



**ECP 25-10 & 32-10 Series  
Wet Rotor Variable Speed 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, also 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. The figures referred to in the text can be found on the fold-out plate at the front.

## 2. Low-Energy Circulation Pump

Low-energy circulation pump is designed for the circulation of water in heating systems.

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

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

### 2.1 Advantages of installing a Low-energy circulation pump

The installation of a Low-energy circulation pump means

#### 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

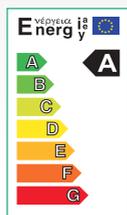
#### High degree of comfort

- Minimum noise from valves, etc.

#### Low energy consumption

- Low energy consumption compared to the convention circulation pumps

It is A-labelled as follows:

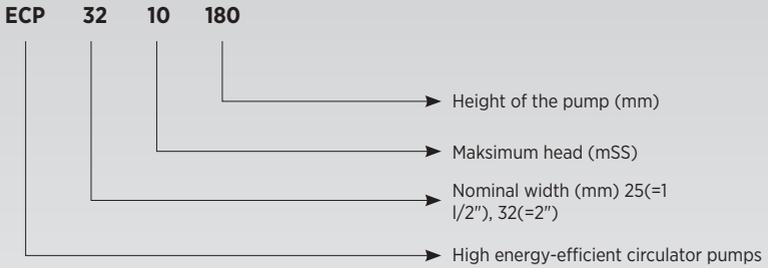


EEI ≤ 0.23

## 3. Pump liquid

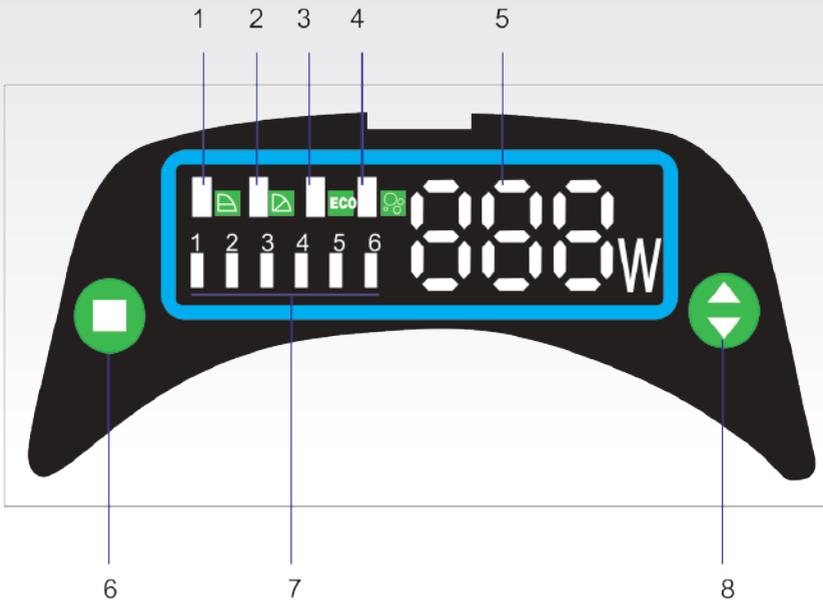
Clean, thin, non-aggressive and non-explosive liquids, not containing solid particles, fibres or mineral oil. In heating systems, the water meet the requirements of accepted standards on water quality in heating system

#### 4. Connotation of the Type



#### 5. Control Panel

##### 5.1 Elements on the Control Panel



No		Description
1		Light in Constant Pressure
2		Light in Proportional Pressure
3		ECO mode
4		Light in Air-Vent (Press Setting Button for 5-6seconds)
5		Power Light
6		<b>Button for change of control mode</b> (The button is used for change the pumps modes, for example: from Constant pressure to proportional pressure, or toECO mode, also can for Air-venting mode.)
7		<b>Light for each speeds</b> (The 6 lights are shown the different working conditions. Only under two modes (Constant Pressure and Proportional Pressure, these lights can be chosen.)
8		<b>Button for setting</b> (This button is used for setting the different speeds(light in 1,2, 3,4,5,6) for two modes. Using this button, we can chose the speeds from Max.to Min.)

