GRUNDFOS ALPHA2 L

Installation and operating instructions

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GRUNDFOS

Declaration of conformity

GB: EC declaration of conformity

We, Grundfos, declare under our sole responsibility that the product GRUNDFOS ALPHA2 L, to which this declaration relates, is in conformity with these Council directives on the approximation of the laws of the EC member states:

— Low Voltage Directive (2006/95/EC).
Standard used: EN 60335-2-51:2003.

— EMC Directive (2004/108/EC).
Standards used: EN 55014-1:2006 and EN 55014-2:1997.

— Ecodesign Directive (2009/125/EC).
Circulators:
Commission Regulation Nos 641/2009 and 622/2012.
Applies only to circulators marked with the energy efficiency index EEI. See the pump nameplate.
Standards used: EN 16297-1:2012 and EN 16297-2:2012.

This EC declaration of conformity is only valid when published as part of the Grundfos installation and operating instructions (publication number 95047490 0813).

RU: Декларация о соответствии ЕС

Мы, компания Grundfos, со всей ответственностью заявляем, что изделия GRUNDFOS ALPHA2 L, к которым относится настоящая декларация, соответствуют следующим Директивам Совета Евросоюза об унификации законодательных предписаний стран-членов ЕС:

— Низковольтное оборудование (2006/95/EC).
Применявшийся стандарт: EN 60335-2-51:2003.

— Электромагнитная совместимость (2004/108/EC).
Применявшиеся стандарты: EN 55014-1:2006 и EN 55014-2:1997.

— Директива по экологическому проектированию энергопотребляющей продукции (2009/125/EC).
Циркуляционные насосы:
Постановление Комиссии № 641/2009 и 622/2012.
Применяется только по отношению к циркуляционным насосам, промаркированным и имеющим индекс энергоэффективности EEI. См. фирменную табличку насоса.
Применявшиеся стандарты: EN 16297-1:2012 и EN 16297-2:2012.

Данная декларация о соответствии ЕС имеет силу только в случае публикации в составе инструкции по монтажу и эксплуатации на продукцию производства компании Grundfos (номер публикации 95047490 0813).

Bjerringbro, 1st August 2013

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Person authorised to compile technical file and empowered to sign the EC declaration of conformity.

АЯ56

Декларация о соответствии на территории РФ

Насосы серии GRUNDFOS ALPHA2 L сертифицированы в системе ГОСТ Р.
Сертификат соответствия:
№ РОСС DK.АЯ56.В43661, срок действия до 24.04.2014г.

1 августа 2013г.

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Original installation and operating instructions.

CONTENTS

Warning

Prior to installation, read these installation and operating instructions. Installation and operation must comply with local regulations and accepted codes of good practice.

Warning

The use of this product requires experience with and knowledge of the product.
Persons with reduced physical, sensory or mental capabilities must not use this product, unless they are under supervision or have been instructed in the use of the product by a person responsible for their safety.
Children must not use or play with this product.

1. Symbols used in this document

Warning

If these safety instructions are not observed, it may result in personal injury.

Warning

If these instructions are not observed, it may lead to electric shock with consequent risk of serious personal injury or death.

Caution ***If these safety instructions are not observed, it may result in malfunction or damage to the equipment.***

Note ***Notes or instructions that make the job easier and ensure safe operation.***

2. General description

The GRUNDFOS ALPHA2 L circulator pump is designed for the circulation of water in heating systems.

The pump is suitable for the following systems:

- underfloor heating systems
- one-pipe systems
- two-pipe systems.

The pump incorporates a permanent-magnet motor and differential-pressure control enabling continuous adjustment of the pump performance to the actual system requirements.

The pump has a user-friendly front-mounted control panel.
See sections *3. Identification* and *7. Control panel*.

2.1 Advantages of installing a GRUNDFOS ALPHA2 L

The installation of a GRUNDFOS ALPHA2 L means

easy installation and start-up

- The pump is easy to install.
  With the factory setting, the pump can, in most cases, be started without making any settings.

high degree of comfort

- Minimum noise from valves, etc.

low energy consumption

- Low energy consumption compared to conventional circulator pumps.

Energy efficiency index (EEI)

- The Ecodesign directive for energy-using (EuP) and energy-related (ErP) products is EU legislation requiring manufacturers to reduce the overall environmental impact of their products.
- Circulator pumps will be EuP-ready and comply with the requirements as from 2015.

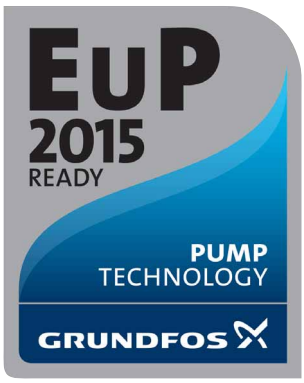

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Fig. 1 EuP-ready label

3. Identification

3.1 Nameplate

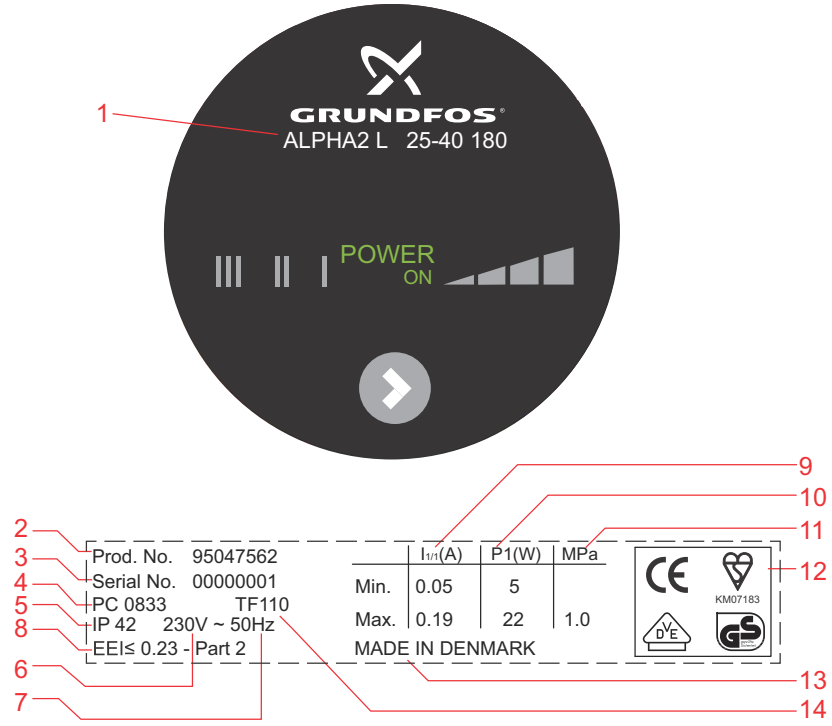

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Fig. 2 Example of nameplate

Pos.	Description	Pos.	Description
1	Pump type	8	Energy efficiency index (EEI)
2	Product number	9	Rated current [A]: • Min.: Minimum current [A] • Max.: Maximum current [A]
3	Serial number	10	Input power P1 [W]: • Min.: Minimum input power P1 [W] • Max.: Maximum input power P1 [W]
4	Production code: • 1st and 2nd digits = year • 3rd and 4th digits = week	11	Maximum system pressure [MPa]
5	Enclosure class	12	CE mark and approvals
6	Voltage [V]	13	Country of manufacture
7	Frequency [Hz]	14	Temperature class

3.2 Type key

Example	ALPHA2 L	25	-40	180
Pump type				
Nominal diameter (DN) of suction and discharge ports [mm]				
Maximum head [dm]				
: Cast-iron pump housing N: Stainless-steel pump housing A: Pump housing with air separator				
Port-to-port length [mm]				

