

GRUNDFOS ALPHA2 L

Ⓒ Installation and operating instructions

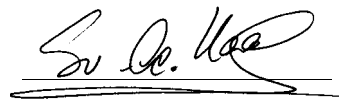


Declaration of Conformity

We **Grundfos** declare under our sole responsibility that the products **GRUNDFOS ALPHA2 L**, to which this declaration relates, are in conformity with the Council Directives on the approximation of the laws of the EC Member States relating to

- Machinery (98/37/EC).
- Electrical equipment designed for use within certain voltage limits (2006/95/EC).
Standards used: EN 60335-1: 2002 and EN 60335-2-51: 2003.
- Electromagnetic compatibility (2004/108/EC).
Standards used: EN 61000-6-2 and EN 61000-6-3.

Bjerringbro, 15th May 2008



Svend Aage Kaae
Technical Director

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Warning

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

1. Symbols used in this document



Warning

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



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

Contents:

[2.1 The GRUNDFOS ALPHA2 L circulator pump](#)

[2.2 Advantages of installing a GRUNDFOS ALPHA2 L.](#)

2.1 The GRUNDFOS ALPHA2 L circulator pump

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

Install the GRUNDFOS ALPHA2 L in

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

GRUNDFOS ALPHA2 L incorporates a permanent-magnet motor and differential-pressure control enabling continuous adjustment of the pump performance to the actual system requirements.

GRUNDFOS ALPHA2 L has a user-friendly front-mounted control panel. See [6. Control panel](#) and [14. Features](#).

2.2 Advantages of installing a GRUNDFOS ALPHA2 L

The installation of a GRUNDFOS ALPHA2 L means

easy installation and start-up

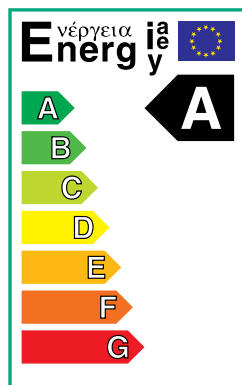
- GRUNDFOS ALPHA2 L is easy to install. With the factory setting, the pump can, in most cases, be started without making any settings.

high degree of comfort

- Minimum noise from valves, etc.

low energy consumption

- Low energy consumption compared to conventional circulator pumps. The GRUNDFOS ALPHA2 L is A-labelled.



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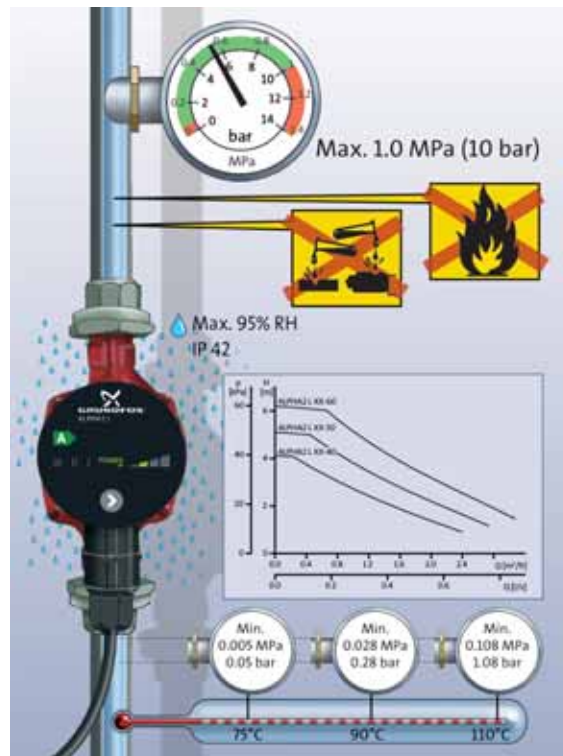
Fig. 1 Energy label, A-labelled

3. Applications

Contents:

- 3.1 System types
- 3.2 Pumped liquids
- 3.3 System pressure
- 3.4 Relative air humidity (RH)
- 3.5 Enclosure class
- 3.6 Inlet pressure.

3.1 System types



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Fig. 2 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**.

3.2 Pumped liquids

Clean, thin, non-aggressive and non-explosive liquids, not containing solid particles, fibres or mineral oil. See fig. 2.

In **heating systems**, the water should meet the requirements of accepted standards on water quality in heating systems, e.g. 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.

3.3 System pressure

Maximum 1.0 MPa (10 bar). See fig. 2.

3.4 Relative air humidity (RH)

Maximum 95 %. See fig. 2.

3.5 Enclosure class

IP 42. See fig. 2.

3.6 Inlet pressure

Minimum inlet pressure in relation to liquid temperature. See fig. 2.

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

4. Installation

Contents:

[4.1 Mounting](#)

[4.2 Control box positions](#)

[4.3 Changing the control box position](#)

[4.4 Insulation of pump housing.](#)

