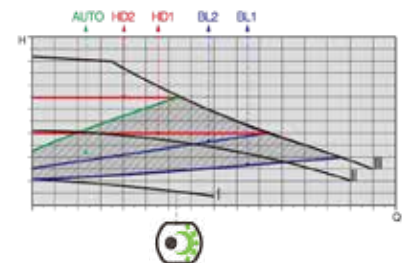
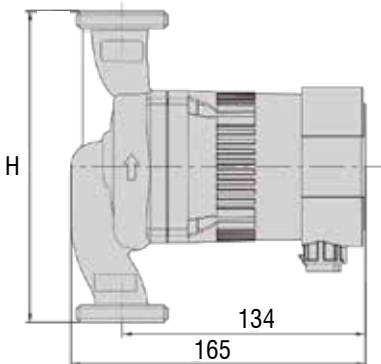
RS --/ 50

RS --/ 60

RS --/ 80

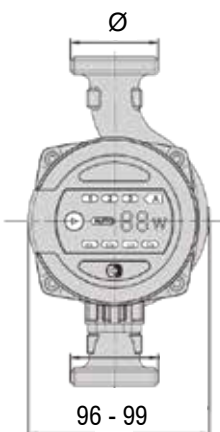


Dimensions



High energy efficiency "AlfaMax" wet rotor circulation pump, certified in class A and with an energy efficiency coefficient EEI lower than 0.20. With display of electrical consumption.

Wet rotor - 2 year warranty. Already compliant with new European directive ERP200/125/CE. For the insulating shell see art. P.070 page 25.



Order code	Type AlfaMax	Max delivery mt	Max flow lt./min.	Height H	Connections Ø	W
P.064.59	RS 15/50	5	41	130	1" M.	32
P.064.50	RS 25/50		50	130	1 1/2" M.	32
P.064.58	RS 25/50		50	180	1 1/2" M.	32
P.064.69	RS 15/60	6	46	130	1" M.	45
P.064.64	RS 20/60		46	130	1 1/4" M.	45
P.064.60	RS 25/60		53	130	1 1/2" M.	45
P.064.68	RS 25/60		53	180	1 1/2" M.	45
P.064.62	RS 32/60	8	66	180	2" M.	45
P.064.89	RS 15/80		70	130	1" M.	70
P.064.84	RS 25/80		70	130	1 1/2" M.	70
P.064.80	RS 25/80		70	180	1 1/2" M.	70
P.064.82	RS 32/80		83	180	2" M.	70

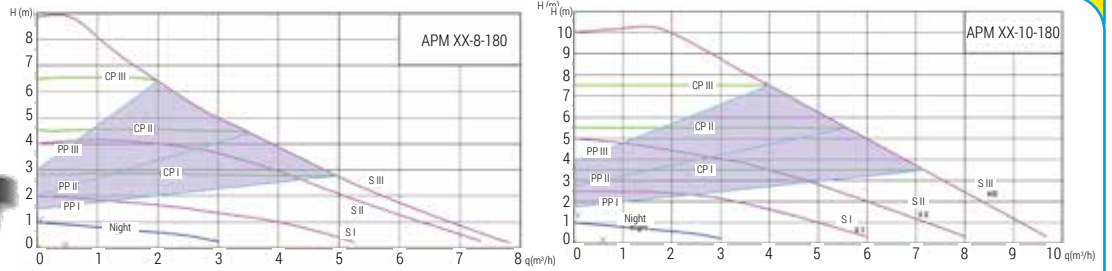
Range for medium flows AlfaMaior 8-10 mt. with frontal electronic apparatus

2-Year Warranty

H
10 m

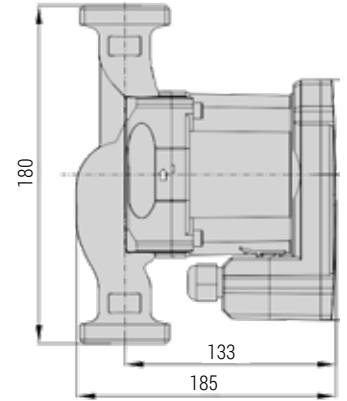
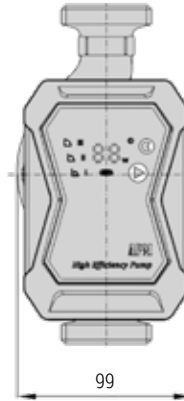


Q
9 m³/h



CIRCULATION PUMP
class A energy
Coefficient EEI < 0.20

Art. P.066



"AlfaMaior" circulation pump with wet rotor with high energy efficiency certified in class A and with coefficient of energy efficiency EEI less than 0.20. With front electronic device. For the insulating shell see art. P.070 page 25.

Complies with European directive 200/125/EC. Flow rates and head as shown in the table. 2 year warranty. Height 180 mm. Power 180 W.

Order code	Type	Max delivery mt	Connections Ø	Max flow m³/h.	Power
P.066.12	APM 25/8	8	1 1/2"	8	80 W
P.066.20	APM 32/8	8	2"	8	
P.066.52	APM 25/10	10	1 1/2"	9	120 W
P.066.70	APM 32/10	10	2"	9	

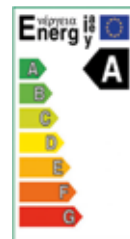
Range for medium flows AlfaMaior 12 mt. with frontal electronic apparatus

2-Year Warranty

H
12 m

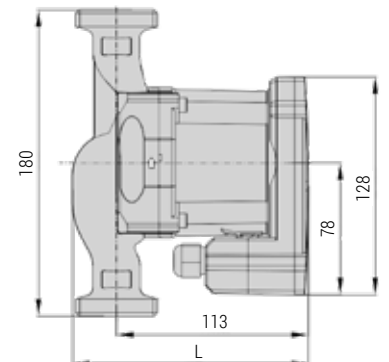
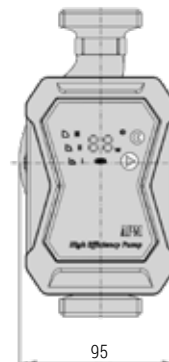
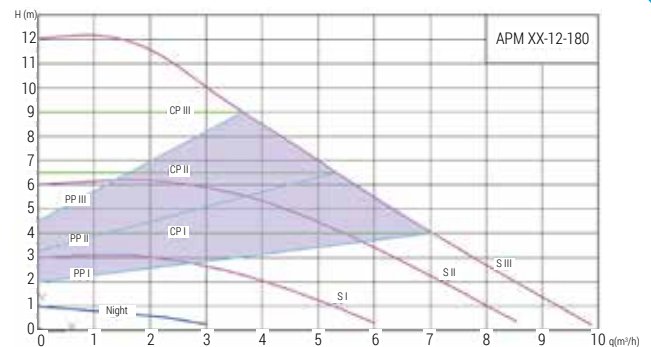


Q
10 m³/h



CIRCULATION PUMP
class A energy
Coefficient EEI < 0.20

Art. P.076



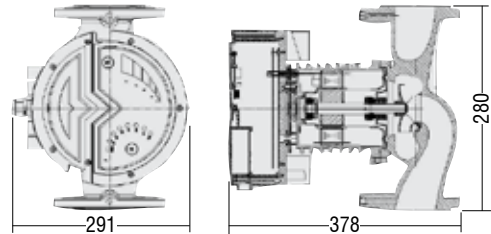
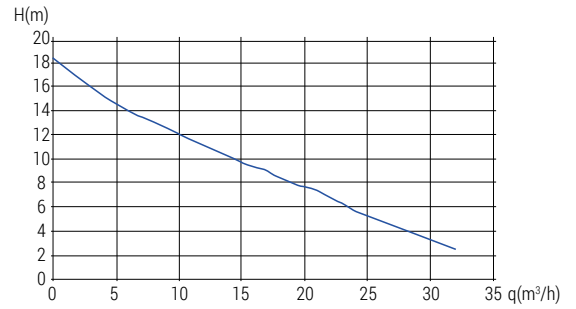
"AlfaMaior" circulation pump with wet rotor with high energy efficiency certified in class A and with coefficient of energy efficiency EEI less than 0.20. With front electronic device. For the insulating shell see art. P.070 page 25.

Complies with European directive 200/125 / EC. Flow rates and head as shown in the table. 2 year warranty. Height 180 mm. Power 180 W.

Order code	Type	Max delivery mt	Connections Ø	Max flow m³/h.	Quote "L" mm.
P.076.12	APM 25/12	12	1 1/2"	10	138
P.076.20	APM 32/12	12	2"	10	143

Flanged series of large capacities

18 mt.