4. Applications

4.1 System types

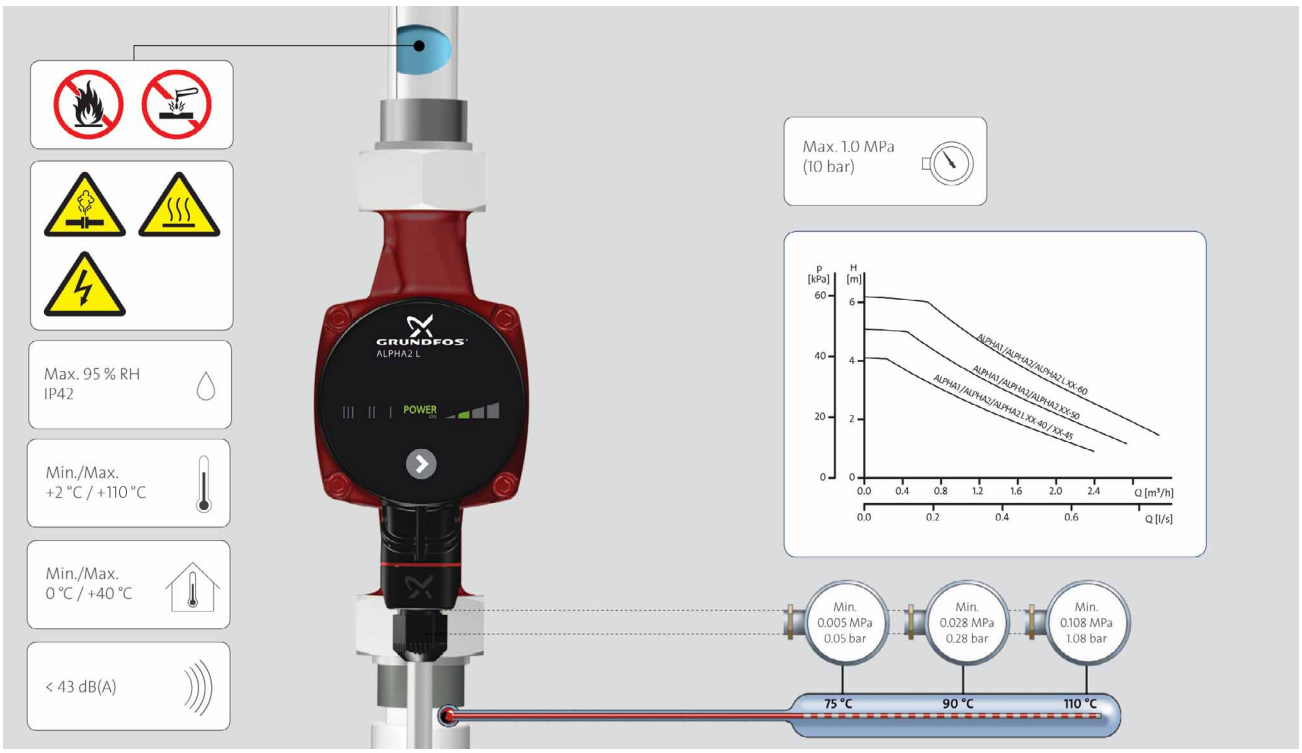

Fig. 3 Pumped liquids and operating conditions

GRUNDFOS ALPHA2 L is suitable for

- systems with constant or variable flows where it is desirable to optimise the setting of the pump duty point.
- systems with variable flow-pipe temperature.

4.2 Pumped liquids

Clean, thin, non-aggressive and non-explosive liquids, not containing solid particles, fibres or mineral oil. See fig. 3.

In heating systems, the water should meet the requirements of accepted standards on water quality in heating systems, for example the German standard VDI 2035.

Warning

The pump must not be used for the transfer of flammable liquids such as diesel oil, petrol and similar liquids.

4.3 System pressure

Maximum 1.0 MPa (10 bar). See fig. 3.

4.4 Relative air humidity (RH)

Maximum 95 %. See fig. 3.

4.5 Enclosure class

IP42. See fig. 3.

4.6 Inlet pressure

Minimum inlet pressure in relation to liquid temperature. See fig. 3.

Liquid temperature	Minimum inlet pressure	
	[MPa]	[bar]
≤ 75 °C	0.005	0.05
90 °C	0.028	0.28
110 °C	0.108	1.08

5. Mechanical installation

5.1 Mounting

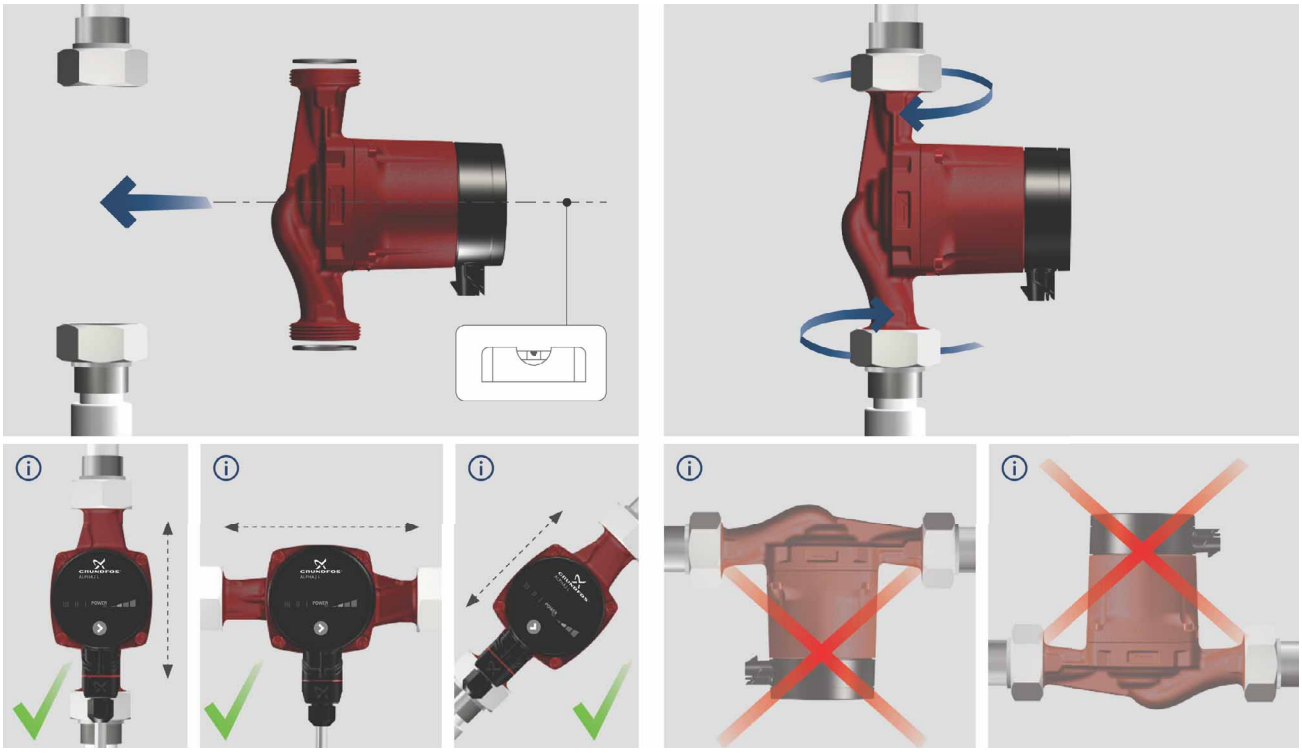

Fig. 4 Mounting the GRUNDFOS ALPHA2 L

Arrows on the pump housing indicate the liquid flow direction through the pump.

See section *13.2 Installation dimensions, GRUNDFOS ALPHA2 L XX-40, XX-50, XX-60*.

- Fit the two gaskets supplied when the pump is mounted in the pipe.
- Install the pump with horizontal motor shaft. See fig. 4.

