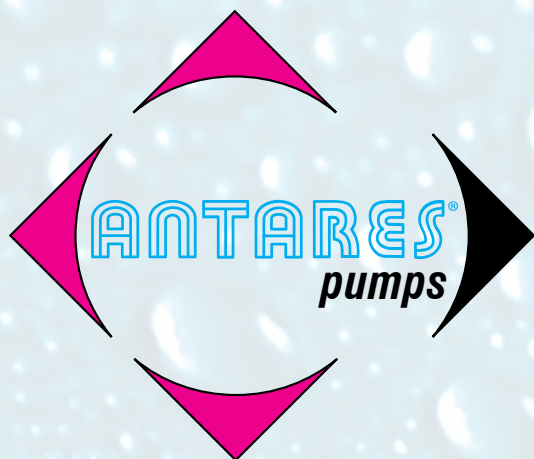




Circulating pumps

Selection and replacement guide

Updated 09/2026

**Model range with technical and performance data
Compatibility tables and drawings for replacements**



ANTARES
pumps

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ANTARES Pumps is a production division of ANTARES for Water & Fire Srl



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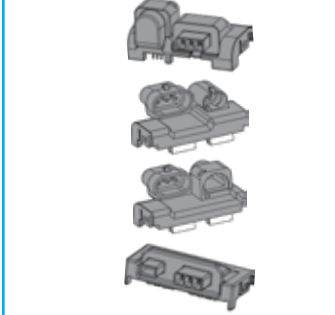
CIRCULATING AND BOOSTER PUMPS

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APPLICATIONS:

- Boilers
- Heat pumps
- HVAC systems
- Solar thermal systems
- Geothermal systems
- Biomass systems
- Heat exchange
- DHW recirculation
- Pressure boosting

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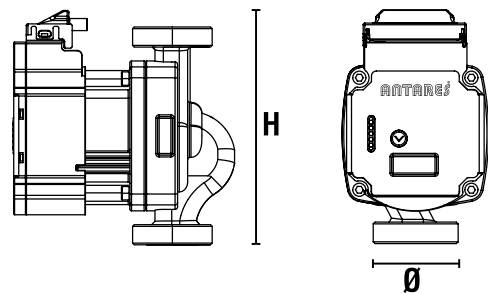
MODULEX frequency-conversion circulator with PWM

4-year warranty



- 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 Eup/Erp directives with an energy efficiency index $\leq 0,21$.
- Equipped with PWM1 and PWM2 controllers for external control.
- Structural quality: rotating parts use wear-resistant ceramic bearings.

The ANTARES MODULEX UPM- circulating pump is an intelligent frequency-conversion circulator with integrated electronic differential-pressure control, with the option to set the control mode and head (differential pressure). The differential pressure is regulated by varying the pump speed.



Models and reference codes

Art. code	Model	Head m	Max. flow rate m³/h	Thread Ø	Height
					H
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	4.1	1" M.	130
P.110.84	UPMH 20-80-130		4.1	1 1/4" M.	130
P.110.80	UPMH 25-80-130		4.1	1 1/2" M.	130
P.110.88	UPMH 25-80-180		4.1	1 1/2" M.	180
P.110.82	UPMH 32-80-180		4.1	2" M.	180
P.112.89	UPMF 15-80-130	1-8	4.1	1" M.	130
P.112.80	UPMF 25-80-130		4.1	1 1/2" M.	130
P.112.88	UPMF 25-80-180		4.1	1 1/2" M.	180
P.023.89	UPMS 15-80-130	1-8	4.1	1" M.	130
P.023.80	UPMS 25-80-130		4.1	1 1/2" M.	130
P.023.99	UPMS 15-90-130	1-9	4.6	1" M.	130
P.023.90	UPMS 25-90-130		4.6	1 1/2" M.	130
P.023.98	UPMS 25-90-180		4.6	1 1/2" M.	180

CIRCULATOR MODULEX TYPE:

- UPM HYBRID Art. P.110
- UPM FLEX Art. P.112
- UPM SOLAR Art. P.023

Universal circulator for all applications and replacements

Universal interchangeability:

This means it can easily replace faulty or low-efficiency circulators without stocking unnecessary spare parts, saving space, time and money.

High energy efficiency:

It is not only suitable for replacing faulty circulators, but also offers high energy efficiency, making it ideal for new installations and renovations. It has a compact energy-efficient motor that consumes less energy than older-generation models, helping to reduce system operating costs.

Multiple applications:

- Boilers
- Heat pumps
- Traditional heating systems
- Underfloor radiant heating systems
- Mixing and heat-exchange units
- Biomass heating

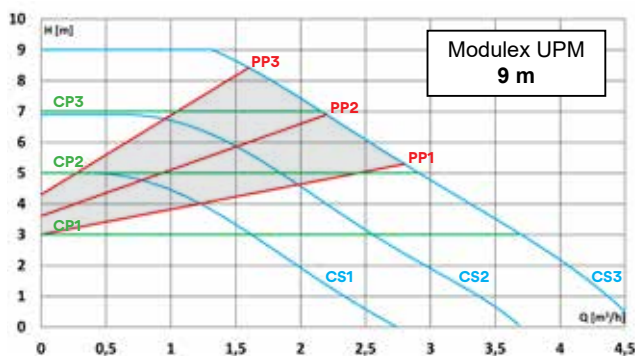
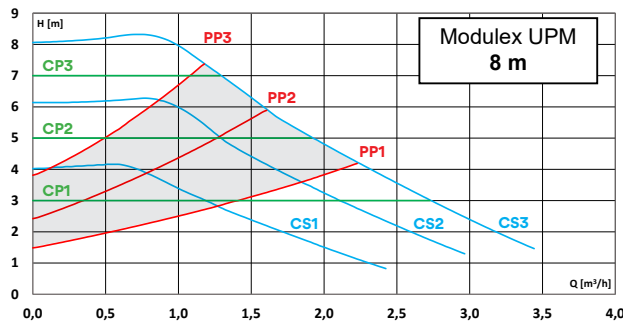
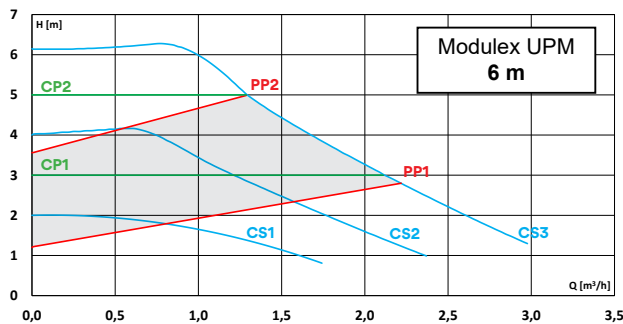
Performance curves

The control mode and head (differential pressure) can be set.

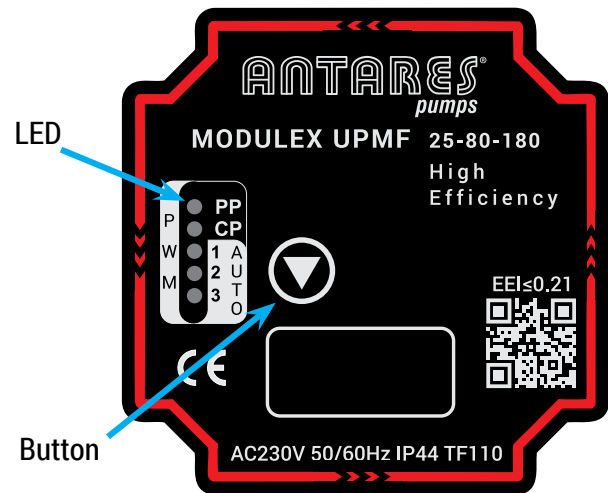
The differential pressure is regulated by varying the pump speed.

Legend of pump performance symbols:

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



Control panel



Functions of the different models

Model MODULEX Type	Internal control			External control
	Proportional Pressure	Constant Pressure	Constant Curve	PWM
HYBRID UPMH Art. P.110	I	I	I	P1
	II	II	II	
	III	III	III	
	AUTO	-	-	
FLEX UPMF Art. P.112	I	I	I	P1-P2 (Parametri- zable)
	II	II	II	
	III	III	III	
	AUTO	-	-	
SOLAR UPMS Art. P.023	I	I	I	P1-P2 (Parametri- zable)
	II	II	II	
	III	III	III	
	AUTO	-	-	

Operating conditions

- Liquid temperature: 2°C ~ 110°C
- Ambient temperature: 0°C ~ 40°C
- Max. system pressure: 10 bar
- Protection rating: IP44
- Rated voltage/frequency: 220 V ~ 240 V / 50 Hz
- Insulation class: E
- Pumped liquid characteristics: clean, free of solids and mineral oils, non-toxic, chemically neutral, max. antifreeze glycol: 50%
- Installation: the motor shaft must be kept horizontal.

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



www.antesint.com

Mod. FLEX CAST-IRON BODY

4-year warranty

8 m



Art. P.112

4,1 m³/h

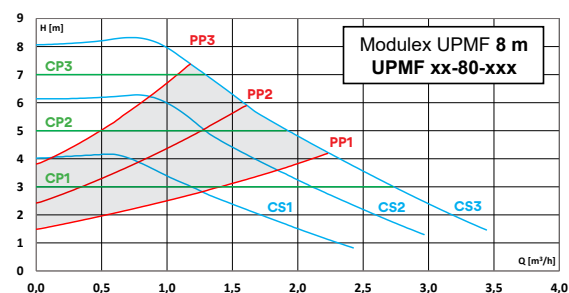
PWM

PP
CP
CS
SA



EEI ≤ 0,21

Performance curves



Performance characteristics and overall dimensions as HYBRID type circulators Art. P.110.xx, but with Wilo INT electrical connections

One circulator for all applications and replacements:
Heating, cooling, heat pumps, solar thermal systems
- Can be equipped with all specific quick electrical connections for replacements.

Compatible and interchangeable with WILO:
with the application of the connection plate



WILO PARA 6-43
WILO PARA 7-50
WILO YONOS PARA 15-60
WILO YONOS PARA 15-70
WILO PARA 6-43 PWM
WILO PARA 7-50 PWM
WILO YONOS PARA 15-60 PWM
WILO YONOS PARA 15-70 PWM

WILO compatible and interchangeable:
without the application of a connection plate



WILO PARA INT 6-43
WILO PARA INT 7-50
WILO PARA INT 6-43 PWM
WILO PARA INT 7-50 PWM
WILO YONOS PARA INT 15-7
WILO YONOS PARA INT 15-6
WILO YONOS PARA INT 15-7 PWM
WILO YONOS PARA INT 15-6 PWM



The acronyms KSL - MALL - NFS - TLS on the circulators identify the various plastic bodies - Please see our range on **page 21**.

For these replacements, replacing only the motor is recommended; see Art.P.122.80 on **page 8**.

Also with older non-high-efficiency models

Grundfos compatible and interchangeable:
with the application of a connection plate



GRUNDFOS UPM3 15-60
GRUNDFOS UPM3 15-70
GRUNDFOS UPM3 15-75
GRUNDFOS UPM3S 15-60
GRUNDFOS UPM4 15-60
GRUNDFOS UPM4 15-70
GRUNDFOS UPM3 AUTO 15-60
GRUNDFOS UPM3 AUTO 15-70
GRUNDFOS UPM3 AUTO 15-75
GRUNDFOS UPM3 FLEX 15-60
GRUNDFOS UPM3 FLEX 15-70

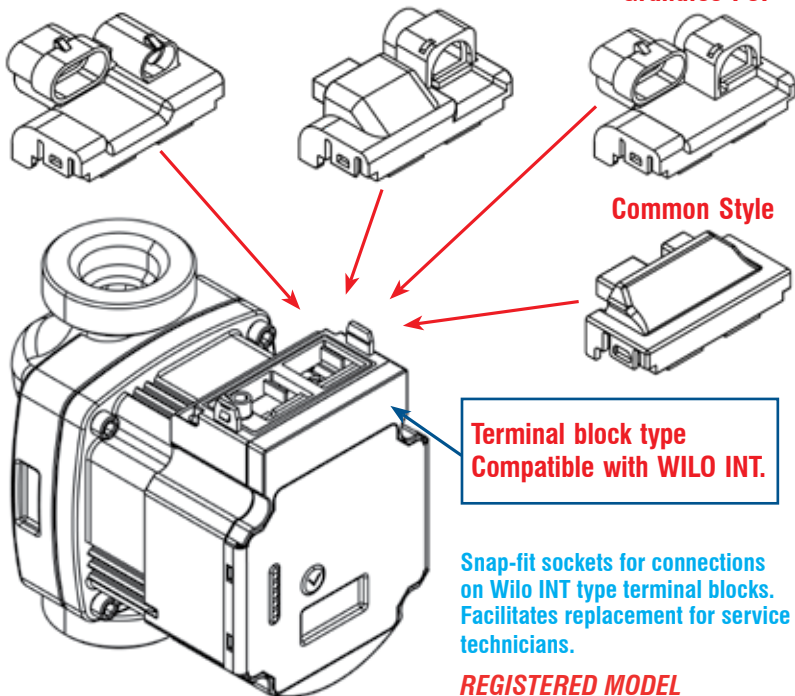
The acronyms CACAO - CAOD - CESA02, etc. on the circulators identify the various plastic bodies - Please see our range on **page 21**. For these replacements, replacing only the motor is recommended; see Art.P.121.80 on **page 9**.

Also with older non-high-efficiency models

Grundfos Standard

Wilo Standard

Grundfos FCI



Terminal block type
Compatible with WILO INT.

Snap-fit sockets for connections on Wilo INT type terminal blocks. Facilitates replacement for service technicians.

REGISTERED MODEL
WITH UTILITY PATENT

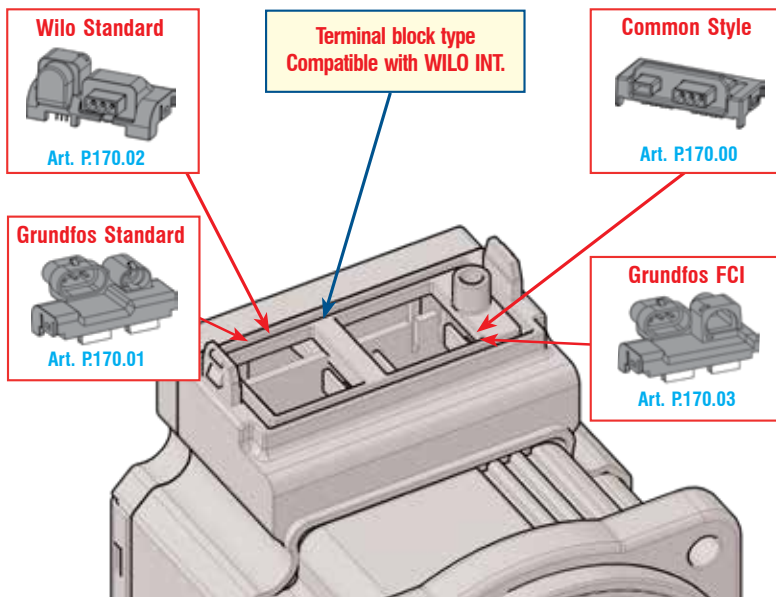
Art. P.112 - ANTARES type Modex Flex circulating pump with frequency modulation inverter and terminal block Wilo INT compatible, high-efficiency, with wet rotor. With PWM control socket, equipped with AUTO Adapt function, self-regulating with or without cable connection to PWM regulator - Temperature: 2-110 °C.

Max. flow rate: m³/h 4,1 - Head: 8 m - Satisfies all circulator requirements in a single product - Power supply 230 V AC - 4-year warranty.

Art. code	Type "Flex"	Height H	Connections Ø	W
P.112.89	UPMF 15-80-130	130	1" M.	65
P.112.80	UPMF 25-80-130	130	1 1/2" M.	65
P.112.88	UPMF 25-80-180	180	1 1/2" M.	65

Electrical connection sockets applicable to FLEX model

Equipment of electrical connections



Art. P.170 - Snap-fit socket with electrical connections for FLEX circulator Art.P.112 and replacement motors Art.P.121 and P.122.

