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› [OLMO](#) /

› OLMO 15,000 BTU PTAC Heating and Cooling Air Conditioner with 5 kW Electric Heater (Model OS-MBW-15HS) User Manual

OLMO OS-MBW-15HS

OLMO 15,000 BTU PTAC Heating and Cooling Air Conditioner with 5 kW Electric Heater (Model OS-MBW-15HS) User Manual

This manual provides instructions for the installation, operation, and maintenance of your OLMO Packaged Terminal Air Conditioner.

1. INTRODUCTION

The OLMO 15,000 BTU PTAC unit is an all-in-one heating and cooling solution designed for various applications including residential, commercial, and hospitality settings. It features a 5 kW electric heat strip, R-32 refrigerant, and includes a wireless smart kit and remote controller for convenient operation.



Figure 1: OLMO 15,000 BTU PTAC unit with remote control and smartphone app interface.

Video 1: Overview of the OLMO Packaged Terminal Air Conditioner features and design.

2. SAFETY INFORMATION

Read all safety warnings and instructions before installing or operating this unit. Failure to follow these instructions may result in property damage, personal injury, or death. Keep this manual for future reference.

General Safety Precautions

- Always disconnect power before performing any maintenance or service.
- Ensure the unit is properly grounded to prevent electrical shock.
- Installation of new units should be performed by a qualified technician.
- Do not block air inlets or outlets.
- Do not insert objects into the unit.
- Use only the specified refrigerant (R-32).

3. SETUP AND INSTALLATION

This unit is designed for 230/208V, 1Ph, 60Hz electrical systems and comes with a 25A power plug with a reset breaker. Ensure your electrical receptacle is compatible before purchase and installation.



Figure 2: 230V standard power plug with reset and test buttons, rated for 25A, 240V, 60Hz.

For new installations, a wall sleeve and exterior grille are required and must be purchased separately. The unit is engineered for a standard 42-inch sleeve. Proper installation of these components is crucial for unit performance and safety.



Figure 3: Standard dimensions of the OLMO PTAC unit: 42 inches wide, 21 inches deep, and 16 inches high.

Unpacking

- Carefully remove the unit from its packaging.
- Inspect the unit for any shipping damage. Report any damage to the carrier immediately.
- Ensure all accessories, including the remote control and smart kit, are present.

Electrical Requirements

- **Voltage:** 230/208V, Single Phase, 60Hz.
- **Amperage:** Requires a dedicated 25A circuit.
- **Plug Type:** The unit comes with a specific 25A power plug. Verify compatibility with your wall receptacle.

Wall Sleeve and Grille Installation

- A wall sleeve and exterior grille are essential for proper installation and are **not included** with the unit. They must be purchased separately.
- Install the wall sleeve according to the manufacturer's instructions, ensuring it is level and securely fastened.
- Once the sleeve is in place, slide the PTAC unit into the sleeve.
- Attach the exterior grille to the wall sleeve from the outside.

4. OPERATING INSTRUCTIONS

Your OLMO PTAC unit offers multiple control methods: the digital push-button control panel on the unit, the included remote controller, and a compatible wireless smartphone device via the Smart Kit.

Control Panel

The unit features a digital push-button control panel with an LED display for direct operation. Functions typically include:

- **Power Button:** Turns the unit ON or OFF.
- **Mode Button:** Cycles through operating modes (Cool, Heat, Fan, Dry).
- **Temperature Up/Down Buttons:** Adjusts the desired temperature setting.
- **Fan Speed Button:** Selects fan speed (Low, High).

Remote Controller

The included remote control provides convenient access to all unit functions from a distance.



Figure 4: The OLMO PTAC remote control with an LCD display and various function buttons.

- **Power:** Turns the unit ON/OFF.
- **Mode:** Selects operating mode (Cooling, Heating, Fan Only, Dehumidify).
- **Temp ▲/▼:** Adjusts temperature.
- **Fan:** Changes fan speed (Low, High).
- **Sleep:** Activates Comfortable Sleep Mode.
- Refer to the remote control manual for a complete list of functions.

Wireless Smart Kit (App Control)

The included wireless smart kit allows you to control your PTAC unit remotely using a smartphone or tablet.



Figure 5: Smartphone screen displaying the OLMO Smart Connect app interface for controlling the PTAC unit.

- **Setup:** Follow the instructions provided with the wireless smart kit to connect it to your home Wi-Fi network and pair it with your PTAC unit.
- **App Download:** Download the compatible OLMO Smart Connect app from the iOS App Store or Google Play Store.
- **Remote Control:** Use the app to adjust temperature, switch between heating and cooling modes, set schedules, and monitor usage from anywhere.

Operating Modes

- **Cooling:** Provides 15,000 BTU of cooling capacity.
- **Heating:** Utilizes a 5 kW electric heat strip for effective heating.
- **Fan Only:** Circulates air without heating or cooling.
- **Dehumidify:** Removes excess moisture from the air.

