



## ECP 25 Series Wet Rotor Circulators Installation and Operating Instruction

Read this manual carefully before installation. The product can not be used for medical industry which have the potential to cause personal injury, can not be used for pumping other liquids than water.

## 1. General Information

These operating Instructions explain the functions and operation of the pump when installed and ready for use.

## 2. Low-Energy Circulation Pump

Low-energy circulation pump is designed for the circulation of water in heating systems. Low-energy circulation pump incorporates a permanent-magnet motor and difference-pressure control enabling continuous adjustment of the pump performance to the actual requirements.

### Install the low-energy circulation pumps in:

- Underfloor heating systems
- One-pipe systems
- Two-pipe systems

### 2.1 Advantages of Installing a Low-Energy Circulation Pump

#### Easy installation and start-up

- Low-energy circulation pumps is easy to install. With the factory setting, the pump can, in most cases, be started Without marking any setting

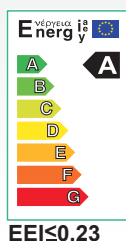
#### High degree of comfort

- Minimum noise from valves, etc.

#### Low energy consumption

- Low energy consumption compared to the convention circulation pumps

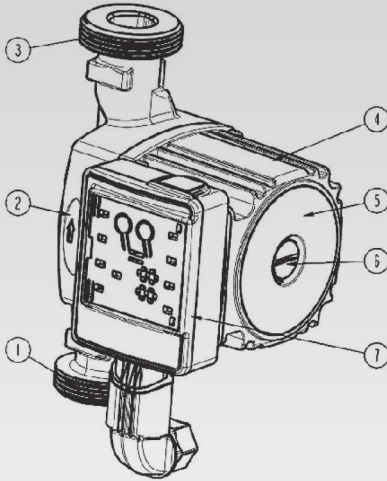
It is A-labelled as follows:



## 3. Pump Liquid

Clean, thin, non-aggressive and non-explosive liquids, not containing solid particles, fibres or mineral oil. In heating systems, the water meet the requirements of accepted standards on water quality in heating system

#### 4. Terms



##### Terms

1. Suction joint
2. Condensate outlet
3. Pump housing
4. Motor housing
5. Label
6. Ventilation
7. Control panel

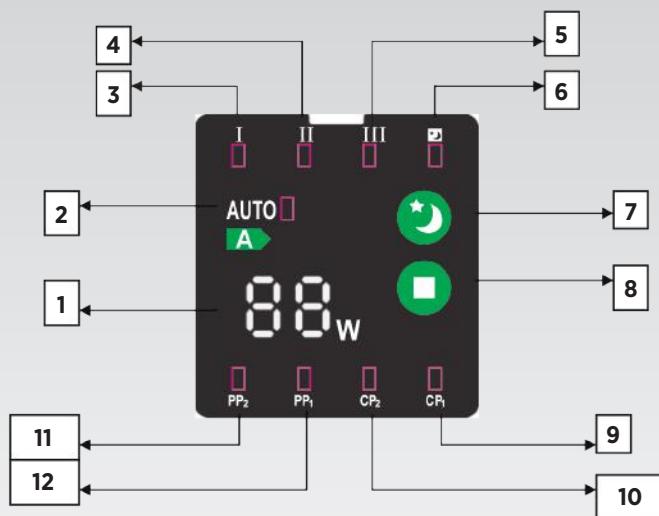
#### 4.1 Type Key

**ECP 25 6 180/130**

- Port to Port length (mm)
- Maximum head (m)
- 15(=1'), 25(=1 1/2"), 32(=2")
- Screwed pipe pump

## 5. Control Panel

### 5.1 Elements on the Control Panel



No	Description
1	Screen to show actual working power
2	Light fields indicating AUTO mode
3	Min speed for manual button
4	Mid speed for manual button
5	Max speed for manual button
6	Light fields indicating night mode
7	Push-button to select night mode
8	Push-button for selection of pump setting
9	CP 1 indicating Min constant pressure curve
10	CP2 indicating Max constant pressure curve
11	PP1 indicating Min proportion pressure curve
12	PP2 indicating Max proportion pressure curve

