OLIMPIA SPLENDID HOME OF COMFORT



UNICO PRO EVAN

REV.1 - 2024





The most powerful and efficient with integrated Wi-Fi.







Low GWP refrigerant

It uses the R32 refrigerant: more efficient and with a reduced greenhouse effect of almost 70% compared to R410A.

Integrated Wi-Fi

By downloading the OS Home app, you can manage all the features from your smartphone, even when you are away from home.



Maximum performance

Super cooling power and high efficiency class (up to A+). The latest generation electronics are also synchronized with the compressor to achieve the best acoustic comfort under any operating conditions.



UNICO EDGE 30 HP RFA

2 3 4 567

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New nomenclature

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Applicable to marked* products Position 1: Unique Line Name Position 2: Range Name (AIR, EDGE, EVO, PRO) Position 3: Size (20, 25, 30, 35) Position 4: Operating Specification (SF=cooling only, HP=heat pump) Position 5: Refrigerant(R=R410A, C=Regenerated R410A, E=R32; P=R290) Position 6: Compressor Technology (F=on/off, V=inverter) Position 7: Country Regulatory Specification (A=Europe)

Energy efficiency classes in cooling, outdoor ambient temperature DB 35° C / WB 24° C; indoor ambient temperature DB 27° C / WB 19° C.





UNICO 1 2 3 HP EVA 5 6 7

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OLIMPIA SPLENDID

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- COMPATIBILY WITH CURRENT AND OLD UNITS
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- INSTALLATION STEPS
- CONDENSATE DRAIN CONNECTION
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- TOP/BOTTOM INSTALLATION CONFIGURATION

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INSTALLATION TECHNICAL DATA

Maximum absorption with electric resistance heating

Dehumidification capacity

TECHNICAL DATA			Unico Pro 30 HP EVAN	Unico Pro 35 HP EVAN	TECHNICAL DATA			Unico Pro 30 HP EVAN	Unico Pro 35 HP EVAN
PRODUCT CODE			02238	02239	PRODUCT CODE		02238	02239	
EAN CODE			8021183022384	8021183022391	Air flow rate in cooling environment (max/med/min) m ³ /h		490 / 390 / 350	490 / 390 / 350	
Cooling power (min/max)		kW	1,9/3,4	1,9 / 3,5	Air flow rate in heating environment (max/med/min)		m³/h	490 / 390 / 350	490 / 390 / 350
Heating power (min/max)		kW	1,5/3,0	1,5 / 3,2	Air flow rate with electric resistance heating environment		m³/h	-	-
Nominal cooling capacity (1)	Prated	kW	2 ,6	🚓 3,1	External air flow rate in cooling (max/min)		m³/h	600/120	600/120
Nominal heating capacity (1)	Prated	kW	1,8	2,4	External air flow rate in heating (max/min)		m³/h	600/120	600/120
Nominal power consumption for cooling (1)	PEER	kW	0,8	1,2	Internal ventilation speed			3	3
Nominal absorption for cooling (1)		A	4,0	4,3	External ventilation speed			6	6
Nominal power consumption for heating (1)	PCOP	kW	0,5	0,8	Diameter wall holes**		mm	162 / 202	162 / 202
Nominal absorption for heating (1)		A	3,6	3,76	Electric resistance heating			-	-
Nominal energy efficiency index (1)	EERd		3,1	2,6	Maximun remote control range (distance/angle)		m/°	8 / ±80°	8/±80°
Nominal efficiency coefficient (1)	COPd		3,4	3,1	Dimensions (WxHxD) (without packaging)		mm	903 x 520 x 215	903 x 520 x 215
Energy efficiency class in cooling (1)			A+	Α	Dimensions (WxHxD) (with packaging)		mm	980 x 610 x 330	980 x 610 x 330
Energy efficiency class in heating (1)			A	A	Weight (without packaging)		kg	39	39
Energy consumption in "thermostat off" mode	PTO	W	22	22	Weight (with packaging)		kg	42	42
Energy consumption in "standby" mode (EN 62301)	PSB	W	0,5	0,5	Internal sound pressure (min/max) (2)		dB(A)	▲ 32-41	122 - 43
Energy consumption for double pipe appliances (1) - cooling function	QDD	kWh/h	0,8	0,8	Silent Mode sound pressure level		dB(A)	34	34
Energy consumption for double pipe appliances (1) - heating function	QDD	kWh/h	0,5	0,7	Degree of protection provided by covers			IP 20	IP 20
Cooling power with Silent Mode function		kW	1,9	1,9	Refrigerant gas*		lipo	R32	R32
Heating power with Silent Mode function		kW	1,5	1,5	Refrigerant gas charge	CHID	kg	0,46	U,46
Supply voltage		V-F-Hz	230-1-50	230-1-50	Global warming potential	GWP	MD	6/5	6/5
Supply voltage (min/max)		V	198 / 264	198 / 264	P 11 (All 1 2)		MPa	4,28	4.28
Maximum power consumption in cooling mode (min/max)		kW	0,5/1,5	0,5 / 1,5	Power cable (N° pole x section mm ²)			3 X 1,5	3 X 1,5
Absorption in cooling mode (min/max)		A	3,1/7,5	3,1 / 7,5					
Absorbed power in heating mode (min/max)		kW	0,4/1,4	0,4 / 1,4					
Absorption in heating mode (min/max)		A	2,5/6,8	2,5 / 6,8					
Maximum power consumption with electric resistance heating		kW	-	-					

