

02/2017

Mod: PSA-1/TR

Production code: TMS20V



Diamond
catering equipment



MANUALE DI MANUTENZIONE
SERVICE MANUAL • MANUEL D'ENTRETIEN
WARTUNGSHANDBUCH • MANUAL DE MANTENIMIENTO

PARETE VINO



PROBLEM SOLUTION GUIDE

Problem	Potential cause	Solution
The unit display does not turn on	The unit is disconnected	Check the connection to wall socket
	General switch deactivated	Check the power on the socket
	Faulty thermoregulator	Turn on main switch under the unit display
		Replace the thermoregulator (G)
The unit display does not cool enough	The Ambient temperature is too high	Excise cause
	The doors get frequently opened	Excise cause
	The doors are not completely well closed	Pay attention closing the shutters to the frame
	The lateral grids are obstructed	Leave 10cm gap on the right and left side of the external units of the assembly
	The temperature controller isn't set in correctly	Check the set point of the temperature controller
	The Energy Saving is active	Deactivate Energy Saving from the temperature controller
	The condensor fan is broken	Replace condensor fan (L)
	Lack of gas in the cooling system	Check level of gas and type
	Cooling system broken	Replace completely the wiring or a part of it (M)
The top side isn't cold	The inner fans are switched off	Activate inner fans switch on the temperature controller
	The inner fans are broken	Replace inner fans (I)
Mist appears on the doors	The ambient humidity is very high	Excise cause or switch on the anti-fog device (optional)
	The inside temperature is too low	Turn up the unit display temperature
Doors don't close properly	The unit display isn't on an even surface	Level the unit display on a straight surface adjusting the pins
None of the led light are turning on	The switch on the temperature controller is off	Activate the light switch
	A cable has disconnected from the wiring	Check the wiring
	The power supply is broken	Replace the power supply
	The RGB controller is broken	Replace the RGB receptor (F)
Part or one strip of led lights is not turning on	The led strip is broken	Repace the broken led strip (E)

The maintenance and repair must be performed by qualified personnel only. Before any operation unplug the unit.

A. OPENING THE TECHNICAL BASIN



A1. Extract the plastic clip from the right hand side on the alluminium rods



A2. Move towards left 3 rows of rods or unscrew them (Depends on the model)



A3. Remove the alluminium panel



A4. Remove the lids underneath unscrewing the screws

B. EXTRACTION / REPLACEMENT DOORS



B1. Unscrew the upper hinge on the top of the unit



B2. Pull the door outward



B3. Lift the door to realease from the lower hinge

C. REFRIGERATING UNIT EXTRACTION (OPERATIONS ON POINTS A - B TO BE ACCOMPLISHED FIRST)



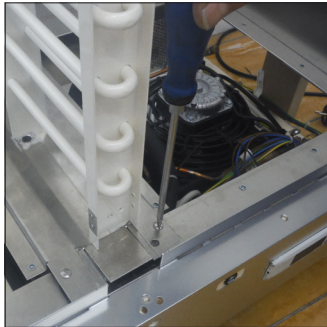
C1. Move all the aluminium rods towards left or unscrew them (depends on the model)



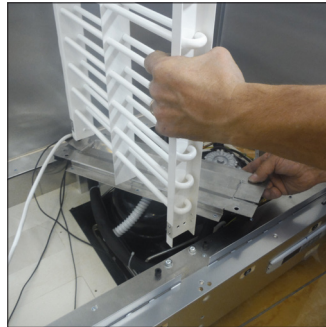
C2. Unscrew all the bolts and remove central aluminium panel right side



C3. After removing all the plastic clips extract all the aluminium rods from the right compartment of the unit display



C4. Unscrew the screws holding the aluminium tray for the condensation drip.