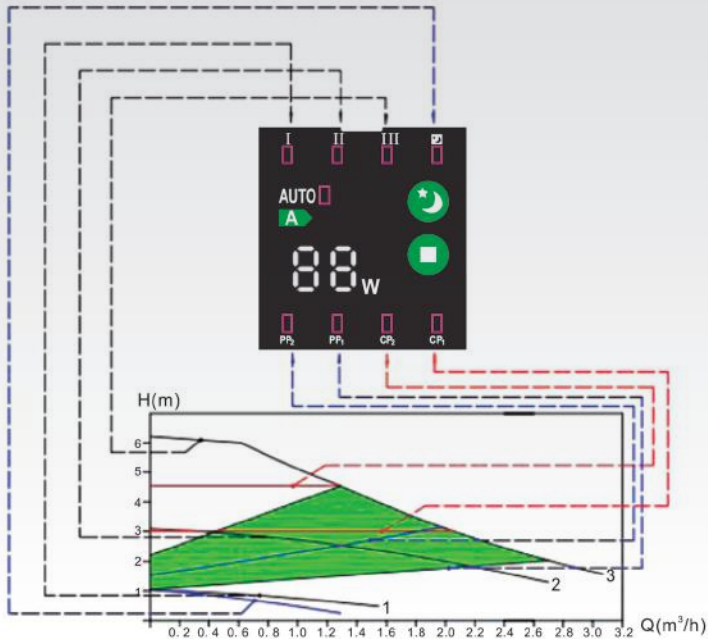
### 5.2 Lights Fields Indicating the Pumps Setting


Low-energy circulation pump has seven optional setting which can be selected with the push-button. The pump setting is indicated by seven different light fields.

### 5.3 Push-Button for Selection of Pump Setting

Every time the push-button is pressed, the pump setting is changed. A cycle is seven button presses.

## 6. Relation Between Pump Setting and Pump Performance



Setting	Pump Curve	Function
<b>PP1</b>	Lowest proportional Pressure curve	The duty point of the pump will move up or down on the lowest proportional-pressure curve, depending on heating demand. The head (pressure) is reduced at falling heating demand and increased at rising heating demand.
<b>PP2</b>	Highest proportional Pressure curve	The duty point of the pump will move up or down on the highest proportional-pressure curve, depending on the heating demand. The head (pressure) is reduced at falling heating demand and increased at rising heating demand.
<b>CP1</b>	Lowest constant Pressure curve	The duty point of the pump will move out or in constant-pressure curve, depending on the heating Demand. The head (pressure) is kept constant, irrespective Of the heating demand.
<b>CP2</b>	Highest constant Pressure curve	The duty point of the pump will move out or in Constant-pressure curve, depending on the heating Demand. The head (pressure) is kept constant, irrespective Of the heating demand.
<b>III</b>	Speed III	Pumps 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. Quick venting of the pump can be obtained by Setting the pump to speed III for a short period.
<b>II</b>	Speed II	Pumps 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.
<b>I</b>	Speed I	Pumps 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.
AUTO Ex-factory setting		Under "AUTO" mode, the power of pump automatically be up or down according to flow of system in certain condition.
Night mode		Pump runs select to night mode, after hour the power Automatically down, after two hour, it will be down lowest between 5- 10watt. After sever hour, the pump auto eliminate and recovery to original condition