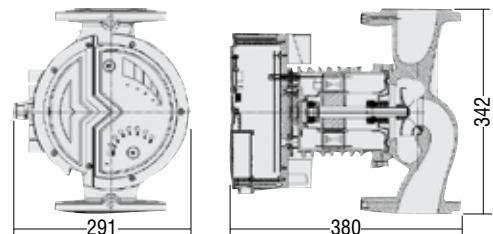
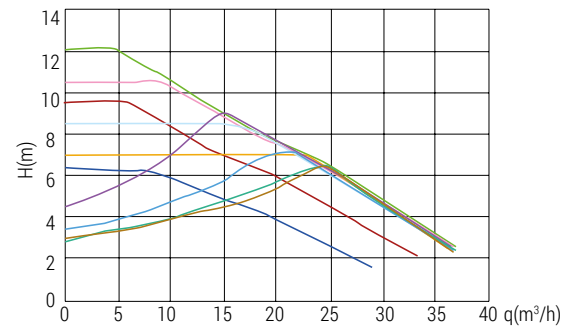
Art. P080.50

→ 31 m³/h

ANTARES circulation pump type "AlfaMega" 50-18 flanged DN 50 with high energy efficiency with rotor wet and with PWM control socket. Single-phase 240 Vac frequency modulation. Max flow rate: 31 m³/h. Max head: 18 mt.

With AUTO ADAPT function, proportional pressure control, constant pressure control, constant flow control. Body in cast iron, IP42 protection.

12 mt.



Art. P083.65

→ 37 m³/h

ANTARES circulation pump type "AlfaMega" 60-12 flanged DN 65 high energy efficiency with wet rotor and with PWM control socket, single-phase 240 Vac with frequency modulation. 750 W. - Max flow rate: 37 m³/h - Max head: 12 mt.

With AUTO ADAPT function, proportional pressure control, constant pressure control, constant flow control. Body in cast iron, IP 42 protection.

Circulators for solar plants

4-Year Warranty

PWM1
or
PWM2

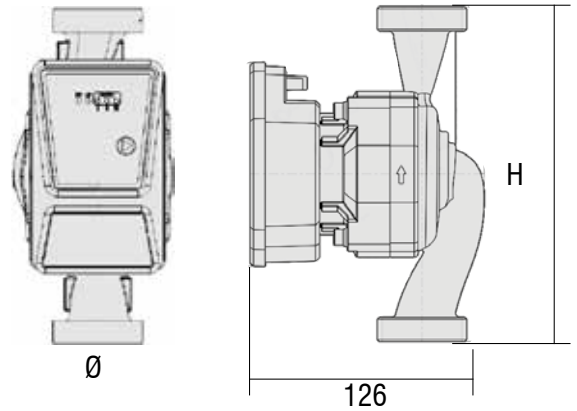
Ethylene
Glycoles
Max 50%

CIRCULATION PUMP
class A energy
Coefficient EEI <0.21

Flow rate and delivery head
with reference art. P.110 on
page 3



Art. P.023



ANTARES circulation pump type MODULEX SOLAR with high energy efficiency with frequency modulated inverter and with PWM2 or PWM1 parameterizable control socket, equipped with the SELF ADAPT self-adjusting function with and without PWM cable connection. Specifically suitable for solar systems.

Max flow rate: m³/h 3.3. Self-regulating. It satisfies all the needs of the circulator in a single product. Complete with gaskets and power cables. 230 Vac power supply. - 4 year warranty.

Order code	Type "Solar"	Max delivery	Height H	Connections Ø	W
P023.89	UPMS 15-80-130	8 mt.	130	1" M.	65
P023.80	UPMS 25-80-130	8 mt.	130	1 1/2" M.	65

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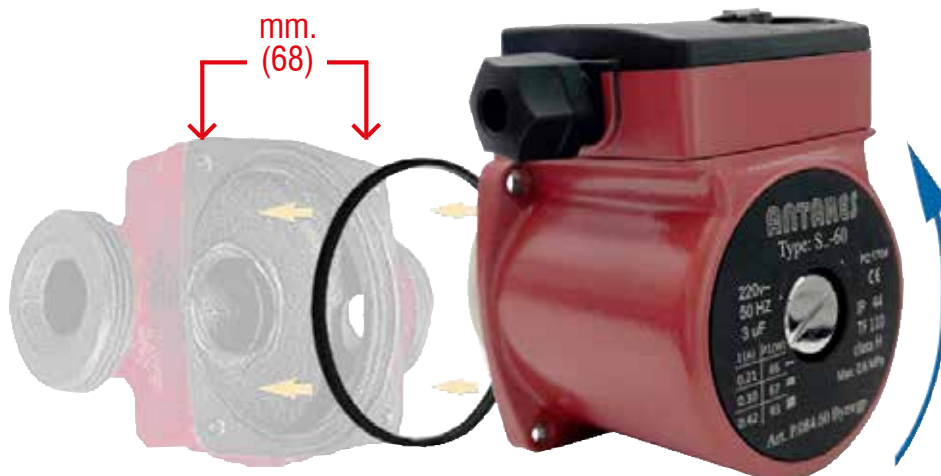
→ www.antaresint.com

Universal replacement motors with turbine for domestic circulators with coefficient ≥ 0.23

N.B.

These products are to be considered spare parts (components) of a circulator, therefore they can be installed because they do not come under the Eup 2016 legislation that refers to complete circulators, and not to spare parts of old circulators.

ANTICLOCKWISE ROTATION FOR GRUNDFOS and other brands



Art. P.084

UNIVERSAL MOTORS WITH TURBINE: (holes distance 68)

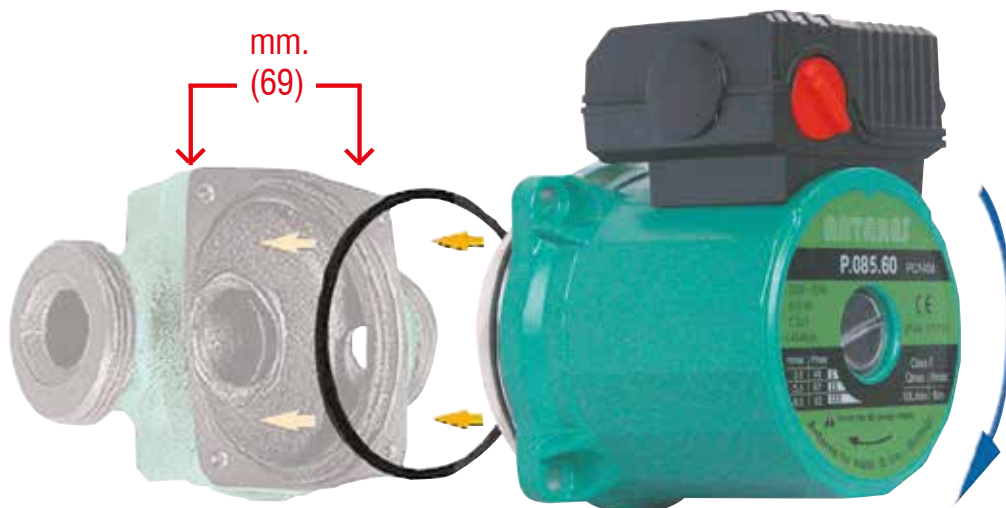
2 MODELS (ANTICLOCKWISE and CLOCKWISE) can be used in an interchangeable way on almost all the domestic circulation pumps available now on the market. With the speed control switch one can obtain the delivery according to the needs of the system.

Universal spare motor with turbine for the substitution of domestic circulation pumps "GRUNDFOS", "ANTARES" and other brands, complete with set of washers and screws. Anticlockwise rotation.

Fixing distance mm 68. Complete with adjustable speed control to obtain delivery head according to the needs of the system.

Max delivery	5 mt.	6 mt.
Order code	P084.50	P084.60

CLOCKWISE ROTATION FOR WILO and other brands



Art. P.085

THE SUBSTITUTION OF THE MOTOR OFFERS MULTIPLE ADVANTAGES:

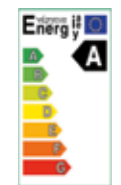
- More rapid and easier due to only the substitution of the motor.
- Less stock and financial commitment.

Universal spare motor with turbine for the substitution of domestic circulation pumps "WILO", "WSC" and other brands, complete with set of washers and screws. Clockwise rotation.