Special Features

- **Auto Defrost:** Prevents ice buildup on the outdoor coil in heating mode.
- **Auto Restart:** Automatically restarts the unit with previous settings after a power outage.
- **Comfortable Sleep Mode:** Adjusts temperature settings during sleep for enhanced comfort and energy savings.
- **Dual Fan Speeds:** Offers flexibility in airflow control.
- **Self-Evaporative System:** Helps manage condensate without external drainage in most conditions.
- **LED Display:** Provides clear indication of settings and status.
- **Compatible with 24V Thermostat:** Allows integration with external 24V thermostats for advanced control.

5. MAINTENANCE

Regular maintenance ensures optimal performance, energy efficiency, and longevity of your OLMO PTAC unit.

Air Filter Cleaning

The unit features washable air filters. Regularly clean the filters to maintain optimal performance and air quality. Dirty filters can reduce airflow, decrease efficiency, and lead to unit malfunction.

WASHABLE AIR FILTERS

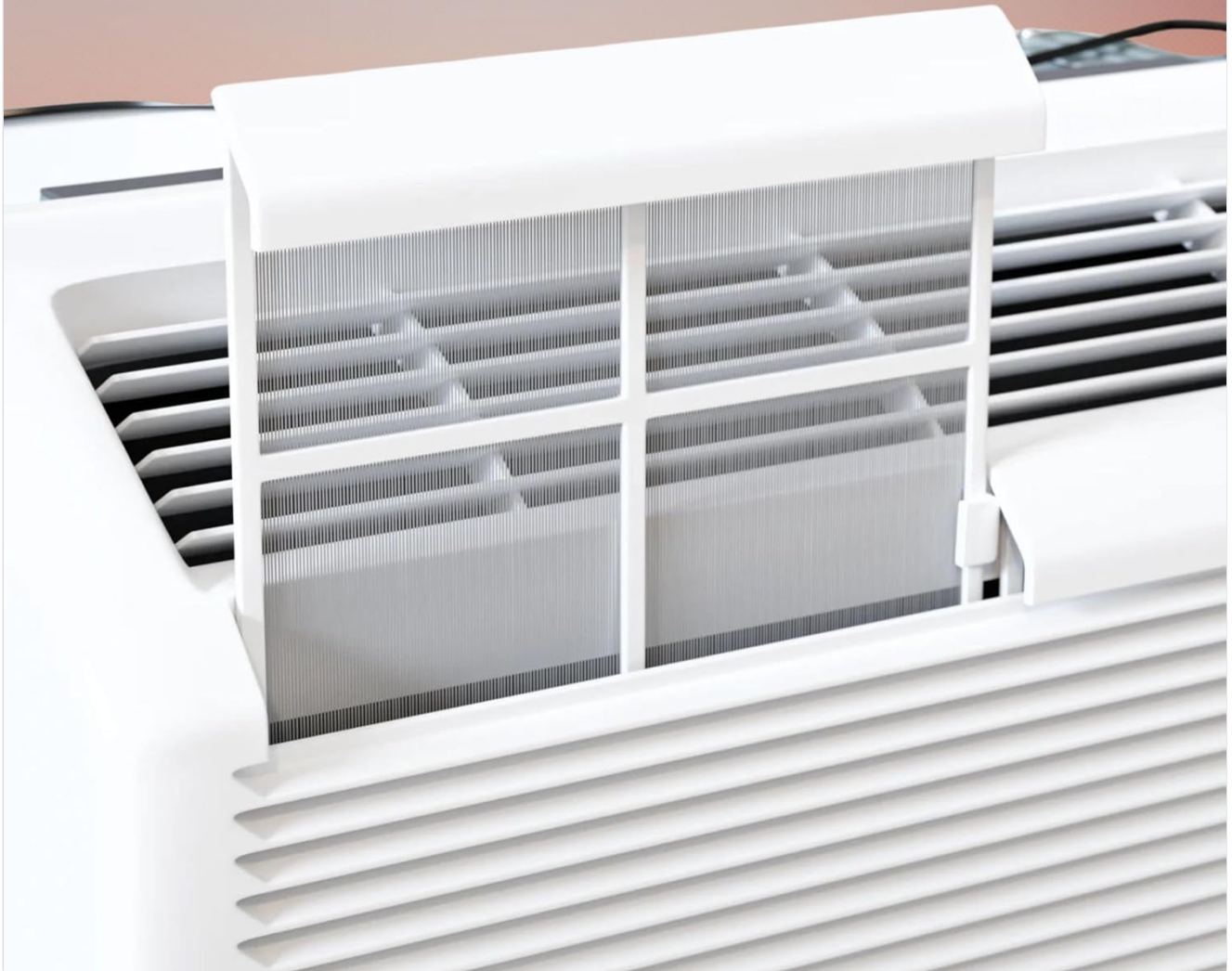


Figure 6: Washable air filter being removed from the OLMO PTAC unit.