The socket clips onto the upper part of the terminal block of circulator Art.P.112 or replacement motors P.121.84 and P.122.84 and allows the circulator to be equipped with the electrical connection types specified below to facilitate replacements. Protection IP44

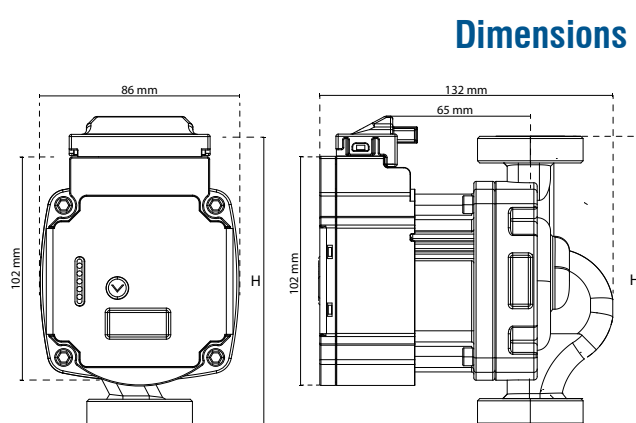
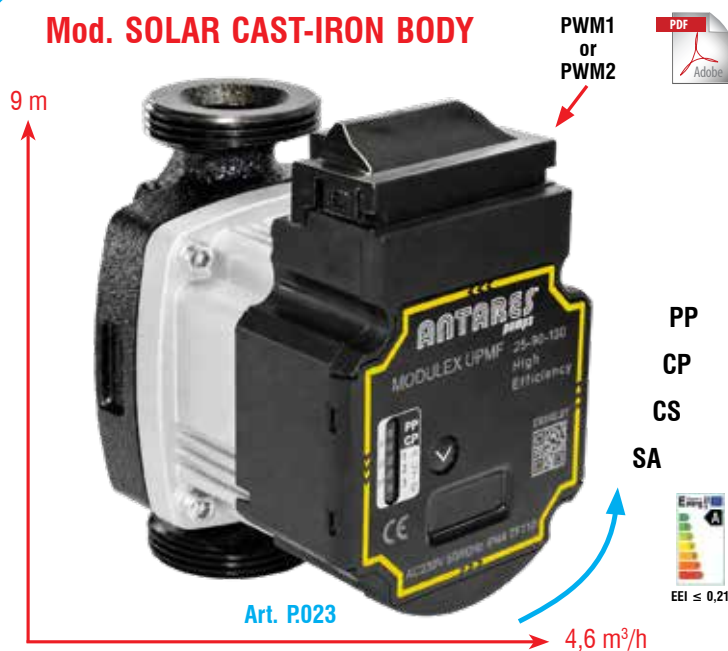
Art. code	Type	
P.170.02	Wilo Standard Molex + FCI crescent	
P.170.01	Grundfos Standard Super Seal + Mini Super Seal	
P.170.03	Grundfos FCI Super Seal + FCI crescent	
P.170.00	Common Style Molex - FCI rectangular	

For specific connection cables see page 31

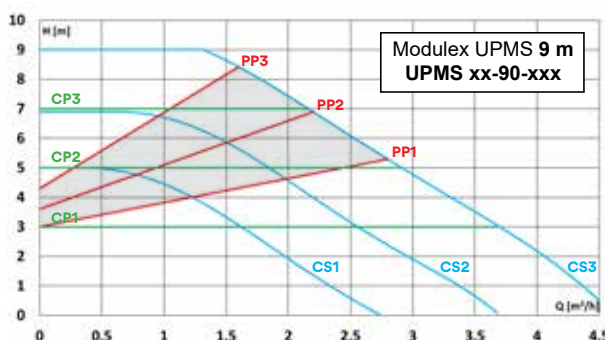
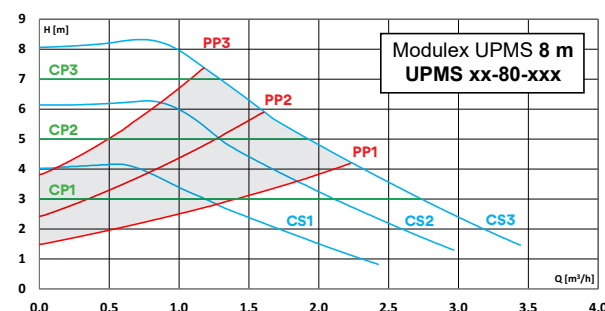
Circulators for solar thermal systems

Model SOLAR UPMS

Mod. SOLAR CAST-IRON BODY



Performance curves



Art. P.023 - ANTARES type MODULEX SOLAR high-efficiency circulating pump with frequency modulation inverter and with parametrizable PWM2 or PWM1 control socket, equipped with SELF ADAPT self-regulating function, with or without PWM cable connection. Specifically made for solar powered systems.

Max. flow rate: m^3/h 4,6. Self-regulating. Satisfies all circulator requirements in a single product. Complete with gaskets, power cable and PWM socket cable. Power supply 230 V AC. - 4-year warranty

Art. code	Type "Solar"	Max. head	Height H	Connections Ø	W
P023.89	UPMS 15-80-130	8 m.	130	1" M.	65
P023.80	UPMS 25-80-130	8 m	130	1 1/2" M.	65
P023.99	UPMS 15-90-130	9 m	130	1" M.	90
P023.90	UPMS 25-90-130	9 m	130	1 1/2" M.	90
P023.98	UPMS 25-90-180	9 m	180	1 1/2" M.	90

Replacement motors with frequency-modulated impeller and PWM for domestic circulators

FLEX frequency conversion type with PWM control and socket – Energy Efficiency Index EEI <0.21



CLOCKWISE ROTATION FOR WILO and other brands



4-year warranty

Art. P.122

Art. P.122 - Universal spare motor with high-efficiency frequency conversion rotor and inverter for replacements on domestic circulators WILO and other brands with clockwise rotation (CW). With PWM control socket and equipped with SELF ADAPT, PP, CP, CS functions. Self-regulating with or without cable connection to PWM controller. 4-year warranty.

Self-regulating, satisfies all replacement requirements with a single product. Distance between mounting holes 69 mm - complete with gaskets. Max. flow rate: 4,1 m³/h - Max. head 8 m - 4-year warranty.*

The motor can use the power supply cables already installed in the boilers and is therefore supplied without cables. For extra cables see **page 32.*

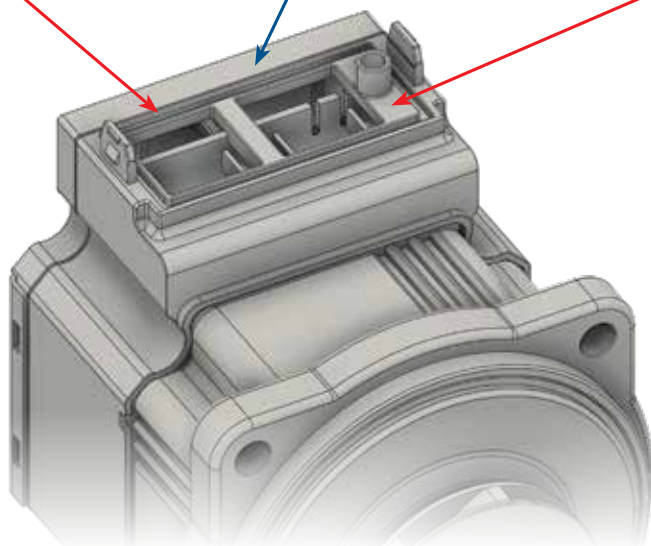
Equipment of electrical connections

Art. code	Connection type
P122.84	Base terminal block type WILO INT
P122.82	Wilo standard: Molex - FCI crescent
P122.80	Common Style: Molex - FCI rectangular

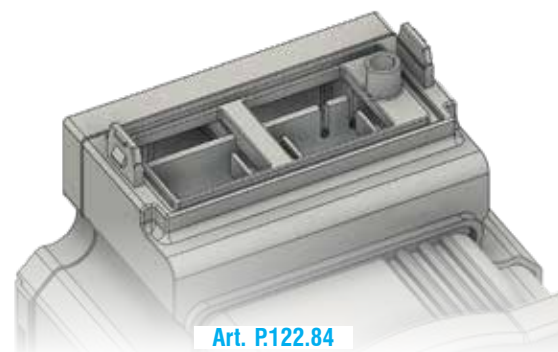
The models referenced above are already equipped with the specified connections

MODEL REGISTERED WITH UTILITY PATENT®

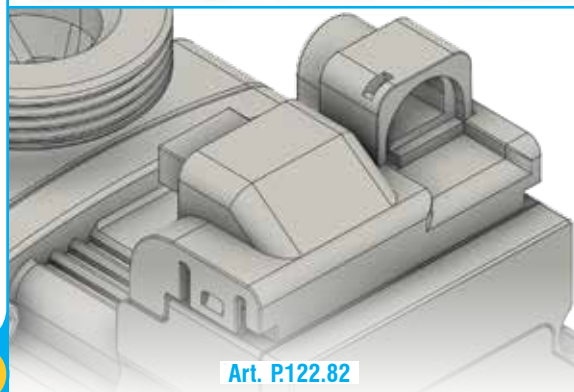
Equipment of electrical connections



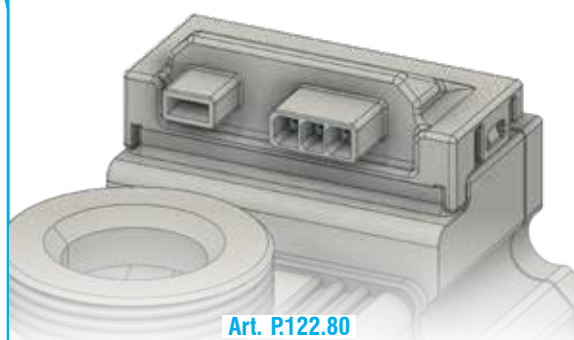
Compatible and interchangeable



Art. P.122.84



Art. P.122.82



Art. P.122.80

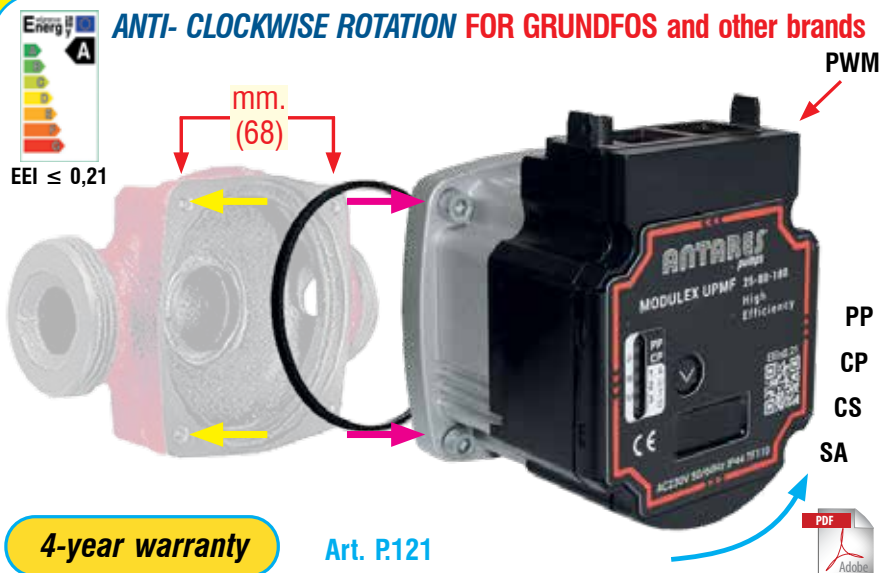
Art. P.170 - Snap-fit socket with electrical connections for FLEX circulator Art.P.112 and replacement motors Art.P.121 and P.122.

The socket clips onto the upper part of the terminal block of circulator P.112 or replacement motor P.122.84 and allows the circulator to be equipped with the electrical connection types specified below to facilitate replacements. Protection IP44

Art. code	Type	
P.170.02	Wilo Standard Molex + FCI crescent	
P.170.00	Common Style Molex - FCI rectangular	

For specific connection cables see page 32.

FLEX frequency conversion type with PWM control and socket – Energy Efficiency Index EEI <0.21



Compatible and interchangeable



4-year warranty

Art. P.121

Art. P.121 - Universal high-efficiency replacement motor with impeller and frequency-conversion inverter for replacements on domestic circulators GRUNDFOS 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 cable connection to the PWM controller. - 4-year warranty.

Self-regulating, satisfies all replacement requirements with a single product. Distance between mounting holes 68 mm - complete with gaskets*. Max. flow rate: 4,1 m³/h - Max. head 8 m - 4-year warranty.

*The motor can use the power supply cables already installed in the boilers and is therefore supplied without cables. For extra cables see page 32.

Equipment of electrical connections

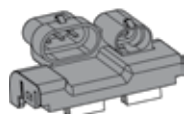
Art. code	Connection type
P121.84	Base terminal block type INT
P121.81	Grundfos standard: SuperSeal - Mini SuperSeal
P121.83	Grundfos FCI: SuperSeal - FCI crescent

The models referenced above are already equipped with the specified connections

MODEL REGISTERED WITH UTILITY PATENT®

Equipment of electrical connections

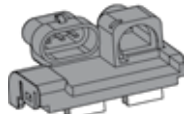
Grundfos Standard



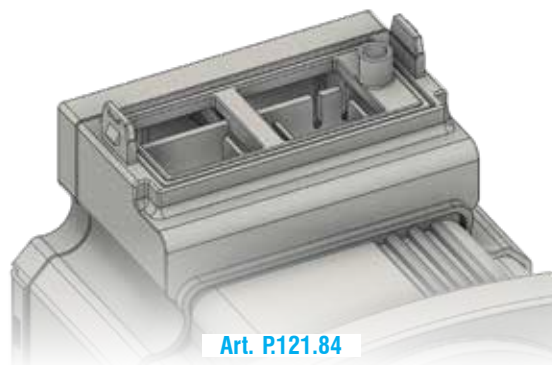
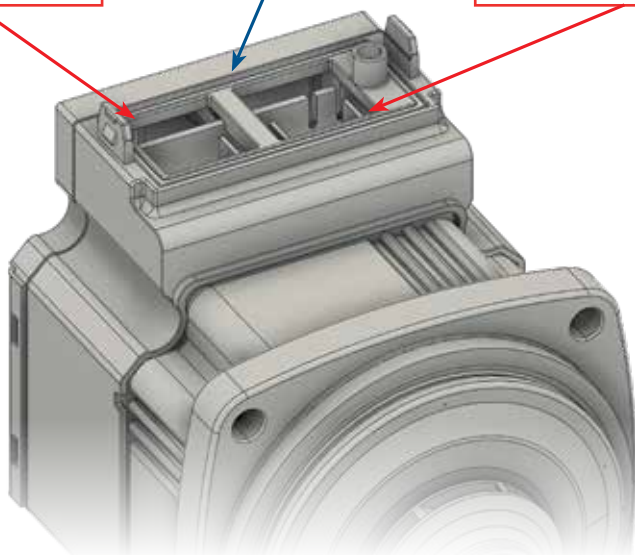
Art. P.121.81

Terminal block type
Compatible with WILO INT.
Art. P.121.84

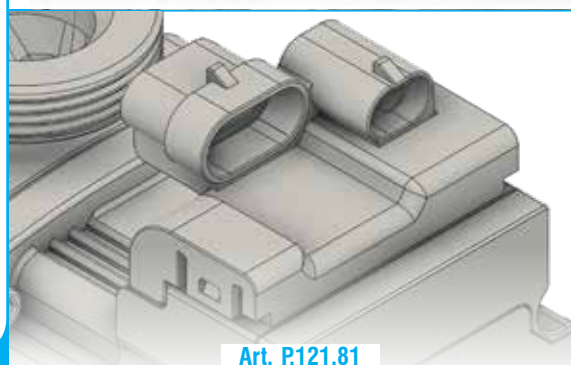
Grundfos FCI



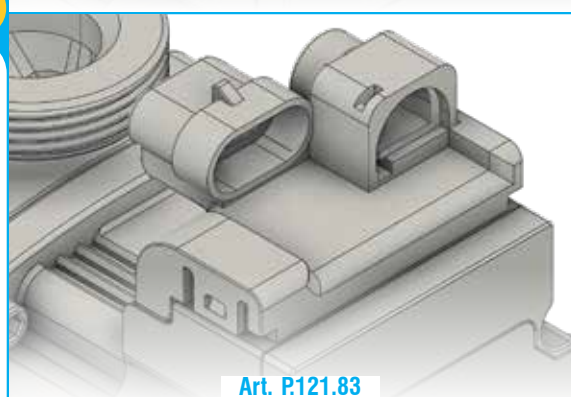
Art. P.121.83



Art. P.121.84



Art. P.121.81



Art. P.121.83

Art. P.170 - Snap-fit socket with electrical connections for FLEX circulator Art.P112 and replacement motors Art.121 and P122.