5.2 Control box positions

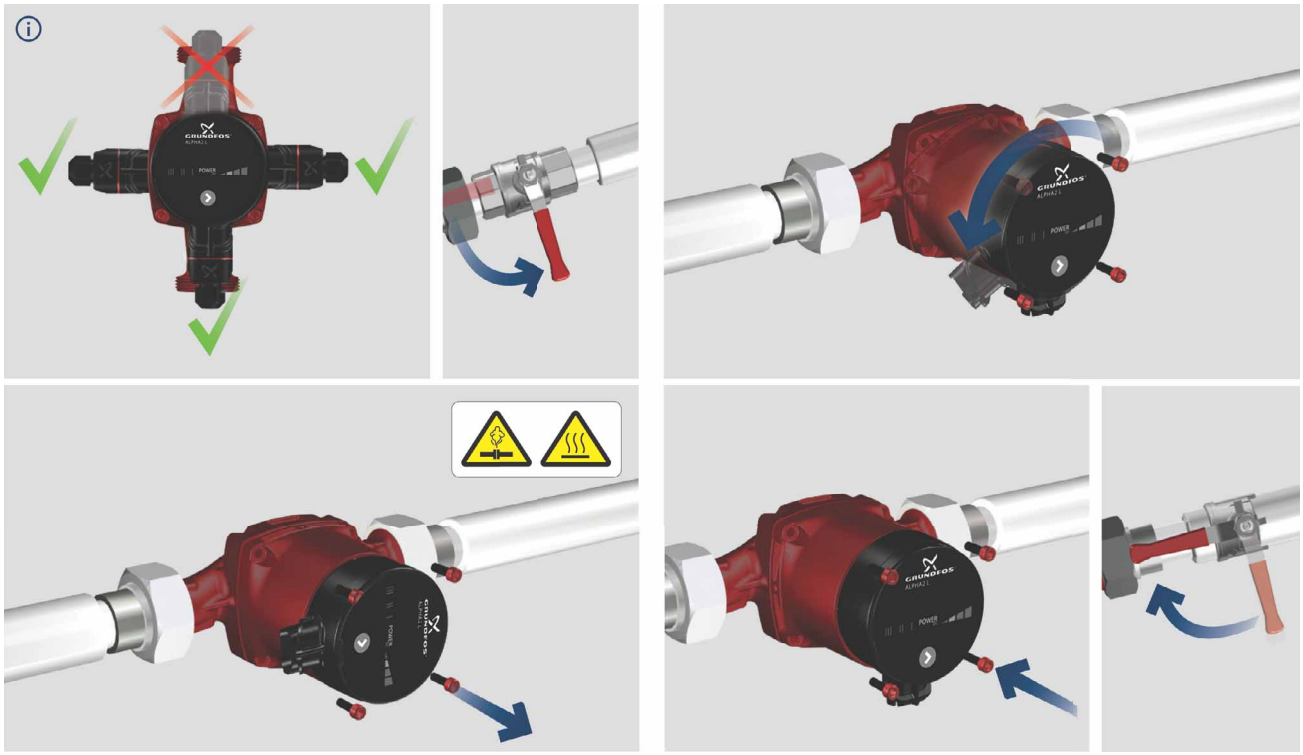

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Fig. 5 Control box positions

Warning

The pumped liquid may be scalding hot and under high pressure.

Drain the system or close the isolating valves on either side of the pump before the screws are removed.

Caution

Fill the system with the liquid to be pumped or open the isolating valves when the position of the control box has been changed.

5.3 Changing the control box position

The control box position can be changed in steps of 90 °.

Possible/permissible positions and the procedure of changing the position of the control box are illustrated in fig. 5.

Procedure:

1. Slacken and remove the four hexagon-socket head screws holding the pump head with a tee key (M4).
2. Turn the pump head to the desired position.
3. Insert and cross-tighten the screws.

5.4 Insulation of pump housing

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Fig. 6 Insulation of pump housing

Note ***Limit the heat loss from the pump housing and pipework.***

The heat loss from the pump and pipework can be reduced by insulating the pump housing and the pipe. See fig. 6.

As an alternative, polystyrene insulating shells can be fitted to the pump. See section *15. Accessories*.

Caution ***Do not insulate the control box or cover the control panel.***

6. Electrical installation

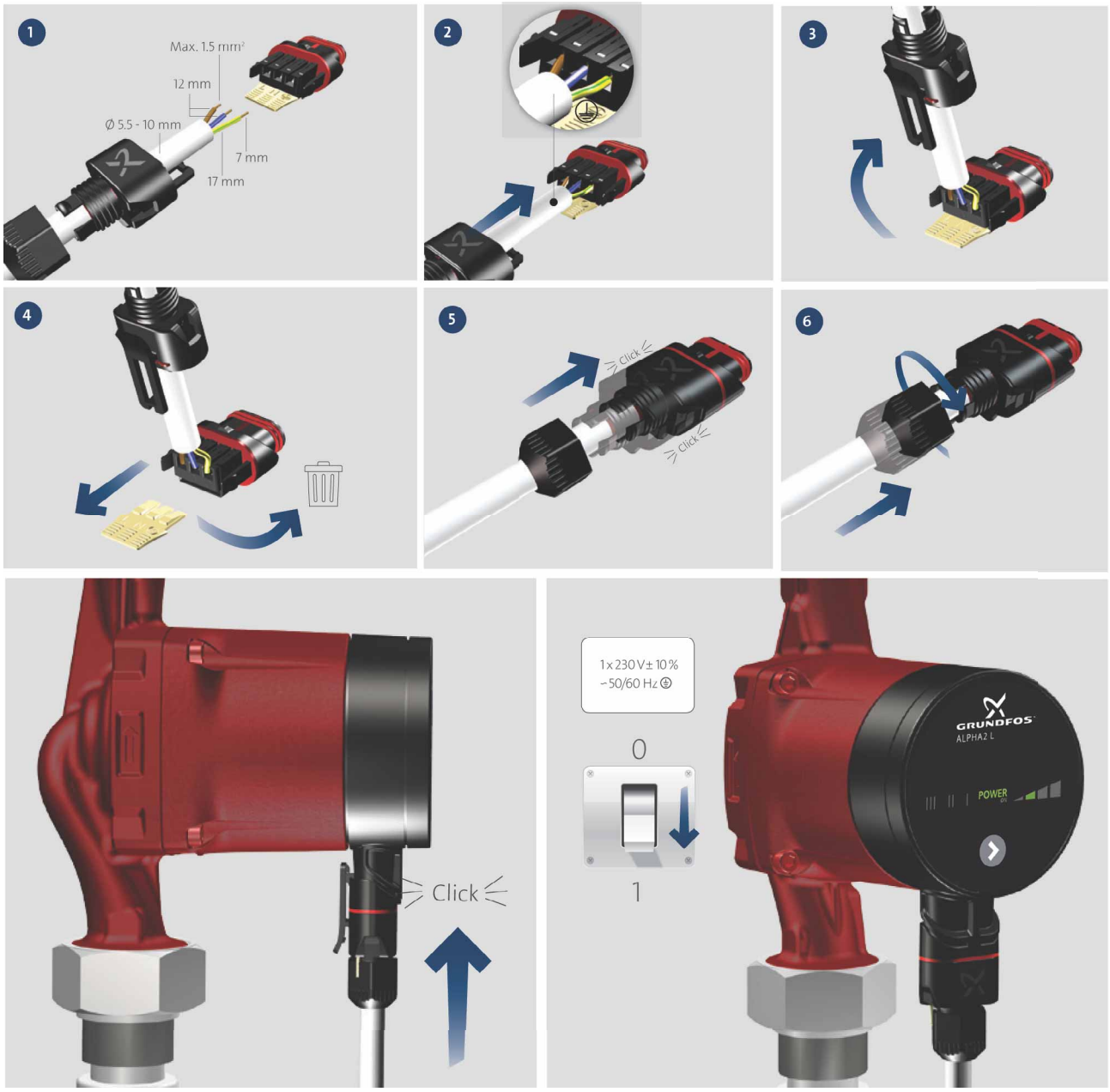

Fig. 7 Electrical connection

Carry out the electrical connection and protection according to local regulations.