## 7. Fault in Finding Chart

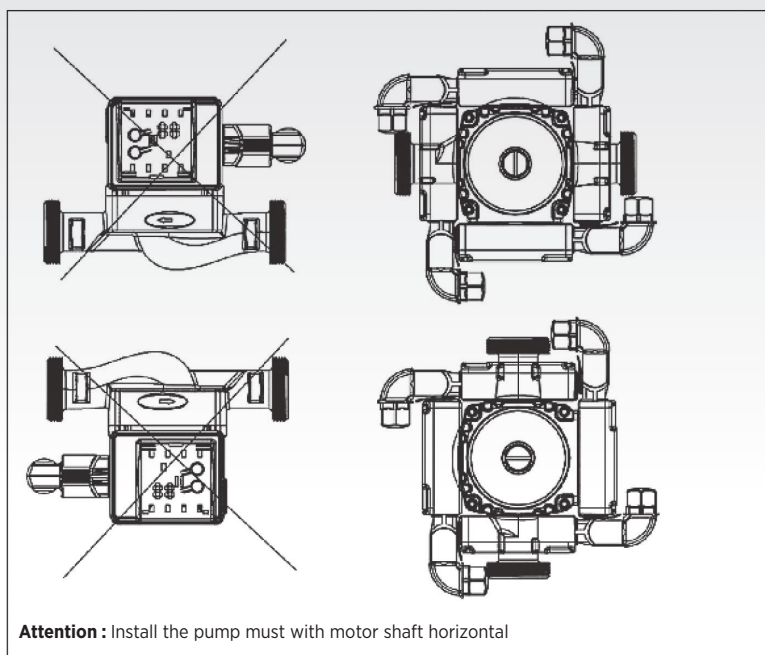
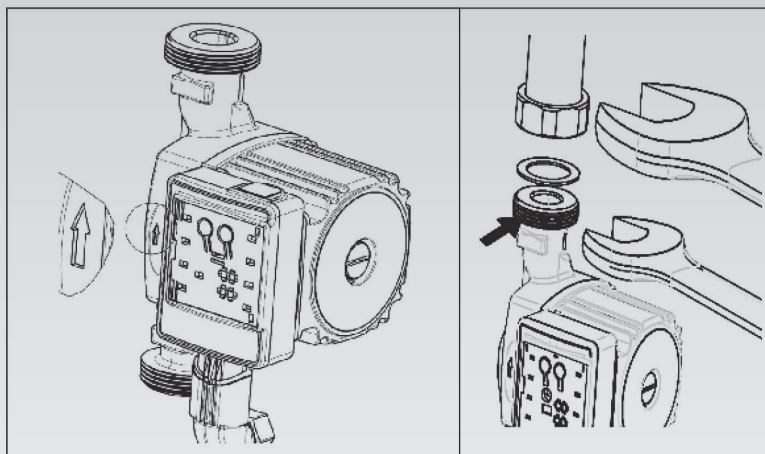


### Warning

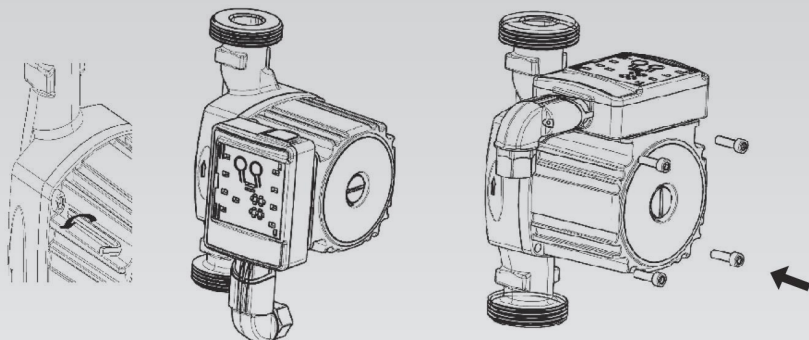
Before starting any work on the pump, make sure that the Electricity supply has been switched off and that it cannot be Accidentally switched on.

Fault	Control panel	Cause	Remedy
<b>1. The pump does not run</b>	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 break
		c) The pump is defective	Replace the pump
	Only show power	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
<b>2. Noise in the System</b>	Show power and light field for pump setting are on	a) Air in the system	Vent the system
		b) The flow is too high	Reduce the suction head
<b>3. Noise in the pump</b>	Show power and light field for pump setting are on	a) Air in pump	Let the pump run. It vents itself over time
		b) The inlet pressure is too low.	Increase the inlet pressure Check the air volume in The expansion tank. if installed
<b>4. Insufficient</b>	Show power and light field for pump setting are on	a) The pump performance is too low	Increase the suction head