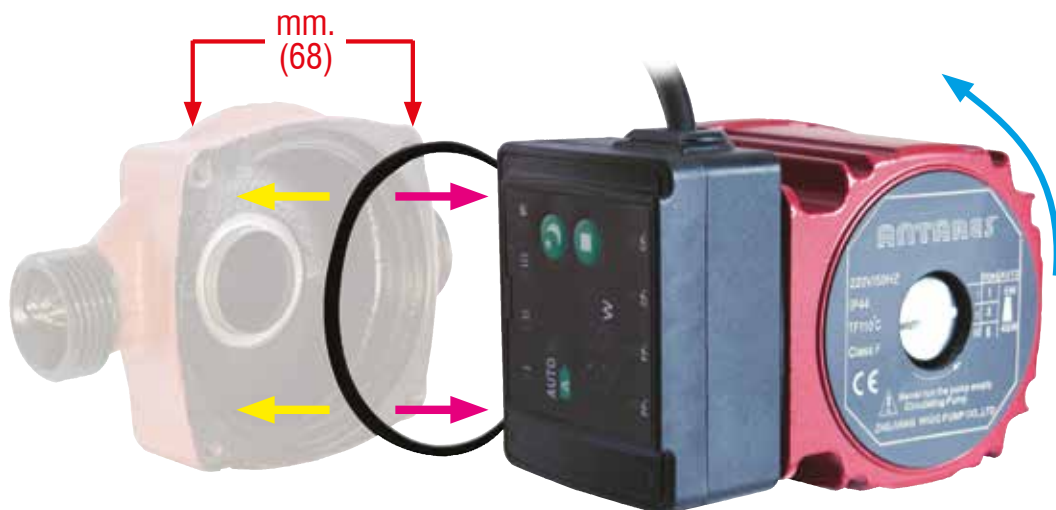
Fixing distance mm 69. Complete with adjustable speed control to obtain delivery head according to the needs of the system.

Max delivery	5 mt.	6 mt.
Order code	P085.50	P085.60

ANTICLOCKWISE ROTATION for GRUNDFOS and other brands



coefficient
EEI < 0,20



Art. P.074

UNIVERSAL MOTORS WITH TURBINE: (distance between holes 68)

2 MODELS (ANTICLOCKWISE and CLOCKWISE) can be used in an interchangeable way on almost all the domestic circulation pumps available now on the market. The incorporated electronic inverter will automatically adjust the delivery with the system's requirements.

Universal spare motor in class "A" energy with turbine for substituting domestic circulators "GRUNDFOS", "ANTARES", and other brands. Complete of set of washers and screws. Anticlockwise.

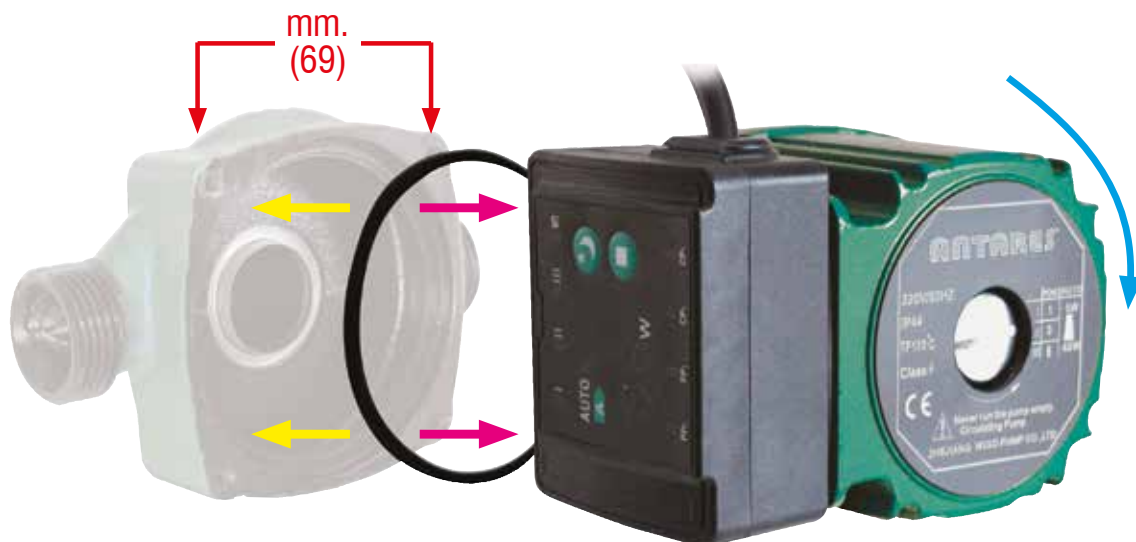
Fixing axis 68 mm. Complete of selectable adjustable speed, that allows for 4.5 and 6 mt delivery. 230 Vac.

Delivery mt	5	6
Order code	P074.50	P074.60

CLOCKWISE ROTATION for WILO and other brands



coefficient
EEI < 0,20



Art. P.075

THE SUBSTITUTION OF THE MOTOR OFFERS MULTIPLE ADVANTAGES:

- Quicker and easier due to just the substitution of the motor.
- Less stock and less financial commitment.

Universal spare motor in class "A" energy with turbine for substituting domestic circulators "WILO", "ANTARES", and other brands. Complete of set of washers and screws. Clockwise.

Fixing axis 69 mm. Complete of selectable adjustable speed, that allows for 4, 5 and 6 mt delivery. 230 Vac.

Delivery mt	5	6
Order code	P075.50	P075.60

Circulation pumps for domestic hot water

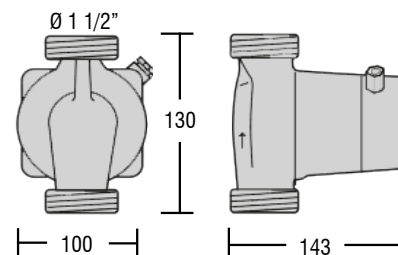
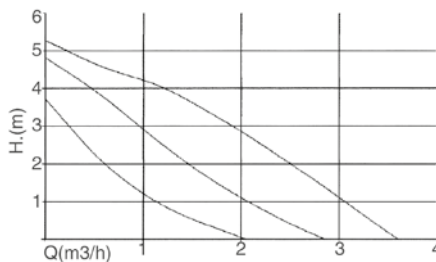


Bronze body

Art. P090.00

Q
3,8 m³/h

2-Year Warranty



Antares circulation pump for domestic hot water, with bronze body. - 230 V - 50 Hz - 2 years warranty.

Connections: 1 1/2" M. - 96 W. - Max. Pressure 10 bar.

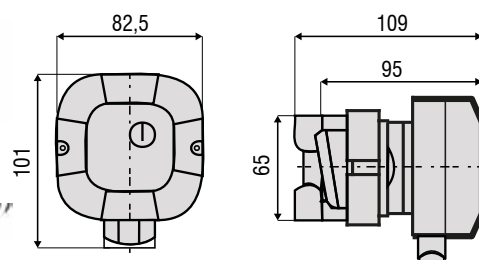
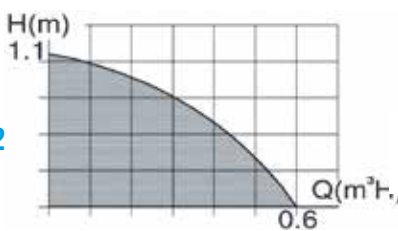


Stainless steel body

Art. P093.02

Q
0,6 m³/h

2-Year Warranty

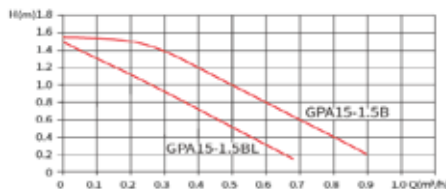


High energy efficiency circulation pump for domestic hot water W = 9 - 230 V. - 50 Hz. Stainless steel body.

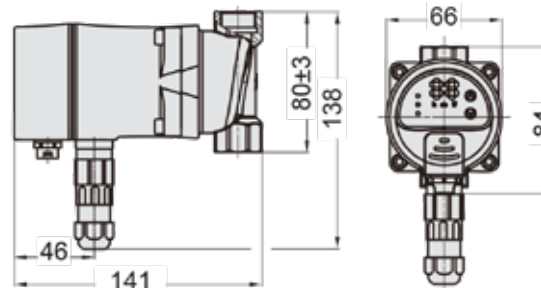
Connections: 1/2 "F. - Maximum pressure 10 bar - Head: 1.1 mt. - Flow rate: 10 lt./min.



2-Year Warranty



Art. P094.00

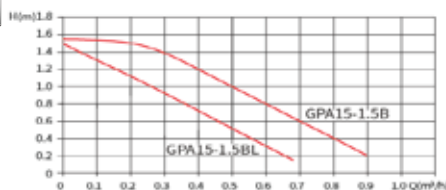


ANTARES circulation pump for domestic hot water type HOTMATIC 15-1.5 with high energy efficiency with brass body. Consumption: 5 W - 230 Vac.

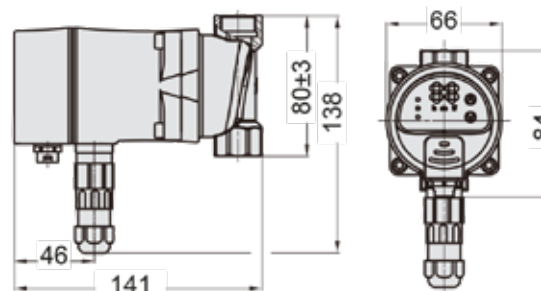
Connections: 1 "F. - Complete with insulating shell. Capacity: 0,9 m³/h - Head 1,5 mt.



2-Year Warranty



Art. P095.00



ANTARES circulation pump for domestic hot water type HOTMATIC 15-1.5 with high energy efficiency with brass body. Consumption: 5 W - 230 Vac.