Warning

The pump must be connected to earth ⏚.

The pump must be connected to an external mains switch with a minimum contact gap of 3 mm in all poles.

- The pump requires no external motor protection.
- Check that the supply voltage and frequency correspond to the values stated on the nameplate. See section *3.1 Nameplate*.
- Connect the pump to the power supply with the plug supplied with the pump as shown in fig. 7.
- Light in the control panel shows that the power supply has been switched on.

7. Control panel

7.1 Elements on the control panel

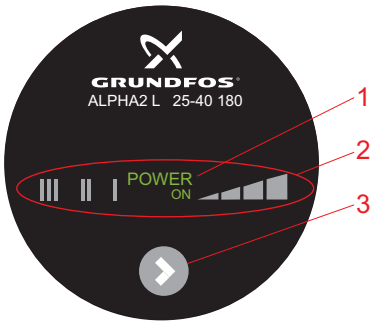

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Fig. 8 GRUNDFOS ALPHA2 L control panel

The control panel comprises:

Pos.	Description
1	"POWER ON" light field
2	Seven light fields indicating the pump setting
3	Push-button for selection of pump setting

7.2 "POWER ON" light field

The "POWER ON" light field (fig. 8, pos. 2) is on when the power supply has been switched on.

Note

When the "POWER ON" light field is on only, a fault preventing the pump from operating properly (for example seizing-up) has occurred. See section 12. Fault finding.

If a fault is indicated, correct the fault and reset the pump by switching the power supply off and on.

7.3 Light fields indicating the pump setting

The pump has seven optional settings which can be selected with the push-button. See fig. 8, pos. 4.

The pump setting is indicated by seven different light fields. See fig. 9.

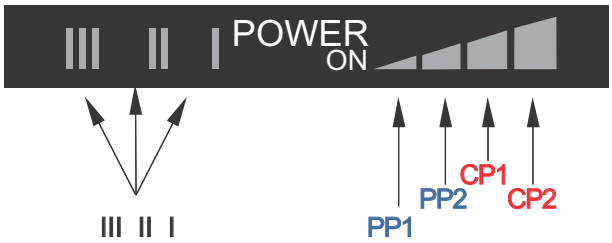

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Fig. 9 Seven light fields

Number of button presses	Light field	Description
0	PP2 (factory setting)	Highest proportional-pressure curve
1	CP1	Lowest constant-pressure curve
2	CP2	Highest constant-pressure curve
3	III	Constant speed, speed III
4	II	Constant speed, speed II
5	I	Constant speed, speed I
6	PP1	Lowest proportional-pressure curve
7	PP2	Highest proportional-pressure curve

See section *11. Pump settings and pump performance* for information about the function of the settings.

7.4 Push-button for selection of pump setting

Every time the push-button (fig. 8, pos. 4) is pressed, the pump setting is changed.

A cycle is seven button presses. See section *7.3 Light fields indicating the pump setting*.

8. Setting the pump

8.1 Pump setting for system type

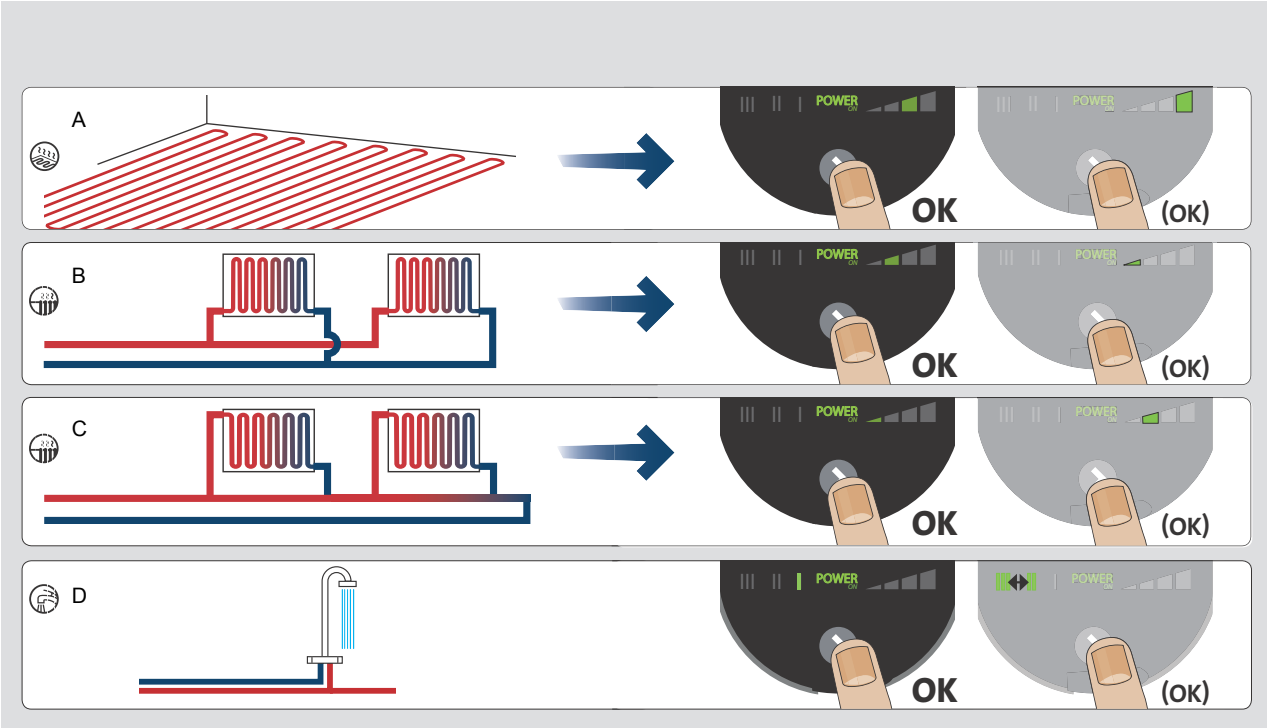

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Fig. 10 Selection of pump setting for system type

Factory setting = highest proportional-pressure curve (PP2).

Recommended and alternative pump settings according to fig. 10:

Pos.	System type	Pump setting	
		Recommended	Alternative
A	Underfloor heating	Lowest constant-pressure curve (CP1)*	Highest constant-pressure curve (CP2)*
B	Two-pipe systems	Highest proportional-pressure curve (PP2)*	Lowest proportional-pressure curve (PP1)*
C	One-pipe systems	Lowest proportional-pressure curve (PP1)*	Highest proportional-pressure curve (PP2)*
D	Domestic water	Constant speed, speed I*	Constant speed, speed II or III*

* See section *14.1 Guide to performance curves*.

Changing from recommended to alternative pump setting

Heating systems are "slow" systems that cannot be set to the optimum operation within minutes or hours.

If the recommended pump setting does not give the desired distribution of heat in the rooms of the house, change the pump setting to the shown alternative.

Explanation to pump settings in relation to performance curves, see section *11. Pump settings and pump performance*.

8.2 Pump control

During operation, the pump head will be controlled according to the principle "proportional-pressure control" (PP) or "constant-pressure control" (CP).

In these control modes, the pump performance and consequently the power consumption are adjusted according to the heat demand in the system.

Proportional-pressure control

In this control mode, the differential pressure across the pump is controlled according to the flow.

The proportional-pressure curves are indicated by PP1 and PP2 in the Q/H diagrams. See section *11. Pump settings and pump performance*.

Constant-pressure control

In this control mode, a constant differential pressure across the pump is maintained, irrespective of the flow.

