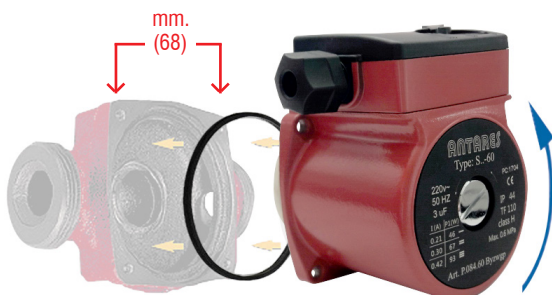




Art. P.084.-- INSTRUCTIONS FOR THE SUBSTITUTION OF MOTOR

Universal motor with turbine as a substitution for domestic circulators (4 - 6 mt delivery)

**ANTICLOCKWISE ROTATION
FOR GRUNDFOS AND OTHER BRAND**



Art. P.084

UNIVERSAL MOTORS WITH TURBINE (fixing distance 68)

The **ANTICLOCKWISE MODEL** allows interchangeability on most of domestic circulators present on the market. Complete with adjustable speed control to obtain delivery head according to the needs of the system.

**THE SUBSTITUTION OF THE MOTOR
OFFERS MANY ADVANTAGES:**

- quicker and easier to use
- less stocks and fixed assets

Art. P.084 - Universal spare motor with turbine for the substitution of domestic circulation pumps "GRUNDFOS", "ANTARES" and other brands, complete with set of washers and screws. Anticlockwise rotation.

Fixing distance mm 68. Complete with adjustable speed control to obtain delivery head according to the needs of the system.

Delivery max	5 mt	6 mt
Ø impeller	65 mm	72.5 mm
Article code	P.084.50	P.084.60

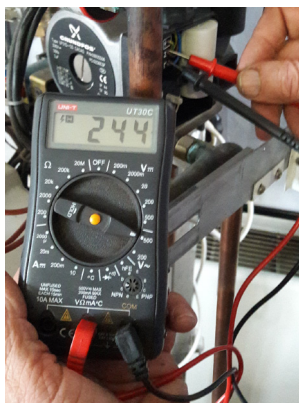
**BETTER THAN
THE ORIGINAL ONES**



**ANTARES IN
THE WORLD**
www.antaresint.com

PRELIMINARY CONTROLS TO ASCERTAIN THE GENERAL CONDITIONS

1) Make sure that the cause for malfunction does not depend on other issues.



- Check with the help of a voltmeter that voltage is present on the electrical terminals of the motor, measuring the presence of correct voltage.
- Check inside the electrical box terminals for traces of burning and the state of condenser.
- Check the continuity of electrical current on windings to determine eventual burns or interruptions.
- Measure the isolation resistance.
- The test is passed if the isolation resistance is 10 Ω.

2) Make sure that the circulator is not stuck due to dirt and if there is a release screw proceed as shown with a screwdriver:



With a large screwdriver unwind the cap.

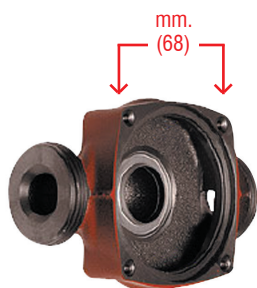


Then with a smaller one you can move the rotor of the circulator left to right that acts on the slot accessible under the removed cap.

IF THE OLD PUMP IS IRREPARABLY COMPROMISED PROCEED FOR THE SUBSTITUTION OF THE MOTOR AS FOLLOWS:

PRELIMINARY INTERCHANGEABILITY CONTROLS

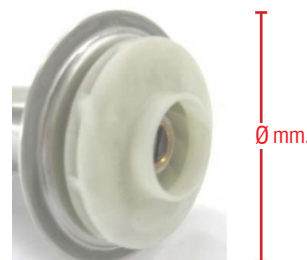
► FIXING FLANGE



► DIRECTION OF MOTOR ROTATION



► DIAMETER OF TURBINE



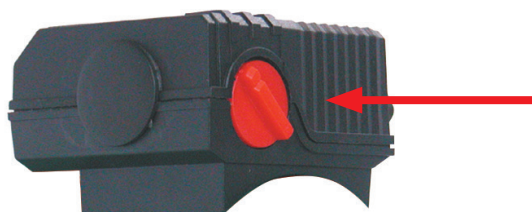
► The delivery of the old pump to be substituted.

Usually listed on the label shows the diameter of fittings and then the delivery.

Example: Model - Diameter - Delivery (UPS-15-50)

It is advisable not to use delivery heads more powerful than those listed on the old pump.

It is advisable to use:



● type 5mt (Art. P.084.50) for substitutions on pumps 4 and 5mt heads.

● type 6mt (Art. P.084.60) for substitutions on pumps 6mt heads.

Check that the product that you have purchased corresponds to the above 3 conditions of the old pump to be substituted.

INSTRUCTIONS FOR SUBSTITUTION:

- a) Disconnect the general electrical mains supplying electricity to the system.
- b) Check with the help of a voltmeter that there is no electricity flowing.
- c) Disconnect the wires of the old pump
- d) Close the tap that feeds water into the heating system.
- e) If the pump is equipped with intercepting valves on in/out see that they are closed. If these are not present then it is necessary to empty the system.
- f) Once the system is empty with appropriate Allen key diam 4-5 with a "T"
- g) Let out the water residue.
- h) Loosen and take out the fixing bolts and remove the broken motor.
- i) Insert the new motor in the flange and check the insertion of the seal between flange and motor.
- j) Insert the bolts and screw them.
- k) With the appropriate Allen key diam 4-5 gradually tighten the bolts in a diagonally opposite sequence.
- l) Open the intercepting valves of the pump if they are present.
- m) Open the water tap of the heating system and wait until you reach the defined filling pressure.
- n) Check carefully for any leakage between the flange of the pump and the motor.
- o) Carry out the electrical connection in the power supply box of the new motor.
- p) Once finished the substitution it is advisable to intervene on the speed variation (1°-2°-3°) to adjust the pumping performance.



handle loosen the four fixing bolts (on some occasions its two) of the motor from the body of the pump.



If after having removed the motor, you notice on the old pump presence of debris like mud or fine sand due to the crystal formation from minerals (magnesium, calcium, or other) we advise the complete wash-out of the system in order to avoid future or repeated malfunction of the motor.