Connections: 1 "F. - Complete with insulating shell. Capacity: 0,9 m³/h - Head 1,5 mt. With electronic control display with programming for: - operation at hourly intervals over 24 hours - operation with temperature control - function washing to avoid the formation of bacterial colonies.

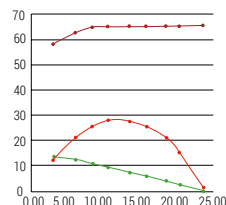
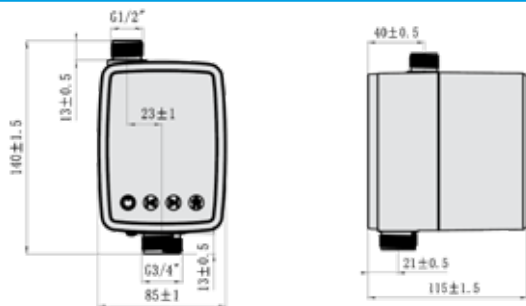
Automatic pressure boosting pumps for increasing pressure



2-Year Warranty



Art. P202.02



—●— Delivery (m)
—●— Efficiency (%)
—●— Power (w)

Pressure boosting pump for ANTARES sanitary water type PLUSPRESSION with high energy efficiency, with brass body.

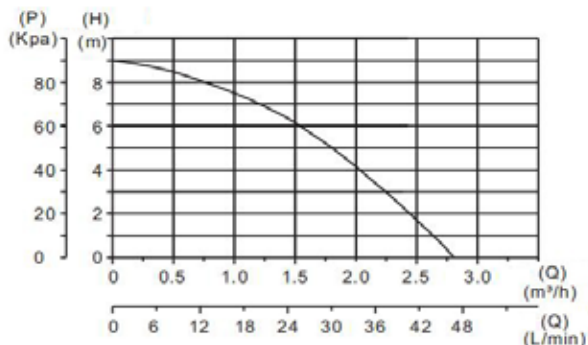
Complete with integrated flow switch that allows automatic start and stop. Particularly suitable for increasing the inlet pressure of boilers when the available pressure is low and does not allow adequate pressure for the use of hot water in the shower. Connection: 1/2". With electronic control display. Dimensions: 140 x 115 x 85 mm. -Power supply: 230 Vac. - Flow rate: 10 l / min Head: 10 m.



2-Year Warranty



Art. P204.03



Pressure boosting pump for ANTARES sanitary water type BOOSTER PRESSION 15-9AB with brass body.

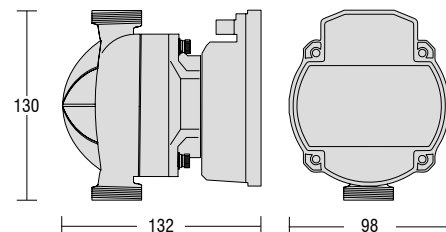
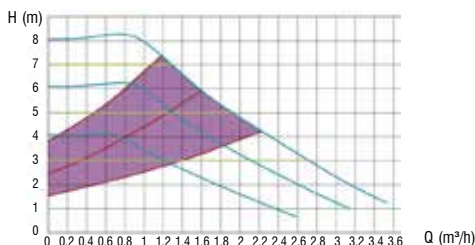
3/4" connections, complete with brass unions. Distance between the fixing holes: 160 mm. With titration valve and flow switch integrated, which allows automatic start and stop. Power: 120 W - 230 Vac. Delivery: 9 mt. - Flow rate: 1.78 m³/h. Conceived for increase the pressure of the domestic water supplied by an external source and make it available for showers, taps and other withdrawal points.

Circulators with plastic bodies for customized boilers



Art. P061.80

3,3 m³/h



Art. P061.80 - High energy efficiency domestic hot water recirculation pump 230 V. Anti-clockwise rotation (CCW).

Plastic body. Connection 1" M. Height of the connections: 130.

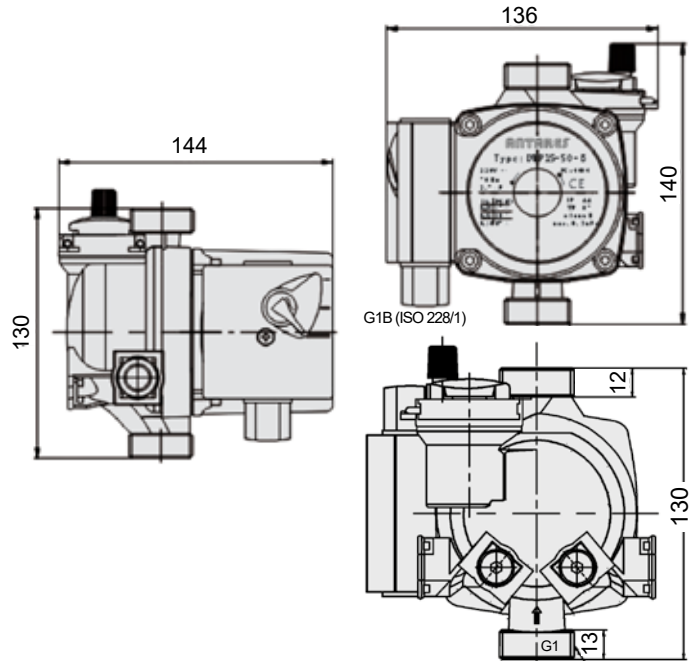
Not modulating

N.B.

With EC amendment (October 2019) the use of circulators with EEI coefficient higher than 0.23, replacing the integrated ones in boilers is still allowed until 01 January 2022. Therefore, ANTARES will continue to produce them for the extra EU market and a distribute them until that date in the EU market.



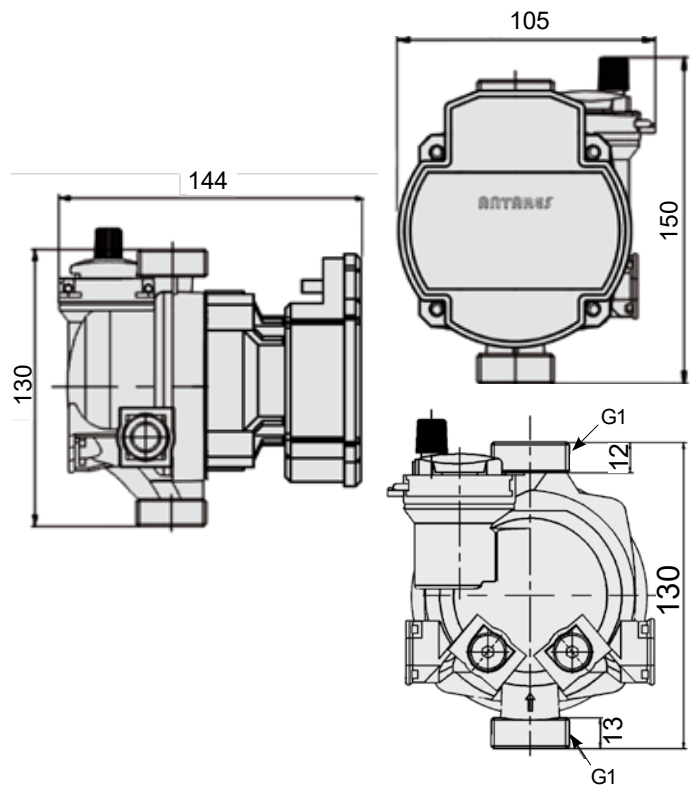
Art. P.062.63



Modulating with PWM control



Art. P.062.98



Antares circulation pump with air separator and automatic deaerator. Plastic composite body. Compatible with Wilo type Ku and GRUNDFOS type Cacao.

Connections: 1" M. - Height of connections: 130. - 230 V - 50 Hz - Complete with cables for modulating models.

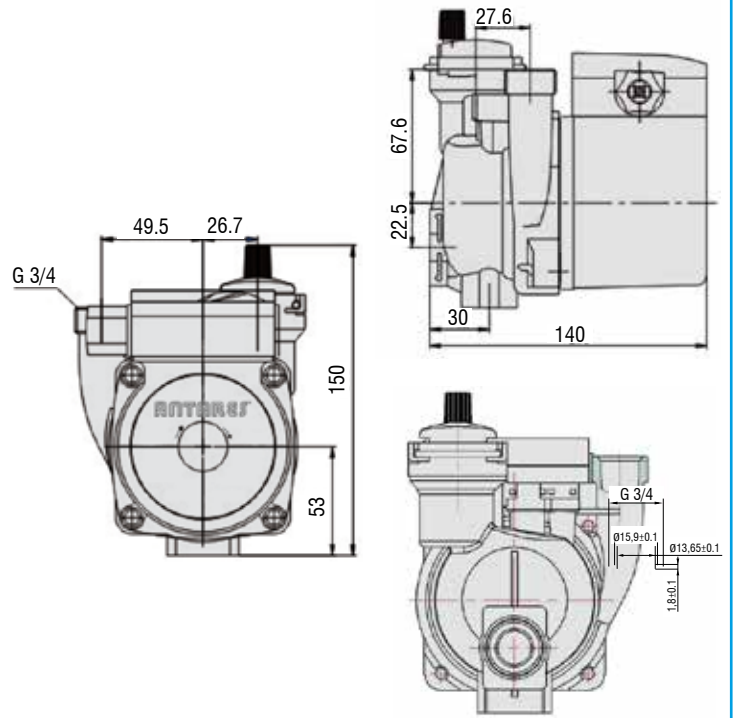
Order code	Type	Max delivery mt
P.062.98	Modulating - EEI < 0,20	8 self-regulating with PWM socket
P.062.63 <i>Until stocks last</i>	Not modulating - EEI > 0,20	6

Compatible: Wilo NFSL12/6 - Ariston MTS, Arca, Biasi, Savio and others.