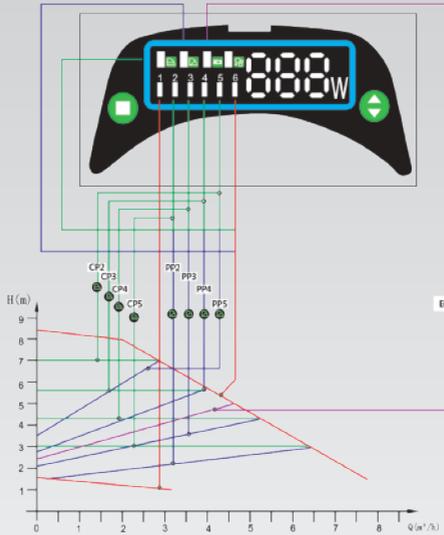
### 5.2 Lights Fields Indicating the Pumps Setting

Low-energy circulation pump has seven optional setting which can be selected with the push-button. See 8 in the above label. The pump setting is indicated by seven different light fields. See the above label.

### 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



### Control Panel Pump Curve

### Description



CP2,CP3,CP4,CP5

The Operating Point moves back and forth on the curve according to the volume of flow from the system. As shown in the graph, the pump pressure remains constant, not affected by the volume demands of flow.



CP1 - Minimum Hiz  
CP6 - Maksimum Hiz

The two speeds are the min. and Max. ones under constant Pressure, the curve shown as in graph. can not keep constant. It rises and goes down as Manual operation.



PP2,PP3,PP4,PP5

The Operating Point moves back and forth on the Proportional Pressure curve according to the volume of flow from system. As shown in the graph, the pump pressure is directly proportional to the flow demands.



CP1 - Minimum Hiz  
CP6 - Maksimum Hiz

The two speeds are the min. and Max. ones under Proportional Pressure, the curve shown as in graph. can not keep constant. It rises and goes down as Manual operation.

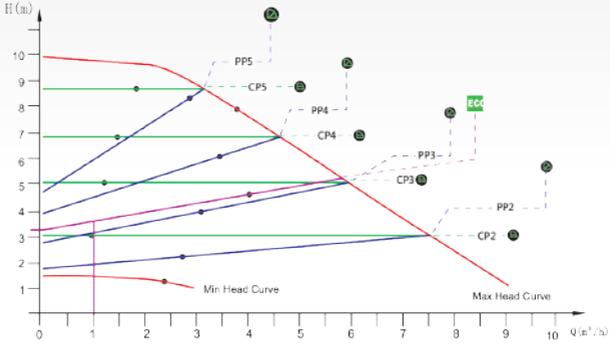
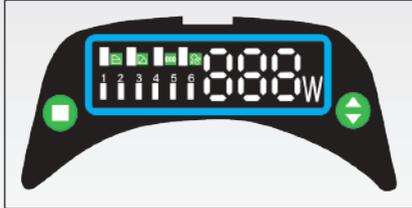
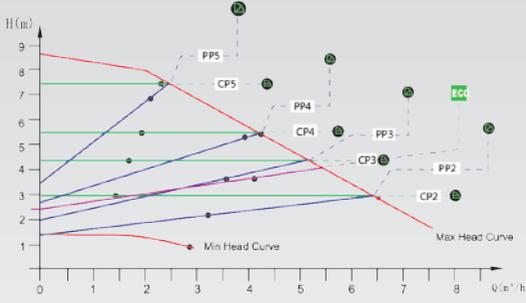
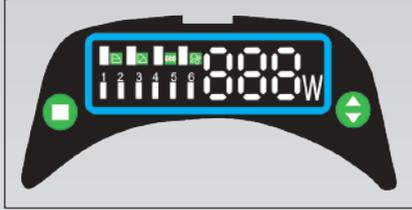


ECO

this mode use working as "autoadaptation". It confines the performance of the pumps in aimed scope. As shown in Graph.:

1. Performance can be adjusted according to the scale of system
2. Performance can be adjusted according to the changing of load during a specific period.

Under the mode of "ECO", the pump is controlled by means of Proportional pressure.