4.1 Mounting

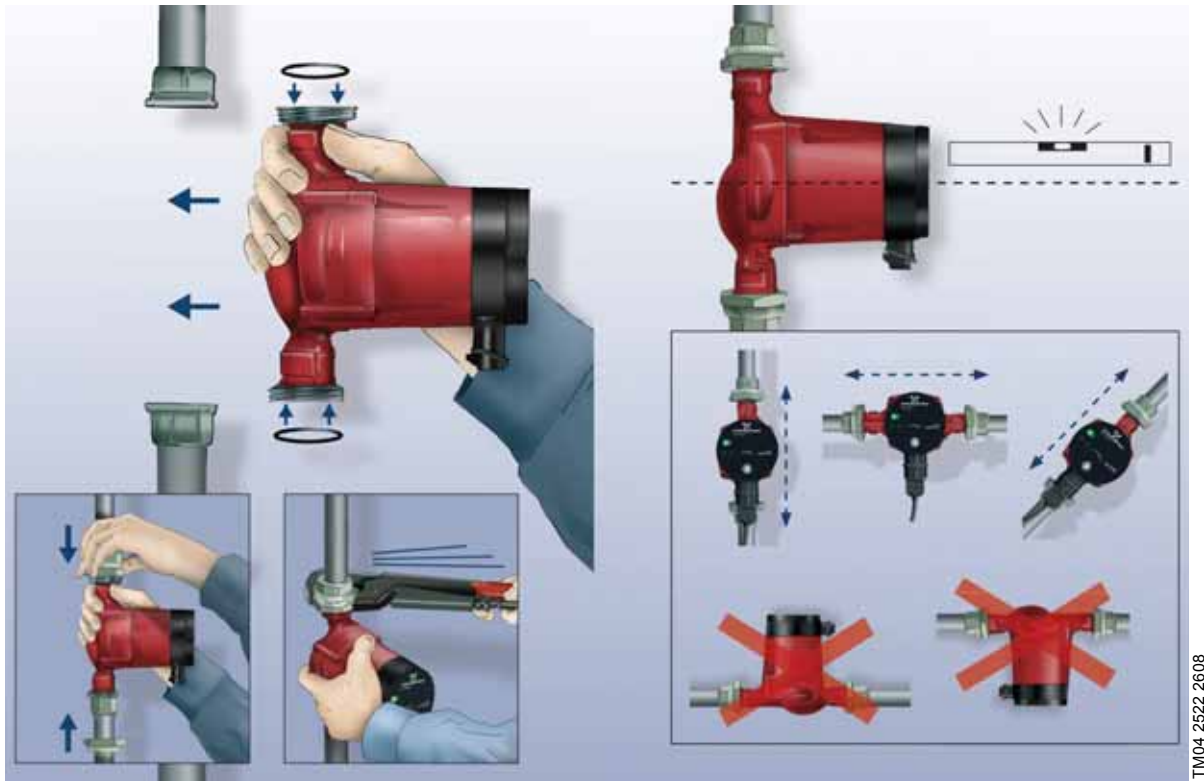


Fig. 3 Mounting the GRUNDFOS ALPHA2 L

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

See [12.2 Installation dimensions – GRUNDFOS ALPHA2 L XX-40, XX-50, XX-60](#).

1. Fit the two gaskets supplied when the pump is mounted in the pipe. See fig. 3, pos. A.
2. Install the pump with the motor shaft horizontal. See fig. 3, pos. B.

4.2 Control box positions

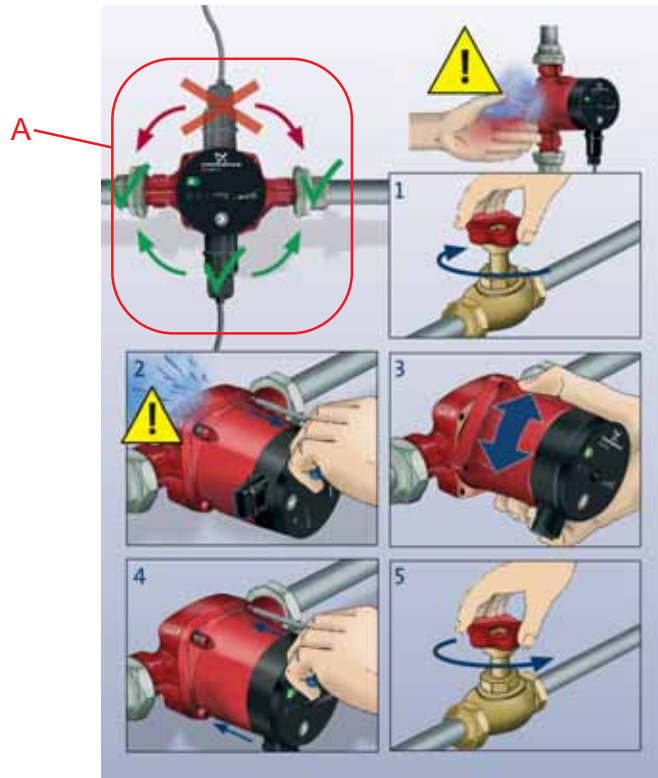


Fig. 4 Control box positions



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.***



***When the position of the control box has been changed, fill the
system with the liquid to be pumped or open the isolating valves.***

4.3 Changing the control box position

The control box can be rotated in steps of 90 °.

Possible/permissible positions and the procedure of changing the position of the control box are illustrated in fig. 4, pos. A.

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.

4.4 Insulation of pump housing



Fig. 5 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. 5.

As an alternative, polystyrene insulation shells can be ordered from Grundfos. See [15. Accessories](#).