Not modulating



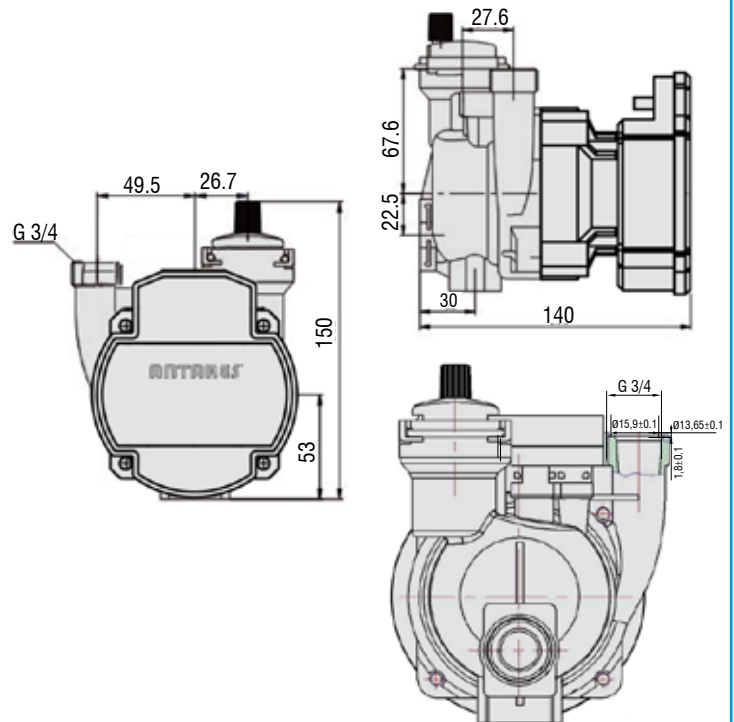
Art. P.030.60



Modulating with PWM control



Art. P.030.90



Antares circulation pump with air separator and automatic deaerator. Plastic composite body. Compatible with Wilo and Grundfos.

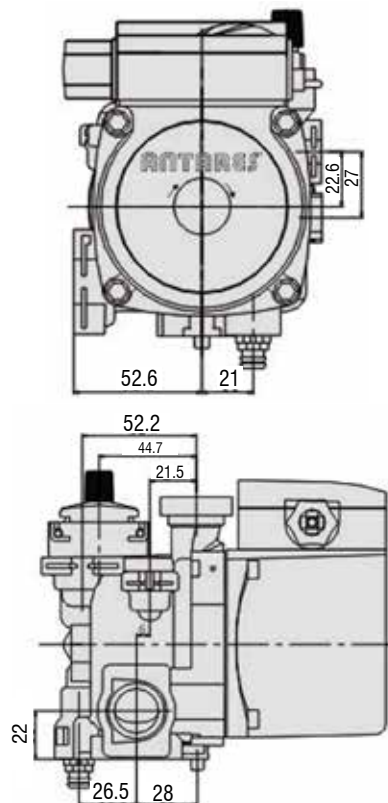
For the performance curves see Art. P.110. 230 V 50 Hz - Complete with cables for the modulating model.

Order code	Type	Max delivery mt
P030.90	Modulating - EEI < 0,20	8 self-regulating with PWM socket
P030.60 <i>Until stocks last</i>	Not modulating - EEI > 0,20	6

Not modulating



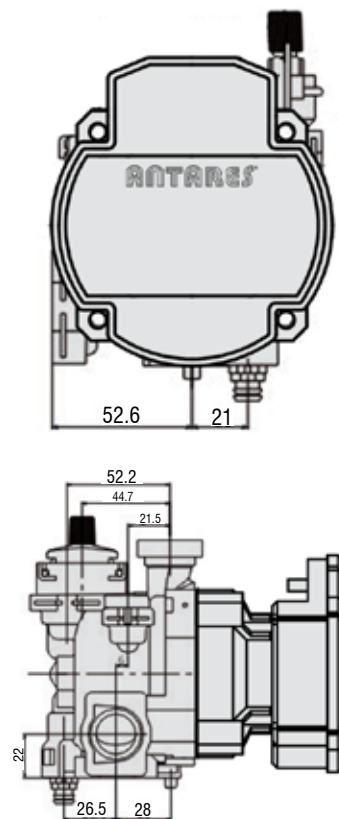
Art. P032.60



Modulating with PWM control



Art. P032.90



Plastic composite body circulator with built-in automatic deaerator.

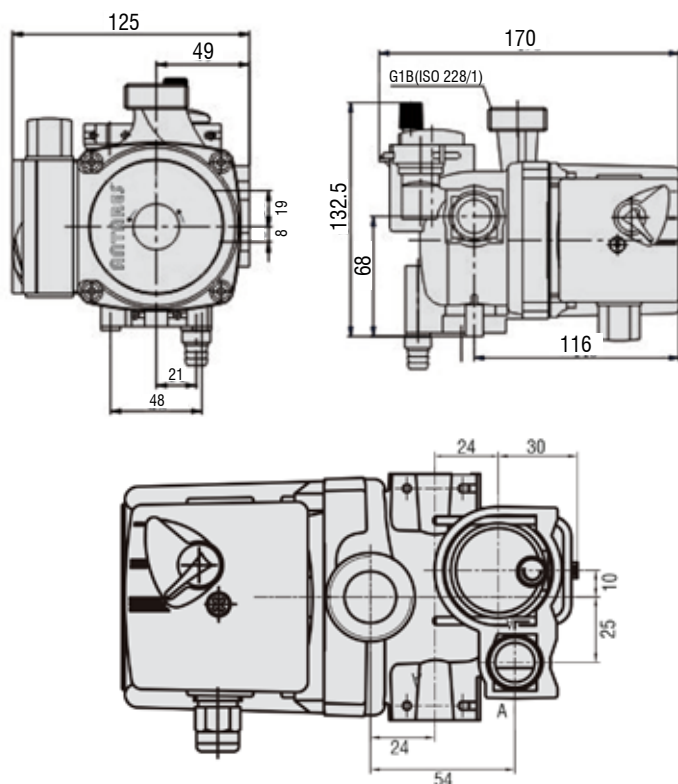
For the performance curves see Art. P.110. 230 V 50 Hz - Complete with cables for the modulating model.

Order code	Type	Max delivery mt
P032.90	Modulating - EEI < 0,20	8 self-regulating with PWM socket
P032.60 <i>Until stocks last</i>	Not modulating - EEI > 0,20	6

Not modulating



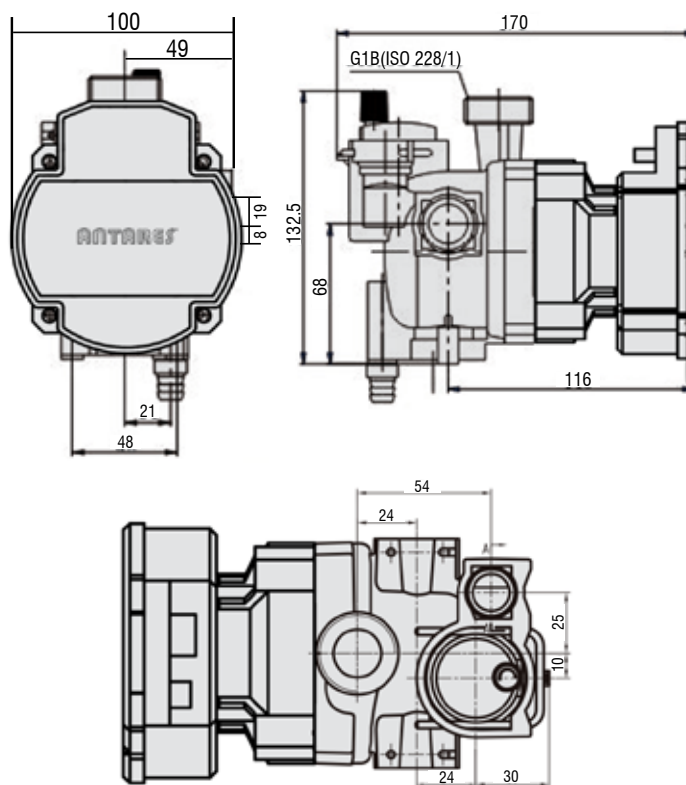
Art. P034.60



Modulating with PWM control



Art. P034.90



Plastic composite body circulator with built-in automatic deaerator.

