

TK GUIDELINE

HEATER INSTALLATION

MODELS :

TK500 – TK1000 – TK 2000

BEFORE STARTING

WARNING!

Before mounting the heater, make sure to install only heaters suitable for chillers containing flammable gas (R290)

How to make sure:

1) *check the name of the gas indicated on the technical label situated at the back of the chiller. It can be R290 or R134A.*

2) *check the label on the Heater. There are two kind of heaters:*

- *KRES01# The heater that can't be placed inside R290 chillers has the label: "Warning, do not use with flammable gas R290" (img.1)
This heater can be placed inside R134a chillers.*

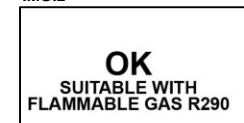
- *KRES02# The heater that must be placed inside R290 chillers has the label: "OK, Suitable with flammable gas R290" (img.2)*

If you don't find one of these labels, please consider that the heater can't be placed in R290 chillers.

IMG.1



IMG.2



EQUIPMENT AND INITIAL STEP

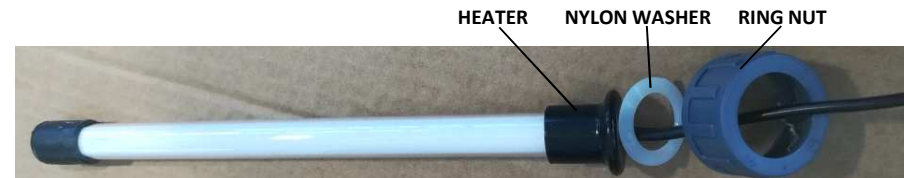
EQUIPMENT

- Big Crosshead Screwdriver
- Small Crosshead Screwdriver



SPARE PARTS

- Heater KRES02# (spare part)
- Nylon washer 3.5.038
- Ring nut 2.4.124



INITIAL STEP

- Turn OFF the chiller and let it OFF for twenty minutes before proceeding
- Disconnect the chiller from power supply
- Never touch internal part or dismount chiller when it is connected to power supply to avoid potential electric shock.

- Disconnect chiller from water pipe, by using squeeze tube clamps and let some water flow away from chiller exchanger.



STEP n. 1



Remove the conveyor from the top part of the chiller.

You can see the metal black grid and the red or grey fan support.



Remove the air filter grid and air filter from their position.

STEP n. 2



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Using the screw-driver, remove the 4 INOX screws indicated in the picture



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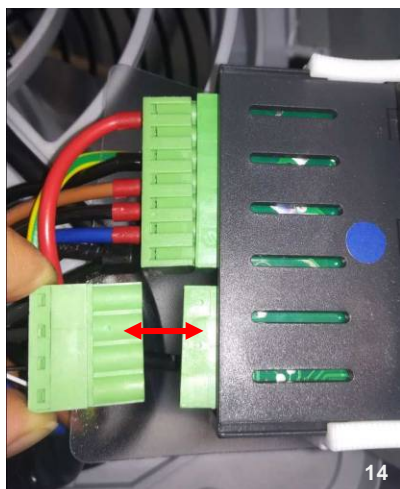
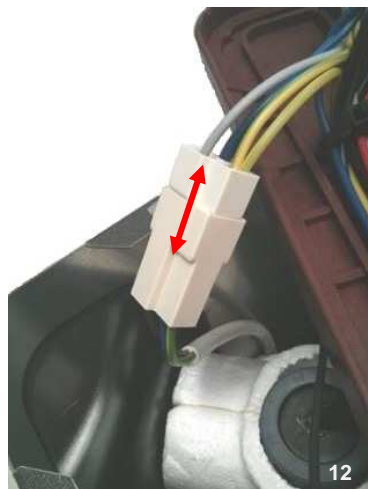
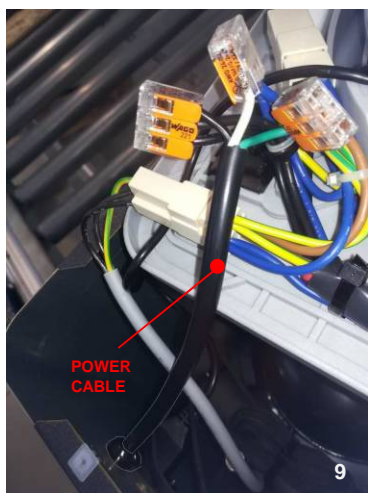
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Remove the red or grey fan support lifting it up from the bottom edge.

