



REFRIGERATION TECHNOLOGIES

Cod. 6.1.050.0.04e

Ed. 01/2014

INSTRUCTION MANUAL FOR REFRIGERATORS AND CONDITIONERS

Models

TK3000

TK3000H

TK6000

TK6000H

ATTENTION!

This appliance is not intended for use by person (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
Children should be supervised to ensure that they do not play with the appliance.



NOTE : KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCES.



NOTE : KEEP THE PACKING FOR FUTURE TRANSPORTS.

TECHNICAL DATA				
Characteristic	Model			
	TK3000	TK3000H	TK6000	TK6000H
Supply	230V-50Hz 230V-60Hz 115V-60Hz		230V-50Hz 230V-60Hz 115V-60Hz	
Electric power	750 W	800 W	900 W	1200 W
Water inlet/outlet	1"		1"	
Flow rate suggested	3000 l/h		3000 l/h	
Heater	optional	Yes	optional	Yes
UV-C lamp	optional	Yes	optional	Yes
Weight	42 Kg		50 Kg	
Dimensions	600x395x565 (h) mm		600x395x565 (h) mm	

STATEMENT OF CONFORMITY TO EEC STANDARDS

WE:

TECO S.r.l. - TECNOLOGIE DI REFRIGERAZIONE

Sede Legale, Amministrativa e Commerciale: Via A. Sansovino, 35 - 48124 RAVENNA - C. F. / P. IVA 01075610392

HEREWITH DECLARE UNDER OUR RESPONSIBILITY THAT OUR PRODUCTS: **MODD.: TK3000, TK3000H TK6000, TK6000H**

TO WHICH THIS STATEMENT REFERS, ARE MANUFACTURED IN ACCORDANCE WITH THE FOLLOWING REGULATIONS:

2004/108/EC ELECTROMAGNETIC COMPATIBILITY DIRECTIVE
2006/95/EC LOW VOLTAGE SAFETY DIRECTIVE

THE FOLLOWING TECHNICAL STANDARDS AND SPECIFICATIONS HAVE BEEN OBSERVED:

Safety

Regulations used: EN 60335 - 1 / EN 60335 - 2 - 55 AND RELATED AMENDMENTS

EMC directive

Regulations used: EN 61000-6-1 / EN 61000-6-3 AND RELATED AMENDMENTS

Turci Bruno
Manager

RAVENNA 14/ 02/ 2011



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OPERATIVE INSTRUCTIONS




ATTENTION

Do not connect the unit to the current socket if the fairing is not assembled.


Step		Description
Instructions for the installation		ATTENTION To grant the right functioning of the unit in safe conditions, it is absolutely forbidden its exposition at atmospheric conditions and direct sources of heat. The maximum ambient temperature allowed is 35°C. The unit must be placed in a dry place. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
		The place in which the unit will be installed must have the following characteristics:
	1	Place the unit outside protected from the rain, or in a aired room (possibly conveying the hot air to the outside of the room itself).
	2	Do not obstruct the inlet and outlet air grates (the walls must be at least at 30 cm of distance).
	3	Avoid the re-circulation of hot air.
Assembling and installation		Connect the inlet and outlet hoses in the following way:
	1	Catch the water from a filtered area and convey it into the refrigerator "IN" with a pump (minimum flow rate 3000 l/h minimum height 2 m)
	2	The outlet water "OUT" must be convey to the tank, which must be refrigerated
	3	The hoses are recommended to be in PVC or PE, rigid or flexible and thermally insulated by cellular polyurethane tube thick 6mm
Electrical connection	1	Make sure that the main voltage corresponds to that specified on the technical data label.
	2	Connect the plug to a suitable socket which must be provided with an earth conforms to safety regulations.
Following movements after the first installation	NOTE If you need to move the unit to another place, you just have to follow the above instructions proceeding in reverse sequence.	