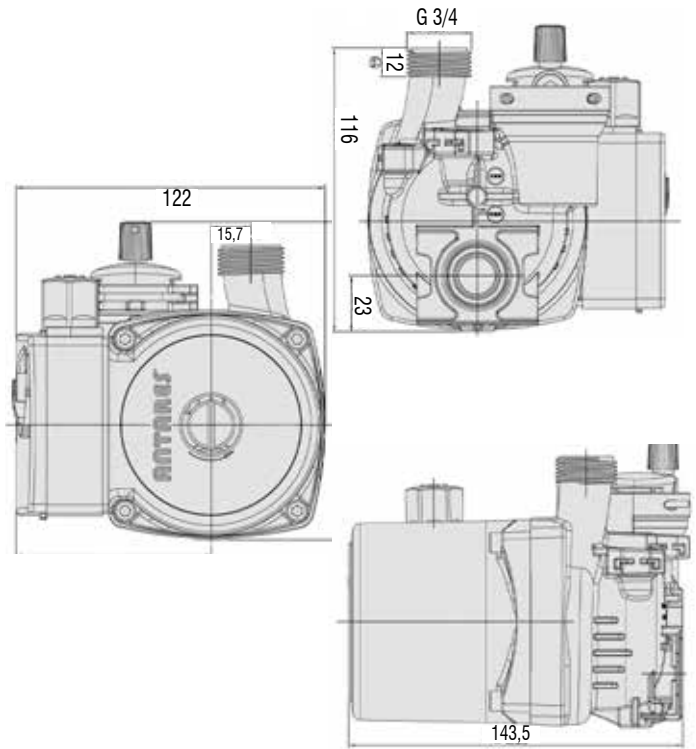
For the performance curves see Art. P.110. 230 V 50 Hz - Complete with cables for the modulating model.

Order code	Type	Max delivery mt
P034.90	Modulating - EEI < 0,20	8 self-regulating with PWM socket
P034.60 <i>Until stocks last</i>	Not modulating - EEI > 0,20	6

Not modulating



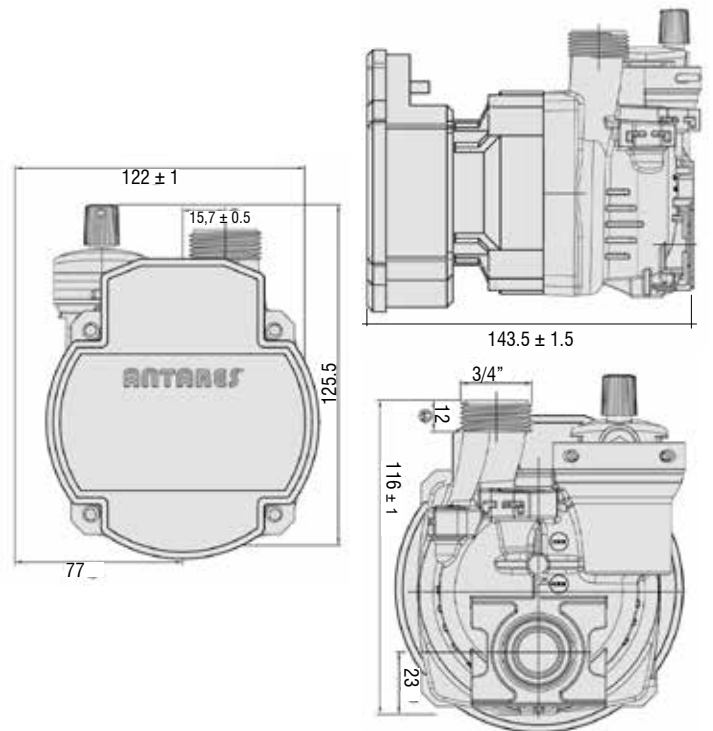
Art. P.036.00



Modulating with PWM control



Art. P.036.90



Plastic composite body circulator with built-in automatic deaerator.

For the performance curves see Art. P.110. 230 V 50 Hz - Complete with cables for the modulating model.

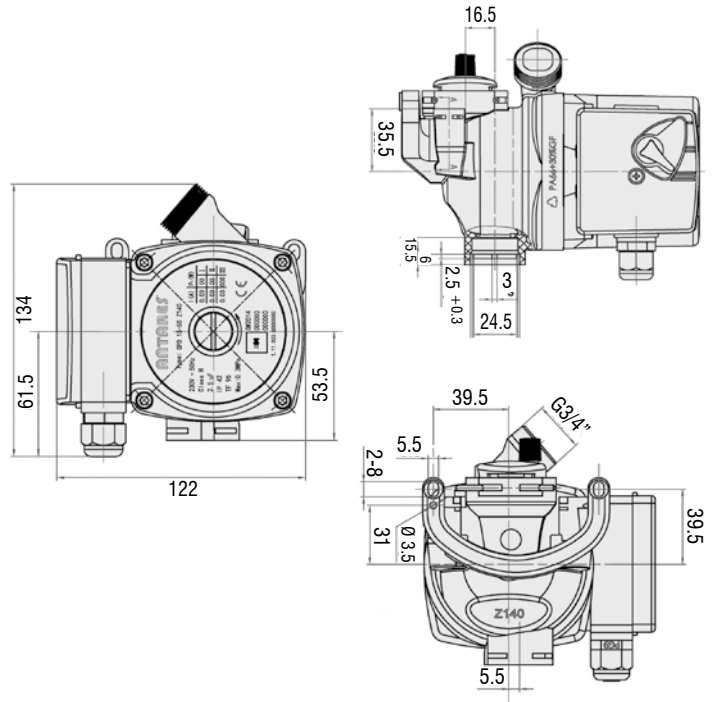
Order code	Type	Max delivery mt
P036.90	Modulating - EEI < 0,20	8 self-regulating with PWM socket
P036.00 <i>Until stocks last</i>	Not modulating - EEI > 0,20	6

Compatible: RIELLO - BERETTA - VOKERA (Family Residence) and others.

Not modulating



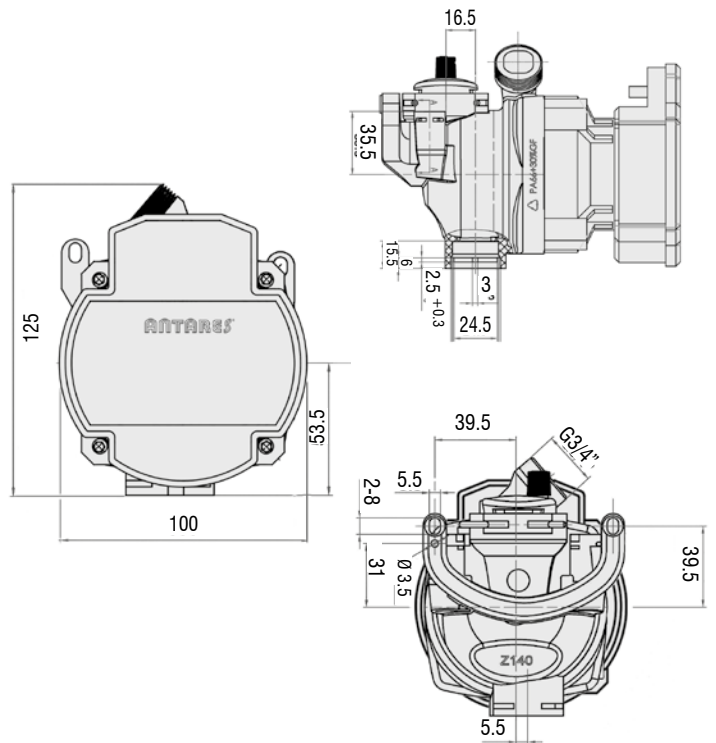
Art. P038.00



Modulating with PWM control



Art. P038.90



Plastic composite body circulator with built-in automatic deaerator.

For the performance curves see Art. P.110. 230 V 50 Hz - Complete with cables for the modulating model.

