
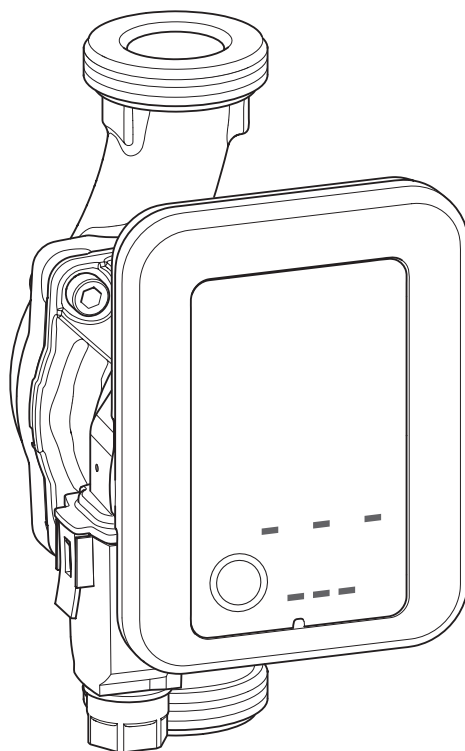


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IT IS FOR INFORMATION ONLY**

**PLEASE NOTE THAT “SAFETY” AND “ASSEMBLY”
MANUALS SHALL BE PRINTED SEPARATELY**



SEPARATIONS	JOB INFO				
	PID #: 216069_s1_s1 Agency Job #: Product Description: Central Heating Pump		Brand: Flomasta Brand Contact: Stephanie Rankin Barcode: 5059340241562 Vendor: Wilo No. of New Line Drawings: 0 Page Size: A5 / No. of Pages:		
	VERSION #				
	1 17/06/21 Vjay	2 25/06/21 Wilson	3 08/07/21 Manisha	4 XX/XX/21 XXXX	5 XX/XX/21 XXXX
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EN

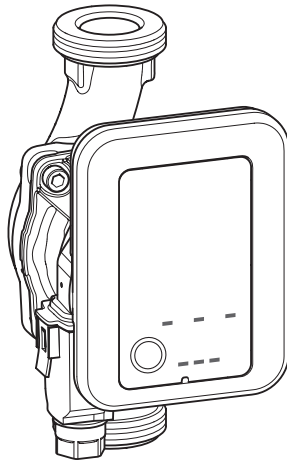
IMPORTANT - These instructions are for your safety. Please read through them thoroughly prior to installation and retain them for future reference.



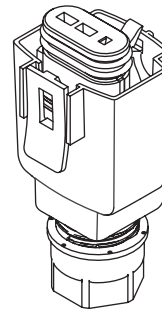
5 mm



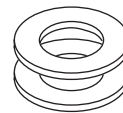
0.6 mm x 3.5 mm



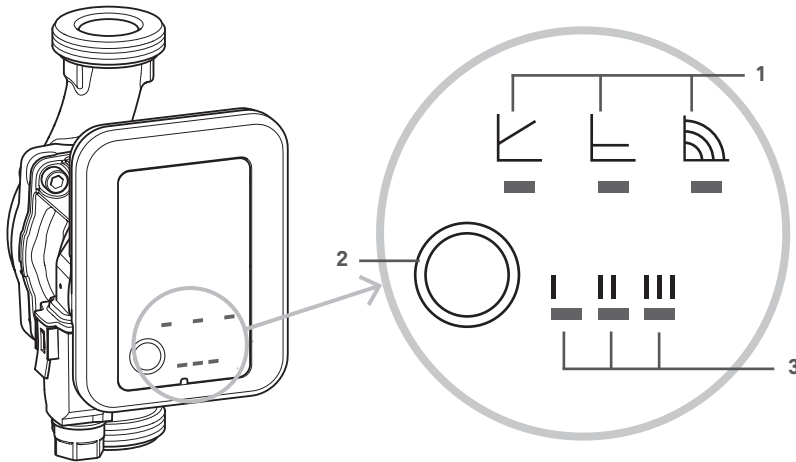
[01] x 1



[02] x 1



[03] x 1



1. Control mode 2. Operating button 3. Characteristic curve

The pump consists of a hydraulic system, a glandless motor with a permanent magnet rotor, and an electronic control module with integrated frequency converter.