Caution

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

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5. Electrical connection

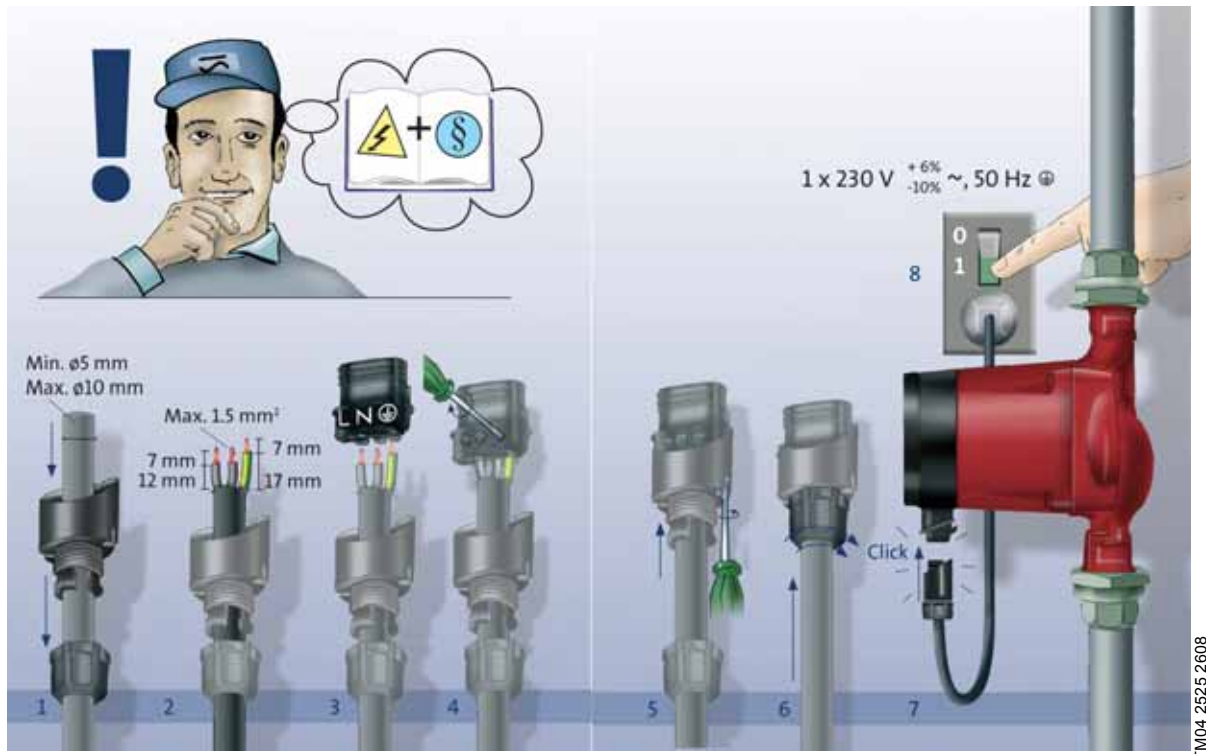


Fig. 6 Electrical connection

The electrical connections and protection must be carried out in accordance with 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 motor requires no external motor protection.
- Check that the supply voltage and frequency correspond to the values stated on the pump. See [14.1 Nameplate](#).
- Connect the pump to the mains with the plug supplied with the pump as shown in fig. 6, steps 1 to 8.
- Light in the control panel shows that the electricity supply has been switched on.

6. Control panel

Contents:

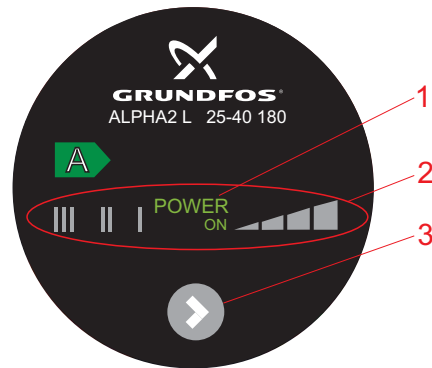
[6.1 Elements on the control panel](#)

[6.2 "POWER ON" indicator light](#)

[6.3 Light fields indicating the pump setting](#)

[6.4 Push-button for selection of pump setting.](#)

6.1 Elements on the control panel



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Fig. 7 GRUNDFOS ALPHA2 L control panel

The control panel on the GRUNDFOS ALPHA2 L comprises:

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

6.2 "POWER ON" indicator light

The "POWER ON" indicator light, see fig. 7, pos. 1, is on when the electricity has been switched on.

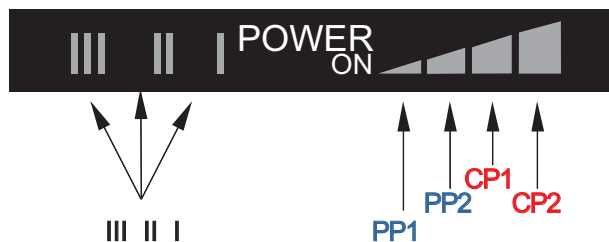
When the "POWER ON" indicator light is on only, a fault preventing the pump from operating properly (e.g. seizing-up) has occurred.

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

6.3 Light fields indicating the pump setting

GRUNDFOS ALPHA2 L has seven optional settings which can be selected with the push-button. See fig. 7, pos. 3.

The pump setting is indicated by seven different light fields. See fig. 8.



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Fig. 8 Seven light fields

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 curve, speed III
4	II	Constant curve, speed II
5	I	Constant curve, speed I
6	PP1	Lowest proportional-pressure curve
7	PP2	Highest proportional-pressure curve

See [10. Pump settings and pump performance](#) for information about the function of the settings.

6.4 Push-button for selection of pump setting

Every time the push-button is pressed, see fig. 7, pos. 3, the pump setting is changed.

A cycle is seven button presses. See [6.3 Light fields indicating the pump setting](#).

7. Setting the pump

Contents:

[7.1 Pump setting for system type](#)

[7.2 Pump control.](#)