1,3

А

l/h

1.3





OPERATING LIMITS

INSTALLATION

OPERATING LIMIT CONDITIONS	INDOOR TEMPERATURE	OUTDOOR TEMPERATURE
Maximum operating temperatures in cooling mode	DB 35°C - WB 24°C	DB 43°C - WB 32°C
Minimum operating temperatures in cooling mode	DB 18°C	DB -10°C
Maximum operating temperatures in heating mode	DB 27°C	DB 24°C - WB 18°C
Minimum operating temperatures in heating mode		DB -15°C

INSIDE THE BOX





- A. Appliance UNICO PRO
- B. Remote control
- B1.Battery for remote control
- quantity 2 AAA type x 1.5V
- C. Use and maintenance booklets + warranty
- **D.** Strip of adhesive isolating tape (x 2)
- **E.** Air inlet and outlet external grids including chains and kit for installing the grids (x 2)

- F. Internal flanges (x 2)
- **G.** Sheet for wall pipes (x 2)
- H. Kit of screws and anchor bolts
- L. Wall anchoring bracket (x 2)
- M. Paper template to make holes
- N. Condensation drain pipe
- **O.** Purifying filter (green coloured)
- **P.** Active carbons filter (black coloured)

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COMPATIBILY WITH CURRENT AND OLD UNITS



Installation compatibility with ALL the previous models. (Same distance between holes)

- Condensate drain connection needs to be adapted
- Accessories for installation diameter
 202mm supplied

The maximum allowed length of the pipes is 1 m, the pipes must be internally smooth, with a diameter equal to 202 mm or 162 mm and bends cannot be performed. It is necessary to use the grilles provided, or grilles which keep the same features.

Me

The 202-mm holes will ensure best performance and utmost noiselessness.



COMPATIBILY WITH CURRENT AND OLD UNITS







Diameter 162



Diameter 202





Predisposition for rectangular duct

TEMPLATE







UNIT POSITION REQUIREMENTS





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INSTALLATION STEPS





CONDENSATE DRAIN CONNECTION



- Since condensate drains by gravity, there must be a minimum slope of at least 3% at every point of the discharge line. Use a rigid or flexible tube having an inside diameter of at least 16 mm.

- In the event of operation during the winter with temperatures equal to or lower than 0° C, make sure that the condensate drain pipe is protected from freezing in order to ensure draining. In the event of prolonged operation during the winter with temperatures below 5°C, install the optional basin heater kit.





POWER SUPPLY CONNECTION



The appliance is equipped with a power plug However, it is possible to replace the cable and connect a power cable directly. *Minimum cross-section of the cable must be 1.5 mm2*



TOP/BOTTOM INSTALLATION CONFIGURATION

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To change configurations, proceed as follows:

a. Insert the plug into the power socket to feed the air conditioner, then make sure the latter is set to standby mode.

b. Keep the **MODE** key pressed for approximately 10 seconds until the display shows the parameter **P0**

c. Keep the **MODE** key pressed for approximately 2 seconds until the parameter flashes.

e. Press the keys **+** or **-** to select the desired value (**UP** = high wall – **DO** = low wall installation)

f. Press **MODE** to confirm the desired value.

g. Press the Standby key or wait approximately 20 seconds to leave the parameters configuration procedure.