The socket clips onto the upper part of the terminal block of circulator Art.P112 or replacement motors P121 and P122 and allows the circulator to be equipped with the electrical connection types specified below to facilitate replacements. Protection IP44

Art. code	Type	
P170.01	Grundfos Standard Super Seal + Mini Super Seal	
P170.03	Grundfos FCI Super Seal - FCI crescent	

For specific connection cables see page 32.

High-efficiency circulators without PWM

“AlfaMax” small flow rate Series 5-6 m with side-mounted electronic unit



2-year warranty

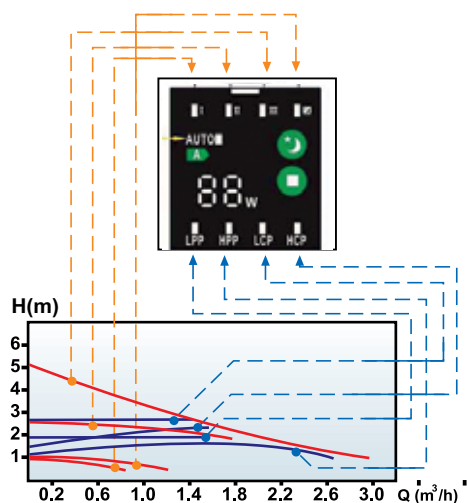


CIRCULATING PUMP
energy class A
EEL coefficient < 0,20

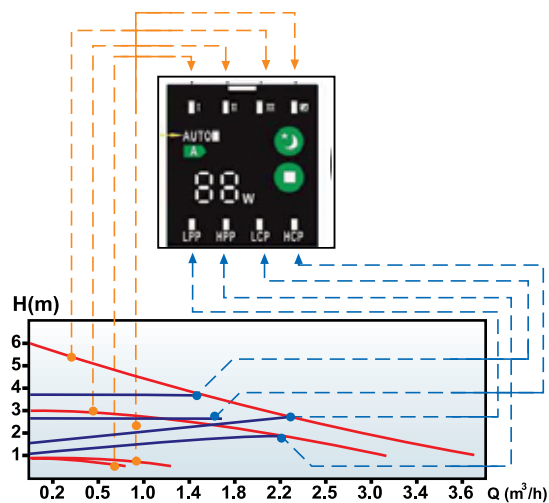
Art. P.065



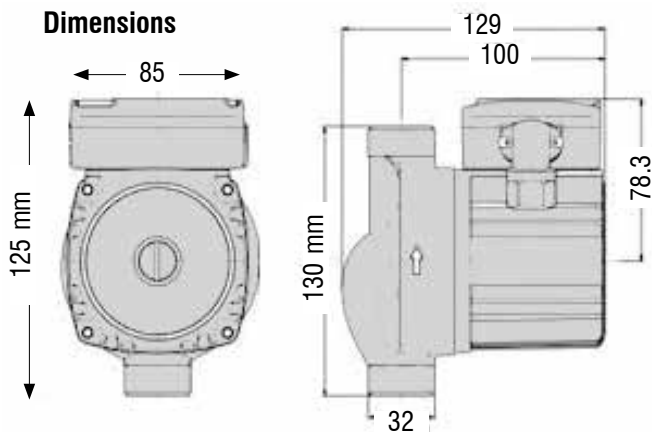
AS --/ 50



AS --/ 60



Dimensions



Art. P.065 - “AlfaMax” high-efficiency wet-rotor circulating pump, certified energy class A with EEL energy efficiency coefficient below 0,20. With side-mounted electronic unit.

Wet rotor – 2-year warranty. Already compliant with the European ErP Directive 2009/125/CE.

For the insulating shell see Art. P.070 page 31.

Art. code	Type “AlfaMax”	Max. head m	Max. flow rate lt./min.	Height H	Connections Ø	W
P.065.59	AS 15/50	5	50,5	130	1” M.	32
P.065.50	AS 25/50			130	1 1/2” M.	32
P.065.69	AS 15/60	6	60	130	1” M.	45
P.065.60	AS 25/60			130	1 1/2” M.	45

“AlfaMax” small flow rate Series 6-8 m with front-mounted electronic unit



8 m

4,9 m³/h

2-year warranty

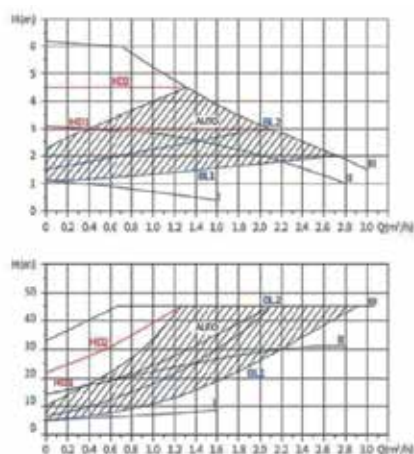


CIRCULATING PUMP
energy class A
EEI coefficient <0.20

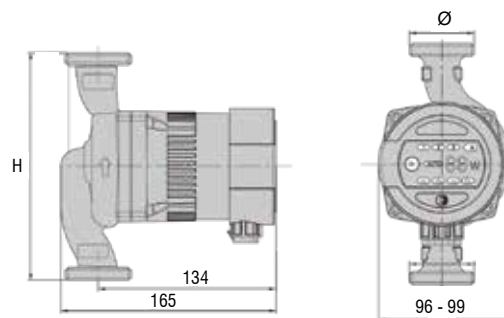
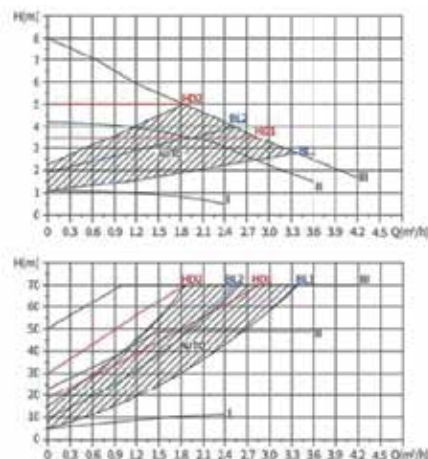


Art. P.064

RS --/ 60



RS --/ 80



Model with power consumption display in W. If this function is not required, see equivalent model Art. P.110 - on page 4

Art. P.064 - “AlfaMax” high-efficiency wet-rotor circulating pump with EEI energy efficiency coefficient below 0,20. With power consumption display.

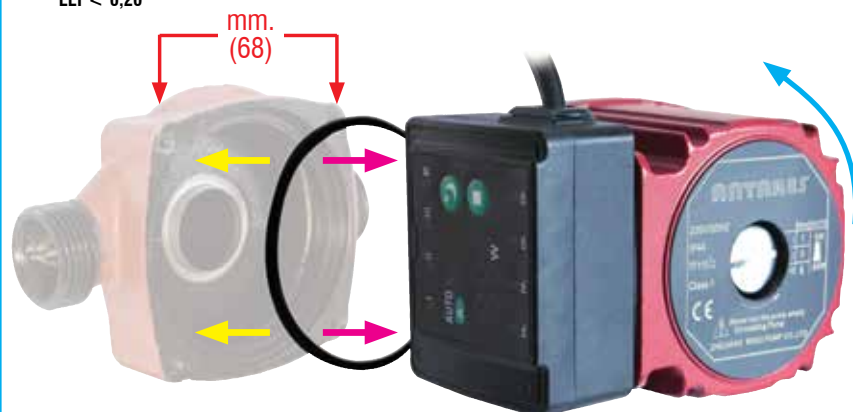
Wet rotor – 2-year warranty. Complies with the European ErP Directive 2009/125/CE. For the insulating shell see Art. P.070 page 31.

Art. code	Type “AlfaMax”	Max. head m	Max. flow rate lt./min.	Height H	Connections Ø	W
P064.69	RS 15/60	6	46	130	1" M.	45
P064.60	RS 25/60		53	130	1 1/2" M.	45
P064.89	RS 15/80	8	70	130	1" M.	70
P064.84	RS 25/80		70	130	1 1/2" M.	70
P064.80	RS 25/80		70	180	1 1/2" M.	70
P064.82	RS 32/80		83	180	2" M.	70

ANTI-CLOCKWISE ROTATION FOR GRUNDFOS and other brands Distance between mounting holes 68 mm.



Coefficient
EEI < 0,20



Art. P074.60

Art. P074.60 - Universal high-efficiency replacement motor with impeller, for replacement on domestic circulators "GRUNDFOS", "ANTARES", and other brands. With side-mounted electronic unit and power consumption display. Complete with screws. Anti-clockwise rotation.

Mounting-hole centre distance 68 mm. Complete with selectable speed control allowing heads of 4, 5 and 6 m - 230 V AC. Max. head 6 m - flow rate 3.8 m³/h

REPLACING THE MOTOR OFFERS MANY BENEFITS:

- Faster and easier servicing because only the motor is replaced.
- Lower stock levels and less capital tied up.

UNIVERSAL MOTORS WITH IMPELLER:

2 MODELS (ANTI-CLOCKWISE and CLOCKWISE) providing interchangeability with almost all domestic circulators on the market. The built-in electronic inverter automatically regulates the head according to system requirements.

Compatible and interchangeable with Grundfos for configurations without PWM



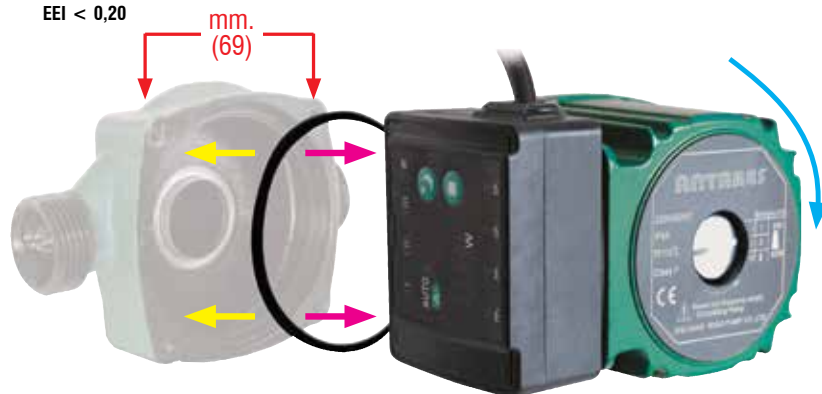
N.B.

For functions and technical characteristics, use the same specifications as Art. P065; see previous pages.

CLOCKWISE ROTATION FOR WILO and other brands Distance between mounting holes 69 mm.



Coefficient
EEI < 0,20



Art. P075.60

Art. P075.60 - Universal high-efficiency replacement motor with impeller, for replacement on domestic circulators "WILO", "ANTARES", and other brands. With side-mounted electronic unit and power consumption display. Complete with screws. Clockwise rotation.

Mounting-hole centre distance 69 mm. Complete with selectable speed control allowing heads of 4, 5 and 6 m - 230 V AC. Max. head 6 m - flow rate 3.8 m³/h

REPLACING THE MOTOR OFFERS MANY BENEFITS:

- Faster and easier servicing because only the motor is replaced.
- Lower stock levels and less capital tied up.

UNIVERSAL MOTORS WITH IMPELLER:

2 MODELS (ANTI-CLOCKWISE and CLOCKWISE) providing interchangeability with almost all domestic circulators on the market. The built-in electronic inverter automatically regulates the head according to system requirements.

Compatible and interchangeable with Wilo for configurations without PWM



N.B.

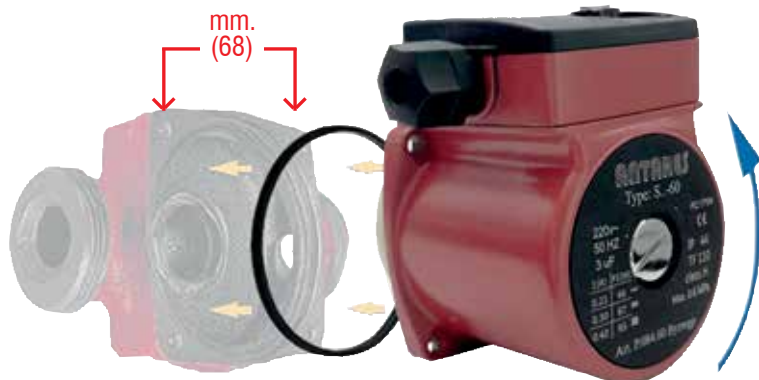
For functions and technical characteristics, use the same specifications as Art. P065; see previous pages.

Universal replacement motors with impeller for low-efficiency domestic circulators

N.B.

These products are to be considered spare parts (components) of a circulator and may therefore be installed because they do not fall within the EuP 2016 regulation, which applies to complete circulators and not to spare parts for older circulators.

ANTI- CLOCKWISE ROTATION FOR GRUNDFOS and other brands Distance between mounting holes 68 mm.



Art. P.084.60

Art. P.084.60 - Universal spare motor with rotor for replacement on domestic water circulating pumps, "GRUNDFOS," "MYSON," "ANTARES" and other brands. Comes with screws. Anticlockwise rotation.

Mounting-hole centre distance mm. 68. Complete with selectable speed control allowing the head to be adjusted to system requirements - maximum head 6 m - Flow rate: 3,3 m³/h.

REPLACING THE MOTOR OFFERS MANY BENEFITS:

- Faster and easier servicing because only the motor is replaced.
- Lower stock levels and less capital tied up.

UNIVERSAL MOTORS WITH IMPELLER:

2 MODELS (ANTI-CLOCKWISE and CLOCKWISE) providing interchangeability with almost all domestic circulators on the market.

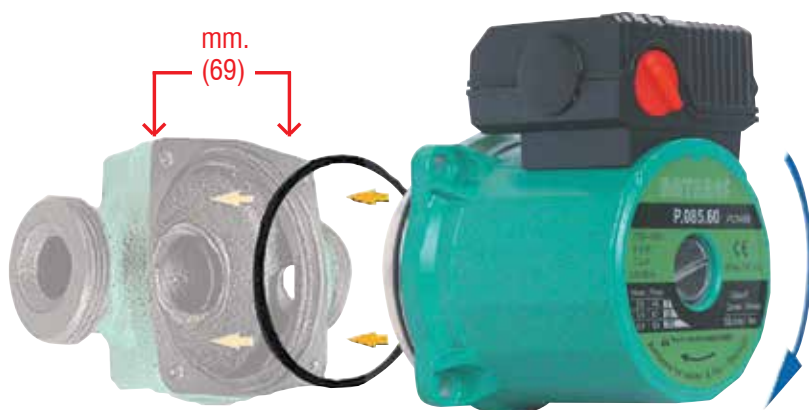
Compatible and interchangeable with Grundfos



N.B.

The installation manual can be downloaded from our website
www.antaresint.com

CLOCKWISE ROTATION FOR WILO and other brands Distance between mounting holes 69 mm.



Art. P.085.60

Art. P.085.60 - Universal spare motor with rotor for replacement on domestic water circulating pumps "WILO," "WSC" and other brands. Comes with screws. Clockwise rotation.

Mounting-hole centre distance mm. 69. Complete with selectable speed control allowing the head to be adjusted to system requirements - maximum head 6 m - Flow rate: 3,3 m³/h.

REPLACING THE MOTOR OFFERS MANY BENEFITS:

- Faster and easier servicing because only the motor is replaced.
- Lower stock levels and less capital tied up.

UNIVERSAL MOTORS WITH IMPELLER:

2 MODELS (ANTI-CLOCKWISE and CLOCKWISE) providing interchangeability with almost all domestic circulators on the market.

Compatible and interchangeable with Wilo

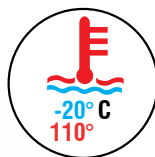


Medium flow rate, high-efficiency PWM circulators

AlfaMaior series 8-10 m with front-mounted electronic unit

Circulating PUMP EU
Energy Label A Energy
Efficiency Index EEI <
0.23

3-YEAR WARRANTY



APPLICATIONS:

- Boilers
- Heat pumps
- HVAC systems
- Solar thermal systems
- Geothermal systems
- Biomass systems
- Heat exchange
- Complies with European ERP directives with efficiency index <0,23
- Frequency modulation with PWM1 or PWM2 controller configurable for external control.