The constant-pressure curves are indicated by CP1 and CP2 and are the horizontal performance curves in the Q/H diagrams. See section *11. Pump settings and pump performance*.

9. Systems with bypass valve between flow and return pipes

9.1 Purpose of bypass valve

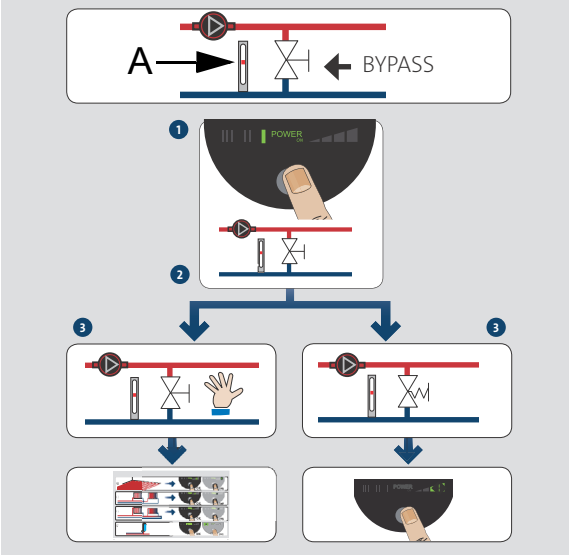

Fig. 11 Systems with bypass valve

Bypass valve

The purpose of the bypass valve is to ensure that the heat from the boiler can be distributed when all valves in the underfloor-heating circuits and/or thermostatic radiator valves are closed.

System elements:

- bypass valve
- flowmeter, pos. A.

The minimum flow must be present when all valves are closed.

The pump setting depends on the type of bypass valve used, i.e. manually operated or thermostatically controlled.

9.2 Manually operated bypass valve

Follow this procedure:

1. Adjust the bypass valve with the pump in setting I (speed I). The minimum flow ($Q_{min.}$) for the system must always be observed. Consult the manufacturer's instructions.
2. When the bypass valve has been adjusted, set the pump according to section *8. Setting the pump*.

9.3 Automatic bypass valve (thermostatically controlled)

Follow this procedure:

1. Adjust the bypass valve with the pump in setting I (speed I). The minimum flow ($Q_{min.}$) for the system must always be observed. Consult the manufacturer's instructions.
2. When the bypass valve has been adjusted, set the pump to the lowest or highest constant-pressure curve.
   Explanation to pump settings in relation to performance curves, see section *11. Pump settings and pump performance*.

10. Startup

10.1 Before start-up

Do not start the pump until the system has been filled with liquid and vented. The required minimum inlet pressure must be available at the pump inlet. See sections *4. Applications* and *13. Technical data and installation dimensions*.

10.2 Venting the pump

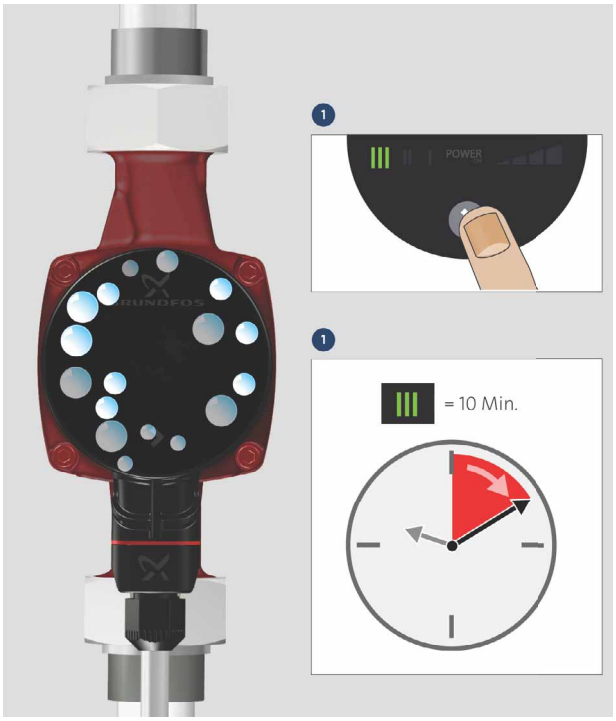

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Fig. 12 Venting the pump

The pump is self-venting. It need not be vented before start-up.

Air in the pump may cause noise. This noise will cease after a few minutes running.

Quick venting of the pump can be obtained by setting the pump to speed III for a short period, depending on system size and design.

When the pump has been vented, i.e. when the noise has ceased, set the pump according to the recommendations. See section *8. Setting the pump*.

Caution ***The pump must not run dry.***

The system cannot be vented through the pump. See section *11. Pump settings and pump performance*.

10.3 Venting of heating systems

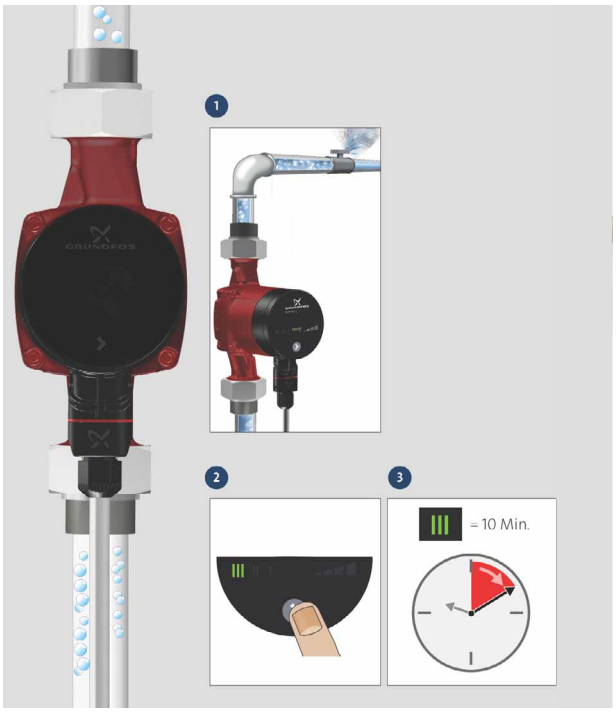

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Fig. 13 Venting of heating systems

The heating system can be vented via an air escape valve installed above the pump. When the heating system has been filled with liquid, follow this procedure:

1. Open the air escape valve.
2. Set the pump to speed III.
3. Let the pump run for a short period, depending on system size and design.
4. When the system has been vented, i.e. when the possible noise has ceased, set the pump according to the recommendations. See section *8. Setting the pump*.

Repeat the procedure, if necessary.

Caution ***The pump must not run dry.***

11. Pump settings and pump performance

11.1 Relation between pump setting and pump performance

Figure 14 shows the relation between pump setting and pump performance by means of curves. See also section *14. Performance curves*.