7.1 Pump setting for system type

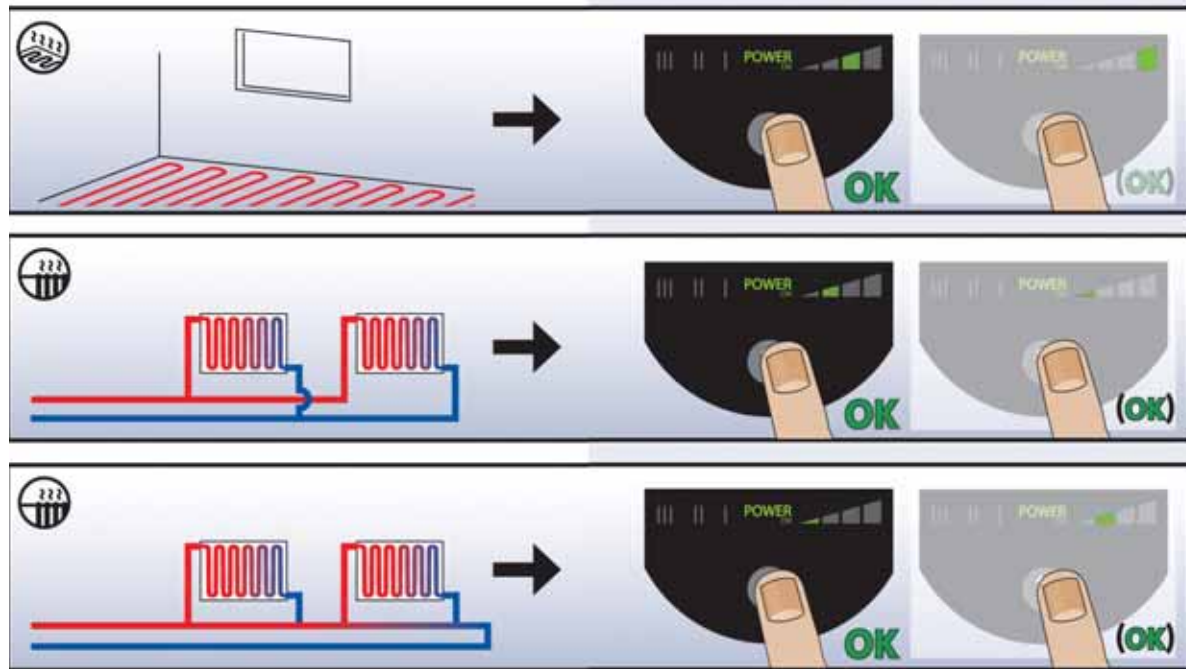


Fig. 9 Selection of pump setting for system type

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

Recommended and alternative pump settings according to fig. 9:

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)*

* See [13.1 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 [10. Pump settings and pump performance.](#)

7.2 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 [10. 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 [10. Pump settings and pump performance](#).

8. Systems with bypass valve between flow and return pipes

Contents:

[8.1 Purpose of bypass valve](#)

[8.2 Manually operated bypass valve](#)

[8.3 Automatic bypass valve \(thermostatically controlled\).](#)

8.1 Purpose of bypass valve

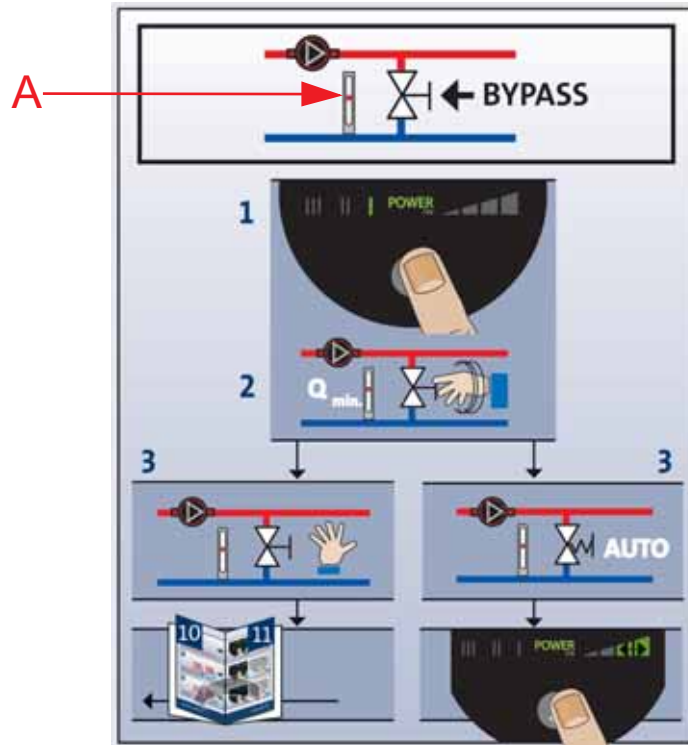


Fig. 10 Systems with bypass valve

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.

8.2 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 [7. Setting the pump.](#)

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8.3 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 [10. Pump settings and pump performance](#).

9. Start-up

Contents:

[9.1 Before start-up](#)

[9.2 Venting the pump](#)

[9.3 Venting of heating systems.](#)

9.1 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 [3. Applications](#) and [12. Technical data and installation dimensions](#).

9.2 Venting the pump



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Fig. 11 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 ceases 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 [7. Setting the pump](#).

Caution *The pump must not run dry.*

The system cannot be vented through the pump. See [9.3 Venting of heating systems](#).

9.3 Venting of heating systems



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Fig. 12 Venting of heating systems

The heating system can be vented via an air escape valve installed above the pump (1).

In heating systems that often contain much air, Grundfos recommends the installation of pumps with pump housing with air separator, i.e. ALPHA2 pumps, type ALPHA2 XX-XX A.

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 [7. Setting the pump](#).

Repeat the procedure, if necessary.

Caution *The pump must not run dry.*

10. Pump settings and pump performance

Contents:

[10.1 Relation between pump setting and pump performance.](#)

10.1 Relation between pump setting and pump performance

Figure 13 shows the relation between pump setting and pump performance by means of curves. See also [13. Performance curves.](#)

