ALPHA2 HYDRONIC BALANCING MADE EASY – YOUR LIFE MADE EASIER

GRUNDFOS X

THE **NEW ALPHA2** REDEFINES WHAT A SMALL DOMESTIC CIRCULATOR CAN DO. THE BUILT-IN ONE-WAY COMMUNICATION CAPABILITIES OF THE NEW ALPHA2 MEANS **QUICK AND EASY HYDRONIC BALANCING** OF RADIATORS AT HOME. THIS BENEFITS INSTALLERS AND HOMEOWNERS ALIKE AND CAN GENERATE SIGNIFICANT SAVINGS ON THE HEATING BILL.

The ALPHA Reader is an add-on to the new ALPHA2 that uses a light sensor to read out data communication from the pump for sending to a smartphone or tablet.

With the Grundfos GO Balance app installed, you get real time calculations of the flow required through your radiator and underfloor heating systems. The user is guided step-by-step through the whole process for hydronic balancing of all radiators and underfloor heating zones in the home. In addition, ALPHA2 offers lasting reliability without blockages even in the toughest systems and best-in-class efficiency.*

In addition, the ALPHA2 offers you:

- No blockage smooth operation reduces the need for emergency service visits
- No dry-running built-in active protection ensures the pump only runs when there's water in the pump housing, for long pump life and extreme reliability
- Self-adjustable AUTOADAPT automatically finds the best pump setting to maximise both comfort and efficiency
- Market-leading efficiency most energy efficient circulator in its class according to VDE*

*The test has been commissioned by and paid for by Grundfos Holding A/S. Test results can be found on http://www.grundfos.com/products/find-product/ALPHA2.html#brochure



m³/h

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ALPHA2 IN MORE DETAIL

Resistant to corrosion and condensation Cataphoresis surface coating and improved condensation ability allow the ALPHA2 to pump media down to



Robust start-up

Even after longer standstills the pump will resume activity effortlessly. In case of pump will vibrate on start-up and break up any dirt deposits.

Magnetite resistance Ceramic shaft ensures resistance to magnetic particles in the pumped liquid to prevent deposits in critical areas of



the pump.

Unrivalled energy efficiency

According to VDE tests the ALPHA2 is the most energy efficient circulator on the market – thanks to advanced motor and hydraulics.

Summer mode

Allows the ALPHA2 run optimally during summer to protect the pump and system . components.

AUTOADAPT

functionality The intelligent AUTOADAPT functionality automatically selects the best duty point for a 2-string radiator system to facilitate commissioning.

ALPHA Reader

The ALPHA Reader is an add-on to the new ALPHA2 that uses a light sensor to read out data communication from the pump for sending to a smartphone or tablet.

Range					
Housing	Port-to-port	Performance range			
Material	dimension mm	4 meter	5 meter	6 meter	8 meter
Cast iron	130	х	х	х	
Cast IIOII	180	х	х	х	х
Stainless	130	х	х	х	
steel	180	х	х	х	х
Airvent cast iron	130	х	х	х	
	180	х	х	х	

Easy installation

The ALPHA plug makes installation quick and easy, just as the insulation shells, minimising heat loss, are easily mounted.

Technical data	
Flow rate, Q _{max} :	3.8 m³/h
Pumped Liquid Temperature:	+2°C - +110°C
Sound Pressure Level:	≤43 dB(A)
Ambient temperature:	0°C to +40°C
Enenrgy Efficiency Index:	EEI≤0.15 (4 meter pump)

Available in all thread sizes. Contact local wholesaler for specialty pumps.

Install the GO Balance app

Easy installation

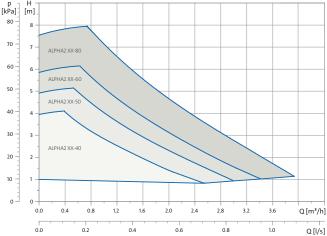
Install the Grundfos GO Balance app installed on your phone or tablet and get access to full hydronic balancing with data from Grundfos ALPHA2 pumps.

Grundfos GO Balance is the only mobile platform for hydronic balancing on the market and is designed to save valuable time on hydronic balancing, reporting.