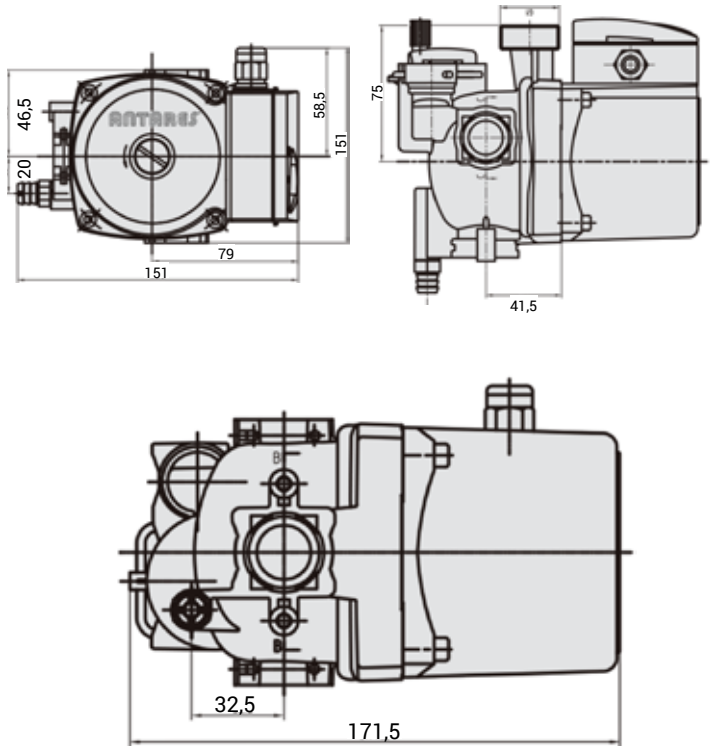
Order code	Type	Max delivery mt
P038.90	Modulating - EEI < 0,20	8 self-regulating with PWM socket
P038.00 <i>Until stocks last</i>	Not modulating - EEI > 0,20	6

Compatible: GRUNDFOS AOKR - WILO KSL - SIME and others.

Not modulating



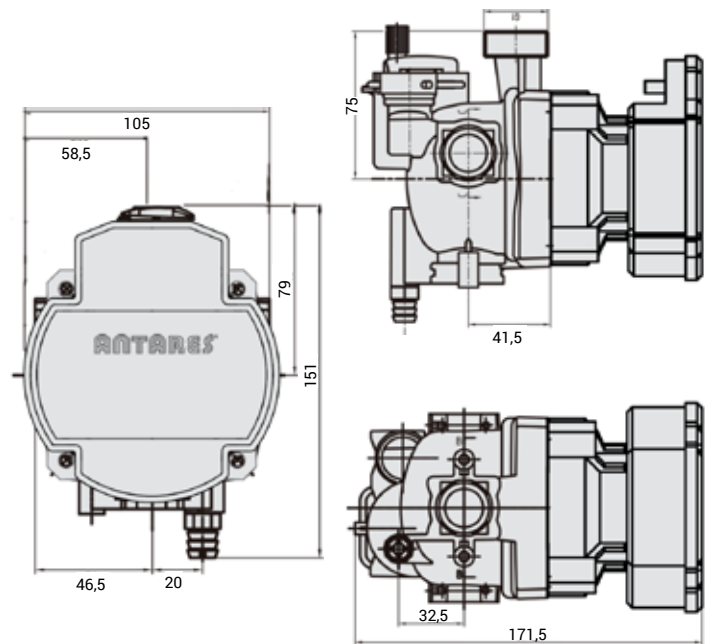
Art. P.039.00



Modulating with PWM control



Art. P.039.90



Antares circulation pump with air separator and automatic deaerator. Plastic composite body. Compatible with Wilo KSL and Grundfos.

For the performance curves see Art. P.110. 230 V 50 Hz - Complete with cables for the modulating model.

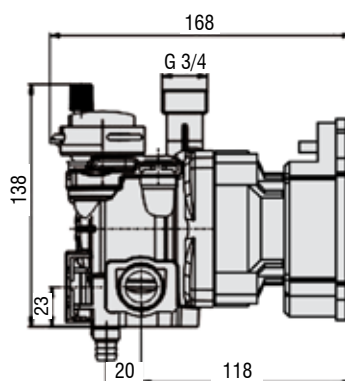
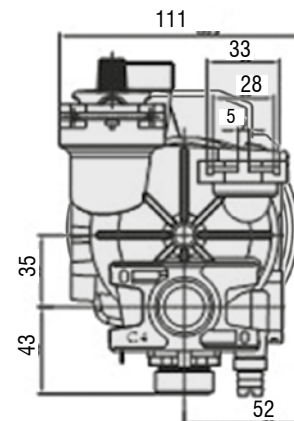
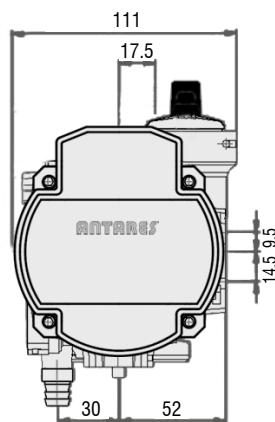
Order code	Type	Max delivery mt
P039.90	Modulating - EEI < 0,20	8 self-regulating with PWM socket
P039.00 <i>Until stocks last</i>	Not modulating - EEI > 0,20	6

Compatible: ARCA boilers and others.

Modulating with PWM control



Art. P.040.90



Plastic composite body circulator with built-in automatic deaerator.

For the performance curves see Art. P.110. 230 V 50 Hz - Complete with cables for the modulating model.

Order code	Type	Max delivery mt
P.040.90	Modulating - EEI < 0,20	8 self-regulating with PWM socket

Tools and accessories for circulators

Power cables and socket adapters



Art. P.160.01

Power cord plug adapter GRUNDFOS for socket MODULEX circulator Art. P.110.



Art. P.161.01

WILO power cable plug adapter for socket of the MODULEX circulator Art. P.110.



Art. P.163.01

PWM controller cable plug adapter GRUNDFOS for socket MODULEX circulator Art. P.110.



Art. P.164.01

PWM controller cable plug adapter WILO for socket MODULEX circulator Art. P.110.

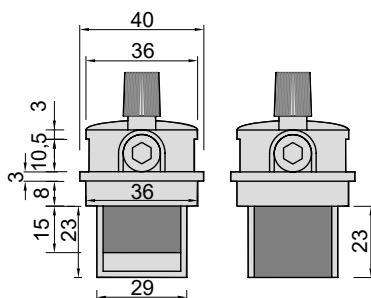
Heads for built-in deaerator



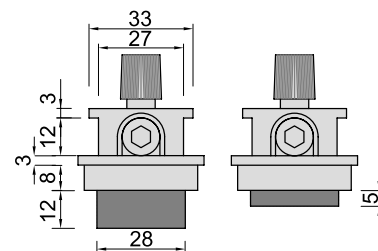
COMPATIBLE
CALEFFI
and GRUNDFOS

Art. P.088

Drawing **(A)**



Drawing **(B)**



Head for automatic vent valve, spare part for deaerators mounted on circulators.

Order code	Drawing	Type
P088.00	A	CALEFFI - GRUNDFOS - WILO
P088.01	B	SHINHO0 and others



Art. P.089.03

Brass head for relief valve automatic replacement for deaerators type CALEFFI - ANTARES and others.

COMPATIBLE
WILO
GRUNDFOS
CALEFFI

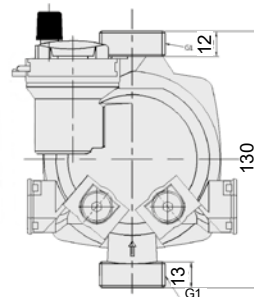


For the complete range of unions, valves and accessories for circulators, see the following pages.

Bodies for circulators



Art. P.151.68

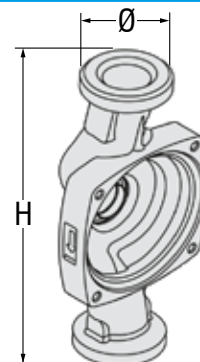


Replacement plastic composite body for circulator with automatic deaerator. Height: 130 mm - 1" M. connections.

Compatible for anticlockwise rotation with GRUNDFOS cacao-type models. Coupled to motors with impeller art. P.084.xx, P.074.xx or P.121.80 it can make up a complete circulator. Distance between fixing holes 68 mm.



Art. P.153



Spare cast iron body for circulator with anticlockwise rotation (CCW).

Compatible with GRUNDFOS, ANTARES, and other brands with 68 mm distance between the fixing holes. Coupled to motors with impeller Art. P.084. xx, P.074.xx, P.121.80 can make up a complete circulator.

Order code	Ø	H
P153.10	1"	130
P153.12	1 1/2"	130
P153.20	1 1/2"	180



Art. P155.08

Kit for coupling the circulator body (P151.xx and P153.xx) on the engine.

Consisting of 1 NBR rubber gasket and 4 bolts for fixing



Art. P070

Black polystyrene insulating shell for thermal insulation of bodies circulators.

Order code	H	Suitable for series
P070.13	130	P110 - P023 - P065
P070.24	130	P020 - P064
P070.18	180	P110
P070.20	180	P066 - P076
P070.28	180	P064

Valves and Accessories for Circulation Pumps

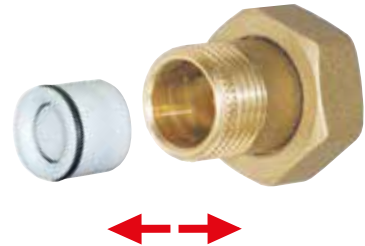


Art. P001

Pair of unions for circulators, consisting of swivel, shank and gasket.