RELEVANT TECHNICAL DATA:

- Pumped fluid temperature: -20° / + 110°C
- Electric stator filled with epoxy resin to prevent condensation and improve motor cooling

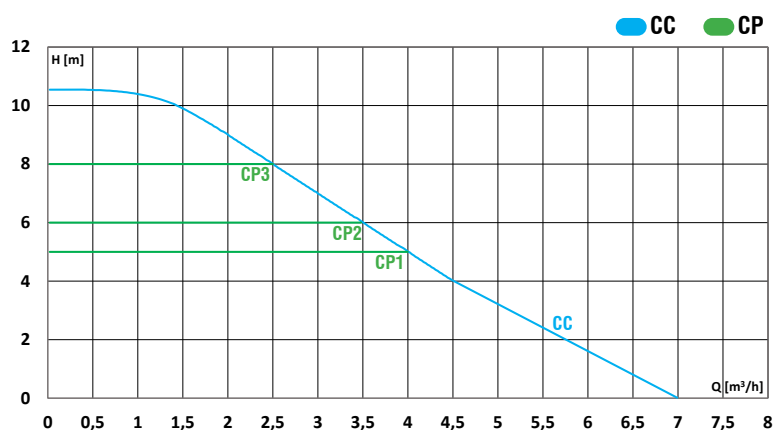
GENERAL DATA:

- Voltage 230 V AC
- Max. pressure: 10 bar
- Protection: IP 44
- With configurable PWM1 or PWM2 controller for external control.

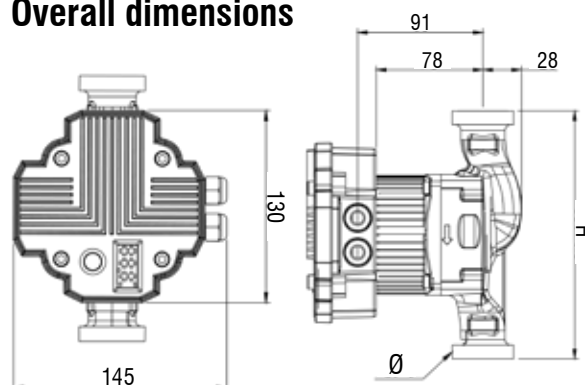


Especially suitable for heat pumps:

- Electrical box with extended heat sink
- Heat-transfer fluid temperature: -20°-110° C.



Overall dimensions



Art. P066 - "AlfaMaior" high-efficiency wet-rotor circulating pump certified with PWM and with EEI energy efficiency coefficient below 0,23. With front-mounted electronic unit. Complete with insulating shell.

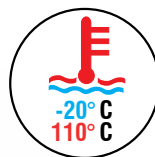
Complies with European Directive 2009/125/CE. Flow rates and head as shown in the table. 3-year warranty. Self-regulating with or without connection of the PWM cable.

Art. code	Type	Max. head m	Connections Ø	Max. flow rate m³/h.	Height H mm.	Power
P066.42	APMN 25/105	10	1 1/2"	7	130	140 W
P066.52	APMN 25/105	10	1 1/2"	7	180	
P066.70	APMN 32/105	10	2"	7		

AlfaMaior series 12 m with front-mounted electronic unit

Circulating PUMP EU
Energy Label A Energy
Efficiency Index EEI <
0.23

3-YEAR WARRANTY



APPLICATIONS:

- Boilers
- Heat pumps
- HVAC systems
- Solar thermal systems
- Geothermal systems
- Biomass systems
- Heat exchange
- Complies with European ERP directives with efficiency index <0,23
- Frequency modulation with PWM1 or PWM2 controller configurable for external control.

RELEVANT TECHNICAL DATA:

- Pumped fluid temperature: -20° / + 110°C
- Electric stator filled with epoxy resin to prevent condensation and improve motor cooling

GENERAL DATA:

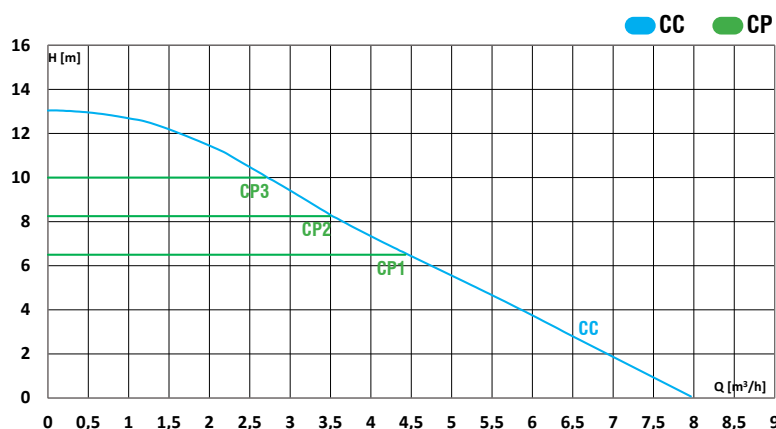
- Voltage 230 V AC
- Max. pressure: 10 bar
- Protection: IP 44
- With configurable PWM1 or PWM2 controller for external control.



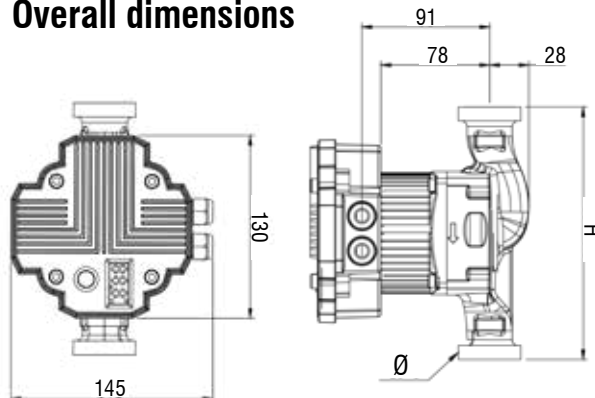
Art. P.076

Especially suitable for heat pumps:

- Electrical box with extended heat sink
- Heat-transfer fluid temperature: -20°-110° C.



Overall dimensions



Art. P.076 - "AlfaMaior" high-efficiency wet-rotor circulating pump certified with PWM and with EEI energy efficiency coefficient below 0,23. With front-mounted electronic unit. Complete with insulating shell.

Complies with European Directive 2009/125/CE. Flow rates and head as shown in the table. 3-year warranty. Self-regulating with or without connection of the PWM cable.

Art. code	Type	Max. head m	Connections Ø	Max. flow rate m³/h.	Height H mm.
P.076.02	APMN 25/12	12	1 1/2"	8	130
P.076.12	APMN 25/12	12	1 1/2"	8	180
P.076.20	APMN 32/12	12	2"	8	

Medium-high-flow high-efficiency circulators with PWM

AlfaPlus series 12-18 m with front-mounted electronic unit

Circulating PUMP EU
Energy Label A Energy
Efficiency Index EEI <
0.23

3-YEAR WARRANTY



APPLICATIONS:

- Boilers
- Heat pumps
- HVAC systems
- Solar thermal systems
- Geothermal systems
- Biomass systems
- Heat exchange
- Complies with European ERP directives with efficiency index <0,23
- Frequency modulation with configurable PWM1 or PWM2 controller for external control.

RELEVANT TECHNICAL DATA:

- Pumped fluid temperature: -20° / + 110°C
- Electric stator filled with epoxy resin to prevent condensation and improve motor cooling

GENERAL DATA:

Voltage 230 V AC

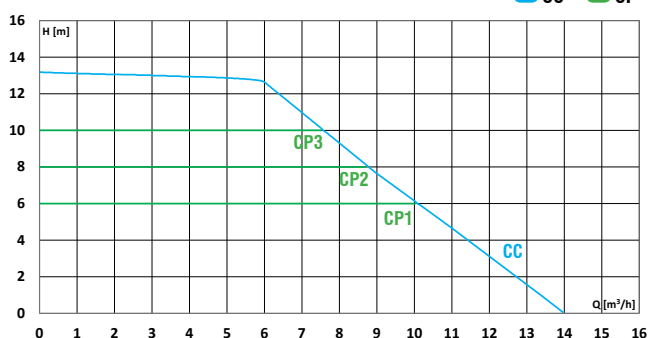
- Max. pressure: 10 bar
- Protection: IP 44
- With configurable PWM1 or PWM2 controller for external control.



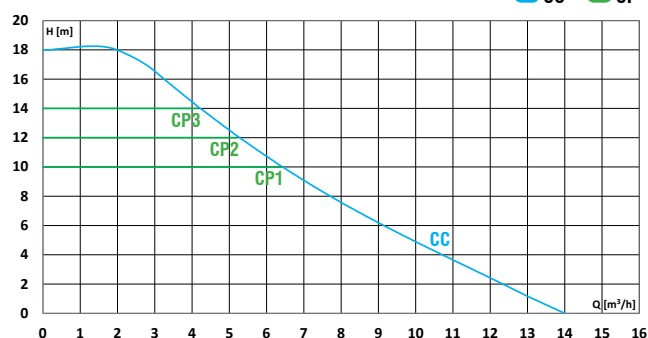
Especially suitable for heat pumps:

- Electrical box with extended heat sink
- Heat-transfer fluid temperature: -20°-110° C.

Performance curves Art. P078.2-



Performance curves Art. P078.8-

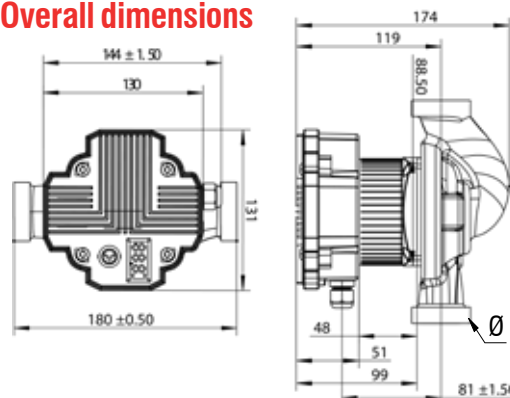


Art. P078 - "AlfaPlus" high-efficiency wet-rotor circulating pump certified with PWM, suitable for heat pumps, with front-mounted electronic unit. Height 180 mm. Power 360 W. Self-regulating with or without connection of the PWM cable.

Complies with European Directive 2009/125/CE. Flow rates and head as shown in the table. 3-year warranty. Height 180 mm. Power 360 W. Self-regulating with or without connection of the PWM cable.

Art. code	Type	Max. head m	Connections Ø	Max. flow rate m³/h.
P078.20	APMN 25/120	12	1 1/2"	14
P078.22	APMN 32/120	12	2"	14
P078.80	APMN 25/180	18	1 1/2"	14
P078.82	APMN 32/180	18	2"	14

Overall dimensions



High flow rate, high-efficiency flanged circulating pumps

DN 40



Coefficient EEI < 0,21



2-YEAR WARRANTY



Art. P079.18

18 m

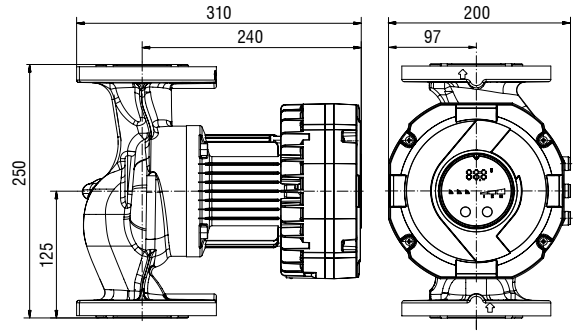
→ 30 m³/h

Art. P079.18 - ANTARES type "AlfaMega" 40 flanged DN 40 high-efficiency wet-rotor circulating pump. Single-phase 230 V AC with frequency modulation. Cast-iron body.

With proportional pressure control and constant pressure control.

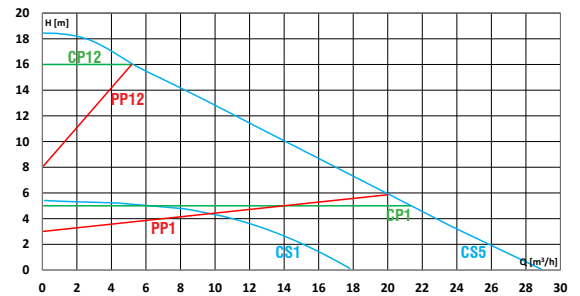
Art. code	Type	Max. head m	Max. flow rate m³/h	Power W	Centre distance
P079.18	AlfaMega 40/18	18	30	670	250

Overall dimensions



Performance curves Art. P079.18

CS PP CP



DN 50



Coefficient EEI < 0,21



2-YEAR WARRANTY



Art. P080

18 m

8 m

→ 38 m³/h

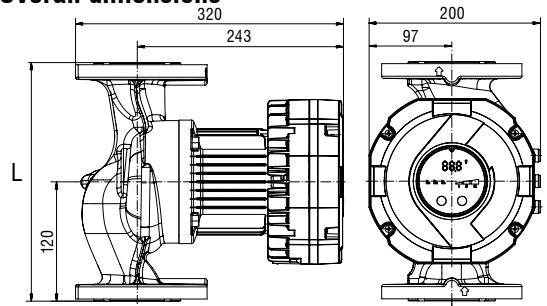
→ 28 m³/h

Art. P080 - ANTARES type "AlfaMega" 50 flanged DN 50 high-efficiency wet-rotor circulating pump. Single-phase 230 V AC with frequency modulation. Cast-iron body.

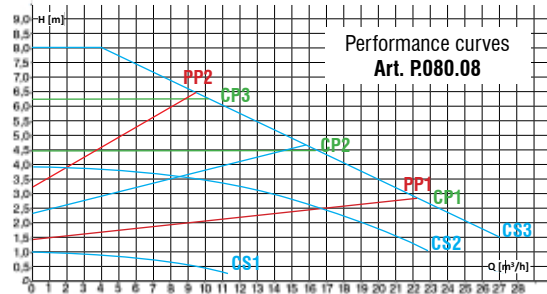
With proportional pressure control and constant pressure control.

Art. code	Type	Max. head m	Max. flow rate m³/h	Power W	Overall dimension L
P080.08	AlfaMega 50/8	8	28	330	240
P080.18	AlfaMega 50/18	18	38	850	280

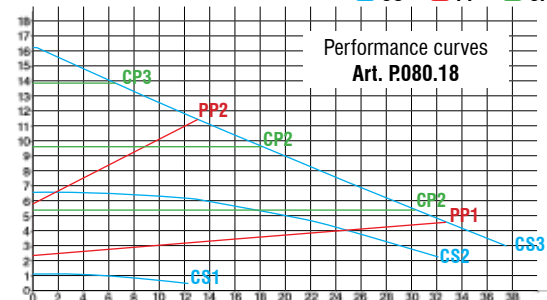
Overall dimensions



CS PP CP



CS PP CP



DN 65



Coefficient EEI < 0,21



2-YEAR WARRANTY

12 m



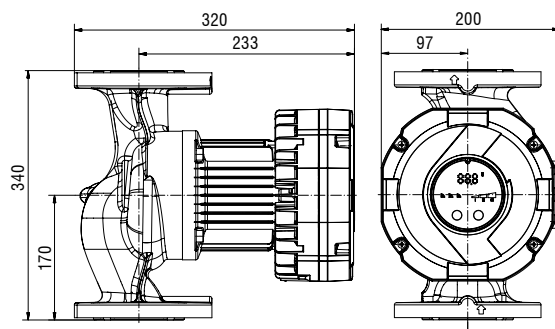
Art. P081.12

44 m³/h

Art. P081.12 - ANTARES type "AlfaMega" 65 flanged DN 65 high-efficiency wet-rotor circulating pump. Single-phase 230 V AC with frequency modulation. Max. flow rate: 44 m³/h - Head 12 m - Cast-iron body - Centre distance: 340 mm.