- **Frequency:** Clean filters every 2-4 weeks, or more often if the unit is used frequently or in dusty environments.
- **Removal:** Open the front panel of the unit and carefully slide out the air filters.
- **Cleaning:** Wash the filters with warm, soapy water. Rinse thoroughly and allow them to air dry completely before reinstallation. Do not use harsh chemicals or abrasive cleaners.
- **Reinstallation:** Slide the dry filters back into their slots and close the front panel.

Exterior Cleaning

- Wipe the exterior casing with a soft, damp cloth.
- Do not use abrasive cleaners, waxes, or polishes.

6. TROUBLESHOOTING

This section provides solutions to common issues you may encounter. If the problem persists after attempting these solutions, contact customer support.

Problem	Possible Cause	Solution
Unit does not turn on	No power supply; Tripped circuit breaker; Loose power cord connection.	Check power cord connection; Reset circuit breaker; Ensure power outlet is functional.
Insufficient cooling or heating	Dirty air filter; Blocked air intake/outlet; Incorrect mode selected; Temperature setting too high/low.	Clean air filter; Clear obstructions; Select appropriate operating mode; Adjust temperature setting.
Unit is noisy	Loose components; Fan obstruction; Unit not level.	Inspect for loose parts and tighten; Remove any fan obstructions; Ensure unit is installed level.
Water leakage	Blocked condensate drain; Unit not level.	Check and clear condensate drain; Ensure unit is installed level.
Remote control not working	Dead batteries; Obstruction between remote and unit; Remote out of range.	Replace batteries; Remove obstructions; Operate remote within specified range.

7. SPECIFICATIONS

Detailed technical specifications for the OLMO 15,000 BTU PTAC unit (Model OS-MBW-15HS).

Model			OS-MBW-09HS	OS-MBW-12HS	OS-MBW-15HS
Power Supply		V-Ph-Hz	208-230V-1Ph-60	208-230V-1Ph-60	208-230V-1Ph-60
Cooling	Capacity	Btu/h	9200/9000	12000/11500	14700/14500
	EER2	W/W	11.3	10.7	10.6
	Input	W	790/780	1080/1060	1390/1370
	Current	A	4.3/4.9	5.5/6.1	7.5/8.9
Heating (Heat Strip)	Rated Capacity	Btu/h	10900/8900	10900/8900	15000/12200
	Rated Input (Heater)	W	3.5	3.5	5
	Rated Current	A	15.3/13.7	14.96/13.7	22.3/20.1
Refrigerant Type		Type	R32	R32	R32
		oz	15.16	15.16	21.51
Indoor Air Flow (Hi/Mi/Lo)		ft3/min	430.0/342.3	431.1/348.2	430.0/349.4
Indoor Noise Level (Hi/Mi/Lo)		dB(A)	50/49.5	52/51.5	51/50.5
Outdoor Air Flow (Hi/Med/Lo)		ft3/min	467.7/394.1/333.5	424.7/360.6/296.5	544.1/485.3/424.1
Outdoor Side Noise Level (Hi/Med/Lo)		dB(A)	63	67	65
Design Pressure (Lo/Hi)		PSI	300/580	300/580	300/580
Operation Temp	Indoor (cooling/heating)	°F	63°F-90°F/32°F-80°F	63°F-90°F/32°F-80°F	63°F-90°F/32°F-80°F
	Outdoor (cooling/heating)	°F	64°F-109°F/41°F-75°F	64°F-109°F/41°F-75°F	64°F-109°F/41°F-75°F
Dimension(WxDxH)		in	42x21x16	42x21x16	42x21x16
Packing (WxDxH)		in	44.5x25x19.3	44.5x25x19.3	44.5x25x19.3
Net/Gross Weight		lbs	97.0/105.8	103.6/112.4	105.8/114.6

Figure 7: OLMO PTAC Model Specifications Chart.

Feature	Detail
Brand	OLMO
Model Name	OLMO 15,000 BTU PTAC Packaged Terminal Air Conditioner

Feature	Detail
Model Number	OS-MBW-15HS
Cooling Power	15,000 British Thermal Units
Heating Power	5 kW Electric Heater
Voltage	230 Volts
Refrigerant Type	R-32
Product Dimensions (D x W x H)	21"D x 42"W x 16"H
Item Weight	115 Pounds
Noise Level	65 Decibels
Control Method	App, Remote, Touch
Installation Type	Packaged (Through-the-Wall)
Included Components	Packaged Terminal Air Conditioner, Remote Control, Smart Connect Kit

8. WARRANTY INFORMATION

The OLMO PTAC unit comes with a **1 Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use. For detailed terms and conditions, including coverage specifics and limitations, please refer to the warranty card included with your product. Keep your purchase receipt as proof of purchase for warranty claims.

9. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or warranty claims, please contact OLMO customer support. You can find contact information on the OLMO website or through the retailer where you purchased the product.

Visit the [OLMO Store on Amazon](#) for more information and potential contact options.