Swivel F.	1" F.	1" F.	1 1/2" F.	1 1/2" F.	1 1/2" F.	2" F.
Spigot	1/2" F.	3/4" M.	1" M.	1" F.	1 1/4" M.	1 1/4" F.
Material	Brass	Brass	Brass	Steel	Steel	Steel
Order code	P001.52	P001.54	P001.11	P001.10	P001.14	P001.24

Art. P002



Brass union with insertion check valve in nylon that can be positioned in both directions.

To ensure a single direction of flow to prevent possible contaminations. Complete with gasket.

Nut	3/4" F.	1" F.	1 1/4" F.	1 1/2" F.	1 1/2" F.
Spigot	1/2" M.	3/4" M.	1" M.	1" M.	1 1/4" M.
Order code	P002.02	P002.03	P002.30	P002.10	P002.14



Art. P003

Plastic check valve with internal insertion, equipped with stainless steel circular seal spring with O-ring.

Diameter Ø	10 mm.	15 mm.	20 mm.	25 mm.	32 mm.
Order code	P003.10	P003.15	P003.20	P003.25	P003.32

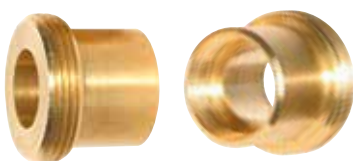
from 130 to 180 mm

Art. P004.12



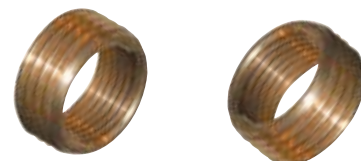
Brass extension 1 1/2 "M.F. to adapt the height of the 130 mm circulator. to 180 mm.

from H 130 to 180 mm - from Ø 1" to 1 1/2" M.



Art. P005.18

Pair of extension fittings and increase of diameter to adapt circulators from Ø 1 "to Ø 1 1/2" M., extension from 130 to 180 mm.



Art. P008

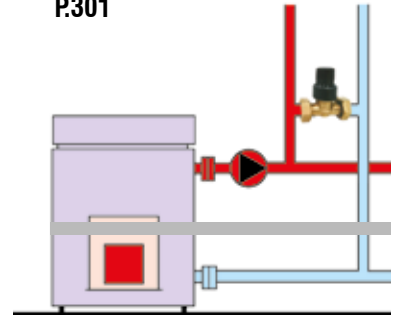
Pair of thread oversize rings for replacement of the circulators that have smaller connections, complete with gaskets.

Diameter Ø	1 1/2" M. x 1" F.	1 1/2" M. x 1 1/4" F.	2" M. x 1" F.	2" M. x 1 1/2" F.
Order code	P008.12	P008.24	P008.21	P008.20



Art. P301

Installation example
P301



Differential balancing module for the elimination of overpressure caused by the automatic closure of zones of the plant. Suitable to be applied on the prearranged connections of the ball valve outlets, in the modules of DN 25 re-launch (Art. E.321, E.623 and E.624).

Adjustment scale: 2 ÷ 6.5 mt. - The valve is calibrated by bringing the pointer in correspondence with the measured value on the graduated scale stamped on the valve.

Connections	3/4" F. swivel x 3/4" F. swivel	3/4" F. swivel x copper pipe 15
Order code	P301.03	P301.05



Art. F.812

Hex key with "T" handle. For easy replacement of circulation pump motors.

For easy replacement of circulation pump motors.

Order code	Size mm.
F812.05	4
F812.06	5



Art. E.478

Ball valve with 1 1/2 "F. union connection with handle "ISO T" extended to "T" suitable for systems with insulation thermal. In nickel-plated brass CW617 UNI EN 12165. Color of the handle can be determined by two red and blue plates in equipment.

The nylon handle is designed and prepared for housing of the thermometer E.479.00. Max pressure 20 bar.

Prepared for thermometer

Type	Without check valve		With check valve	
Connection	1" F.-1 1/2" F. swivel	1 1/4" F.-1 1/2" F. swivel	1" F.-1 1/2" F. swivel	1 1/4" F.-1 1/2" F. swivel
Order code	E.478.10	E.478.14	E.478.90	E.478.94

With thermometer, red color

Type	Without check valve		With check valve	
Connection	1" F.-1 1/2" F. swivel	1 1/4" F.-1 1/2" F. swivel	1" F.-1 1/2" F. swivel	1 1/4" F.-1 1/2" F. swivel
Order code	E.478.50	E.478.54	E.478.80	E.478.84



Art. E.431.22

Brass gate valve with union connection Ø 22 x 1 1/2 "F. swivel and connection for copper pipe for pump or others appliances. Min temperature 0 ° C, max + 90 ° C.



Art. E.432

Brass ball valve with union connection for pump.

Maneuver with butterfly lever. Fixed 1 "female for female 1 1/2 "F. swivel.

Type	Without check valve	With check valve
Order code	E.432.10	E.432.90



Art. E.430

Brass ball valve with union connection for pump with screwdriver adjustment.

Connections	1 1/2" F. swivel x 1" M.	1 1/2" F. swivel x 1" F.	1 1/2" F. swivel x copper pipe Ø 22	1 1/2" F. swivel x copper pipe Ø 28
Order code	E.430.10	E.430.00	E.430.22	E.430.28

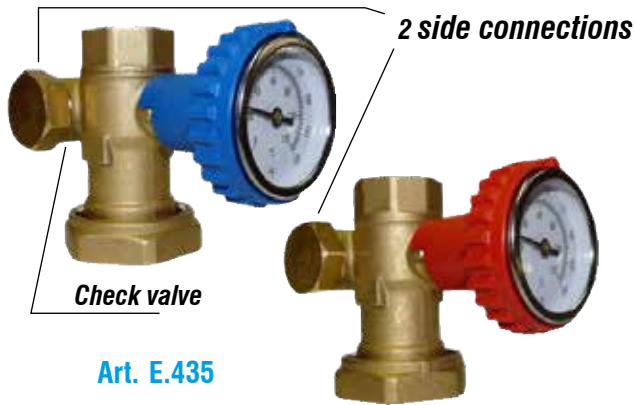


Art. E.429

Full bore ball valve with female union.

Maximum pressure 30 bar - In nickel-plated brass with lever a butterfly.

Type	Without drain cock		With drain cock	
Diameter Ø	3/4" F. x 1/2" F.	1" F. x 3/4" F.	3/4" F. x 1/2" F.	1" F. x 3/4" F.
Order code	E.429.02	E.429.03	E.429.92	E.429.93



Art. E.435

Monobloc ball valve with pump connection and two connections side with colored thermometer holder handle and thermometer. Max pressure: 10 bar - Thermometer scale: 0 ° C ÷ 120 ° C. Connections 1 "F. x 1 1/2" F. swivel.

Order code	Handle colour	Model with
E.435.10	Blue	Check valve + disconnection
E.435.12	Red	-



Art. E.437

One-piece ball valve with pump connection, with handle colored thermometer holder. Max pressure: 10 bar. Connection 1 1/4 "F. x 2" F. swivel.

Order code	Handle colour	Model with
E.437.20	Blue	Thermometer: 0°C ÷ 120°C + check valve
E.437.22	Red	Thermometer: 0°C ÷ 120°C



Art. E.438.03

Module mounted ball valve with pump connection and red pocket handle for thermometer and thermometer. Thermometer scale: 0 ° C ÷ 160 ° C. Check valve and fixing holes.

Max pressure: 10 bar - Temp. max: 140 ° C - 3/4 "F. x connections 1 "F. swivel.



Art. E.439.03

Module mounted ball valve with pump connection side connection 3/4" F with blue coloured handle pocket thermometer and thermometer. Thermometer scale: 0°C ÷ 160°C. Check valve and fixing holes.

Max pressure: 10 bar - Temp. max: 140°C - 3/4 "F connections. x 1 "F. swivel.



Art. E.606

Module consisting of 2 ball valves with screwdriver adjustment from 1 "M. x 1 1/2" F. swivel, complete with 4 gaskets and a tube 1 1/2 "M. x 1 1/2" M. to compensate for the pump distance.

Height of the compensation of the pump mm.	130	180	
Model	Without pocket	Without pocket	With n° 2 incorporated sheaths for probes of temperature: 1 with Ø int. 10 for thermal probe. 1 with Ø int. 7 for safety thermostat.
Order code	E.606.12	E.606.00	E.606.18



EUROPEAN OFFICES

AUSTRIA: Landstrasser Hauptstr. 71/2 - 1030 WIEN
BELGIUM: 207, Av. Louise/ Louisalaan 207, bte 4/bus 4 - 1050 BRUXELLES
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GERMANY: Feringastrasse 6 - 85774 UNTERFÖHRING
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