Upper wall configuration determines an automatic correction of the room temperature equal to 3°C in heating mode





COMPONENTS DESCRIPTION INDEX

OLIMPIA SPLENDID

- COMPONENTS
- FILTER MAINTENANCE
- COVER REMOVING
- FRONTAL VIEW
- WATER DISPOSAL SYSTEM
- FAN MOTORS
- EEV ELECTRIC EXPANSION VALVE
- WIRING DIAGRAM

COMPONENTS DESCRPTION

APPLIANCE COMPONENTS DESCRIPTION



OLIMPIA SPLENDID

Air outlet deflector (Flap)
 Alarms and function visualization console
 Air intake grille
 Air filter
 Condensation drain and emergency drain access door
 Serial port access door

7. Power cord

COMPONENTS DESCRPTION FILTER MAINTENANCE





Pry up with your fingers and release the 3 joints to lift the top panel



Take out main filter, wash and dry.

Circled in red the hooks for the insertion of the filters supplied with the unit: - Green purifier filter - Black activated carbon filter

COMPONENTS DESCRPTION COVER REMOVING



Unscrew 3 frontal screws, 2 upper and 2 lower ones





COMPONENTS DESCRPTION FRONTAL PANEL REMOVING





Ex. plastic



Ex. metal sheet

Attention: place plastic and sheet metal screws correctly so as not to compromise the



Sound-profing material

Compressor compartment separation insulation

COMPONENTS DESCRIPTION



FRONTAL VIEW



COMPONENTS DESCRIPTION



COOLING OPERATION

Room air inlet 28°C (ex.) $\downarrow \downarrow \downarrow$



COMPONENTS DESCRIPTION



HEATING OPERATION



COMPONENTS DESCRIPTION WATER DISPOSAL SYSTEM









Thermoactuator (230 vac)



Water pump (230 vac)



High level water float (security switch) Low level water float (pump activation)

COMPONENTS DESCRIPTION WATER DISPOSAL SYSTEM







BACK SIDE

FRONT SIDE



COMPONENTS DESCRIPTION WATER DISPOSAL SYSTEM



In STANDBY mode

As soon as the standby mode is activated the condensate water valve opens for few minutes (to open the tap and empty the condensate water)

In HEATING mode:

- the pump is always off If Toutdoor > 5° C the condensate value is switched cyclically on and off.
- If Toutdoor < 5 °C the condensate valve is always ON (to prevent ice)
- If the pump switch level is closed the condensate valve switches on for 3 min
- At the end of defrost , condensate valve switches on for 5 minutes

In COOLING and DEHUMIDIFY modes:

- Only when compressor is running: if low water float switch is closed for more than 0.5 seconds, pump is activated for at least 120 seconds
- if low water float switch is closed for more than 1s, the pump motor is activated and keeps running until the pump switch contact is released and the minimum pump activation time is elapsed If the low water float switch stays closed for more than 60 seconds the
- condensate valve is automatically activated for 3 minutes or more until the pump is switched off.

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COMPONENTS DESCRIPTION FAN MOTORS

Internal (tangential) and external (centrifugal) fan motor DC



GND - RED = 310 vdc GND - WHITE = 15 vdc GND - YELLOW = 1.5 - 6 vdc GND - BLUE = 0 - 15 vdc (OUTPUT)





COMPONENTS DESCRIPTION EEV – ELETRIC EXPANSION VALVE









COM A - A = 46 ohmCOM B - B = 46 ohmPower supply: 12 VDC

ELECTRIC BOX



WIRING DIAGRAM





INDEX

- DISPLAY INTERFACE
- REMOTE CONTROL
- USER ACCESS AND PARAMETERS
- SERVICE ACCESS AND PARAMETERS
- ELECTRONIC & FEATURES



DISPLAY INTERFACE



Long touch for activation/deactivation



DISPLAY INTERFACE







() and MODE To be pressed simultaneously and for an extended period of time (at least 5 seconds) to set to zero the filter dirty report

OPERATING CONDITIONS	DISPLAY (white)	LED2 wifi (green)	LED1 mode (red/blue)	LED5 timer (white)
Stand-by	OFF	ON ^(*)	OFF	OFF
Cooling mode	18÷30°C/64÷86F	ON ^(*)	BLUE	Х
Heating mode	16÷30°C/61÷86F	ON ^(*)	RED	Х
Dehumidification mode	-	ON ^(*)	BLUE	Х
Fan mode	-	ON ^(*)	OFF	Х
Automatic mode	R	ON ^(*)	Х	Х
Timer enabled	Х	ON ^(*)	Х	ON
Low wall or high wall configuration parameter	PD	OFF	OFF	OFF
Roof installation	uР	OFF	OFF	OFF
Floor installation	dD	OFF	OFF	OFF
Input setting	P2	OFF	OFF	OFF
Energy Boost/ System Enable contact opening	ΠΕ	OFF	OFF	OFF
Energy Boost/ System Enable contact closure	םח	OFF	OFF	OFF
Input setting	RP	Lampeggio	OFF	OFF
Filter dirty	F I	Х	Х	Х
ON (*) = Connected	-			