The control module contains an operating button and LEDs for setting and displaying all parameters.



Before you start

- Read these instructions through completely before installation.
- Not following these instructions can result in injury to persons or damage to the pump.
- Once installation work is complete, pass the instructions on to the end user.
- Keep the instructions near the pump. They can be used for reference if problems occur later.
- No liability will be accepted for damages resulting from failure to follow these instructions.
- Unpack and check the pump and all accessories upon receipt. Report any damage sustained in transit immediately.
- Only ship the pump in its original packaging.
- The pump is to be protected from moisture, frost, and mechanical damage and must not be exposed to temperatures outside the range of -10 °C to + 50 °C.

Safety

- The pump may only be installed by qualified personnel. The electrical connection may only be established by a qualified electrician.
- This device can be used by children from 8 years old as well as by persons with limited physical, sensory, or mental capabilities or lack of experience and knowledge provided they are supervised or have been instructed in the safe use of the device and understand the dangers that may arise. Children must not be not allowed to play with the device. Cleaning and maintenance by the user must not be carried out by children without supervision.

Regulations

The current versions of the following regulations must be observed during installation:

- Accident prevention regulations
- VDE 0700 / Part 1 (EN 60335-1)
- Other local regulations (e.g. IEC, VDE)

Conversion and spare parts

Unauthorised modification and manufacture of spare parts will impair the safety of the product/personnel and void the manufacturer's declarations regarding safety.

- The pump must not be technically modified or converted.
- Opening the pump motor by removing the plastic lid is not permitted.
- Only use original spare parts.

Electrical current

There is a danger of electric shock when working with electrical current. For this reason:

- Switch off the power before beginning work on the pump, confirm that the system is voltage-free, and ensure that it cannot be switched on again accidentally.
- Do not kink or pinch the power cable or allow it to come into contact with sources of heat.
- Never open the control module and never remove operating elements.
- The pump is protected against drips in accordance with IP protection class (see rating plate). Protect the pump from water spray. Do not immerse in water or other fluids.
- The connection must be secured by means of a residualcurrent device (RCD).



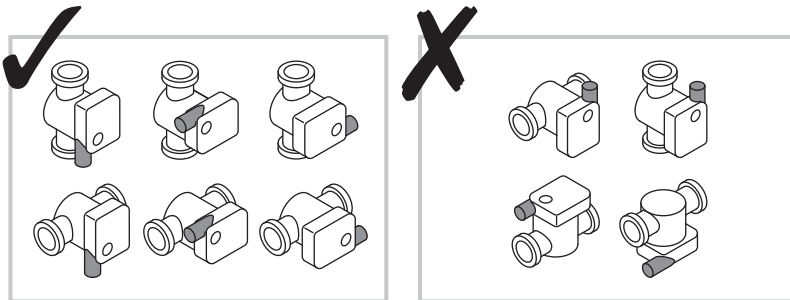
DANGER: Before starting work, make sure that the pump is disconnected from the power supply.

- Provide a weather-proof, frost-free, dust-free, and wellventilated room for the installation.
- Choose an easily accessible installation site.
- Prepare the installation site so that the pump can be installed without being subjected to mechanical stresses. If necessary, support or secure piping on both sides of the pump.

NOTICE: Provide shut-off devices upstream and downstream of the pump to facilitate potential future pump replacement. Perform the installation in a way that prevents leaking water from dripping onto the control module. To do this, align the upper gate valve laterally if necessary.

- Complete all welding and soldering work near the pump prior to the installation of the pump.

CAUTION: Dirt can cause the pump to fail. Flush the pipe system before installation.



- Choose the correct installation position, with the pump motor in a horizontal position, from only the positions shown above. Direction arrows on the pump housing indicate the direction of flow.
- If heat insulation work is necessary, only the pump housing may be insulated. The pump motor, module, and condensate drainage openings must remain uncovered.

Turning the motor head

If the installation position of the module is changed, the motor housing must be turned as follows:

- If necessary, remove the thermal insulation shell.
- Loosen the interior hexagonal head screws.
- Turn the motor housing, including the control module.