C5. Extract the aluminium tray



C6. Unscrew the screws holding it and extract the cooling unit

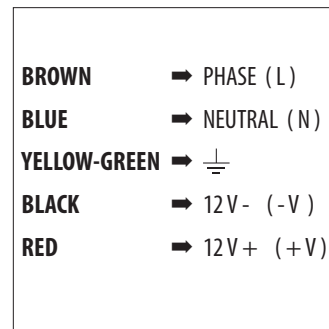
D. POWER SUPPLY REPLACEMENT (OPERATION A TO B ACCOMPLISHED FIRST)



D1. Extract the defective power supply (secured on the tank's inner lining)



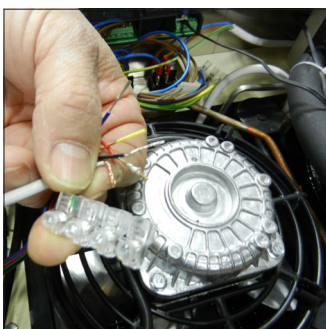
D2. Disconnect the power supply from the wiring



D3. Connect the new power supply as above

E. LEDS REPLACEMENT (OPERATION ON POINT A TO BE ACCOMPLISHED FIRST)

RGB LED LIGHTS



E1. Loosen terminal screws to connect the LEDs from the controller



E2. Extract the broken LED strips from the guide, using a screwdriver



E3. Insert the new LED strips in the aluminium profiles and extract the 4 cables from the holes in the basin



E4. Connect the new LEDs to the receptor cable as they were before matching the colors

WHITE LEDS



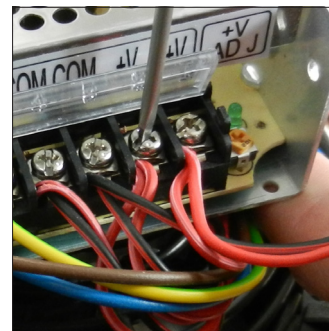
E5. Disconnect the broken LED strips from the power supply



E6. Extract the broken LED strips from the guide, operating with a screwdriver



E7. Insert the new LED strips in the aluminium profiles and extract the 4 cables from the holes in the basin



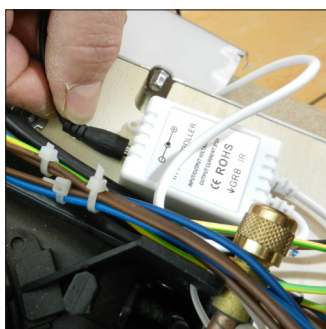
E8. Reconnect to the power supply matching the polarity

F. RGB RECEPTOR REPLACEMENT (OPERATIONS ON POINT A ARE TO BE ACCOMPLISHED FIRST)

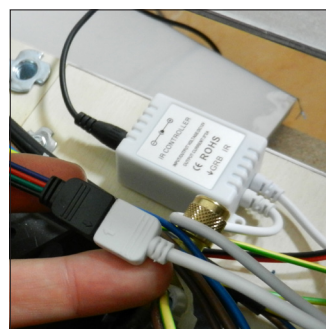
INFRARED RECEPTOR



F1. Unscrew the screws holding the receptor to the tank



F2. Disconnect the power supply, the leds connector and extract the infrared receiver from the specific hole



F3. Reposition the new receptor and connect the power supply and the LEDS

RADIO RECEPTOR



F4. Disconnect the power supply wires and the leds connector



F5. Reposition the new receptor and reconnect

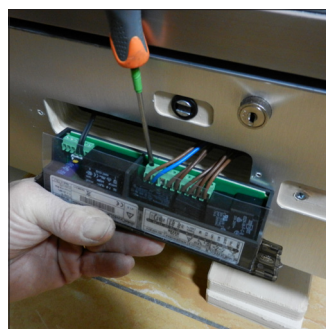
G. THERMOREGULATOR REPLACEMENT



G1. Extract the metal cover unfastening the lateral spring (use a small flat screwdriver)



G2. Unscrew, extract the thermoregulator and disconnect the cables



G3. Connect the cables to the new thermoregulator in the same positions or refer to wiring table

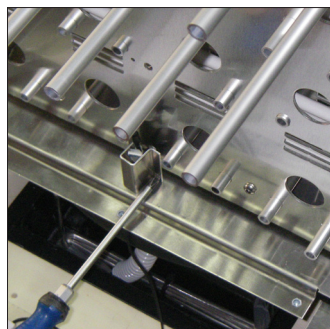


G4. Install the new thermoregulator and apply the cover lid fixing one spring at a time