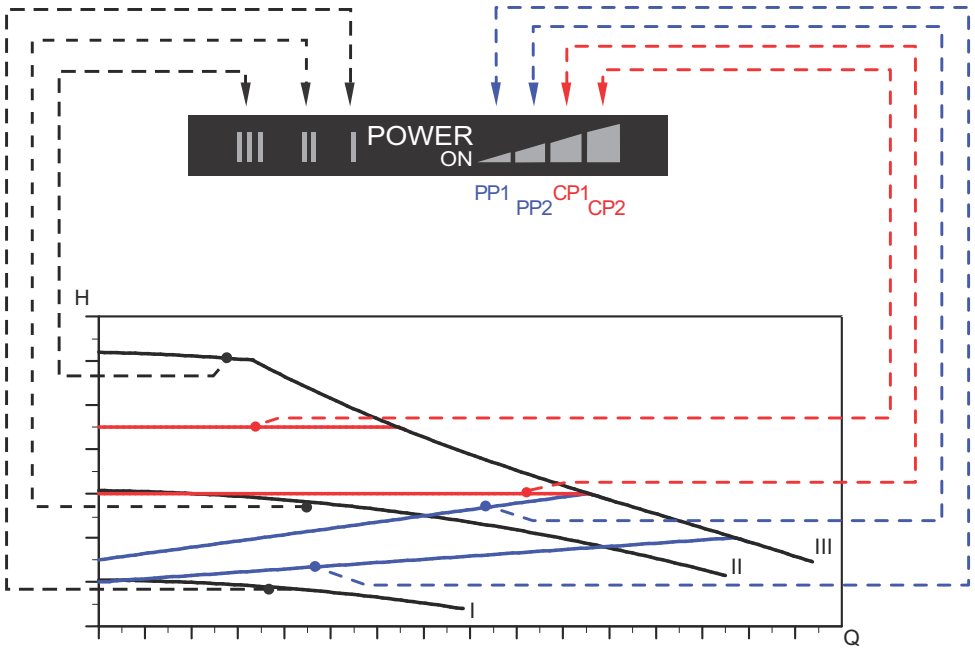

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Fig. 14 Pump setting in relation to pump performance

Setting	Pump curve	Function
PP1	Lowest proportional-pressure curve	The duty point of the pump will move up or down on the lowest proportional-pressure curve, depending on the heat demand in the system. See fig. 14. The head (pressure) is reduced at falling heat demand and increased at rising heat demand.
PP2 (factory setting)	Highest proportional-pressure curve	The duty point of the pump will move up or down on the highest proportional-pressure curve, depending on the heat demand in the system. See fig. 14. The head (pressure) is reduced at falling heat demand and increased at rising heat demand.
CP1	Lowest constant-pressure curve	The duty point of the pump will move out or in on the lowest constant-pressure curve, depending on the heat demand in the system. See fig. 14. The head (pressure) is kept constant, irrespective of the heat demand.
CP2	Highest constant-pressure curve	The duty point of the pump will move out or in on the highest constant-pressure curve, depending on the heat demand in the system. See fig. 14. The head (pressure) is kept constant, irrespective of the heat demand.
III	Speed III	The pump runs at a constant speed and consequently on a constant curve. In speed III, the pump is set to run on the maximum curve under all operating conditions. See fig. 14. Quick venting of the pump can be obtained by setting the pump to speed III for a short period. See section *10.2 Venting the pump*.
II	Speed II	The pump runs at a constant speed and consequently on a constant curve. In speed II, the pump is set to run on the intermediate curve under all operating conditions. See fig. 14.
I	Speed I	The pump runs at a constant speed and consequently on a constant curve. In speed I, the pump is set to run on the minimum curve under all operating conditions. See fig. 14.

12. Fault finding

Warning

Before starting work on the pump, switch off the power supply. Make sure that the power supply cannot be accidentally switched on.

Fault	Control panel	Cause	Remedy
1. The pump does not run.	Light off.	a) A fuse in the installation is blown.	Replace the fuse.
		b) The current-operated or voltage-operated circuit breaker has tripped out.	Cut in the circuit breaker.
		c) The pump is defective.	Replace the pump.
	"POWER ON" is on only.	a) Power supply failure. The power supply might be too low.	Check that the power supply falls within the specified range.
		b) The pump is blocked.	Remove the impurities.
2. Noise in the system.	Shows normal operating status.	a) Air in the system.	Vent the system. See section *11. Pump settings and pump performance*.
		b) The flow is too high.	Reduce the suction head. See section *11. Pump settings and pump performance*.
3. Noise in the pump.	Shows normal operating status.	a) Air in the pump.	Let the pump run. It vents itself over time. See section *10.2 Venting the pump*.
		b) The inlet pressure is too low.	Increase the inlet pressure or check the air volume in the expansion tank, if installed.
4. Insufficient heat.	Shows normal operating status.	a) The pump performance is too low.	Increase the suction head. See section *11. Pump settings and pump performance*.

13. Technical data and installation dimensions

13.1 Technical data

Supply voltage	1 x 230 V - 10 %/+ 10 %, 50/60 Hz, PE.	
Motor protection	The pump requires no external motor protection.	
Enclosure class	IP42.	
Insulation class	F.	
Relative air humidity	Maximum 95 %.	
System pressure	Maximum 1.0 MPa, 10 bar, 102 m head.	
Inlet pressure	**Liquid temperature**	**Minimum inlet pressure**
	≤ +75 °C	0.05 bar, 0.005 MPa, 0.5 m head
	+90 °C	0.28 bar, 0.028 MPa, 2.8 m head
	+110 °C	1.08 bar, 0.108 MPa, 10.8 m head
EMC	EN 55014-1:2006 and EN 55014-2:1997.	
Sound pressure level	The sound pressure level of the pump is lower than 43 dB(A).	
Ambient temperature	0 to +40 °C.	
Temperature class	TF110 to CEN 335-2-51.	
Surface temperature	The maximum surface temperature will not exceed +125 °C.	
Liquid temperature	+2 to +110 °C.	

To avoid condensation in the control box and stator, the liquid temperature must always be higher than the ambient temperature.

Ambient temperature [°C]	**Liquid temperature**	
	Min. [°C]	**Max. [°C]**
0	2	110
10	10	110
20	20	110
30	30	110
35	35	90
40	40	70

13.2 Installation dimensions, GRUNDFOS ALPHA2 L XX-40, XX-50, XX-60

Dimensional sketches and table of dimensions

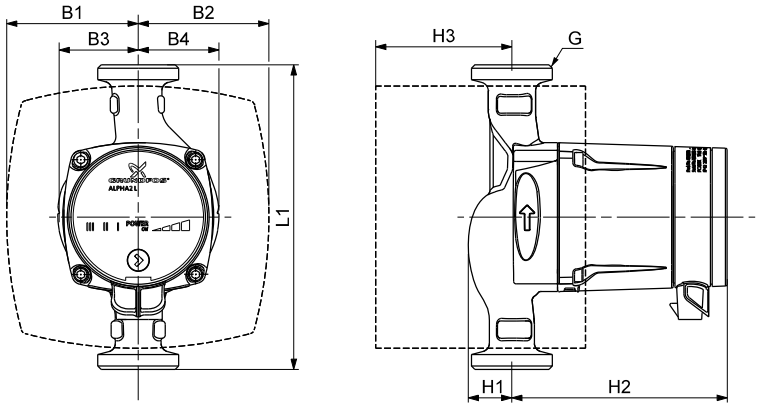

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Fig. 15 Dimensional sketches, ALPHA2 L XX-40, XX-50, XX-60

Pump type	Dimensions								
	L1	B1	B2	B3	B4	H1	H2	H3	G
ALPHA2 L 25-40 180	180	78	78	47	48	26	127	58	1 1/2
ALPHA2 L 32-40 180	180	78	78	47	48	26	127	58	2
ALPHA2 L 15-50 130*	130	78	78	46	49	27	127	58	1 1/2
ALPHA2 L 15-60 130*	130	77	78	46	49	27	129	58	1 1/2
ALPHA2 L 25-60 180	180	78	78	47	48	26	127	58	1 1/2
ALPHA2 L 32-60 180	180	78	77	47	48	26	127	58	2

* For UK only.

14. Performance curves

14.1 Guide to performance curves

Each pump setting has its own performance curve (Q/H curve).

A power curve (P1 curve) belongs to each Q/H curve. The power curve shows the pump power consumption (P1) in Watt at a given Q/H curve.