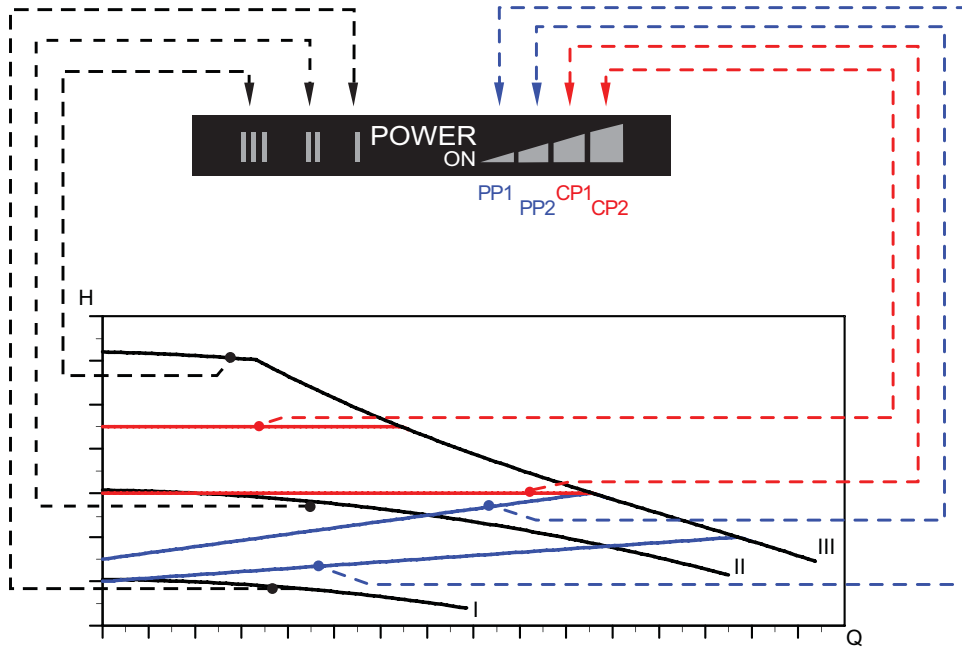


Fig. 13 Pump setting in relation to pump performance

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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, see fig. 13, depending on the heating demand. The head (pressure) is reduced at falling heating demand and increased at rising heating 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, see fig. 13, depending on the heating demand. The head (pressure) is reduced at falling heating demand and increased at rising heating demand.
CP1	Lowest constant-pressure curve	The duty point of the pump will move out or in on the lowest constant-pressure curve, see fig. 13, depending on the heating demand in the system. The head (pressure) is kept constant, irrespective of the heating demand.
CP2	Highest constant-pressure curve	The duty point of the pump will move out or in on the highest constant-pressure curve, see fig. 13, depending on the heating demand in the system. The head (pressure) is kept constant, irrespective of the heating demand.
III	Speed III	ALPHA2 L runs at a constant speed and consequently on a constant curve. In speed III, the pump is set to run on the max. curve under all operating conditions. See fig. 13. Quick venting of the pump can be obtained by setting the pump to speed III for a short period. See 9.2 Venting the pump.

Setting	Pump curve	Function
II	Speed II	ALPHA2 L runs at a constant speed and consequently on a constant curve. In speed II, the pump is set to run on the medium curve under all operating conditions. See fig. 13.
I	Speed I	ALPHA2 L runs at a constant speed and consequently on a constant curve. In speed I, the pump is set to run on the min. curve under all operating conditions. See fig. 13.

11. Fault finding chart



Warning

Before starting any work on the pump, make sure that the electricity supply has been switched off and that it cannot be accidentally switched on.

Fault	Control panel	Cause	Remedy
1. The pump does not run.	Light off.	a) One 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.
2. Noise in the system.	"POWER ON" is on only.	a) Electricity supply failure. Might be too low.	Check that the electricity supply falls within the specified range.
		b) The pump is blocked.	Remove the impurities.
3. Noise in the pump.	"POWER ON" and the light field for pump setting are on.	a) Air in the system.	Vent the system. See 9.3 Venting of heating systems .
		b) The flow is too high.	Reduce the suction head. See 10. Pump settings and pump performance .
4. Insufficient heat.	"POWER ON" and the light field for pump setting are on.	a) Air in the pump.	Let the pump run. It vents itself over time. See 9.2 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.
5. Insufficient heat.	"POWER ON" and the light field for pump setting are on.	a) The pump performance is too low.	Increase the suction head. See 10. Pump settings and pump performance .

12. Technical data and installation dimensions

Contents:

[12.1 Technical data](#)

[12.2 Installation dimensions – GRUNDFOS ALPHA2 L XX-40, XX-50, XX-60.](#)

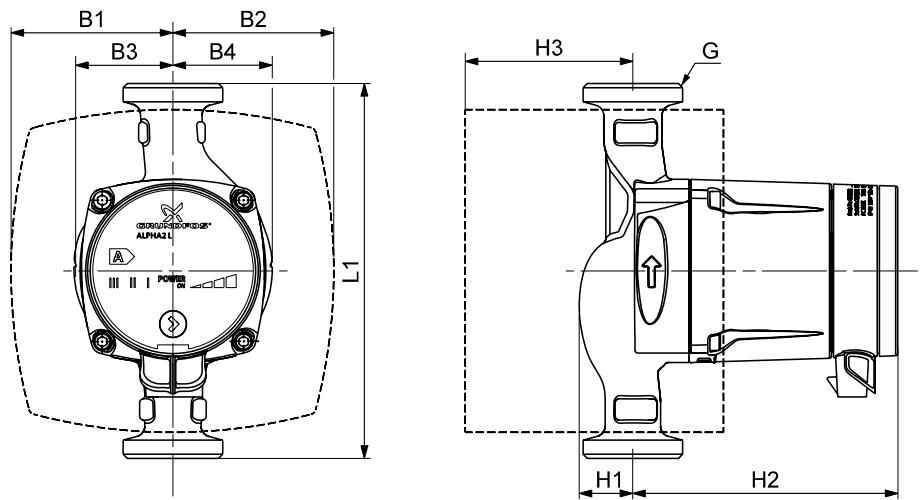
12.1 Technical data

Supply voltage	1 x 230 V – 10 %/+ 6 %, 50 Hz, PE	
Motor protection	The pump requires no external motor protection.	
Enclosure class	IP 42	
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 61000-6-2 and EN 61000-6-3	
Sound pressure level	The sound pressure level of the pump is lower than 43 dB(A).	
Ambient temperature	0 °C 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 °C 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

12.2 Installation dimensions – GRUNDFOS ALPHA2 L XX-40, XX-50, XX-60



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Fig. 14 Dimensional sketches, ALPHA2 L XX-40, XX-50, XX-60

Pump type	Dimensions								
	L1	B1	B2	B3	B4	H1	H2	H3	G
ALPHA2 L 15-40 130	130	77	78	46	49	27	129	79	1
ALPHA2 L 15-50 130*	130	77	78	46	49	27	129	79	1 1/2
ALPHA2 L 25-40 130	130	77	78	46	49	27	129	79	1 1/2
ALPHA2 L 25-40 180	180	78	77	47	48	26	127	81	1 1/2
ALPHA2 L 32-40 180	180	78	77	47	48	26	127	81	2
ALPHA2 L 15-60 130	130	77	78	46	49	27	129	79	1**
ALPHA2 L 25-60 130	130	77	78	46	49	27	129	79	1 1/2
ALPHA2 L 25-60 180	180	78	77	47	48	26	127	81	1 1/2
ALPHA2 L 32-60 180	180	78	77	47	48	26	127	81	2

*) For the UK market only. **) For UK 1 1/2.