+ and - To be pressed simultaneously for at least 5 seconds to enable/disable the keypad lock function

USER INTERFACE DISPLAY INTERFACE

SERVICE FUNCTIONS

• K1/UP and K4/MODE for 10 seconds

From Stand-by mode by pressing the two buttons, **Autotest** starts

• K1/UP for 10 seconds

From Heating mode or Cooling mode by long press, **Frequency manual test** starts

UNIT CONDITION	Display (white)	Wifi LED2 (green)	Mode LED1 (red/blue)	Timer LED5 (white)
Rating procedure	ΓA	OFF	х	OFF
Autotest	AF	OFF	х	OFF
Compressor Frequency test	FE	OFF	х	OFF





IR REMOTE CONTROL

On / Off

Choice of modes

Ventilation speed

- Temperature increase
 - Temperature decrease
 - Silent Mode

Oscillation flap

ECO

SET

TIMER

Economy Mode, reduced the absorbed current of 50%

Timer setting

On / Off Timer

On / Off Display and Led

	∹ḍ- (\ ^{\$}	G
		۵
	4× %	ECO
	C)	MODE
I	%	+
		\exists
I		ECO
	SET TIMER TIMER LED	*C/*F
		IA DID



Special Functions:



- **D**3 Dehumidification mode
- D4 Transmission of the command in progress

B4 (SWING) 6 TIMES: From Heating mode or Cooling mode, Frequency automatic test starts

Automatic mode **D**5

B11 (LED) 6 TIMES: Module Wifi ACCESS POINT MODE

- **D**6 Program 1
- Program switching off time setting D7
- **D**8 Clock/program setting
- D9 Program 2
- **D10** Program switching on time setting
- D11 Temperature/time unit of measurement
- D12 Low battery notification
- **D13** Minutes timer
- ECO function enabled D14
- **D15** Automatic ventilation speed
- **D16** Maximum ventilation speed
- D17 Medium ventilation speed D18 Minimum ventilation speed
- **D19** Function SILENT enabled
- **D20** Desired temperature/clock/programming

Silent mode (from remote control) Internal and external fan at minimum speed

Compressor at "silent frequency" (not at the minimum)



ECO mode (from remote control)

The power capacity is reduced (max absorption)







USER MENU'

Unit is in Stby mode, keep pressed the MODE button for more than 10 seconds

(MODE x 2 sec to enter and modify the parameters – STDBY/FA to exit from the menu')





- P0 Installing position
- P1 System Enable/Energy Boost
- P2 Input setting
- P3 Temperature system unit measure
- P4 Configuration setting



USER MENU'

PO – INSTALLING POSITION



dO = floor position, flap swing using angle floor position (default)
uP = ceiling position, flap swing using angle ceiling position
Upper wall configuration determines an automatic correction of
the room temperature equal to 3°C in heating mode.





USER MENU'

P1 – ENERGY BOOST/ SYSTEM ENABLE



The **default value for this parameter is 0** which means that when the input is opened the unit is forced to stby mode. **It can be use as a room card input**.

When the contact is open the letter P will be displayed. If the set value is different from 0, the energy boost mode will be activated.





USER MENU'

P2 – INPUT SWITCH SETTING



Normally CLOSED: (default) When the contact switch is open the unit run the selected function (Energy boost or System Enable). When the contact is closed the unit will restart in previous working mode Normally OPEN: When the contact switch is closed the unit run the selected function (Energy boost or System Enable). When the contact is opened the unit will restart in previous working mode.