The P1 value corresponds to the value that can be read from the pump display. See fig. 16:

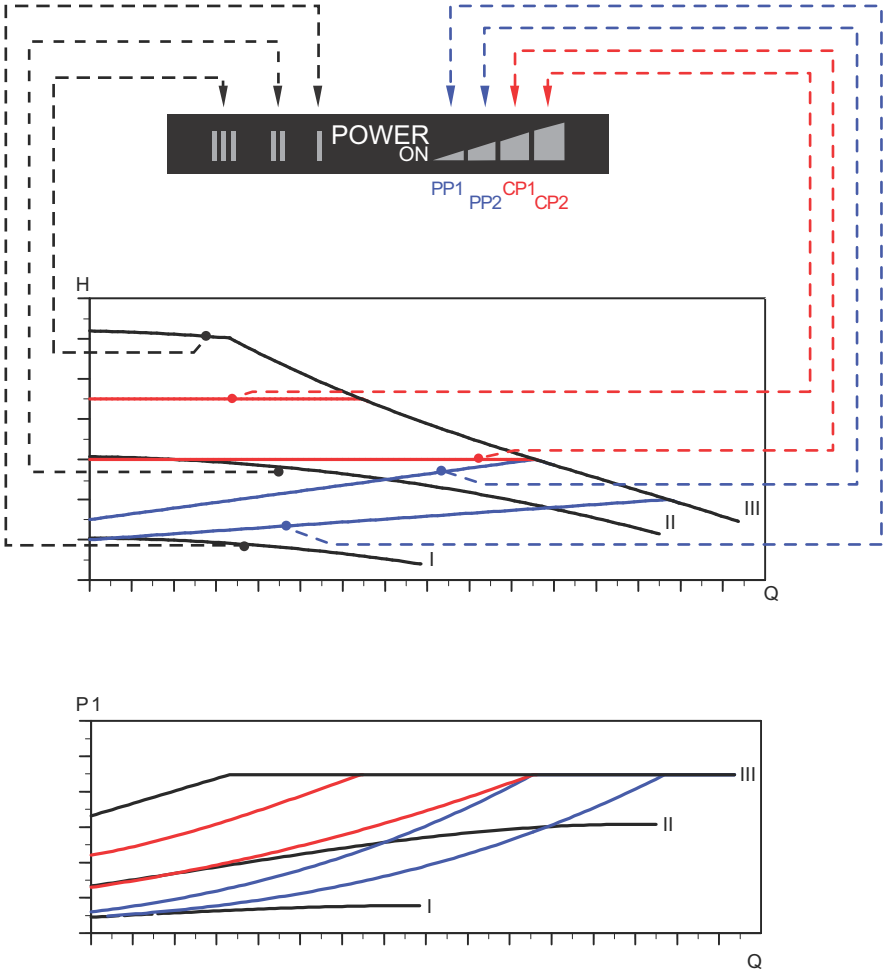

Fig. 16 Performance curves in relation to pump setting

Setting	Pump curve
PP1	Lowest proportional-pressure curve
PP2 (factory setting)	Highest proportional-pressure curve
CP1	Lowest constant-pressure curve
CP2	Highest constant-pressure curve
III	Constant speed, speed III
II	Constant speed, speed II
I	Constant speed, speed I

For further information about pump settings, see sections

7.3 Light fields indicating the pump setting

8. Setting the pump

11. Pump settings and pump performance.

14.2 Curve conditions

The guidelines below apply to the performance curves on the following pages:

- Test liquid: airless water.
- The curves apply to a density of ρ = 983.2 kg/m^3 and a liquid temperature of +60 °C.
- All curves show average values and should not be used as guarantee curves. If a specific minimum performance is required, individual measurements must be made.
- The curves for speeds I, II and III are marked.
- The curves apply to a kinematic viscosity of υ = 0.474 mm^2/s (0.474 cSt).

14.3 Performance curves, ALPHA2 L XX-40

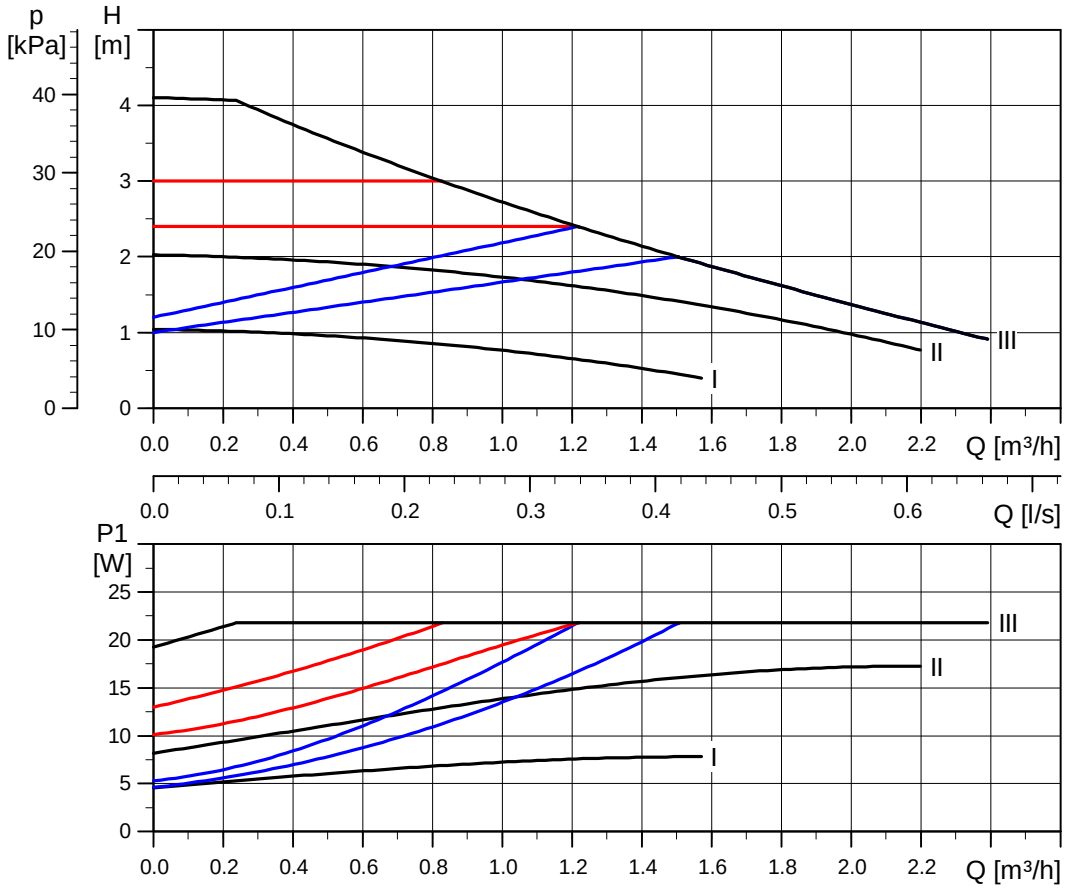

Fig. 17 ALPHA2 L XX-40

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14.4 Performance curves, ALPHA2 L XX-50