13. Performance curves

Contents:

13.1 Guide to performance curves

13.2 Curve conditions

13.3 Performance curves, ALPHA2 L XX-40

13.4 Performance curves, ALPHA2 L XX-50

13.5 Performance curves, ALPHA2 L XX-60.

13.1 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. 15:

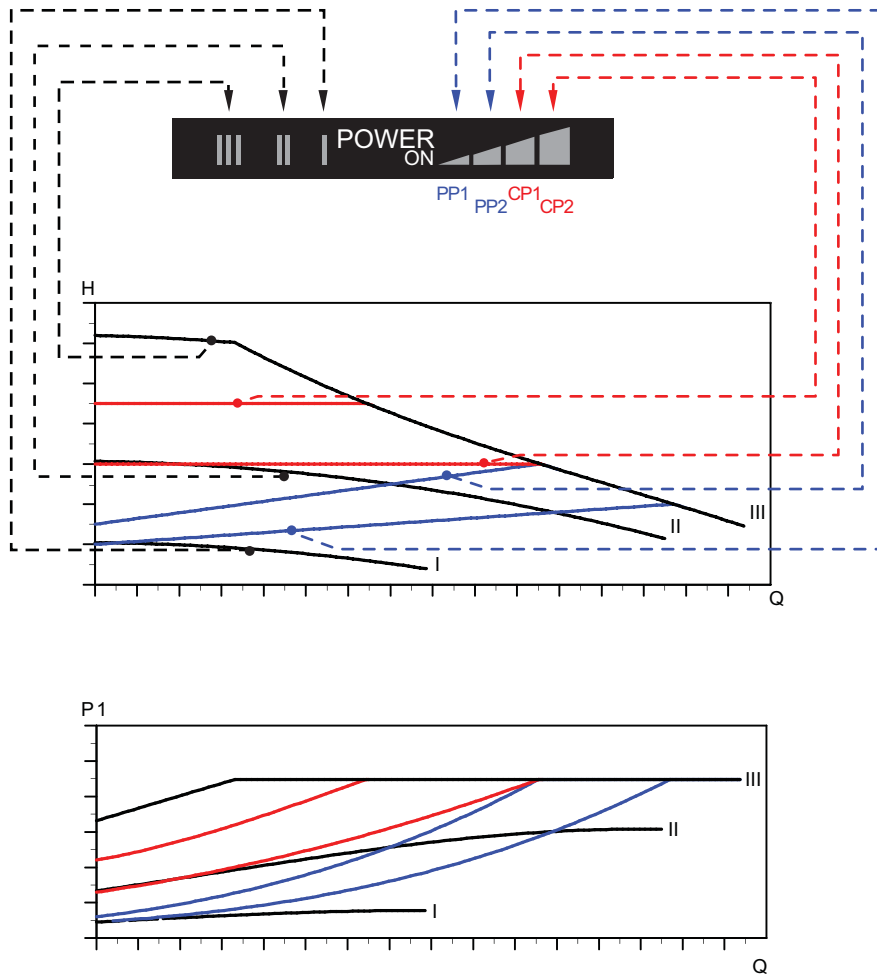


Fig. 15 Performance curves in relation to pump setting

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

[6.3 Light fields indicating the pump setting](#)

[7. Setting the pump](#)

[10. Pump settings and pump performance.](#)

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13.2 Curve conditions

The guidelines below apply to the curves on the next pages:

- Test liquid: Airless water.
- The curves apply to a density of $\rho = 983.2 \text{ kg/m}^3$ and a liquid temperature of $+60 \text{ }^\circ\text{C}$.
- 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 $\nu = 0.474 \text{ mm}^2/\text{s}$ (0.474 cSt).