NOTICE: In general, turn the motor head before the system is filled. When turning the motor head in a system that has already been filled, do not pull the motor head out of the pump housing. Turn the motor head with a small amount of pressure on the motor unit so that no water can come out of the pump.

CAUTION: Do not damage the housing seal. Replace damaged gaskets.

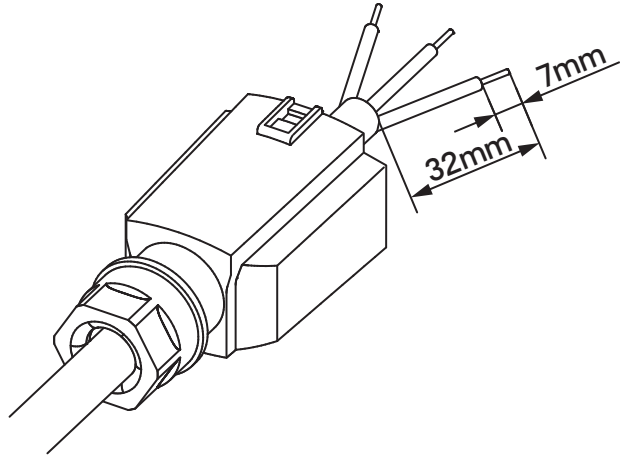
- Turn the motor head in such a way that the plug corresponds to the permitted installation position shown above.

CAUTION: If the position is wrong, water can penetrate and destroy the pump.

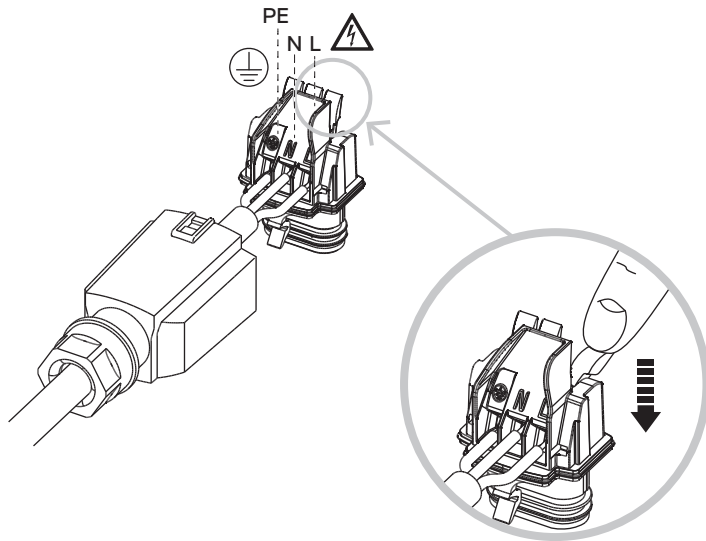
- Turn in the interior hexagonal head screws.
- If applicable, re-mount the thermal insulation shell.