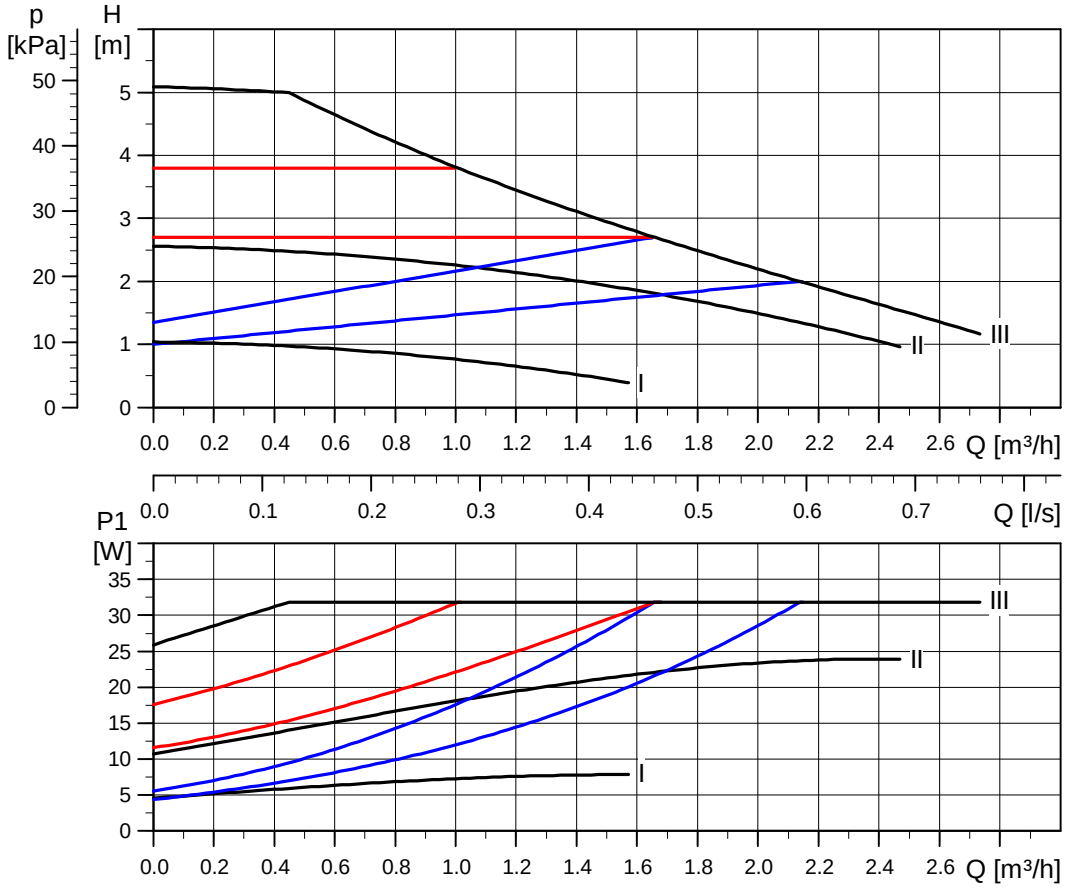

Fig. 18 ALPHA2 L XX-50

TM04 2109 2008

14.5 Performance curves, ALPHA2 L XX-60

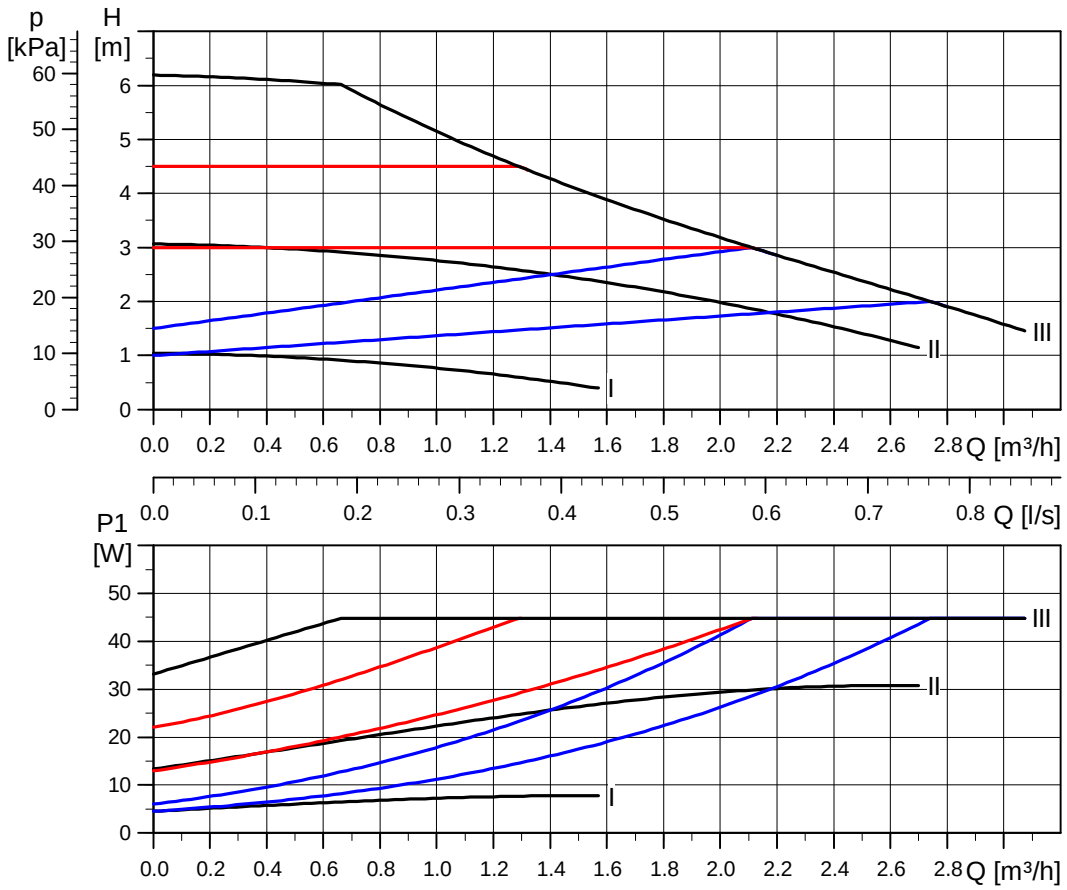

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Fig. 19 ALPHA2 L XX-60

15. Accessories

Accessories for GRUNDFOS ALPHA2 L. See fig. 20.

Accessories include

- fittings (unions and valves)
- insulating kits (insulating shells)
- plug.

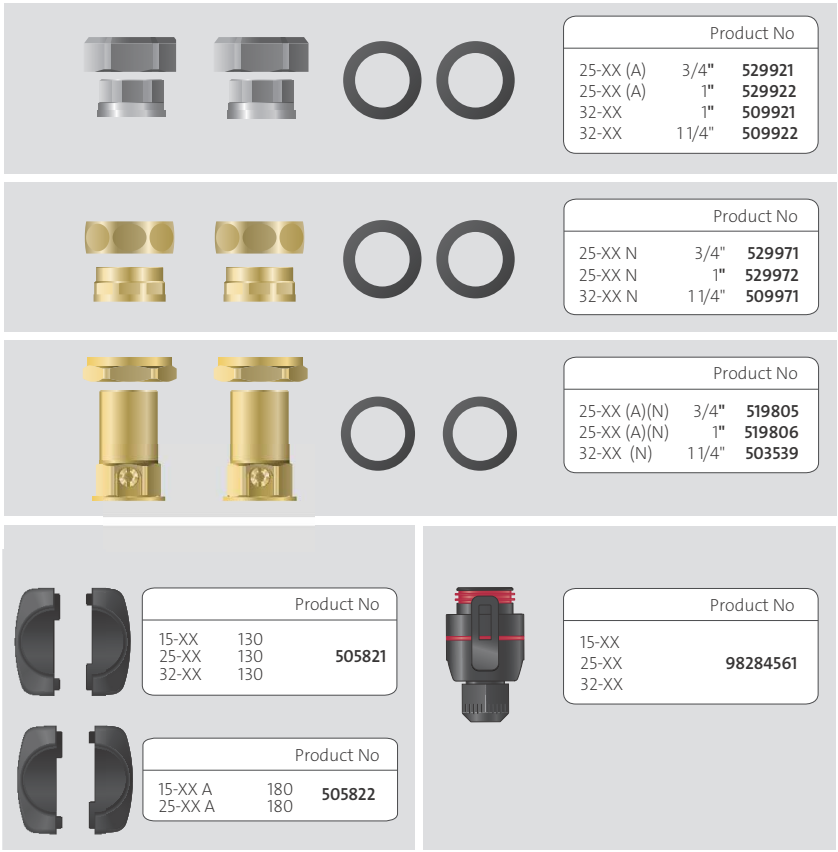

Fig. 20 Accessories

16. Disposal

This product or parts of it must be disposed of in an environmentally sound way:

1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.

Subject to alterations.

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