H. PROBE REPLACEMENT (OPERATIONS ON POINT A ARE TO BE ACCOMPLISHED FIRST)



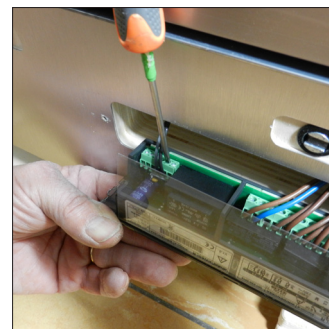
H1. After extracting the thermoregulator disconnect the probe from the terminal



H2. Unscrew the protection carter of the probe (unit display's left compartment) and disconnect

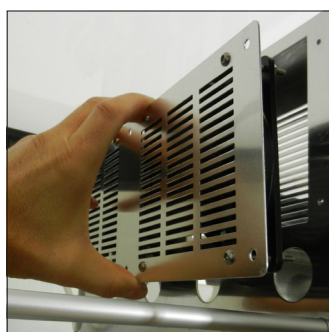


H3. Fasten the probe and carter passing along the lead from the suitable hole on the bottom crossbeam

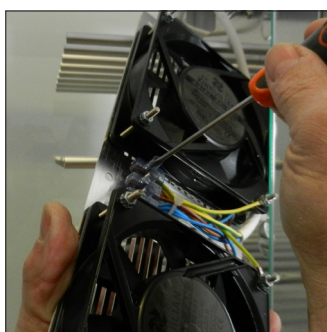


H4. Reconnect the probe to the thermoregulator

I. FAN REPLACEMENT



I1. Unscrew the fans carter and extract

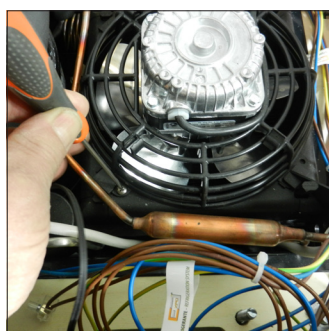


I2. Disconnect the electric cables and unscrew the carter fans



I3. Reconnect the fans, tighten them and reassemble the carter

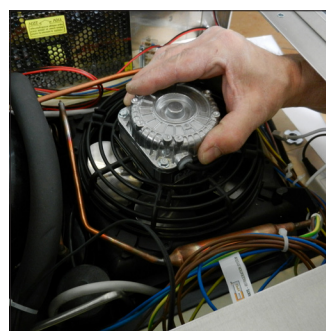
L. CONDENSATOR FAN REPLACEMENT (OPERATIONS ON POINT A ARE TO BE ACCOMPLISHED FIRST)



L1. Unscrew the specific screw placed on the fan protection grid



L2. Extract the fan rotating it counterclockwise



L3. Assemble the new fan, screw back and reconnect to the electrical wiring

M. CONDENSATOR REPLACEMENT / COMPRESSOR / COOLING COIL (OPERATIONS ON POINT A - B ARE TO BE ACCOMPLISHED FIRST)



After extracting the unit display cooling system , retrieve the refrigerating gas following the legislation in force.

Proceed to the compressor/condensator replacement carefully replacing the dehydrating filter.

Once the refrigerating circuit in reconnected test the tightness of the cooling system. Empty the circuit using a vacuum pump, at this stage reload the cooling system using the same type of refrigerating gas and the same amount recommended on the plate placed on the external metallic tank.

The following documents are available on the internet website www.exposrl.com

Document Type	Browser link	File Name
Exploded view	www.exposrl.com >> technical area >> Spare parts and exploded views	P#AR1#
		P#R2#
Wiring diagram	www.exposrl.com >> technical area >> electric wiring	PV-CV (SE)
		PC-S-G (SE)
Usernstruction Manual	www.exposrl.com >> technical area >> user instructions	PCV (MI)