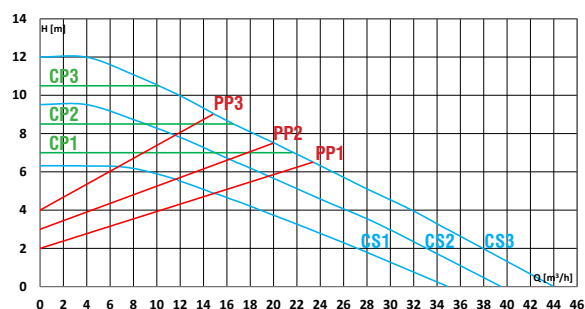
With proportional pressure control and constant pressure control – Power: 1350 W.

Overall dimensions



Performance curves Art. P081.12

CS PP CP



DN 80



Coefficient EEI < 0,21



2-YEAR WARRANTY

8 m



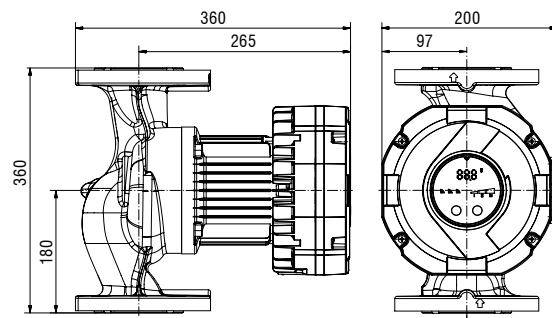
Art. P082.08

54 m³/h

Art. P082.08 - ANTARES type "AlfaMega" 80 flanged DN 80 high-efficiency wet-rotor circulating pump. Single-phase 230 V AC with frequency modulation. Max. flow rate: 54 m³/h - Head 8 m - Cast-iron body. - Centre distance: 360 mm.

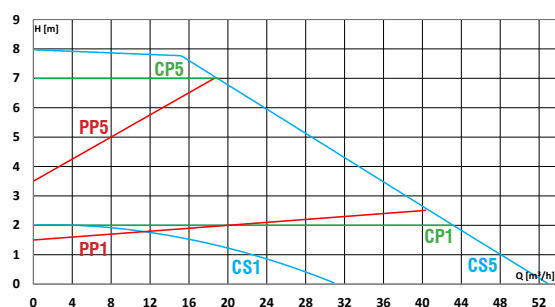
With proportional pressure control, constant pressure control. – Power W: 915.

Overall dimensions



Performance curves Art. P082.08

CS PP CP

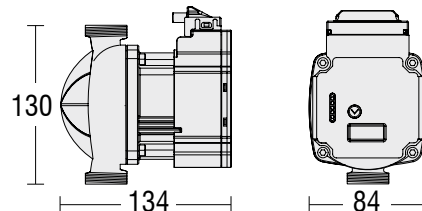
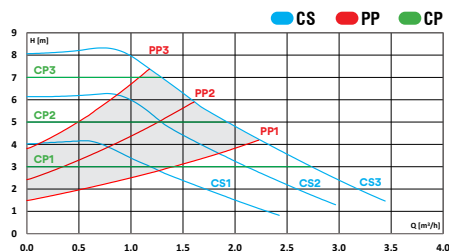


Recirculating pumps for domestic hot water

Plastic body



Art. P061.80



2-year warranty

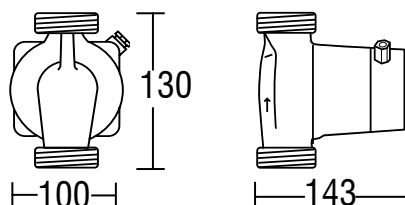
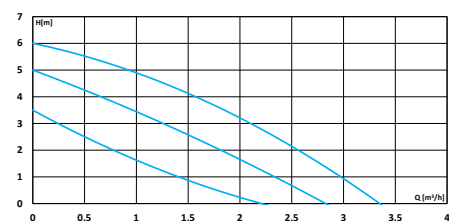
Art. P061.80 - High-efficiency 230 V domestic hot water recirculation pump. Anti-clockwise rotation (CCW). Plastic body.

Connection 1" M. Connection height: 130.

Bronze body



Art. P090.00



2-year warranty

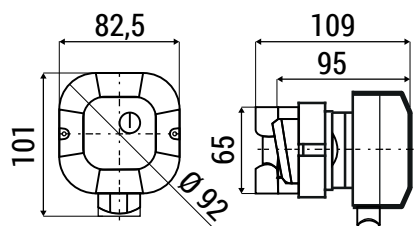
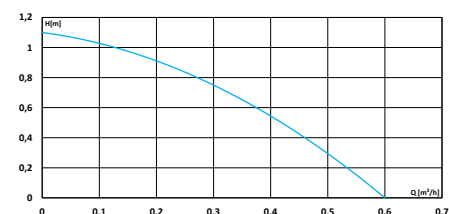
Art. P090.00 - Antares domestic hot water recirculation pump with bronze body. - 230 V - 50 Hz - 2-year warranty. Head: 6 m - Flow rate: 3,3 m³/h.

Connections: 1 1/2" M. - 96 W. Maximum pressure: 10 bar.

Stainless steel body



Art. P093.02



2-year warranty

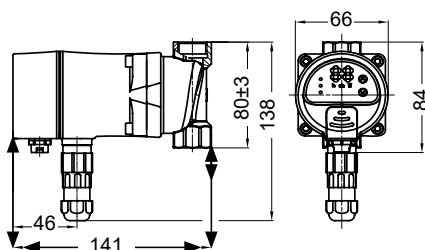
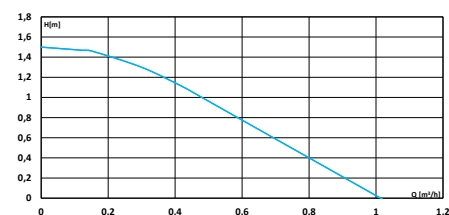
Art. P093.02 - High-efficiency domestic hot water recirculation pump W= 9 - 230 V. - 50 Hz. Stainless steel body.

Connections: 1/2" F. - Maximum pressure 10 bar - Head: 1,1 m - Flow rate: 10 lt./min. - 2-year warranty.

Brass body



Art. P095.00



2-year warranty

Art. P095.00 - High-efficiency ANTARES type HOTMATIC 15-15 domestic hot water recirculation pump with brass body. Consumption: 8 W; 230 V, 50 Hz - 2-year warranty.

Connections: 1/2" F. F. - Complete with insulating shell. With temperature sensor. Flow rate: 0,9 m³/h - Head 1,5 m With electronic control display programmable for:

- Operation at timed intervals over 24 hours
- Operation with temperature control
- Flushing function to prevent the formation of bacterial colonies

Automatic pressure boosting pumps

2-year warranty

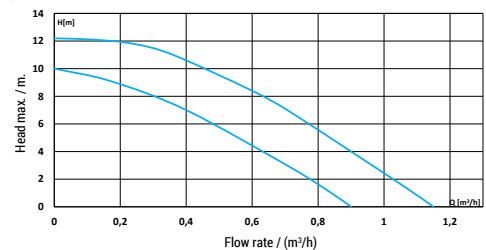
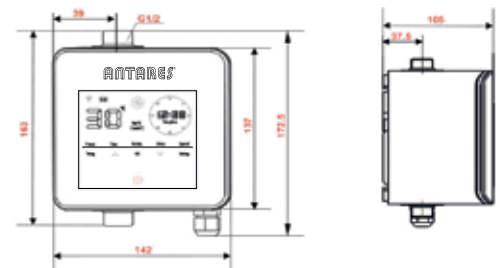


Art. P202.02

Application:



Ideal for large showers



Art. P202.02 - Pressure boosting pump for domestic hot water – 18 l/m.

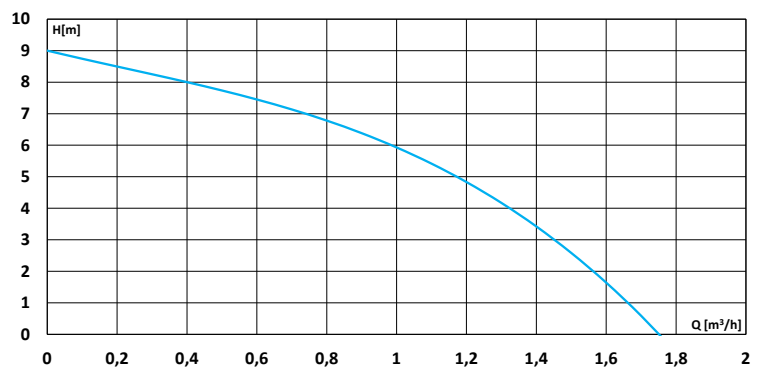
High-efficiency domestic water pressure booster pump. Brass body. Connections: 1/2" M. - 1/2" M. 230 V AC - 18 lt. per minute - Head: 12 m.



2-year warranty



Art. P204.03



Art. P204.03 - ANTARES domestic water pressure boosting pump type BOOSTER PRESSION 15-9AB with brass body. - 2 year warranty.

3/4" connections, complete with brass union fittings. Connection-to-connection length: 160 mm. With integrated check valve and flow switch for automatic start and stop. Power: 120 W - 230 V AC. Head: 9 m - Flow rate: 1,78 m³/h. Designed to increase the pressure of domestic water supplied by an external source and make it available for showers, taps and other draw-off points.

Union fittings for circulators



Art. P001

Art. P001 - Pair of nozzles for circulating pumps, composed by spindles, coils and seals.

Swivel nut F.	1" F.	1" F.	1 1/2" F.	1 1/2" F.	1 1/2" F.	2" F.
Tailpiece	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
Art. code	P001.52	P001.54	P001.11	P001.10	P001.14	P001.24



Art. P002

Art. P002 - Brass pipe coupling with non-return valve inserted in nylon positioned in both directions and seal.

To ensure one-way flow and prevent possible contamination. Complete with gasket

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

Art. P003



Art. P003 - Internal-insertion plastic check valve, fitted with stainless-steel spring and circular O-ring seal.

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

Circulators with plastic bodies for boilers

**COMPOSITE PLASTIC BODY
H 130 Ø 1"**



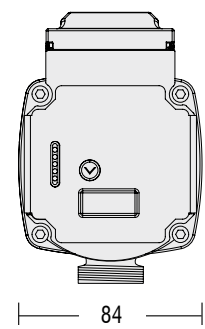
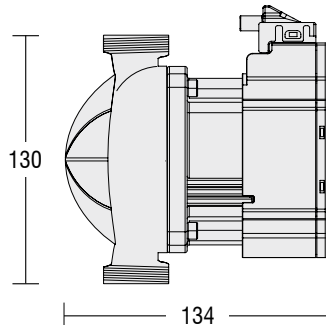
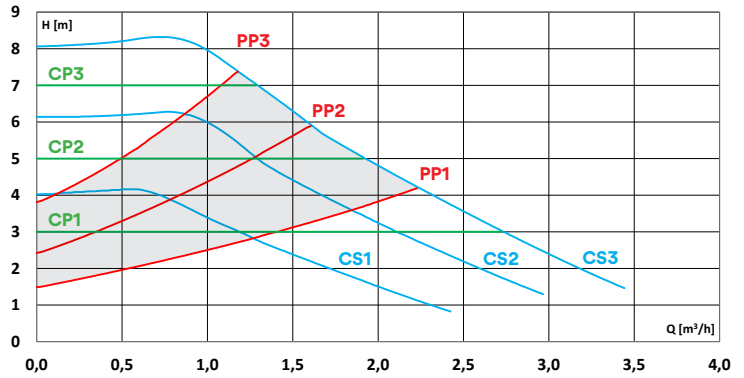
8 m

1"



Art. P061.80

4,1 m³/h



Art. P061.80 - Antares type Modulex Hybrid high-efficiency wet-rotor circulating pump with frequency modulation inverter. With PWM control socket, equipped with SELF ADAPT function, self-regulating with or without cable connection to the PWM controller - Plastic body.

Max. flow rate: m³/h 4,1. Self-regulating. Satisfies all circulator requirements in a single product. Connections: 1" M. - Connection height: 130. -230 V AC - Complete with connection cables. Technical characteristics and performance as Art. P110.

Compatible ARISTON MTS - WILO MTSL - TACO - Plastic bodies

NEW

**COMPATIBLE WITH ARISTON - TACO
direct current 325 V DC with PWM.**

325 V DC

PWM



Art. P031.66



EEI ≤ 0,21

4-year warranty

Art. P031.66 - ANTARES circulating pump with plastic body, air separator and automatic deaerator, direct current at 325 V DC with PWM, compatible with ARISTON boilers - with connection cables.

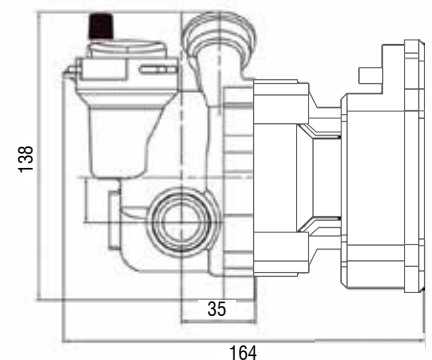
Compatible with Ariston reference codes: 65116908-03 - 65116908
Compatible with TACO ES 2PK/53-9A-C - 325 V DC.

**Compatible and interchangeable
ARISTON - TACO 325 V DC with PWM**



For boilers Alteas One NET, Cares Premium, Cares S., Cares X, Clas One, Clas X, Genus One.
Ref. 65116908-03

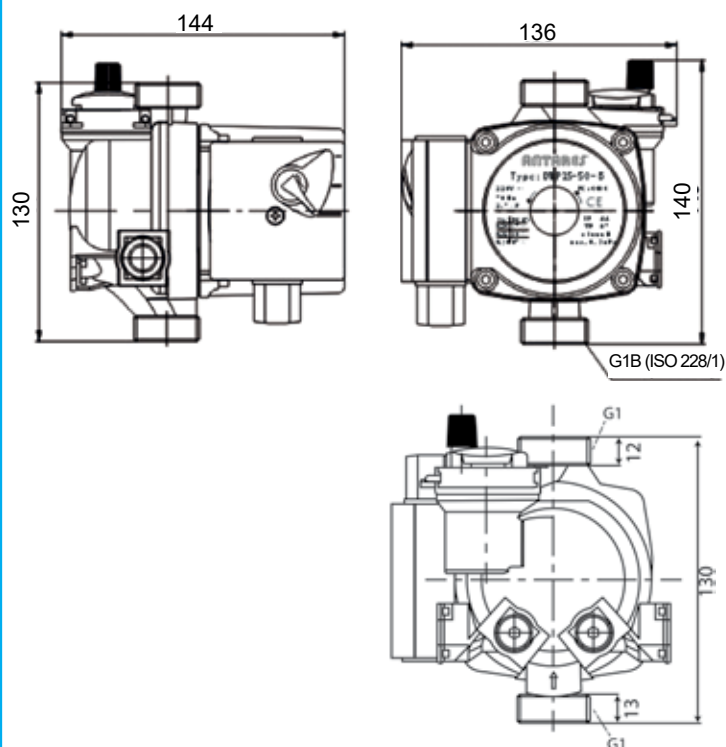
Dimensions



Non-modulating



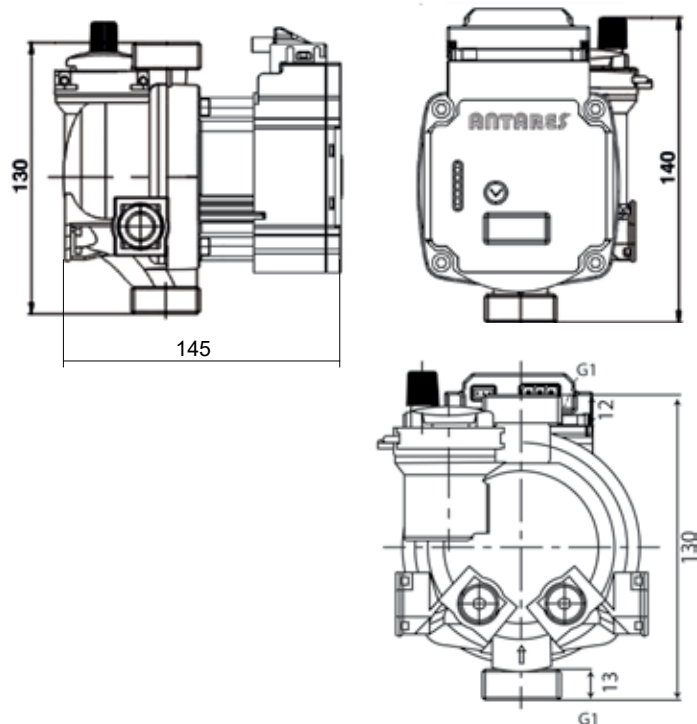
Art. P062.63



Modulating with PWM control



Art. P062.98



Art. P062 - Pompa di circolazione Antares con separatore d'aria e disaeratore automatico. Compatibile con Wilo tipo Ku e GRUNDFOS tipo Cacao.