Step	Description
Operations of predisposition to the starting	 ATTENTION Before start up the unit check if the circulation pump is in function and if the water flows correctly.
	1 Use the switch to start up the unit.
	2 Check and set the water temperature through the electronic thermostat.
Starting, temperature's regulation and stop of the unit	After about 5 seconds the unit will start to function. On the display is showed the actual water's temperature in °C (Celsius degrees)
	1 Push the button (SET)
	2 Using the arrow (▼) or (▲) set the water's temperature desired.
	3 After 5 second the value will be automatically memorized.
	 NOTE The lighting green led indicates the eventually starting of the cooling function. The lighting red led indicates the eventually starting of the heating function (if present).
	Once the unit reaches the set temperature it will stop in stand-by mode; the lighting led are off. Every time the temperature will change the unit will start automatically. To stop the functioning of the unit press the switch to the position "0".
"UV" Function	If is present the optional kit for the water's sterilisation, (optional in TK3000 and TK6000 models) pushing the button "UV" the related function of sterilisation through the "U.V.C." rays will be activated.
	If the "UV" system is functioning the related led will light up.
	 NOTE If the optional kit of water's sterilisation is not present when you will push the button "UV", the led blinks.
	 ATTENTION After 6-8 month of use of the sterilization system the UV-C lamp will exhaust and it will be necessary to replace it.
Change unit of measure for temperature	Press buttons (▼) and (▲) to change the unit of measurement of temperature from °C to °F and vice versa.

MAINTENANCE OPERATIONS

Step		Description
Cleaning operations		 ATTENTION These operations must be done only with the unit off, pushing the switch to the position "0". Frequency: at least once a month and in anyway according to the level of dust in the installation place.
		Clean periodically the air filter. For this operation proceed in the following way:
	1	Open the frontal grate rotating the central snap fastener of ¼ in a counter clockwise sense and pull towards the external
	2	Take out the filter and blow or clean with current water (without rub)
	3	Reassemble the filter and close again

PROBLEMS AND SOLUTIONS

Problem	Cause	Solution
The display does not light up	Lack of electric supply	Check if the plug is correctly connected to the current socket and if the switch is on "1" position. Check if the fuse is not burned.
On the display appears the message "AL1"	Dirty air filter.	Clean the air filter following the instruction "Operation of cleaning".
	Ambient temperature too high.	Re-establish the optimal ambient conditions. (The maximum ambient temperature allowed is 35 °C)
	Obstructed ventilation grate.	Free the grate of place the unit in a suitable ambient.
	Broken ventilation system.	Contact a TECO S.r.l. retailer.
On the display appears the message "AL2"	If the optional kit for the sterilisation is present this message indicates that the UV-C lamp is exhausted.	Replace the UV-C lamp available by TECO S.r.l. retailers.
On the display appears the message "E1"	Damage of the water's temperature probe.	Contact a TECO S.r.l. retailer.
On the display appears the message "E2"	Damage of the overheating probe.	Contact a TECO S.r.l. retailer.
The temperature displayed is not the real one.	The water does not circulate correctly inside the hydraulic circuit.	Check eventually pipes obstructions. Check the efficiency of the aquarium's pump.
	Long and not insulated pipes.	Reduce as much as possible the pipes and insulate them.
	 NOTE If the water's temperature on the display is different from real one you can correct it as follow: A. Keep pushed the button "SET" for 10" B. On the display will appear the value of hysteresi (1 o 1,5). Do NOT change this value! C. Push again "SET". D. On the display will appear the water temperature blinking. E. Pushing the arrow "▲" or "▼" change the water's temperature as desired. F. After 5 seconds the water's temperature is memorized, the display stops to lighten and will start the normal functioning of the unit.	

WARRANTY CONDITIONS

The units manufactured by TECO S.r.l. are on WARRANTY, according to the laws of the country in which are commercialised. If during warranty period, it should arise defective working or damages of the unit, which will be part of the cases indicated in the warranty, TECO S.r.l. , after the proper inspections on the unit, will provide at the repairation or replacement of the defective parts. The warranty is valid only if the document (invoice, ticket or equivalent), which will assure the date of purchasing of the unit, will be presented to a retailer or an authorized TECO assistance centre.

ATTENTION

Please remember that eventual changes done by the end user, without explicit written TECO S.r.l. authorisation, will invalidate the warranty and TECO S.r.l. will not be responsible of damages caused by the defective unit. The same conditions are valid also in case of use of not originally spare parts or different from the ones explicitly indicated by TECO S.r.l..