13.3 Performance curves, ALPHA2 L XX-40

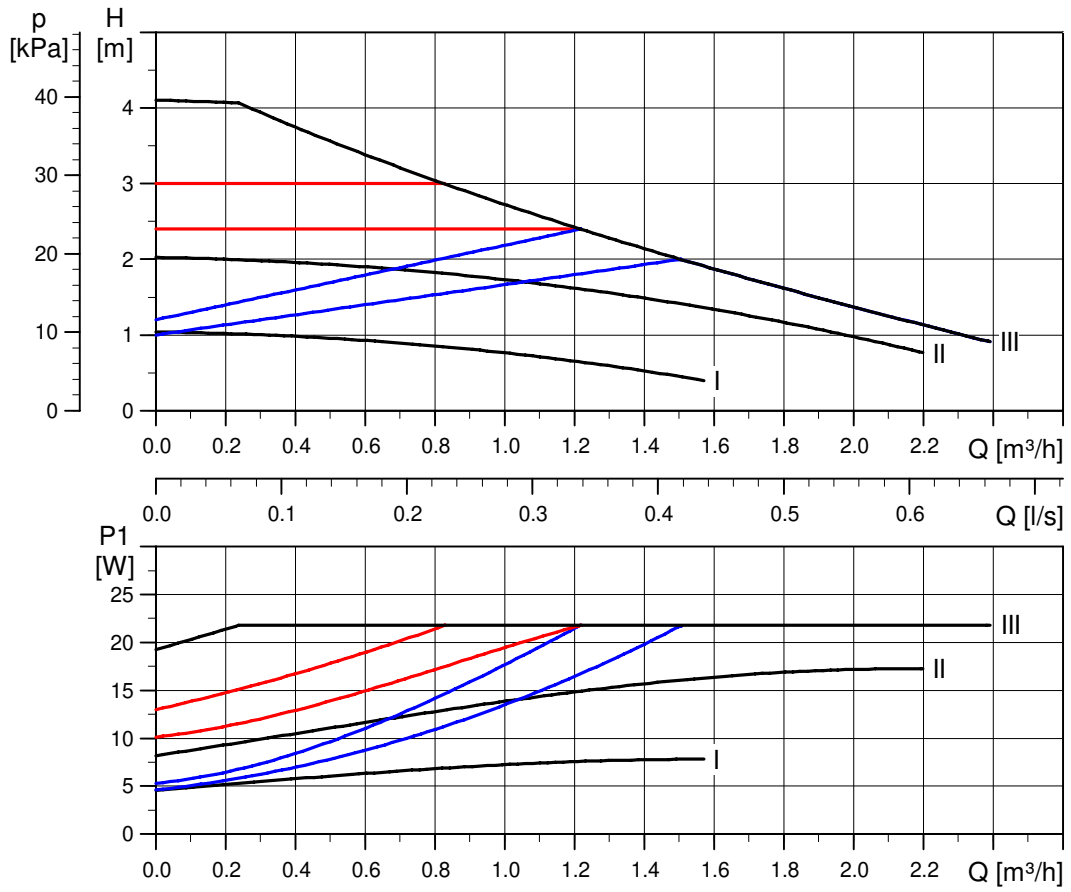


Fig. 16 Performance curves, ALPHA2 L XX-40

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13.4 Performance curves, ALPHA2 L XX-50

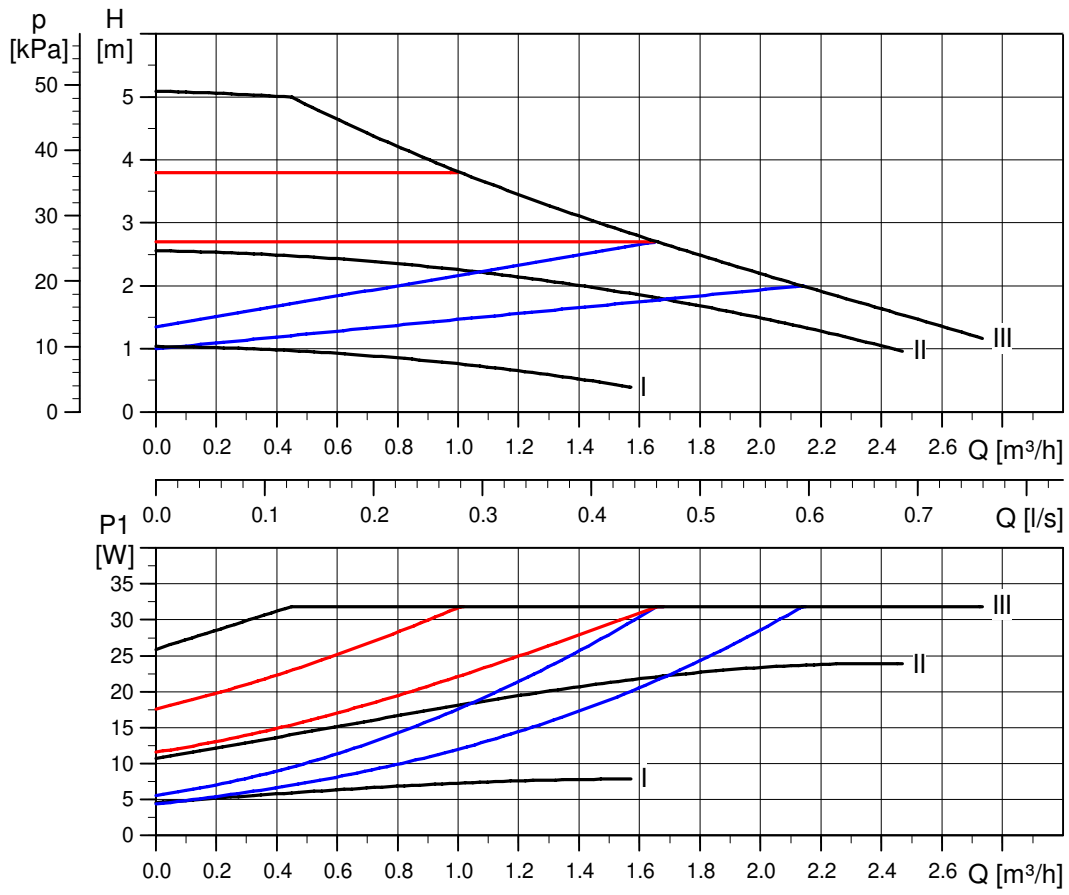


Fig. 17 Performance curves, ALPHA2 L XX-50

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13.5 Performance curves, ALPHA2 L XX-60