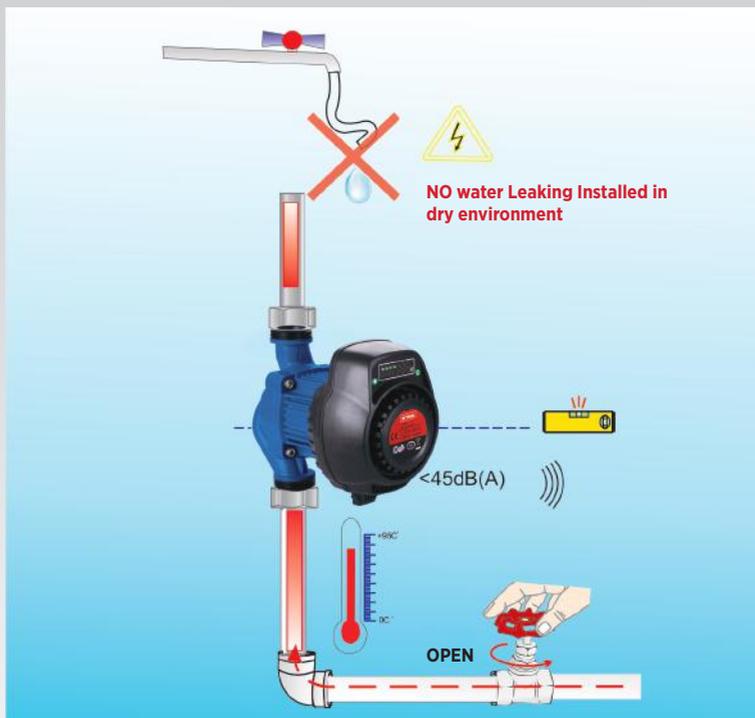
## 7. Fault in Finding Chart



### 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

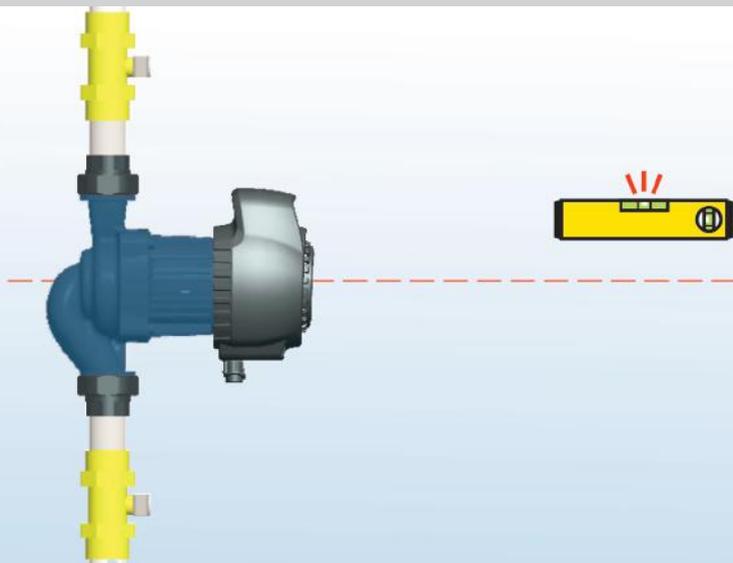


**8. Installation**

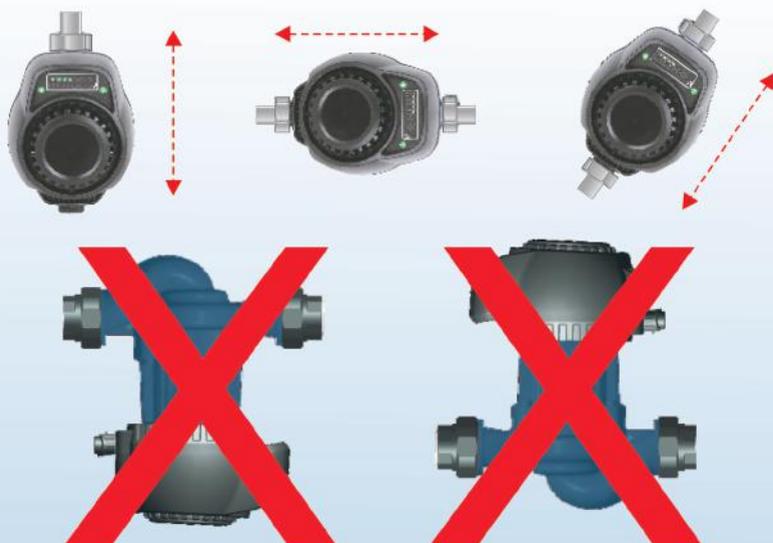


**Attention :** Fit the two gaskets when the pump is mounted in pipe

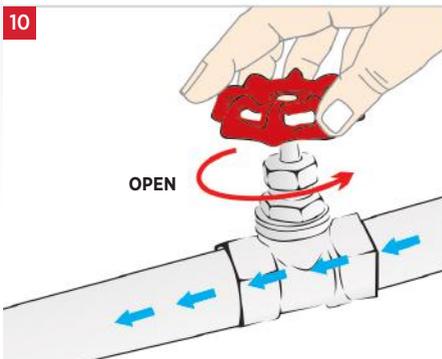
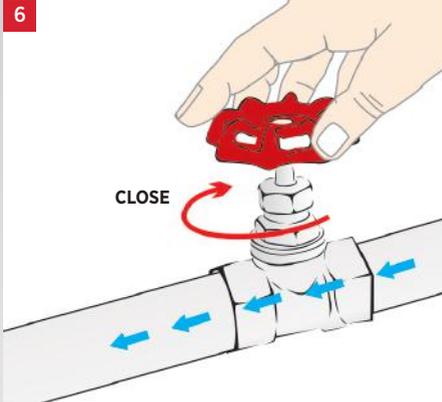
4



5



**Attention :** Install the pump must with motor shaft horizontal.



**Warning**

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.

11



**Warning**

Connection only for qualified personnel



**9. Accessories**



**External plug**



**Fittings**

## 10. Error Codes

Error Code	Main Reason	Approach
<b>E1</b>	Motor locked rotor	Pls open the pump and clean the rotor.
<b>E2</b>	Motor phase missing	Maybe the wire of motor broke or module of electrical board broke. Pls change the electrical board or motor
<b>E3</b>	High temperature protection	Pls contact the manufacturer or local service center.
<b>E4</b>	IPM error,hardware fault	Pls change the electrical board.
<b>E5</b>	Software over current	Pls contact the manufacturer or local service center.
<b>E6</b>	Accumulated faults in more than 5 times in a few minutes	This fault clearing requires power-off, Pls cut the power and connect the power again and then check the screen which error code show.

## 11. Current Values

MODEL	Power		Current
	W	HP	
ECP 32-10-180 bronz	140	0,19	1,05
ECP 25-10-180	180	0,24	1,35
ECP 32-10-180	180	0,24	1,35

# CE Document

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Product Service