Performance curve



GRUNDFOS

GRUNDFOS Holding A/S Poul Due Jensens Vej 7 DK-8850 Bjerringbro Tel: +45 87 50 14 00 www.grundfos.com

NEW ALPHA2

Redefining reliability and efficiency Full range of Professional Class circulator pumps for heating, air-conditioning and cooling

GRUNDFO ALPHA2



be think innovate

MORE RELIABLE. MORE EFFICIENT

Solid innovation

The new ALPHA2 is a groundbreaking new pump – but it is based on the world-famous Grundfos reliability. With 60 years of experience and than 3 million ALPHA2 pumps in the field, we are in a unique position to continue a proud history of high-quality products that exceed legislative standards and customer expectations. The new ALPHA2 uses proven technology from previous models and has been fine-tuned from the outside in to offer supreme reliability in a high-efficiency circulator pump.

Anti-corrosive pump housing

Cataphoresis surface treatment of the pump housing is standard with the new ALPHA2. This provides the ultimate corrosion-resistance and makes the new ALPHA2 fit for real cold water applications.

Ceramic shaft and bearings

The ceramic shaft and bearings in the new ALPHA2 minimize friction and are guaranteed to increase the pump's service life.

Efficiency from the future

Grundfos supports and encourages strict legislative demands for pump efficiency as part of our ongoing work to decrease energy bills and increase sustainability. And we are proud to say that the new ALPHA2 – like its predecessors – is way ahead of its time.

The EuP legislation requires all circulator pumps to have an Energy Efficiency Index (EEI) below 0.23 in 2015. The new ALPHA2 is way ahead of these common standards, which is why it has earned its place in the Grundfos Blueflux® family of highly energy efficient products.

Energy savings

With improved neodymium magnet motor technology and advanced hydraulics, the new ALPHA2 includes an EEI of just 0.15 and provides energy savings and comfort levels straight from the future.

Grundfos Blueflux® is your guarantee

The Grundfos Blueflux[®] label is your guarantee that the new ALPHA2 is equipped with the most energy-efficient motor currently available in the well-known high Grundfos reliability and high degree of recyclability.





NEW ALPHA2 DOES IT ALL

THE NEW ALPHA2 IS NOT JUST MORE EFFICIENT AND RELIABLE THAN EVER BEFORE – IT IS ALSO MORE VERSATILE

We have made a few crucial design changes that allow you to use the new ALPHA2 in cooling applications with pumped liquid temperatures down to $+2^{\circ}$ C.

This means that the new ALPHA2 will not only cover your heating demands, but also up to 90% of your airconditioning and cooling demands. So from now on, it makes no difference whether you are looking for the perfect heating or cooling circulator. They are both the same – new ALPHA2.

The simple choice

The ALPHA pump range has always been one of the easiest pump ranges to work with – and with the new ALPHA2 everything is even easier:

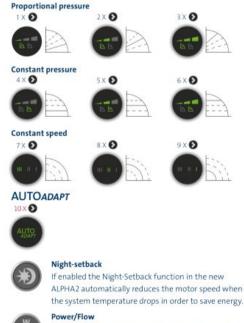
- Better performance with market leading efficiency
- (EEI≤0.15) in a more compact designNew flow meter just for information, trouble
- AUTOADAPT selects best regulation curve for efficiency and comfort
- Innovative plug simplifies pump connection
- Insulation shells included

MORE USER FRIENDLY

Use the intuitive display to select one of the four ALPHA2 control modes: Constant pressure, proportional pressure, constant speed and the factory setting: AUTOADAPT. Each control mode has three variants, giving you a total of 10 control mode settings to choose from for maximum flexibility and energy-efficiency. We still recommend leaving the pump in autoadapt for 80% of the system configurations.

Easy operation

Intuitive one-touch operation makes selecting any control mode simple. Settings are automatically remembered.









NEW ALPHA2 - MORE OF EVERYTHING

The new ALPHA2 gives you all the benefits of the renowned Grundfos ALPHA pump – reliability, efficiency, simplicity etc. – but we have fine-tuned the pump to give you more of everything.