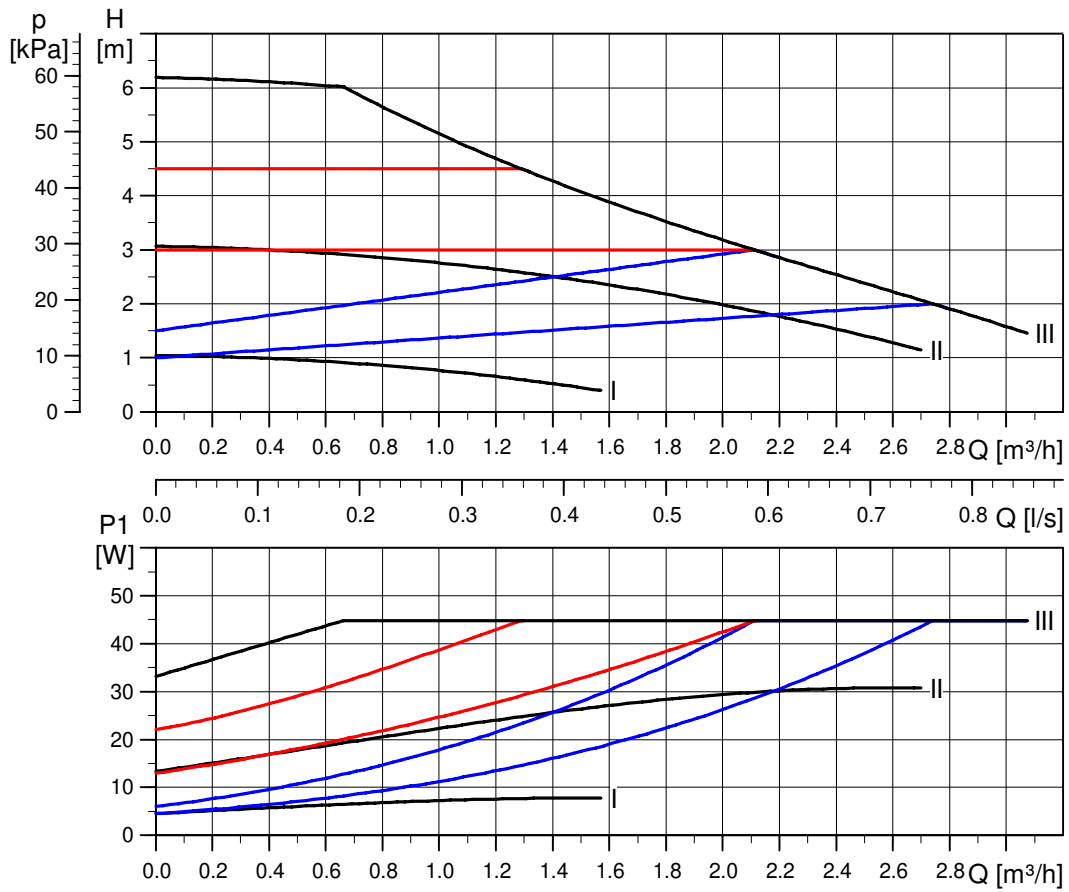


Fig. 18 Performance curves, ALPHA2 L XX-60

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14. Features

Contents:

[14.1 Nameplate](#)

[14.2 Type key.](#)

14.1 Nameplate

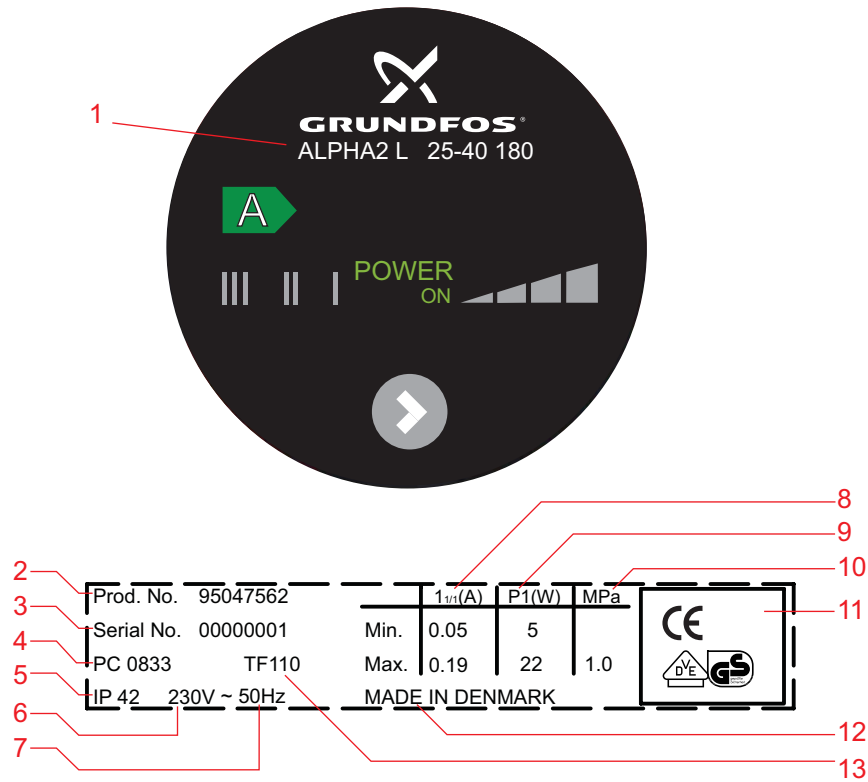


Fig. 19 Nameplate, GRUNDFOS ALPHA2 L

Pos.	Description	Pos.	Description
1	Pump type	8	Rated current [A]: • Min.: Minimum current [A] • Max.: Maximum current [A]
2	Product number	9	Input power P_1 [W]: • Min.: Minimum input power P_1 [W] • Max.: Maximum input power P_1 [W]
3	Serial number	10	Maximum system pressure [MPa]
4	Production code • 1st and 2nd figures = year • 3rd and 4th figures = week	11	CE mark and approvals
5	Enclosure class	12	Country of origin
6	Voltage [V]	13	Temperature class
7	Frequency [Hz]		

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14.2 Type key

Example	ALPHA2 L	25	-40	180
Pump type				
Nominal diameter (DN) of suction and discharge ports [mm]				
Maximum head [dm]				
Port-to-port length [mm]				

15. Accessories



Fig. 20 Accessories

Accessories for GRUNDFOS ALPHA2 L. See fig. 20.

Accessories include

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

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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.

Argentina

Bombas GRUNDFOS de Argentina S.A.
Ruta Panamericana km. 37.500 Lote
34A
1619 - Garin
Pcia. de Buenos Aires
Phone: +54-3327 414 444
Telefax: +54-3327 411 111

Australia

GRUNDFOS Pumps Pty. Ltd.
P.O. Box 2040
Regency Park
South Australia 5942
Phone: +61-8-8461-4611
Telefax: +61-8-8340 0155

Austria

GRUNDFOS Pumpen Vertrieb
Ges.m.b.H.
Grundfosstraße 2
A-5082 Grödig/Salzburg
Tel.: +43-6246-883-0
Telefax: +43-6246-883-30

Belgium

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