Connections: 1" M. - Connection height: 130. - 230 V - 50 Hz. For performance curves see Art. P.110 on page 5

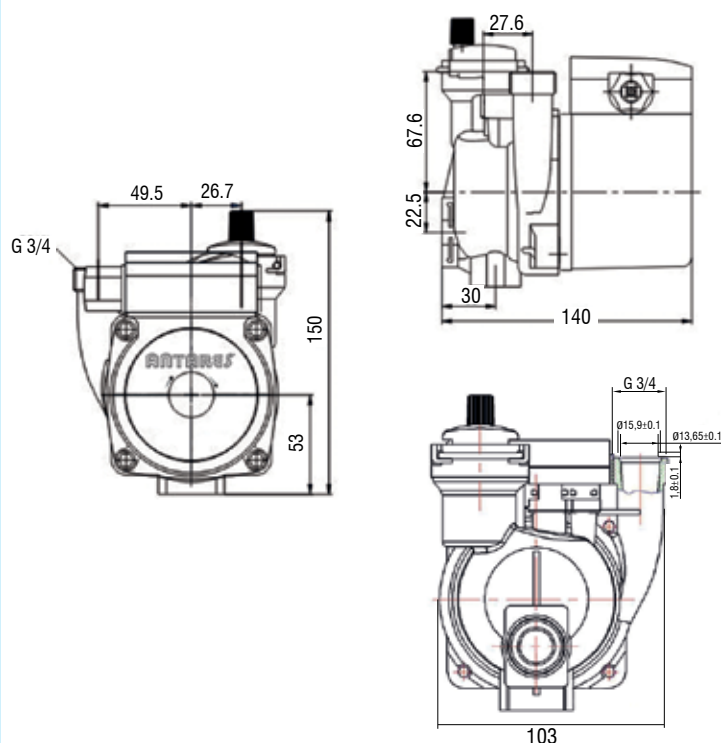
Art. code	Efficiency type	Head and Flow rate	Electrical connection included	Compatible
P062.84	Modulating with PWM	8 m - 4,1 m³/h	Base Wilo INT	Many brands
P062.81	Modulating with PWM	8 m - 4,1 m³/h	Grundfos Standard P.170.01	Many brands
P062.82	Modulating with PWM	8 m - 4,1 m³/h	Wilo Standard P.170.02	Many brands
P062.98	Modulating with PWM	8 m - 4,1 m³/h	Common Style P.170.00	Many brands
P062.63	Non-modulating while stocks last	6 m - 3,8 m³/h	Cable gland	Many brands

For connection cables see Art. P.17X and P.19X on **page 32**.

Non-modulating



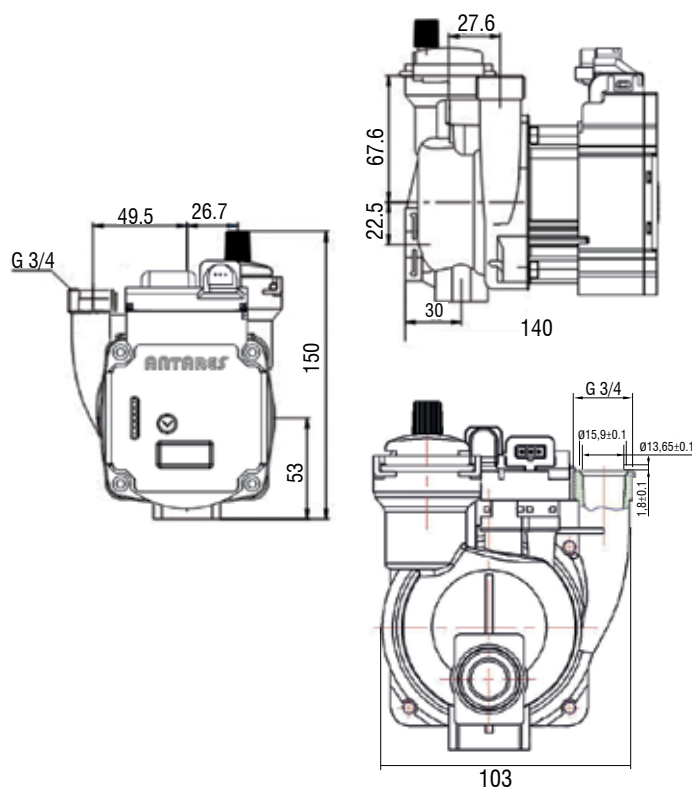
Art. P030.60



Modulating with PWM control



Art. P030.82



Art. P030 - Antares circulating pump with air separator and automatic deaerator. Composite plastic body. Compatible with Wilo NFSL 12/6 Ariston MTS, ARCA, BIASi, SAVIO, and others.

For performance curves see Art. P.110 on page 5 - 230 V 50 Hz.

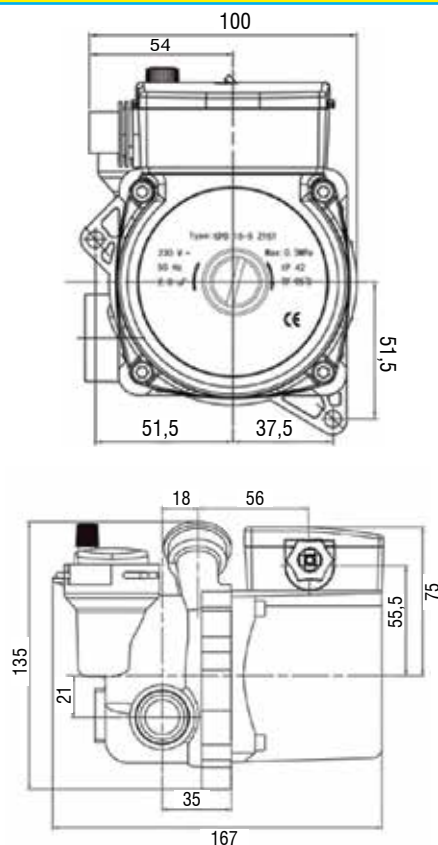
Art. code	Efficiency type	Head and Flow rate	Electrical connection included	Compatible
P030.84	Modulating with PWM	8 m - 4,1 m ³ /h	Base Wilo INT	Ariston MTS Arca, Biasi, Savio and many brands
P030.82	Modulating with PWM	8 m - 4,1 m ³ /h	Wilo Standard P.170.02	Ariston MTS Arca, Biasi, Savio and many brands
P030.60	Non-modulating while stocks last	6 m - 3,8 m ³ /h	Cable gland	Ariston MTS Arca, Biasi, Savio and many brands

For connection cables see Art. P.17X and P.19X on page 32.

Non-modulating



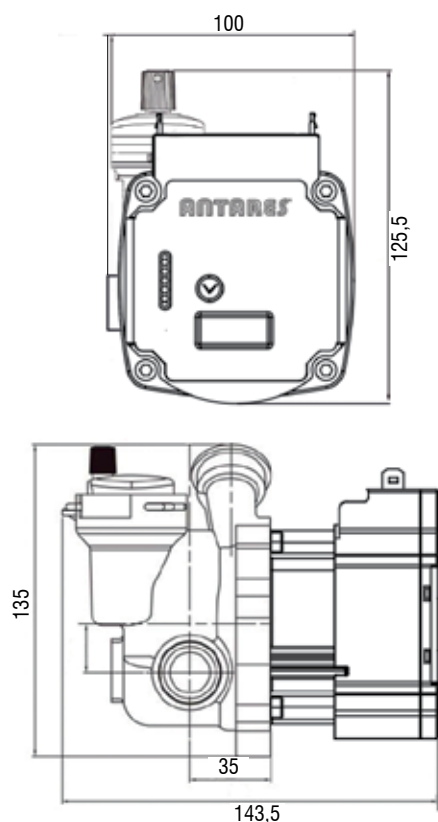
Art. P.031.60



Modulating with PWM control



Art. P.031.84



Art. P.031 - ANTARES circulating pump with air separator and automatic deaerator. Mixed-plastic body. Compatible Saunier Duval, Ariston MTS, Chaffoteaux, Wilo MTSL, TACO.

For performance curves see Art. P.110 on page 5 - 230 V 50 Hz.

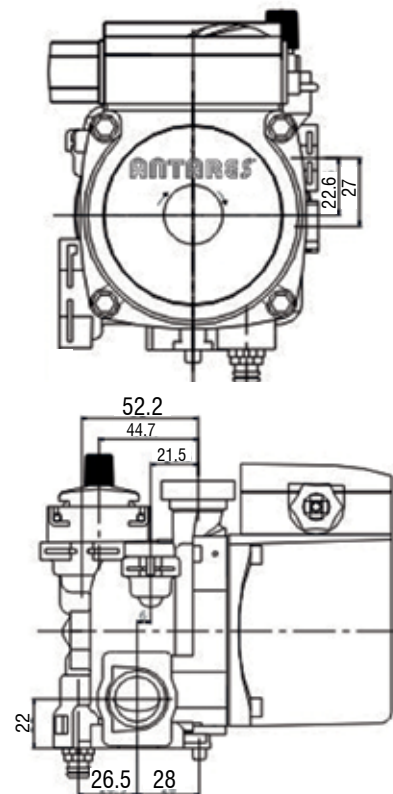
Art. code	Efficiency type	Head and Flow rate	Electrical connection included	Compatible
P031.84	Modulating with PWM	8 m - 4,1 m ³ /h	Base Wilo INT	Saunier Duval, Ariston MTS, Chaffoteaux and many brands
P031.82	Modulating with PWM	8 m - 4,1 m ³ /h	Wilo Standard P.170.02	Saunier Duval, Ariston MTS, Chaffoteaux and many brands
P031.66	Modulating with PWM	6 m - 3 m ³ /h	Common style	Saunier Duval, Ariston MTS, Chaffoteaux and many brands
P031.60	Non-modulating while stocks last	6 m - 3,8 m ³ /h	Cable gland	Saunier Duval, Ariston MTS, Chaffoteaux and many brands

For connection cables see Art. P.17X and P.19X on **page 32**.

Non-modulating



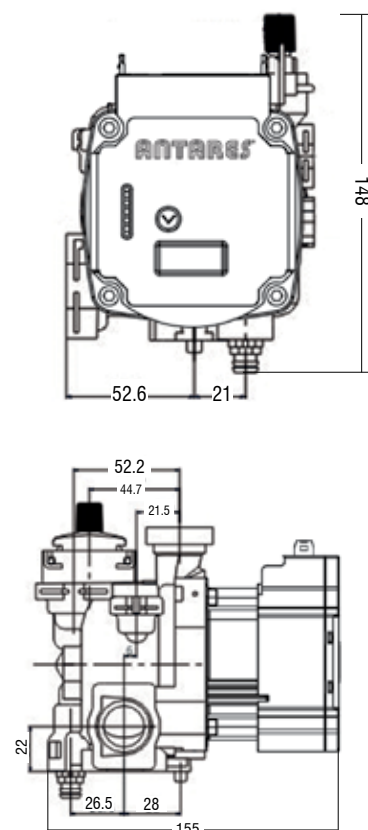
Art. P.032.60



Modulating with PWM control



Art. P.032.84



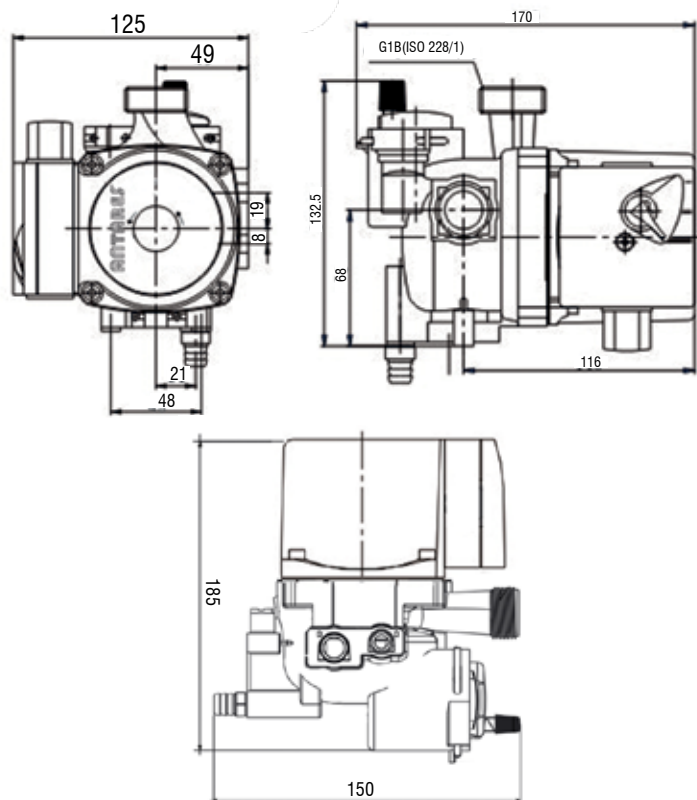
Art. P032 - Mixed-plastic body circulating pump with incorporated automatic deaerator. Compatible Wilo FRSL 15/6 – FERROLI: Domitech, Domiproject, Divatop and others.

For performance curves see Art. P.110 on page 5 - 230 V 50 Hz.

Art. code	Efficiency type	Head and Flow rate	Electrical connection included	Compatible
P032.84	Modulating with PWM	8 m - 4,1 m ³ /h	Base Wilo INT	FERROLI and many brands
P032.82	Modulating with PWM	8 m - 4,1 m ³ /h	Wilo Standard P.170.02	FERROLI and many brands
P032.60	Non-modulating while stocks last	6 m - 3,8 m ³ /h	Cable gland	FERROLI and many brands

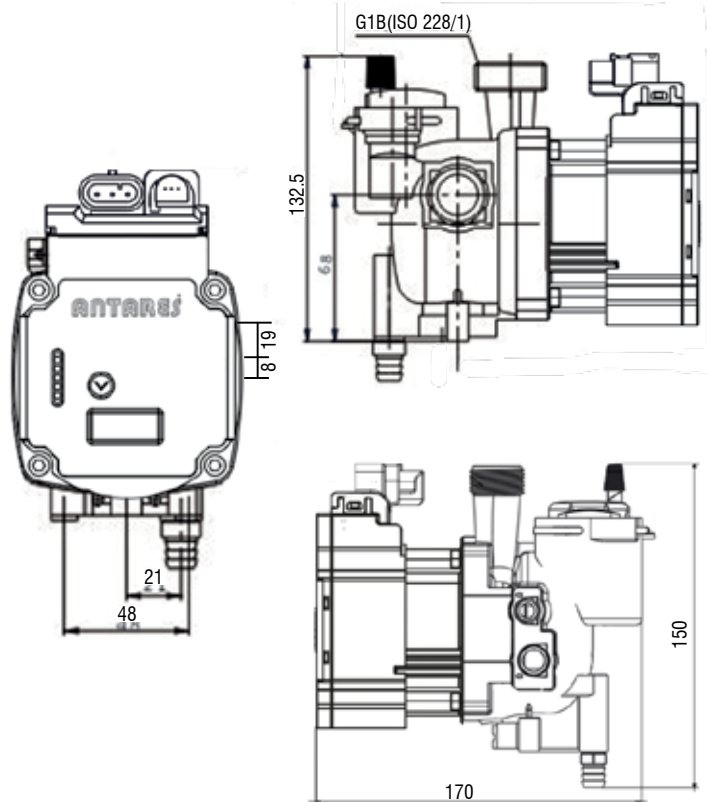
For connection cables see Art. P.17X and P.19X on page 32.

Non-modulating



Art. P034.60

Modulating with PWM control



Art. P034.83

Art. P034 - Circulator with composite plastic body and built-in automatic deaerator. Compatible with GRUNDFOS CAOD AZJ - WILO KSL 15/6 - VAILLANT, VIESSMANN and others.

For performance curves see Art. P.110 on page 5 - 230 V 50 Hz.