The exploded view shows all the new ALPHA2 features and improvements compared to previous ALPHA models. Every new feature provides a new unique benefit to the user of the pump.

technology used in other Grundfos products has been adapted to the new ALPHA2.

Ceramic bearings

New motor design

Compact design

The new ALPHA2 gives you the performance you are used to in a more compact

design that will fit into even tighter working

The new ALPHA2 motor has been redesigned in order to increase electrical efficiency even further.



The intelligent AUTOADAPT control mode automatically adjusts to system demands and selects the best proportional pressure pump

The default AUTOADAPT setting is the best choice for 80% of all systems.

Resistant to corrosion and condensation

With cataphoresis surface coating and improved condensation resistance, the new ALPHA2 will pump media down to +2°C at any ambient temperature and humidity.

Insulation shells

Insulation shells are now standard, which eases installation and decreases installation costs.

Improved hydraulics

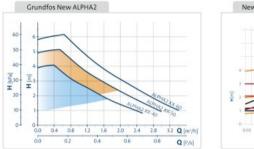
New and advanced hydraulics transforms motor rotation into water flow more efficiently. This improves the pump's overall EEI.

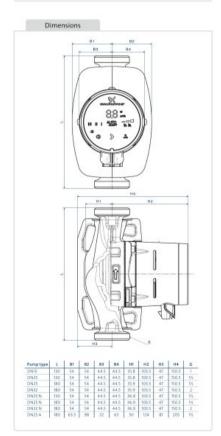
Built-in flow meter

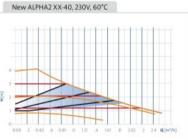
makes heating system trouble-shooting and balancing much easier.

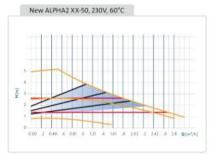
New plug design

The redesigned new ALPHA2 plug ensures even quicker and easier installation.

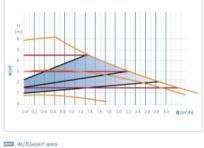








New ALPHA2 XX-60, 230V, 60°C



- Constant pressure (CP) curves
- Proportional pressure (PP) curves
- Fixed speed 1-2-3

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Technical data			
Supply voltage:	1x230V+/-10% Frequency: 50/60 Hz	Low Voltage Directive	Standard used: EN 60335-2-51: 2003
Enclosure class:	IPX4D	(2006/95/EC):	211003352 5112005
Insulation class:	F	EMC Directive	Standard used: EN 55014-1: 2006 and
Relatively humidity:	Max. 95%	(2004/108/EC):	EN55014-2: 1997
Ambient temperature:	0°C to +40°C	Ecodesign Directive	Standard used: EN 16297-1: 2012 and
Liquid temperature:	+2°C to +110°C	(2009/125/EC):	EN 16297-2:2012
Temperature class:	TF 110 in relation to CEN 335-2-51	Sound pressure level:	Lower than 43dB(A)
System pressure:	Max. 1.0 MPa, 10 bar, 102 mVS.	Input power:	Min 3W, Max 22-34W
Inlet pressure:	+75°C 0,005 MPa, 0.05 bar, 0.5 mV5 +90°C 0,028 MPa, 0.28 bar, 2.8 mV5 +110°C 0,108 MPa, 1.08 bar, 10.8 mV5	Built in heights:	130, 180 mm
		Pump housing materials:	Cast iron / Stainless steel

HOUSE m ²	Radiator system Δt 20° m³/h	Pump type	Floor heating	Pump type
80-120	0.4	New ALPHA2 XX-40 UK: New ALPHA2 XX-50	1.5	New ALPHA2 XX-40 UK: New ALPHA2 XX-50
120-160	0.5	New ALPHA2 XX-60 UK: New ALPHA2 XX-50	2.5	New ALPHA2 XX-60 UK: New ALPHA2 XX-50
160-200	0.6	New ALPHA2 XX-60	2.5	New ALPHA2 XX-60

		Pump type	
	New ALPHA2		
Application	New ALPHA2	New ALPHA2 N	Airvent
One-pipe systems	X		х
Two-pipe systems	×		x
Under-floor heating	×	×	x
Hot water recirculation		x	
Solar thermal systems	X	×	x
Boilers with external pump	×		X