USER MENU'

P3 – TEMPERATURE SYSTEM UNIT / P4 – CONFIGURATION SETTING



_C = Celsius (default)
_F = Fahrenheit

HP: the unit can operate in both modes, heating and cooling (default)CO: the unit can operate in cooling mode onlyHO: the unit can operate in heating mode only

ELECTRONIC & FEATURES SERVICE MENU'

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From Stand-by by pressing 8 times K4/MODE





- S0 Pump enabling
- S1 Heating Element Configuration
- S2 remote room temperature sensor
- S3 Display light setting
- S4 Rotation display

ELECTRONIC & FEATURES SERVICE MENU'

OLIMPIA SPLENDID

SO – Pump enabling



By default the water pump, in cooling mode, **is enable**. For specific cases the pump can be disable.

When the pump is disable, when the compressor starts in cooling mode the pump does not start anymore and as soon as the low water float is UP the thermoactuator is activated until the low water float is down.



Thermoactuator

ELECTRONIC & FEATURES SERVICE MENU'

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S1 - S2 - S3 - S4



Not available for these models

External air sensor by modbus device (not available at the moment)

The light intensity of all LEDs on display board in ON or blinking state is automatically reduced 15 seconds later the last K1/K2/K3/K4 button operation or command received by IR remote controller in order to improve the unit comfort when working in dark environments.

When LED intensity is low, first touching operation on K1/K2/K3/K4 shall increase the light intensity only, whereas when LED intensity is already high, any operation on K1/K2/K3/K4 shall actually change the working mode or fan program.

The 'no-light' function can be enabled through the IR remote by pressing the relevant button B11

According to this function, when any command is received (buttons or IR) the LEDs light intensity is high for 15 sec, then all LEDs are switched OFF.

Not used

ELECTRONIC & FEATURES MAIN LOGICS

Compressor: modulation and shutdown in relation to setpoint and room temperature



- Contraction of the second se

Internal fan auto mode:

Room temperature < T. Setpoint+1°C
 T.setpoint+1°C < Room temperature < T.setpoint+3°C
 Room temperature > T.setpoint+3°C
 MAXIMUM SPEED

External fan:

The external fan speed is calculated by the IPM board in relation to the external air and external exchanger temperature

4 way valve: NOT POWERED



MAIN LOGICS

Compressor: modulation and shutdown in relation to setpoint and room temperature





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Internal fan: minimum internal exchanger temperature control



External fan:

The external fan speed is calculated by the IPM board in relation to the external air temperature

4 way valve: POWERED

ALARMS & TROUBLESHOOTING INDEX



- ALARM LIST
- TROUBLESHOOTING
- SERVICE MENU' BY APP

ALARMS & TROUBLESHOOTING



ALARM LIST



When an alarm occurs the compressor stops and the display shows an alarm code To reset the alarm it is necessary to power off the energy supply (no standby)

DISPLAY FRROR	RED LED	ALARM DESCRIPTION	NOTE	DISPLAY FRROR	RED LED	ALARM DESCRIPTION	NOTE
CODE	BOARD			CODE	BOARD		
1	1	External air temperature sensor failure		18	18	External fan motor feedback speed error	
2	2	External exchanger temperature sensor failure		19	19	Internal fan motor feedback speed error	
3	3	Discharge temperature sensor failure		20	20	Water level alarm	
4	4	Power board high temperature protection		21	21	Internal logic EEprom failure	
5	5	Internal and external logic tabs communication problem		22	22	Compressor overcurrent fault	
6	6	The compressor has an abnormal start (phase loss, reverse rotation)		24	24	External ambient temperature too high to work in heating mode	
7	7	Compressor has no output				Internal ambient temperature too low to work in	
8	8	Ipm module failure		25	25	cooling mode	
9	9	Current anomaly				Communication failure between IPM and MAIN	
		External exchanger temperature too high (in heating		26	26	BOARD	
10	10	mode)		27	27	Driver board bus overvoltage	
11	11	Internal fan motor abnormal zero-crossing		28	28	Driver board bus undervoltage	
12	12	External logic EEprom failure		30	30	Compressor phase current protection	
13	13	Discharge temperature too high protection				External board AC voltage too high or too low	
14	14	Internal ambient temperature sensor failure		31	31	protection	
15	15	Internal exchanger sensor failure		32	32	External board AC current protection	
		Internal exchanger temperature too low protection (in		33	33	DC bus voltage too high or too low protection	
16	16	cooling mode)		34	34	Driver board and display communication failure	
17	17	Internal exchanger temperature too high protection (in heating mode)					

1 - EXTERNAL AIR TEMPERATURE SENSOR FAILURE

DESCRIPTION:

The external air temperature sensor (T.OUTDOOR) is out of range **CAUSE:**

- temperature sensor failure
- power board failure

ACTIONS

Check the ohm value of the sensor in relation to the ohm/temperature tables:

If the value is OK, replace the electronic board

If null or out of range replace damaged sensor



2 - EXTERNAL EXCHANGER TEMPERATURE SENSOR FAILURE

DESCRIPTION:

The external air temperature sensor (T.EXT.HEAT EXCHANGER) is out of range CAUSE:

- temperature sensor failure
- power board failure

ACTIONS

Check the ohm value of the sensor in relation to the ohm/temperature tables:

If the value is OK, replace the electronic board

If null or out of range replace damaged sensor







3 – DISCHARGE TEMPERATURE SENSOR FAILURE

DESCRIPTION:

The delivery temperature sensor (T.DISCHARGE) is out of range **CAUSE:**

- temperature sensor failure
- power board failure

ACTIONS

Check the ohm value of the sensor in relation to the ohm/temperature tables:

If the value is OK, replace the electronic board

If null or out of range replace damaged sensor



4 – POWER BOARD HIGH TEMPERATURE PROTECTION

DESCRIPTION:

The IPM BOARD detects thaT its temperature is too high

CAUSE:

- ipm board falure
- the cooling exchanger does not fit well on the ipm board

- replace the ipm board
- check if the conductive paste in between the ipm board and the cooling exchanger is enough



5 – INTERNAL AND EXTERNAL LOGIC COMMUNICATION PROBLEM

DESCRIPTION:

Wrong communication between main boar and ipm board CAUSE: ACTIONS:

6 – THE COMPRESSOR HAS AN ABNORMAL START

DESCRIPTION:

- the ipm board detect a wrong start of the compressor

CAUSE:

- phase loss or reverse rotation

- replace the power board
- replace the ipm board

ALARMS & TROUBLESHOOTING



TROUBLESHOOTING

7 – THE COMPRESSOR HAS NO OUTPUT

DESCRIPTION:

The ipm board detects a compressor current too low. Lower than 1.5 Ampere for at least 5 min CAUSE:

- refrigerant leakege
- compressor wires not connected
- wrong ipm board current detection

ACTIONS:

- check if the current is lower than 1.5 ampere.

if yes probably the unit has a refrigerant leakege \rightarrow install a service value and pressurize the circuit to find the leakege If not means the ipm board is making a wrong measurement of the compressor current \rightarrow replace the ipm board

8 – IPM MODULE FAILURE

DESCRIPTION:

- ipm failure
- CAUSE:
- ipm failure

ACTIONS:

- ipm failure

10 – EXTERNAL EXCHANGER TEMPERATURE TOO HIGH (IN HEATING MODE)

DESCRIPTION:

The external exchanger temperature sensor detects a temperature higher than 70°C

Automatic reset when the temperature goes below 60°C

CAUSE:

Obstructed air pipes / External fan locked / Dirty external exchanger / Non compliants grids / Not working water disposal system / External temperature out of operating limits

ACTIONS:

Check if there is a real overheat of the external exchanger and solve the cause.

If the extenal exchanger temperature is within the limits check the temperature sensor.

11 – Internal fan motor abnormal zero crossing

DESCRIPTION:

- the main board detecs a wrong rotation of the fan motor.

CAUSE:

- faulty fan motor
- faulty main board

ACTIONS:

- check if the motor is mechanically locked
- if the motor is not running, measure the otput from the board, check if the outputs 310 and 15 vdc are correct



CN700

GND - RED = 310 vdc GND - WHITE = 15 vdc GND - YELLOW = 1.5 - 6 vdc GND - BLUE = 0 - 15 vdc (OUTPUT)





12 – EXTERNAL LOGIC EEPROM FAILURE

DESCRIPTION:
EEPROM failure
CAUSE:
Eeprom failure
ACTIONS:
Replace ipm board

13 – DISCHARGE TEMPERATURE TOO HIGH PROTECTION

DESCRIPTION:

The compressor is running and the discharge temperature is too high (>120°C) **CAUSE:**

CAUSL.