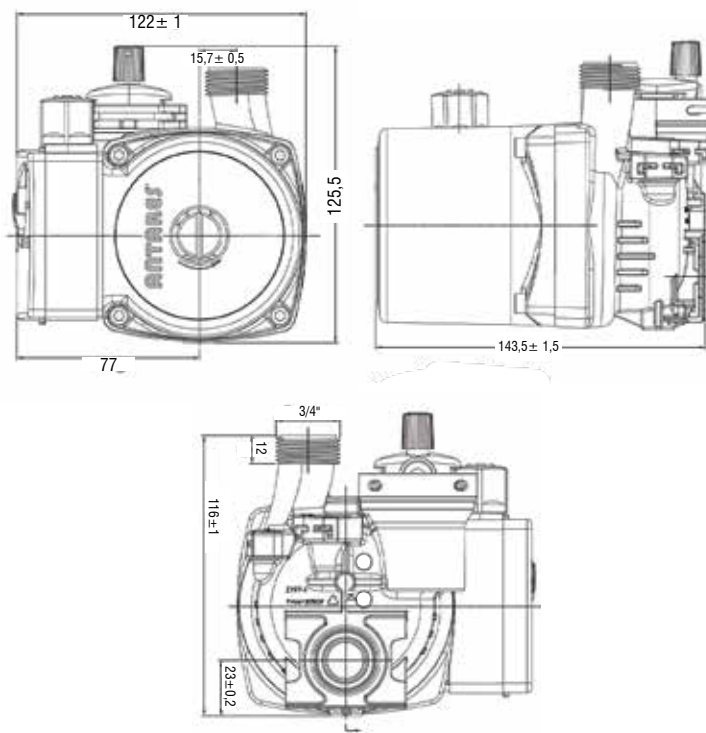
Art. code	Efficiency type	Head and Flow rate	Electrical connection included	Compatible
P034.84	Modulating with PWM	8 m - 4,1 m³/h	Base Wilo INT	VAILLANT, VIESSMANN and others
P034.82	Modulating with PWM	8 m - 4,1 m³/h	Wilo Standard P.170.02	VAILLANT, VIESSMANN and others
P034.83	Modulating with PWM	8 m - 4,1 m³/h	Grundfos FCI P.170.03	VAILLANT, VIESSMANN and others
P034.60	Non-modulating while stocks last	6 m - 3,8 m³/h	Cable gland	VAILLANT, VIESSMANN and others

For connection cables see Art. P.17X and P.19X on page 32.

Non-modulating



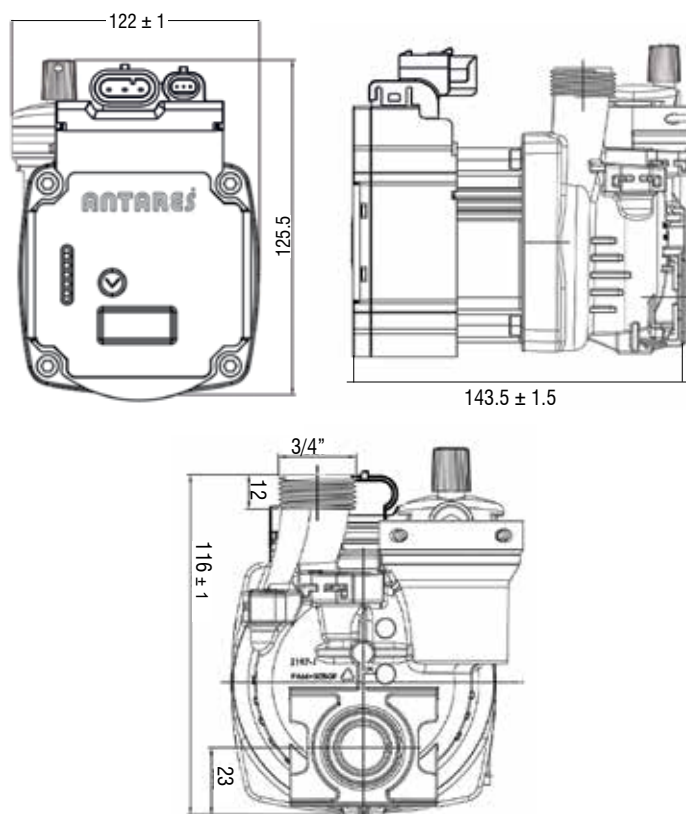
Art. P036.00



Modulating with PWM control



Art. P036.81



Art. P036 - Mixed-plastic body circulating pump with incorporated automatic deaerator. Compatible GRUNDFOS CESA02 – JUNKERS BOSCH – DE DIETRICH and others.

For performance curves see Art. P.110 on page 5 - 230 V 50 Hz.

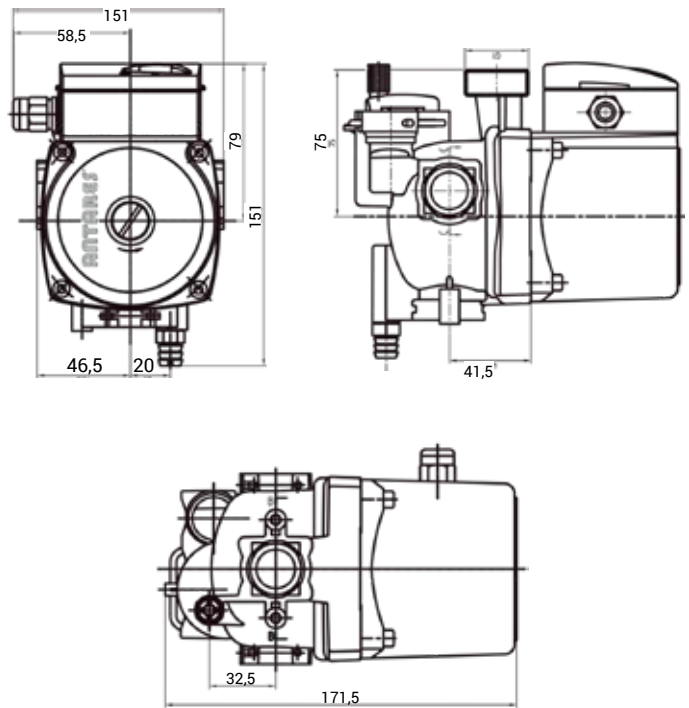
Art. code	Efficiency type	Head and Flow rate	Electrical connection included	Compatible
P036.84	Modulating with PWM	8 m - 4,1 m ³ /h	Base Wilo INT	Junkers Bosch, De Dietrich and many brands
P036.81	Modulating with PWM	8 m - 4,1 m ³ /h	Grundfos Standard P.170.01	Junkers Bosch, De Dietrich and many brands
P036.00	Non-modulating while stocks last	6 m - 3,8 m ³ /h	Cable gland	Junkers Bosch, De Dietrich and many brands

For connection cables see Art. P.17X and P.19X on page 32.

Non-modulating



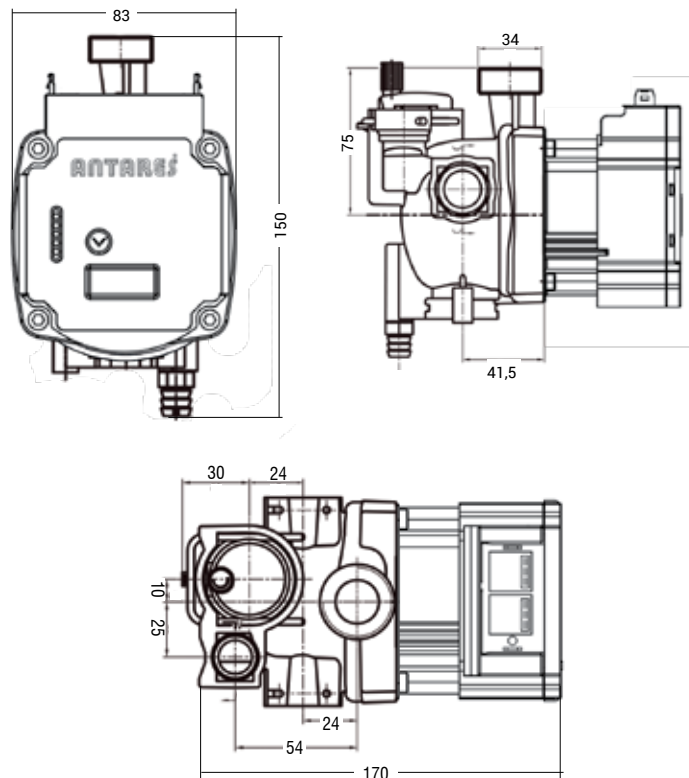
Art. P039.00



Modulating with PWM control



Art. P039.84



Art. P039 - Pompa di circolazione Antares con separatore d'aria e disareatore automatico incorporato. Corpo composto in plastica. Compatible GRUNDFOS AOKR - WILO KSL - SIME e altri.

For performance curves see Art. P.110 on page 5 - 230 V 50 Hz.

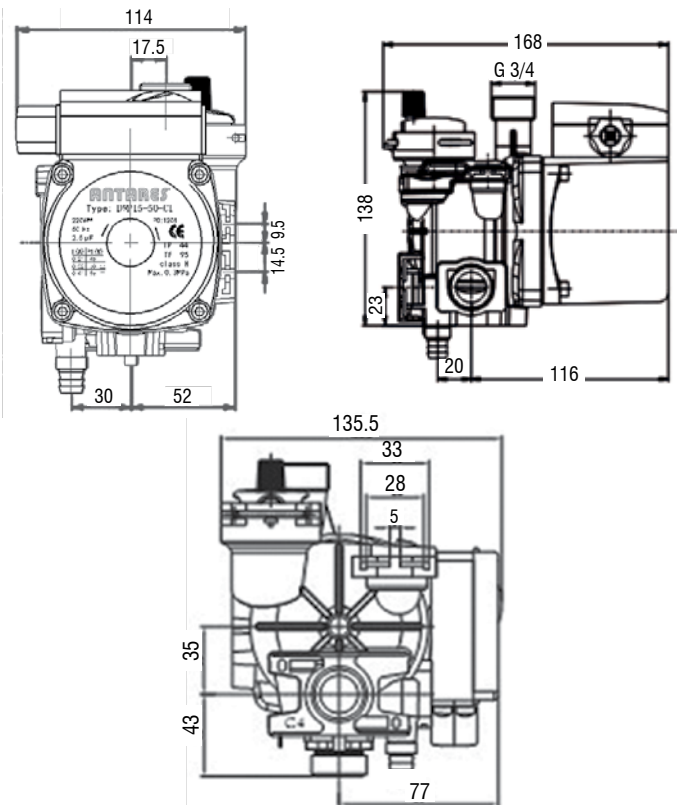
Art. code	Efficiency type	Head and Flow rate	Electrical connection included	Compatible
P039.84	Modulating with PWM	8 m - 4,1 m³/h	Base Wilo INT	SIME and many brands
P039.82	Modulating with PWM	8 m - 4,1 m³/h	Wilo Standard P.170.02	SIME and many brands
P039.81	Modulating with PWM	8 m - 4,1 m³/h	Grundfos Standard P.170.01	SIME and many brands
P039.83	Modulating with PWM	8 m - 4,1 m³/h	Grundfos FCI P.170.03	SIME and many brands
P039.00	Non-modulating while stocks last	6 m - 3,8 m³/h	Cable gland	SIME and many brands

For connection cables see Art. P.17X and P.19X on page 32.

Non-modulating



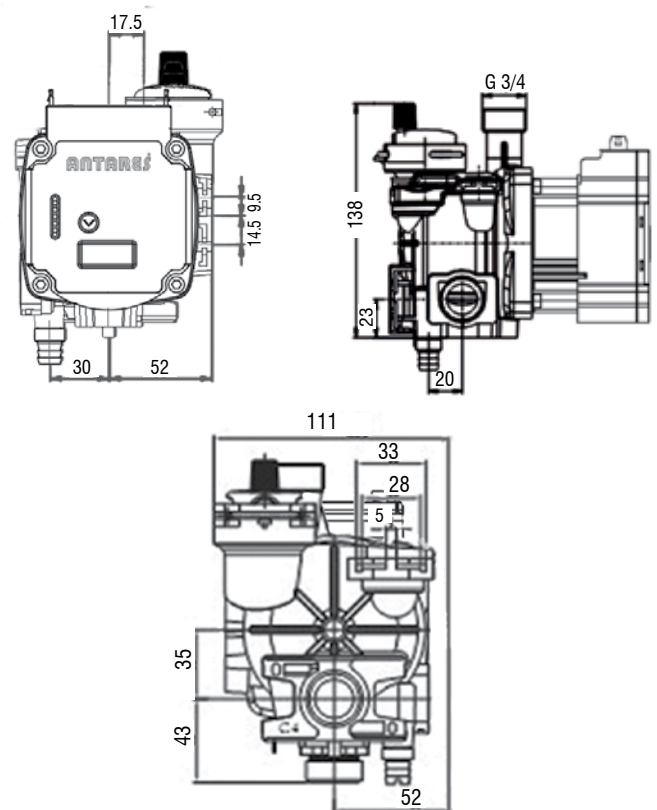
Art. P040.00



Modulating with PWM control



Art. P040.84



Art. P040 - Circulating with mixed plastic body with built-in automatic deaerator. ARCA Boilers and others compatible.

For performance curves see Art. P.110 on page 5 - 230 V 50 Hz.

Art. code	Efficiency type	Head and Flow rate	Electrical connection included	Compatible
P040.84	Modulating with PWM	8 m - 4,1 m³/h	Base Wilo INT	ARCA and many brands
P040.00	Non-modulating while stocks last	6 m - 3,8 m³/h	Cable gland	ARCA and many brands

For connection cables see Art. P.17X and P.19X on page 32.

Accessories and spare parts for circulators

Heads for built-in deaerator

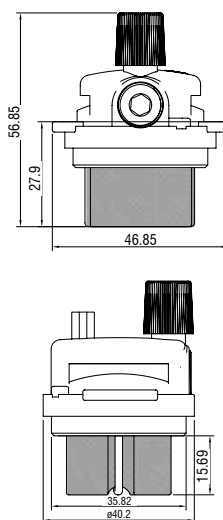
COMPATIBLE: WILO, GRUNDFOS, CALEFFI



Art. P.087.00

Art. P.087.00 - Replacement automatic deaerator head with bayonet fitting for circulating pumps with plastic body. With bayonet fitting.

Compatible: Caleffi, Wilo, Grundfos. Reference codes: IMMERGAS: 1027110 - BAXI: 710493600.



COMPATIBLE:
WILO,
GRUNDFOS,
CALEFFI

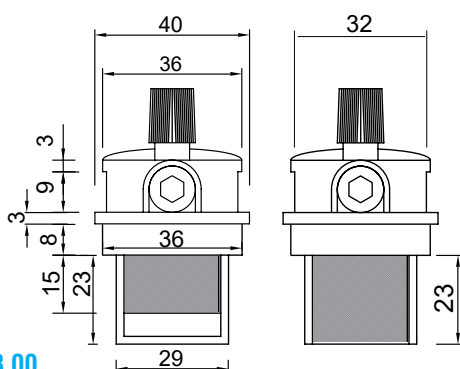


Art. P.089.03

Art. P.089.03 - Brass replacement head for automatic air vent valve with screw fitting, for CALEFFI - ANTARES type deaerators and others.



Art. P.088.00



COMPATIBLE WITH CALEFFI and GRUNDFOS

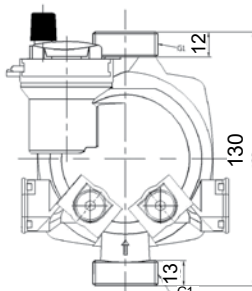
Art. P.088.00 - Replacement head for automatic air vent valve, for deaerators fitted on circulators with fork connection.

Art. code	Type
P088.00	CALEFFI - GRUNDFOS - WILO

Circulating pump bodies



Art. P.151.68



Art. P.151.68 - Replacement composite plastic body for circulator with automatic deaerator. Height: 130 mm - Connections 1" M.

Compatible for anti-clockwise rotation with GRUNDFOS models type Cacao. Coupled with motors with impeller Art. P.084.xx, P.074.xx or P.121.80, it can form a complete circulator. Distance between mounting holes 68 mm. Complete with 2 gaskets for the fittings.