Leave it temporarily on the metal cover, as you can see in the picture.

Pay attention not to hurt yourself, the metal sheet is sharp

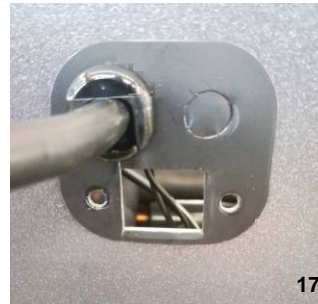
STEP n. 3



Disconnect:

- Power cable hot wire from wago connector (brown or black wire. See img.9-10-11)
- Power cable neutral wire from wago connector (blue or white wire. See img.9-10-11)
- Power cable ground wire from wago connector (yellow-green or green wire. See img.9-10-11)
- Compressor cable connector (img. 12)
- Probes green connector (img. 13-14)

STEP n. 4



Remove RJ45 cap and two little screws from wifi-panel (img.15-16-17).



It's now possible to remove the red or grey fan support. Please see img.18.

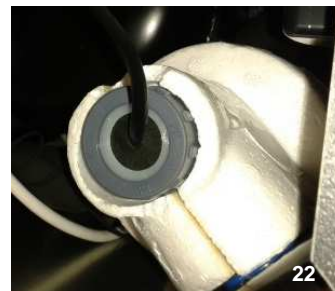
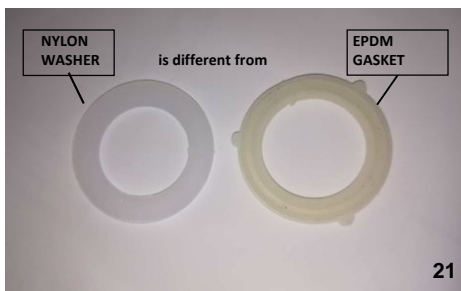
STEP n. 5



Unscrew the white cap and remove it from the top of the exchanger (img.19)

Place the heater inside the exchanger (img.21). Don't forget the nylon washer (img.20).

Screw very well the ring nut (img.22)



Connect the heater to the cable assembly that you find in the grey or red fan support (img.23)

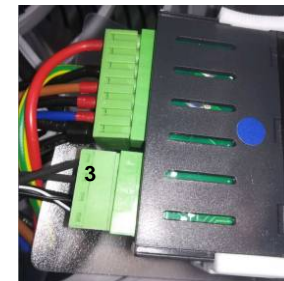
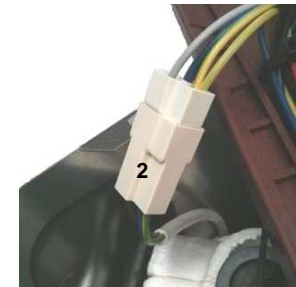
STEP n. 6

Restore the wiring in the following order:

- 1) Wifi connector into chiller metal cover (two little screws)
- 2) Compressor connector
- 3) Probe connector
- 4) Hot, neutral and ground wires of power cord into wago connector following already connected wires color (black or brown wire with other brown wire, white or blue wire to other blue wire and green or yellow-green wire to yellow-green wire)

Then assemble dismounting parts following the indicated sequence:

- 5) Four inox screw (fix the fan support on the metal cover)
- 6) Conveyor
- 7) Air filter
- 8) Air filter grid



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STEP n. 7

CHECKS IN WATER CIRCUIT

Connect chiller joints to water pipes and turn on the pump.

Check that there is required real water flow trough chiller exchanger.

Minimum is 400 l/h for TK500

Minimum is 500 l/h for TK1000

Minimum is 600 l/h for TK2000

The real water flow is the effective flow of water that you find when aquarium is assembled (when pumps and pipes are connected to tank and chiller). The real water flow is NOT the nominal one, that you read on the pump (with H=0 m).

Never run the chiller without required water flow otherwise the heater will stop to work permanently

HOW TO ACTIVATE HEATING FUNCTION (O1 PARAMETER)

Connect chiller to Power Supply

Turn on chiller display

Enter the programming mode by pressing **SET+ARROW DOWN** keys for more than 3 sec (**Hy** or **o1** will be displayed).

Find **o1** parameter pressing **ARROWS** and display its value pressing **SET**.

Use **ARROW** to change **o1** value from **OFF** to **ON**, then wait for 15 sec without pressing any key. The water temperature will be displayed again and the heating function is now ON.