Refrigerant leakege

Temperature sensor failure

ACTIONS:

Check if the high temperature is real If yes check if there is a refrigerant leakege \rightarrow install a service value and pressurize the circuit to find the leakege If not check if the sensor is faulty \rightarrow replace the sensor

14 – INTERNAL AMBIENT TEMPERATURE SENSOR FAILURE

DESCRIPTION:

The internal ambient temperature sensor (T.ROOM) is out of range **CAUSE:** Temperature sensor failure Main board input failure **ACTIONS:**

Check the ohm value of the sensor in relation to the ohm/temperature tables:

If the value is OK, replace the electronic board

If null or out of range replace damaged sensor

15 – INTERNAL EXCHANGER TEMPERATURE SENSOR FAILURE

DESCRIPTION:

The internal exchanger temperature sensor (T.INT.HEAT EXCHANGER) is out of range CAUSE:

Temperature sensor failure

Main board input failure

ACTIONS:

Check the ohm value of the sensor in relation to the ohm/temperature tables: If the value is OK, replace the electronic board If null or out of range replace damaged sensor







ALARMS & TROUBLESHOOTING

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16 – INTERNAL EXCHANGER TEMPERATURE TOO LOW PROTECTION (IN COOLING MODE)

DESCRIPTION:

The compressor is running and the internal exchanger temperature il lower than -5°C **CAUSE:** Dirty filter or any obstruction on the internal exchanger Not working flap which stays in closed position Faulty sensor Faulty input on the main board **ACTIONS:** Check if there is a real abnormal temperature drop of the internal exchanger If the internal exchanger temperature is within the limits check the temperature sensor

17 – INTERNAL EXCHANGER TEMPERATURE TOO HIGH PROTECTION (IN HEATING MODE)

DESCRIPTION:

The compressor is running and the discharge temperature is too high (>120°C)

CAUSE:

Dirty filter or any obstruction on the internal exchanger

Not working flap which stays in closed position

Faulty sensor

Faulty input on the main board

ACTIONS:

Check if the high temperature is real

If yes check if there is a refrigerant leakege \rightarrow install a service value and pressurize the circuit to find the leakege

If not check if the sensor is faulty ightarrow replace the sensor

OLIMPIA SPLENDID

18 – EXTERNAL FAN MOTOR FEEDBACK SPEED ERROR

DESCRIPTION:

If speed feedback is missed or the difference between the Fan set is more than 200 rpm, alarm occurs

CAUSE:

Faulty fan motor

Faulty ipm board

ACTIONS:

check if the motor is mechanically locked

if the motor is not running, measure the otput from the board, check if the outputs 310 and 15 vdc are correct

19 – INTERNAL FAN MOTOR FEEDBACK SPEED ERROR

DESCRIPTION:

If speed feedback is missed or the difference between the Fan set is more than 200 rpm, alarm occurs

CAUSE:

Faulty fan motor

Faulty main board

ACTIONS:

check if the motor is mechanically locked

if the motor is not running, measure the otput from the board, check if the outputs 310 and 15 vdc are correct



RED 1- +310 VDC 2-BLACK 3-WHITE 5- VCC YELLOW 6- VSP BLUE 7- Tach OUT

GND - RED = 310 vdc GND - WHITE = 15 vdc GND - YELLOW = 1.5 - 6 vdc GND - BLUE = 0 - 15 vdc (OUTPUT)





GND - RED = 310 vdc GND - WHITE = 15 vdc GND - YELLOW = 1.5 - 6 vdc GND - BLUE = 0 - 15 vdc (OUTPUT)



20 – WATER LEVEL ALARM

DESCRIPTION:

If water max level switch opens for at least 1 minute, compressor and ODU fan temporarily stops and condensate water valve turns on for 5 minutes.

If the max level switch closes for at least 10 seconds, air-conditioner restarts. If the restarting fails 3 times in 24 hours, the error code is displayed and the air-conditioner is definitely stop.

If the max level switch doesn't closes within 3 minutes, air-conditioner doesn't restart, the error code is displayed and the air-conditioner is definitely stop.

CAUSE:

During cooling operation:

- Dirty external exchanger
- Obstructed water distributor
- Water pump locked
- Locked floats
- Dirty water disposal system

During heating operation:

- Obstruced external drain system
- Faulty thermoactuator

ACTIONS: Check all the components above





21 – INTERNAL LOGIC EEPROM FAILURE

DESCRIPTION: Eeprom failure CAUSE: Faulty main board ACTIONS: Replace the main board

22 – COMPRESSOR OVERCURRENT FAULT

DESCRIPTION: The ipm board detects a compressor overcurrent CAUSE: Faulty ipm board ACTIONS: Replace Ipm board



24 – EXTERNAL AMBIENT TEMPERATURE TOO HIGH TO WORK IN HEATING MODE

DESCRIPTION:

?