01

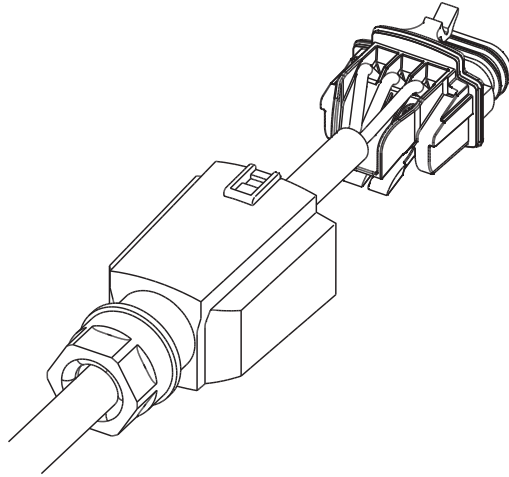


02

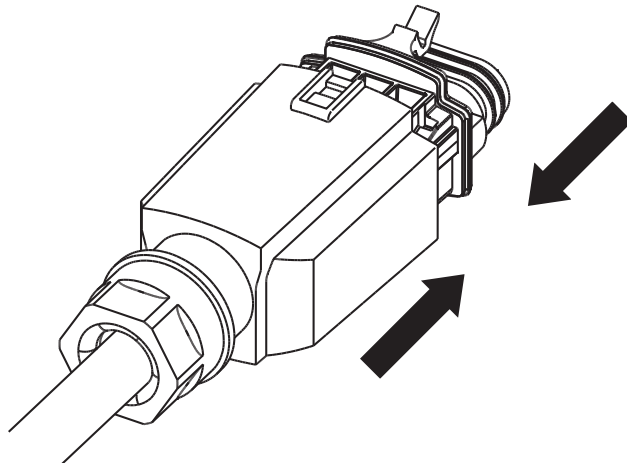




03

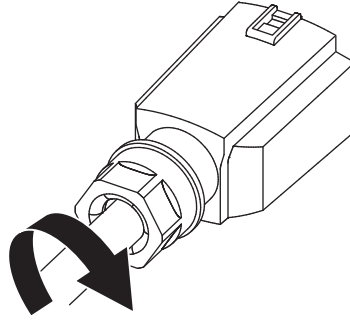


04

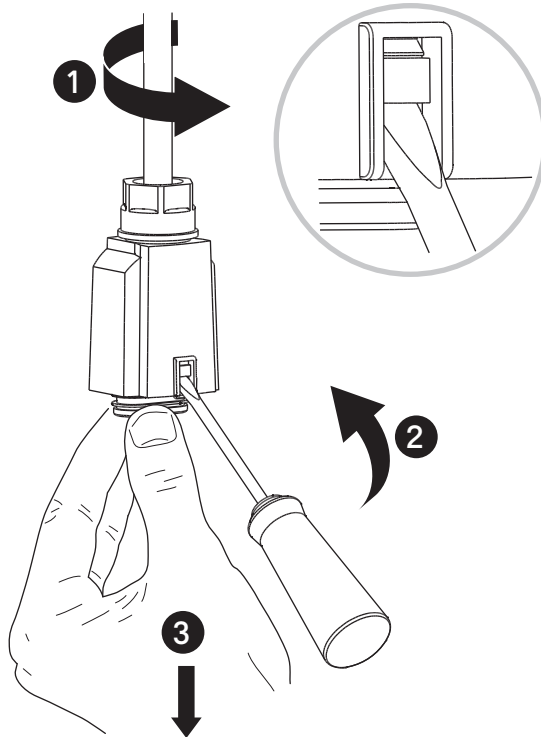




05



06





Electrical connection

DANGER: Work on the electrical connection must be performed only by a qualified electrician and in accordance with national and local regulations. Before making the connection, ensure that the connecting cable is not live.

- The mains voltage and current type must correspond to the rating plate specifications.
- Connect the plug (Step 01 to Step 05).
- Remove the plug [02] from the pump [01].
- Wire the plug [02] using Step 01 to 05 for reference.
- Mains connection: L, N, PE.
- Max. back-up fuse: 10 A, slow-blow.
- Earth the pump in accordance with instructions.
- Dismantle the plug in accordance with Step 06. A screwdriver is required to do this.
- The electrical connection is to be established via a fixed connecting cable equipped with a connector device or an all-pole switch with a contact opening width of at least 3 mm.
- To ensure drip protection and strain relief at the PG screwed connection, a connecting cable with an adequate outer diameter is required (e.g. H05VV-F3G1.5).
- For pumps in systems with water temperatures above 90 °C, install a suitably heat-resistant connecting cable.
- The connecting cable is to be laid in such a way that it can under no circumstances come into contact with the pipe and/or the pump and motor housing.
- The switching of the pump using triacs / solid-state relays must be tested on a case-by-case basis.

CAUTION: Voltage pulsing during phase angle control or external control can cause damage to electronic components.

CAUTION: Only operate the pump with sinusoidal AC voltage as stated on the rating plate.

CAUTION: The switching of the pump using triacs / solid-state relays must be tested on a case-by-case basis.

Commissioning/operation

WARNING: Depending on the pump or the system operating conditions (fluid temperature), the entire pump can become very hot. There is a risk of burns upon coming into contact with the pump! Commissioning by qualified personnel only!

