



Whirlpool WAHMS Installation Instructions And Owner's Manual

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AIR HANDLER INSTALLATION INSTRUCTIONS



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Recognize this symbol as a safety precaution.

Recognize Safety Symbols, Words and Labels

The following symbols and labels are used throughout this manual to indicate immediate or potential hazards. It is the owner's responsibility to read and comply with all safety information and instructions accompanying these symbols. Failure to heed safety information increases the risk of serious personal injury or death, property damage and/or product damage.



WARNING

Hazards or unsafe practices could result in property

Goodman 1

damage, product damage, severe personal injury or death.

CAUTION

Hazards or unsafe practices may result in property damage, product damage, personal injury or death.

Whirlpool

Models WAHMS, WAHME
WPIO-355B

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AIR HANDLER SAFETY

Hazards or unsafe practices may result in property or product damage.

Installation and repair of this unit should be performed ONLY by individuals meeting the requirements of an "Entry Level Technician" as specified by the Air-Conditioning, Heating and Refrigeration Institute (AHRI). Attempting to install or repair this unit without such background may result in product damage, personal injury or death.

Disconnect ALL power before servicing.

Multiple power sources may be present.

Failure to do so may cause property damage, personal injury or death.

This product is factory-shipped for use with 208/240/1/60

electrical power supply. DO NOT reconfigure this air handler to operate with any other power supply.

CAUTION

Goodman 9

WARNING

Goodman 7

WARNING

HIGH VOLTAGE!

Goodman 6

WARNING

Goodman 33



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Related Manuals for Whirlpool WAHMS

[Air Conditioner Whirlpool WAHMS Installation Instructions Manual](#)

Air handler (16 pages)

[Air Handlers Whirlpool WMAHM Installation Instructions Manual](#)

(24 pages)

[Air Handlers Whirlpool WAHU Installation Instructions Manual](#)

Up to 60" (16 pages)

[Air Handlers Whirlpool WM Series Manual](#)

Multiposition air handler (6 pages)

Summary of Contents for Whirlpool WAHMS

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Failure to do so may cause property damage, personal injury or death. WARNING Goodman 33 This product is factory-shipped for use with 208/240/1/60 electrical power supply. DO NOT reconfigure this air handler to operate with any other power supply. Whirlpool ® Models WAHMS, WAHME WPIO-355B...

[Page 2: Installation Requirements](#)

WARNING DANGER To avoid property damage, personal injury or death due to electrical shock, this unit MUST have an uninterrupted, unbroken electrical ground. The electrical ground circuit may consist of an appropriately sized electrical wire connecting the ground lug in the unit control box to the Goodman 34 building electrical service panel.

[Page 3: Tools And Parts](#)

Do not remove the cabinet knockouts until it has been The air handler must be installed in such a way as to allow determined which knockouts will need to be removed for the free access to the coil/filter compartment and blower/control installation.

[Page 4: Electrical Requirements](#)

WVAHM WAHME Filter Quantity Upon receipt of air handler, thoroughly inspect it for possible WAHMS Number Required shipping damage. Closely examine the air handler inside the carton if the carton is damaged. 1729 FIL 18-32 If damage is found, it should be noted on the carrier's freight...

[Page 5: Installation Configurations](#)

Installation Configurations For ease in installation, it is best to make any necessary coil configuration changes before setting the air handler in place. See "Installation Configuration Options." Upflow air discharge contains only 1 drain pan. Upflow or horizontal airflow contains 2 drain pans. Vertical Installations Upflow The air handler must be supported on the bottom only and set on...

[Page 6](#) NOTE: The DPI kit is not supplied with this product and is to be purchased separately. See the following chart for the correct DPI kit. WVAHM or WAHMS Model Insulation Kit A. 3" (7.6 cm) flat insulation retainer (both sides)

[Page 7: Install Condensate Drain](#)

See the following chart for the correct DPIH kit. Ensure that the Neoprene gasket with PSA remains intact on all WVAHM or WAHMS Model Insulation Kit surfaces that the access panels are secured to. These surfaces...