CAUSE:

ACTIONS:

25 – INTERNAL AMBIENT TEMPERATURE TOO LOW TO WORK IN COOLING MODE

DESCRIPTION:

?

CAUSE:



26 – COMMUNICATION FAILURE BETWEEN IPM AND MAIN BOARD

DESCRIPTION:

?

CAUSE:

ACTIONS:

27 – DRIVER BOARD BUS OVERVOLTAGE

DESCRIPTION:

NOT USED

CAUSE:



28 – DRIVER BOARD BUS UNDERVOLTAGE

DESCRIPTION:

NOT USED

CAUSE:

ACTIONS:

30 – COMPRESSOR PHASE CURRENT PROTECTION

DESCRIPTION:

NOT USED

CAUSE:

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31 – EXTERNAL BOARD AC VOLTAGE TOO HIGH OR TOO LOW

DESCRIPTION:

Power board power supply out of range

CAUSE:

AC Power supply not correct

ACTIONS:

Check the power supply value, it should be 230 vac + - 10% If the value is good replace the power board.



32 – EXTERNAL BOARD AC CURRENT PROTECTION

DESCRIPTION:

Externa board AC current protection CAUSE: AC Power supply not correct

ACTIONS:

Check the power supply value, it should be 230 vac + - 10%

If the value is good replace the power board.

Check the total current absorption, if within the standard replace the power board



33 – DC BUS VOLTAGE TOO HIGH OR TOO LOW

DESCRIPTION:

When DC voltage is lower than 140 vdc or higher than 400 vdc

CAUSE:

Faulty power board

AC Power supply not correct

ACTIONS:

Check the power supply value, it should be 230 vac + - 10% If ok replace the power board

34 – DRIVER BOARD AND DISPLAY COMMUNICATION FAILURE

DESCRIPTION:

NOT USED CAUSE:



MAIN SCREENS

APP





SERVICE MENU'

APP







ADVANO	SED SETTINGS
VARIABLES	ALARM DATALOG
-	
-	
Mode	heat
siient	OFF
ECO	OFF
Temp Current	24°C
Temp indoor coil	43°C
Temp outdoor coil	9°C
Temp discharge	52°C
lemp odu	23°C
Temp Set	26°C
Compressor frequency	51Hz
nternal fan speed	1330rpm
External fan speed	600rpm
Opening EXV	270steps
Four-way valve	OFF
Condensed water faucet	OFF
Condensed water alarm	OFF
Condensed water level	OFF

OLIMPIA SPLENIDID





SERVICE MENU'

Mode heat	Heat/cool/fan
Silent OFF	State of the function
Eco OFF	State of the function
Temp Current 24°C	Indoor air temperature sensor (CN600)
Temp indoor coil 43°C	Internal exchanger temperature sensor (CN601)
Temp outdoor coil 9°C	External exchanger temperature sensor (CN4)
Temp discharge 52°C	Compressor discharge temperature sensor (CN4)
Temp odu 23°C	Outdoor air temperature sensor (CN4)
Temp Set 26°C	Air setpoint
Compressor frequency 51Hz	Actual compressor frequency
Internal fan speed 1330rpm	
External fan speed 600rpm	
Opening EXV 270steps	
Four-way valve OFF	State of the 4 way valve OFF: heating ON: cooling
Condensed water faucet OFF	State of the thermoactuator OFF: not energized ON: energized
Condensed water alarm OFF	State of the high level water float (safety) OFF: contact closed ON: contact open
Condensed water level OFF	State of the low level water float (pump activation) OFF: contact open ON: contact closed





SHARE DEVICE (FOR EVERYONE)







APP



SHARE DEVICE (FOR OS REMOTE SUPPORT ONLY)



09:57 🔌		all 🗢 (82)
<	SETTINGS	2
°C	*	
CLICK	ON THE PE	ÎN
ADVANCED :	SETTINGS	>
HELP		>

12:24 🔌	ul 🗢 🚯	12:24 🔌	u 🗢 🚯
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		Virtual ID: bf61a20af90e0b9dcc	lkzxe Copy
• • UNICO/MAESTRO	<u>×</u> >	IP: 178.238.61.*	
Device Information		Mac: cc:8c:bf:c7:90:85	
Tap-to-Run and Automation		Time Zone: Europe/Rome	
		Signal Strength: -39dBm	
Third-party Control			\wedge
O			
Alexa Google Assistant			
Device Offline Notification			
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Device Update No	o updates available $>$		
Remove Device			