Venting

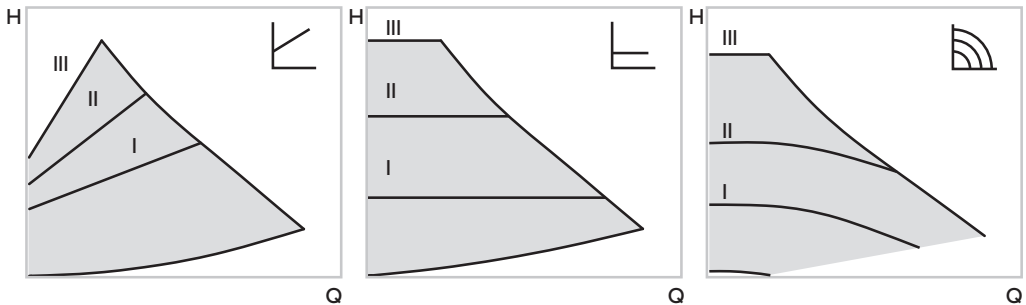
- Fill and vent the system appropriately.
- The pump rotor space vents automatically after a short time in operation. This may cause noises. If necessary, switch off and on again repeatedly to speed up the venting process. The pump will not be harmed by dry running for short periods.



Intended use

- The circulators in this series are designed for warm water heating systems and similar systems with constantly changing flows.
- The approved fluids are heating water in accordance with VDI 2035, and water/glycol mixture at a mixing ratio of 1:1.
- If glycol is added, the delivery data of the pump must be corrected according to the higher viscosity depending on the mixing ratio.
- Intended use includes the observation of these instructions as well as of specifications and labelling on the pump.
- Any other use is regarded as improper use.

Control modes



	<p>Variable differential pressure ($\Delta p-v$): If the volume flow in the pipe network decreases, the pump reduces the delivery head by half (Step 08). Optionally with three pre-set characteristic curves (I, II, III).</p>
	<p>Constant differential pressure ($\Delta p-c$): The control keeps the set delivery head constant irrespective of the volume flow delivered (Step 09). Optionally with three pre-set characteristic curves (I, II, III).</p>
	<p>Constant speed (I, II, III): The pump runs at three specified constant-speed settings (Step 10).</p>

Setting the control mode

The control modes and corresponding characteristic curves are shown on the LED display in clockwise succession.

1. Press the operating button briefly (approx. 1 second).
2. The LEDs display the set control mode
3. The LEDs display the set characteristic curve

The following demonstrates the display of the possible settings (example: constant speed / characteristic curve III):



Use

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	LED display	Control modet	Characteristic curve
1.		Constant speed	III
2.		Constant speed	II
3.		Constant speed	I
4.		Variable differential pressure $\Delta p-v$	III
5.		Variable differential pressure $\Delta p-v$	II
6.		Variable differential pressure $\Delta p-v$	I
7.		Constant differential pressure $\Delta p-c$	III
8.		Constant differential pressure $\Delta p-c$	II
9.		Constant differential pressure $\Delta p-c$	I

After pressing the button 9 times, the selection will have returned to the basic setting (constant speed / characteristic curve III).

NOTICE: All settings and displays are retained if the mains supply is interrupted.



Technical Data

	Flomasta 25-6
Connection voltage	1 ~ 230 V ± 10 %, 50 Hz
Temperature class	TF 95
Protection class IP	See rating plate
Energy Efficiency Index EEI *	See rating plate
Nominal connection diameter (Screwed connection)	DN 25 (Rp 1)
Port-to-port length	130 mm
Water temperatures at a max. ambient temperature of +40 °C	-10 °C to + 95 °C
Max. ambient temperature	-10 °C to + 40 °C
Max. operating pressure	6 bar (600 kPa)
Minimum inlet pressure at + 95 °C	0.3 bar (30 kPa)

* Reference value for the most efficient circulatorzors: $EEI \leq 0.20$



DANGER: Before starting any maintenance and repair work, disconnect the pump from the power supply and make sure it cannot be switched back on by unauthorised persons.

- Damage to the connection cable must always be repaired by a qualified electrician.
- Faults must only be remedied by qualified personnel!