Art. P.153 - Spare cast iron body for circulating pump with counter-clockwise rotation (CCW).

Compatible with GRUNDFOS, ANTARES, and other brands with a mounting-hole centre distance of 68 mm. Coupled with motors with impeller Art. P.084.xx, P.074.xx, P.121.80, it can form a complete circulator. Complete with 2 gaskets for the fittings.

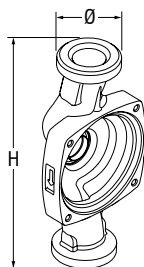
Art. code	Ø	H
P.153.10	1"	130
P.153.12	1 1/2"	130
P.153.20	1 1/2"	180

Art. P.155.08 - Kit for coupling the circulating pump housing (P.151.68 and P.153.xx) to the engine.

Consists of 1 NBR rubber gasket and no. 4 fixing bolts.



Art. P.153



Art. P.155.08



Art. F.812

Art. F.812 - Hex key with "T" handle.

For easy replacement of circulating pump motors.

Art. code	Size mm.
F.812.05	4
F.812.06	5

Insulating shells for circulating pumps



Art. P.070

Black polystyrene insulating shell for thermal insulation of circulator bodies.

Art. code	H	Suitable for the series
P070.13	130	P110 - P112 - P023 - P065
P070.24	130	P064
P070.18	180	P110 - P112 - P023
P070.28	180	P064
P070.20	180	P066 - P076
P070.30	180	P078

Adapter for circulating pumps connectors



Art. P160.01



Art. P163.01

Art. P160.01 - GRUNDFOS power cable plug adapter for MODULEX circulator socket Art. P110.

Art. P161.01 - WILO power cable plug adapter for MODULEX circulator socket Art. P110.



Art. P161.01



Art. P164.01

Art. P163.01 - PWM GRUNDFOS controller cable plug adapter for MODULEX circulator socket Art. P110.

Art. P164.01 - PWM WILO controller cable plug adapter for MODULEX circulator socket Art. P110.

Diameter and height adapters

From height 130 to 180 mm



Art. P.004.12

From height 130 to 180 mm
From Ø 1" F. to 1 1/4" M.
From Ø 1" F. to 1 1/2" M.

Art. P.005



Art. P.004.12 - Brass extension 1 1/2" M.F for adapting the circulator height from 130 mm. to 180 mm.

Art. P.005 - Pair of extension and diameter-increasing fittings for adapting the circulator connection diameter and height from 130 to 180 mm.

Art. code	Increase and Ø
P005.48	From 1" F. to 1 1/4" M.
P005.18	From 1" F. to 1 1/2" M.



Art. P.008



Art. P.008 - Pair of thread increase ring fittings for replacement of circulating pumps with smaller fittings, complete with gaskets.

Diameter Ø	1 1/4" M. x 1" F.	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.
Art. code	P008.14	P008.12	P008.24	P008.21	P008.20

Electrical connections for circulating pumps

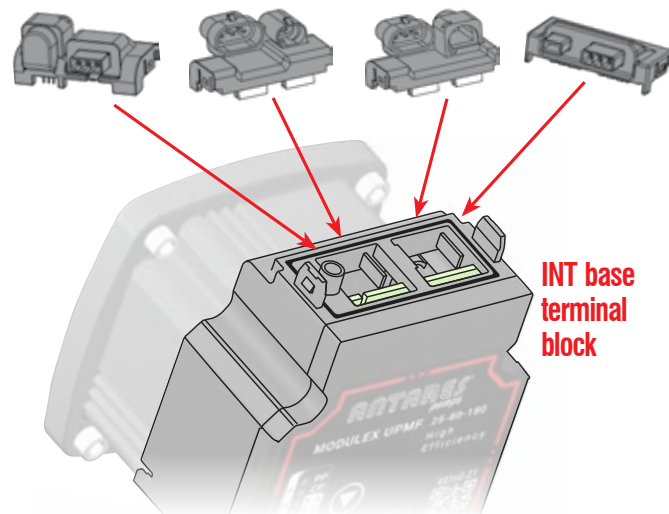
Snap-fit sockets for electrical connections

N.B.

Many boiler manufacturers equip circulators with different electrical connection sockets. ANTARES has developed a system to make replacement operations easier for service technicians (registered model with patent) which provides for snap-fitting the various connections used by manufacturers onto the INT base terminal block (protection IP44).

Art. P.170 - Snap-fit connection socket on INT terminal block for the defined types of connections: PWM signal and power supply.

Art. code	Type of snap-fit connection sockets
P.170.02	Wilo Standard Molex + FCI crescent P.177.00 + P.193.00
P.170.01	Grundfos Standard Super Seal + Mini Super Seal P.175.00 + P.191.00
P.170.03	Grundfos FCI Super Seal + FCI crescent P.175.00 + P.193.00
P.170.00	Common Style Molex - FCI rectangular P.178.00 + P.195.00



Connection cable for circulators

Electric supply cables

Super Seal



Art. P.175.00

Molex Wilo



Art. P.177.00

Molex Common Style



Art. P.178

Art. P.175.00 - Power cable with right-angle Super Seal type connector.

Length: 70 cm - compatible with Grundfos UPM3 series and Wilo Para Maxo

Art. P.177.00 - Cavo di alimentazione elettrica con connettore a squadra tipo Molex Wilo, Grundfos.

Length: 70 cm - compatible with Wilo, Grundfos

Art. P.178 - Power cable with right-angle Molex Common Style type connector.

Art. code	Length
P.178.07	0,7 m
P.178.30	3 m

PWM speed-control cables

Mini Super Seal



Art. P.191.00

FCI Crescent



Art. P.193.00

FCI Rectangular



Art. P.195.00

Art. P.191.00 - PWM signal cable with right-angle Mini Super Seal type connector.

Length: 50 cm - compatible with Grundfos

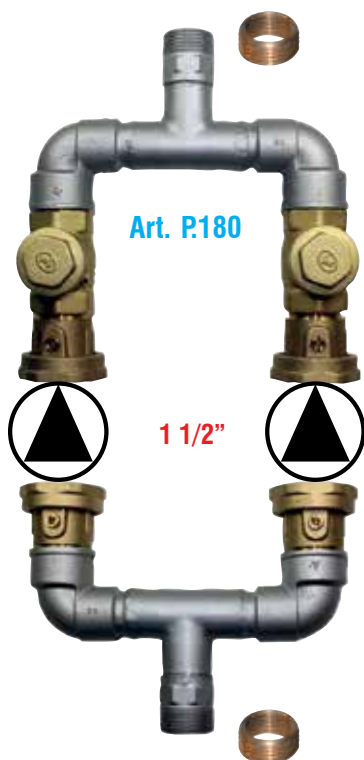
Art. P.193.00 - PWM signal cable with right-angle FCI crescent type connector.

Length: 50 cm - compatible with Grundfos, Wilo

Art. P.195.00 - PWM signal cable with right-angle FCI rectangular type connector.

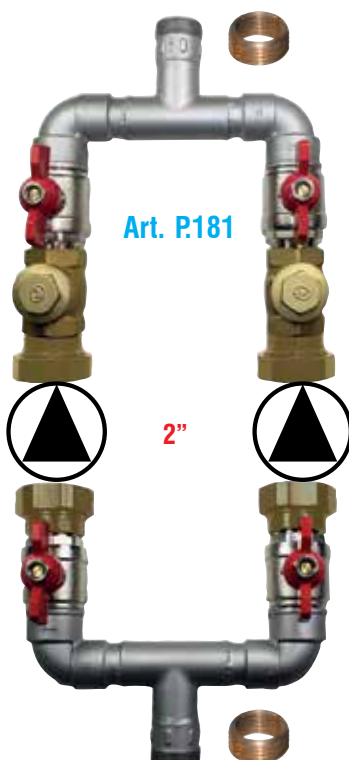
Length: 50 cm - compatible with ANTARES

Manifolds for circulators twin coupling



Art. P.180

1 1/2"



Art. P.181

2"

Art. P.180 - Manifold for twin coupling of circulators, complete with no. 2 ball valves with screwdriver operation for easy replacement without draining the system. With insulating shell.

Connections: system side 1" and 1 1/2" - pump side: 1 1/2" F. swivel

Art. code	Model
P.180.12	Without check valve
P.180.52	With check valve

Art. P.181 - Manifold for twin coupling of circulators, complete with no. 2 ball valves with butterfly handles for easy replacement without draining the system. With insulating shell.

Connections: system side 1 1/4" and 2" - pump side: 2" F. swivel

Art. code	Model
P.181.20	Without check valve
P.181.60	With check valve

Shut-off valves for circulators



Art. E.430

Art. E.430 - Brass ball valve with threaded connection and screwdriver-actuated control for pump.

Connections Ø	1 1/2" F. swiv. x 1" M.	1 1/2" F. swiv. x 1" F.	1 1/2" F. swiv. x 1 1/2" M.	1 1/2" F. swiv. x copper pipe Ø 22	1 1/2" F. swiv. x copper pipe Ø 28
Art. code	E.430.10	E.430.00	E.430.12	E.430.22	E.430.28



Art. E.432

Art. E.432 - Brass ball valve with pump union connection and butterfly lever.

Type	Without check valve		With check valve
Connections Ø	1" F. x 1 1/2" F. swiv.	1 1/2" M. x 1 1/2" F. swiv.	1" F. x 1 1/2" F. swiv.
Art. code	E.432.10	E.432.12	E.432.90



Art. E.437

Art. E.437 - One-piece ball valve with pump connection and coloured thermometer-holder handle. Max. pressure: 10 bar. Thermometer scale 0°C - 120°C.

Art. code	Connections Ø	Handle colour	Model with
E.437.10	1" F. x 1 1/2" F. swivel	Blue	Check valve
E.437.12	1" F. x 1 1/2" F. swivel	Red	-
E.437.20	1 1/4" F. x 2" F. swivel	Blue	Check valve
E.437.22	1 1/4" F. x 2" F. swivel	Red	-



Art. E.478



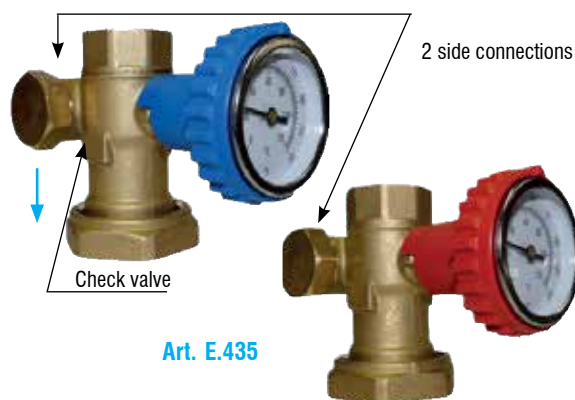
Art. E.478 - Ball valve with 1 1/2" F. union connection and extended "ISO T" T-handle, suitable for systems with thermal insulation. Nickel-plated CW617 brass UNI EN 12165. Handle colour can be identified using the supplied red and blue plates.

Provision for thermometer

Type	without check valve		with check valve	
Connections	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
Art. code	E.478.10	E.478.14	E.478.90	E.478.94

With thermometer included, red

Type	without check valve		with check valve	
Connections	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
Art. code	E.478.50	E.478.54	E.478.80	E.478.84



Art. E.435

Art. E.435 - One-piece ball valve with pump connection and two side connections, with coloured thermometer-holder handle and thermometer. Max. pressure: 10 bar - Thermometer scale: 0°C - 120°C. Connections 1" F. x 1 1/2" F. swivel.

Art. code	Handle colour	Model with
E.435.10	Blue	Check valve + check-valve release
E.435.12	Red	-

Art. E.438.03 - One-piece ball valve with pump connection, red thermometer-holder handle and thermometer. Thermometer scale: 0°C - 160°C. Check valve and fixing holes.

Max. pressure: 10 bar - Max. temp.: 140°C - Connections 3/4" F. x 1" F. swivel.

Art. E.439.03 - One-piece ball valve with pump connection, 3/4" F. side connection, blue thermometer-holder handle and thermometer. Thermometer scale: 0°C - 160°C. Check valve, check-valve release and fixing holes.

Max. pressure: 10 bar - Max. temp.: 140°C - Connections 3/4" F. x 1" F. swivel.

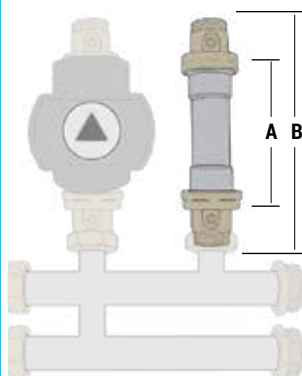


Art. E.438.03



Art. E.439.03

Installation example E.606



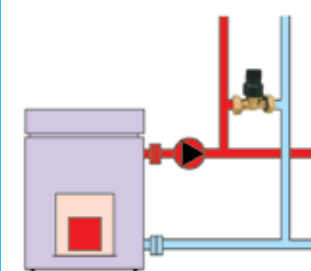
Art. E.606 - Module consisting of 2 ball valves with screwdriver operation, 1" M. x 1 1/2" F. swivel, complete with 4 gaskets and a 1 1/2" M. x 1 1/2" M. pipe to compensate for the pump spacing.

Height "A" mm.	130	180	
Height "B" mm.	210	260	
Type	Without thermometer pocket	Without thermometer pocket	With no. 2 built-in pockets for temperature probes: 1 with Ø int. 10 for thermal probe. 1 with Ø int. 7 for safety thermostat
Art. code	E.606.12	E.606.00	E.606.18



Art. E.606

Installation example P.301



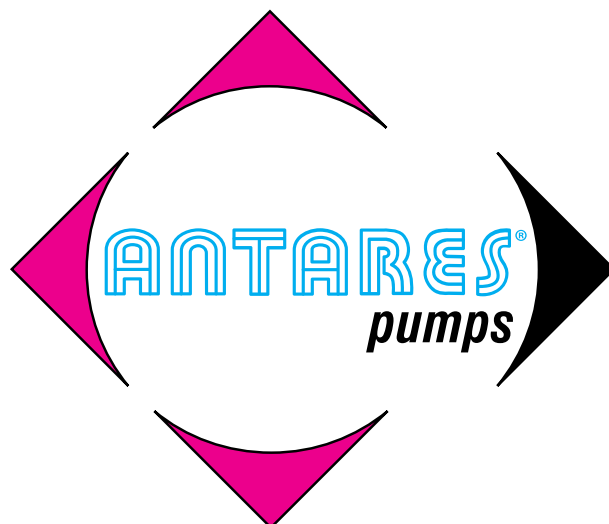
Art. P.301 - Differential balancing module for eliminating overpressure caused by the automatic closure of system zones. Suitable for connection to the dedicated branch connections of the ball valves in DN 25 pump modules (Art. E.321, E.623 and E.624).

Adjustment scale: 2 - 6,5 m - The valve is calibrated by positioning the pointer at the value shown on the graduated scale marked on the valve.

Connections	3/4" F. swivel x 3/4" F. swivel	3/4" F. swivel x copper pipe 15
Art. code	P.301.03	P.301.05



Art. P.301



ANTARES worldwide

Head office:

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PRE-SALE ASSISTANCE

Our technical department is at your disposal for any additional information and to help you choose.



Equipment of electrical connections

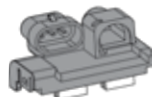
Grundfos Standard



Art. P.170.01

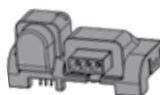
Terminal block type
Compatible with
WILO INT.

Grundfos FCI



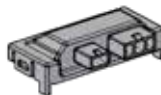
Art. P.170.03

Wilo Standard

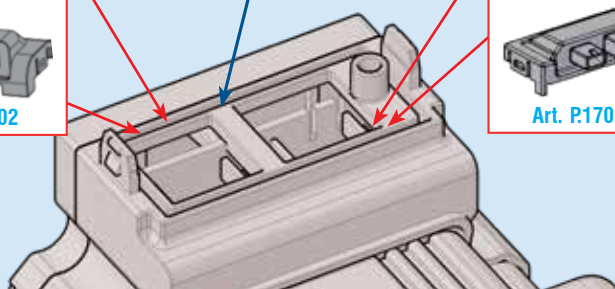


Art. P.170.02

Common Style



Art. P.170.00



ANTARES
pumps

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ANTARES Pumps is a production division of Antares for Water & Fire srl.