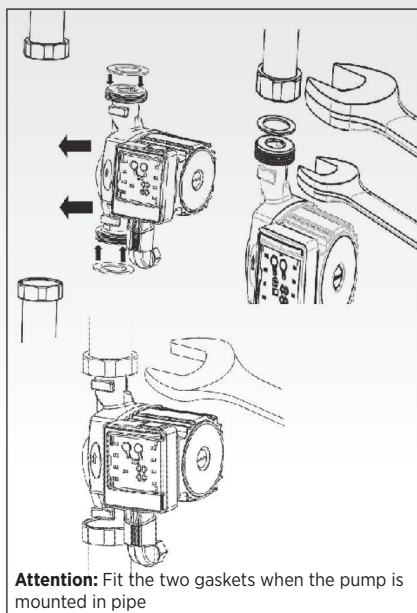
## 8. Installation



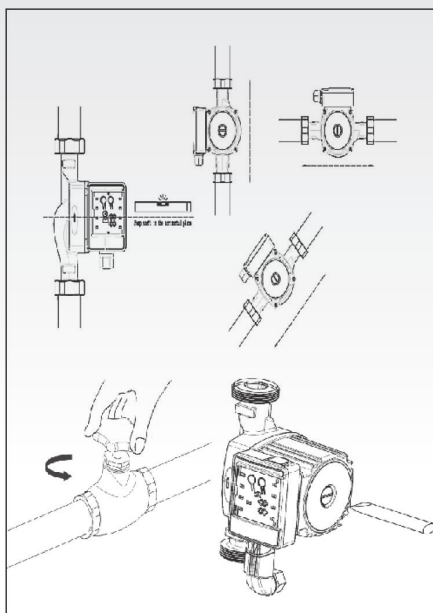


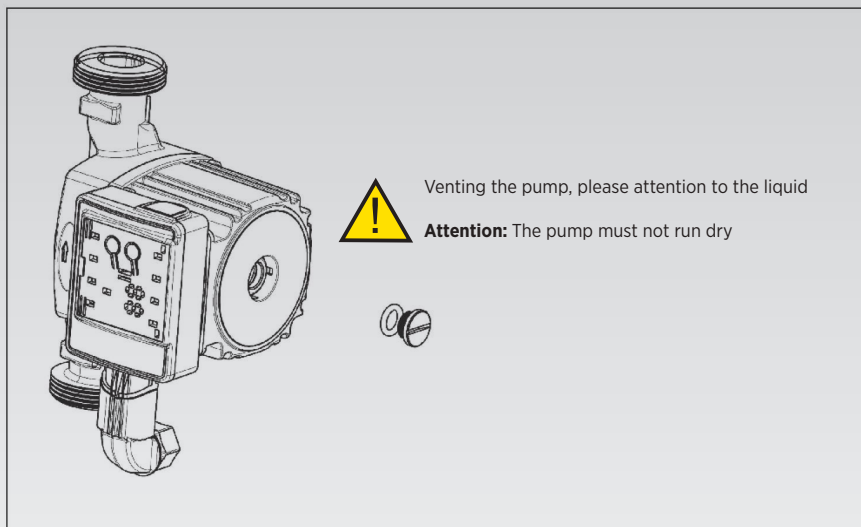


**Attention :** The pump liquid may be scalding hot and under the high pressure. Drain the system or closed isolated valves on either side of pump before removed the screws.



**Attention:** Fit the two gaskets when the pump is mounted in pipe





## 9.Current Values

MODEL	Power		Current
	W	HP	
ECP 25-6-130	45	0,06	0,38
ECP 25-6-180 / ECP 25-6-180 Bronz	45	0,06	0,38

## CE Document

ZERTIFIKAT ◆ CERTIFICATE ◆ 認 証 書 ◆ CERTIFICADO ◆ CERTIFICAT



Product Service

## Attestation of Conformity

No. D6 108819 0002 Rev. 00

Holder of  
Attestation:

**ALP Pompa Teknolojileri Tic. San. A.S.**  
Dudullu OSB 2.Cadde No:14  
34775 Ümraniye İstanbul  
TURKEY

Product:

**Circulation pump**  
**Circulation water pump**

Model(s):

ECP25-6-130, ECP25-6-180

Parameters:

Rated voltage: 220-240VAC  
Rated frequency: 50Hz  
Rated input power: 45W  
Protection class: I  
Degree of protection: IP 44  
Rated Head: 3.8 m  
Rated Flow: 2.0 m<sup>3</sup>/h  
Declared EEI: ≤ 0.2  
Implementation Measure EC Regulation  
No 641/2009: 2009-07-22 amended by  
(EU) 622/2012: 2012-07-11, (EU) 2016/2282: 2016-11-30,  
(EU) 2019/1781: 2019-10-01  
Stage 2 (2015-08-01)

Tested  
according to:

PPP 11093E:2019  
EN 16297-1:2012  
EN 16297-2:2012  
EN 16297-3:2012

This Attestation of Conformity is issued on a voluntary basis and confirms that the listed product fulfills the generic ecodesign requirements as stated in Annex I in combination with the specific ecodesign requirements defined in the above mentioned Implementation Measure and as stated in Annex II of Council Directive 2009/125/EC for the setting of ecodesign requirements for energy-related products. This attestation refers only to the sample submitted to TÜV SÜD PRODUCT SERVICE GMBH for testing and evaluation and to its technical documentation. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

Test report no.:

701282011002-00

Date, 2020-07-16

( Lucy Lu )



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