WARNING: Risk of burns when touching the pump! Depending on the pump or the system operating conditions (fluid temperature), the entire pump can become very hot.

When removing the motor head or pump, hot fluid may be expelled under high pressure.

- Allow the pump to cool down first.
- Close the stop valves before removing the pump.
- There is always a strong magnetic field inside the motor. The permanent magnet rotor installed in the pump can pose mortal danger to people with medical implants (e.g. pacemakers) during dismantling.
- Never open the motor and never remove the rotor.

Troubleshooting

Fault	Cause	Remedy
Pump is not running although the power supply is switched on	Electrical fuse defective	Check fuses
	No voltage supply to the pump	Resolve the interruption to the power supply
Pump is noisy	Cavitation due to insufficient suction pressure	Increase the system supply pressure within the permissible range
		Check the delivery head setting and set it to a lower height if necessary
Building does not warm up	Thermal output of the heating surfaces is too low	Increase setpoint
		Set control mode to Δp -c

Disposal

Information on the collection of used electrical and electronic products

Proper disposal and recycling of this product prevents damage to the environment and risk to personal health.



NOTICE:

Disposal in domestic waste is forbidden!

Electrical and electronic products with this marker must not be disposed of in domestic waste.

- Use public or private disposal organisations when disposing of the product or parts of the product.
- For more information about proper disposal, please contact your local council or waste disposal office or the supplier from which you obtained the product.



(EN) EU DECLARATION OF CONFORMITY

Product

- Flomasta Domestic Circulator Pump
- Flomasta 25.2-6-130

Name and address of the manufacturer or his authorised representative:

Kingfisher International Products B.V.,
Rapenburgerstraat 175E,
1011 VM Amsterdam,
The Netherlands

This declaration of conformity is issued under the sole responsibility of the manufacturer:

Object of the declaration

Product

Model

EAN

Flomasta Domestic Circulator Pump

Flomasta 25.2-6-130

5059340241562

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

2014/30/EU as amended Directive Electromagnetic compatibility
2014/35/EU Directive Electrical Safety: Low-voltage electrical equipment
2011/65/EU as amended Directive Restriction of the use of certain hazardous substances in electrical and electronic equipment Products

References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:

EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019
EN 60335-2-51:2003+A1:2008+A2:2012
EN 61000-6-2:2005
EN 61000-6-3:2007+A1:2011;
EN 61000-6-4:2007+A1:2011
EN 16297-1:2012; EN 16297-2:2012
EN IEC 63000:2018;

Signed for and on behalf of/Signé par et au nom de/ Podpisano w imieniu/Semnat pentru și în numele/
Firmado en nombre de/Assinado por e em nome de:

Kingfisher International Products B.V.,
Rapenburgerstraat 175E,
1011 VM Amsterdam,
The Netherlands

David Awe
Group Quality Director

On: 28/05/2021



(UK) DECLARATION OF CONFORMITY

Product

- Flomasta Domestic Circulator Pump
- Flomasta 25.2-6-130

Name and address of the manufacturer or his authorised representative:

Kingfisher International Products Limited
3 Sheldon Square
London W2 6PX
United Kingdom

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Object of the declaration

Product	Model	EAN
Flomasta Domestic Circulator Pump	Flomasta 25.2-6-130	5059340241562

The object of the declaration described above is in conformity with the relevant legislation:

Electrical Equipment (Safety) Regulation 2016 as amended
Electromagnetic Compatibility Regulations 2016 as amended
The Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 as amended
The Ecodesign for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019

References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared:

BS EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019
BS EN 60335-2-51:2003+A1:2008+A2:2012
BS EN 61000-6-2:2005
BS EN 61000-6-3:2007+A1:2011
BS EN 61000-6-4:2007+A1:2011
BS EN 16297-1:2012; BS EN 16297-2:2012
BS EN IEC 63000:2018

Signed for and on behalf of:

Kingfisher International Products Limited
3 Sheldon Square
London W2 6PX
United Kingdom

David Awe
Group Quality Director

On: 28/05/2021

Manufacturer

UK Manufacturer:

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3 Sheldon Square, London, W2 6PX,
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EU Manufacturer:

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www.screwfix.com
www.screwfix.ie

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