## Attestation of Conformity

No. D6 108819 0003 Rev. 00

**Holder of Attestation:** ALP Pompa Teknolojileri Tic. San. A.S.  
Dudullu OSB 2.Cadde No:14  
34775 Umraniye Istanbul  
TURKEY

**Product:** Circulation pump  
Circulation water pump

**Model(s):** ECP25-10-180

**Parameters:** Rated voltage: 220-240VAC  
Rated frequency: 50Hz  
Rated input power: 180W  
Protection class: I  
Degree of protection: IP 44  
Rated Head: 6.7 m  
Rated Flow: 4.7 m<sup>3</sup>/h  
Declared EEI: ≤ 0.23  
Implementation Measure EC Regulation  
No 641/2009/2009-07-22 amended by  
(EU) 822/2012/2012-07-11, (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 fulfils 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.:** 701282011003-00

**Date,** 2020-08-24

( Lucy Lu )

## CE Document

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Product Service

## Attestation of Conformity

No. D6 108819 0001 Rev. 00

**Holder of Attestation:** **ALP Pompa Teknolojileri Tic. San. A.S.**  
Dudullu OSB 2.Cadde No:14  
34775 Umraniye Istanbul  
TURKEY

**Product:** **Circulation pump**  
**Circulation water pump**

**Model(s):** **ECP32-10-180**

**Parameters:**

Rated voltage:	220-240VAC
Rated frequency:	50Hz
Rated input power:	180W
Protection class:	I
Degree of protection:	IP 44
Rated Head:	6.6 m
Rated Flow:	5.1 m <sup>3</sup> /h
Declared EEI:	≤ 0.23

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  
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**Test report no.:** 701282011001-00

**Date,** 2020-07-16

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