[Page 8: Install Ductwork](#)

Typical Condensate Drain Connection (Secondary Drain Not Shown) Verify Orifice Size 1. Consult the outdoor unit literature to determine whether the indoor unit has the correct orifice installed.
2. If a change of the orifice is required, loosen the brass hex nut and separate the orifice extension stub from the brass hex fitting.

[Page 9: Make Electrical Connections](#)

10. After the tailpiece has cooled, confirm position of the white seal and hand-tighten the $\frac{13}{16}$ " nut. Tubing Preparation Teflon ® All cut ends are to be round, burr free and clean. Failure to follow CAUTION this practice increases the chances for refrigerant leaks. The Goodman 8 suction line is spun closed and requires pipe cutters to remove the closed end.

[Page 10: Multiple Power Sources May Be Present](#)

5. Connect the ground wire to the ground terminal marked WARNING "GND." 6. Replace the blower access panel. To avoid property damage, personal injury or death due to electrical shock, this unit MUST have an uninterrupted, 208-Volt Conversion Goodman 34 unbroken electrical ground.

[Page 11](#) Temperature Rise Table °F—220/1/60 Supply Voltage Heat Kit Nominal kW—°F (°C) 3 (-16.1) 5 (-15) 6 (-14.4) 8 (-13.3) 10 (-12.2) 15 (-9.4) 20 (-6.7) 21 (-6.1) 17 (-8.3) 27 (-2.8) 34 (1.1) 39 (3.9) 13 (-10.6) 20 (-6.7) 25 (-3.9) 30 (-1.1) 40 (4.4) 1,000...

[Page 12: Multiple Power Sources May Be Present](#)

WARNING HIGH VOLTAGE! Disconnect ALL power before servicing. Goodman 6 Long - top of each page Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death. Wiring Diagram—Low Voltage for Cooling Unit with Optional Heat Kit 10kW and Below #18 Gauge - 4 Wires With Cooling, Room Thermostat 3 Wires Without Cooling...

[Page 13: Multiple Power Sources May Be Present](#)

Disconnect ALL power before servicing. Goodman 6 Long Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death. System Composite Diagram—WVAHM/VAHMS 18 to 60—10kW and Below Conventional Heat Pump Room Thermostat #18 Gauge - 7 Wire...

[Page 14](#) NOTES: 1. Outdoor Thermostat 1 should be the first to close and the last 3. Remove this wire when using an outdoor thermostat. to open. 4. EHR—Emergency heat relay (optional)
2. Connect the white and brown wires from the air handler if Outdoor Thermostat 2 is not used.

[Page 15: Multiple Power Sources May Be Present](#)

WARNING HIGH VOLTAGE! Disconnect ALL power before servicing. Goodman 6 Long Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death. Thermostat Connection—Cooling Unit with Optional Heat Kits of 15kW and Above—2-Stage Heat #18 Gauge - 5 Wire With Cooling, Room 4 Wire Without Cooling...

[Page 16: Multiple Power Sources May Be Present](#)

WARNING HIGH VOLTAGE! Disconnect ALL power before servicing. Goodman 6 Long Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death. Thermostat Connection—Heat Pump Unit with Optional Heat Kits of 15kW and Above Heat Pump Room Thermostat #18 Gauge 7 Wire...

[Page 17: Complete Installation](#)

Electronic Blower Time Delay Relay Normal Time Delays 60Hz 50Hz WARNING Turn On Delay 7 sec. ± 1% 8.4 sec. ± 1% Turn Off Delay 65 sec. ± 1% 78 sec. ± 1% HIGH VOLTAGE! Disconnect ALL power before servicing. Goodman 6 Field Test Mode Shorting the Speedup quick connect to C decreases times as...

[Page 18: Multiple Power Sources May Be Present](#)

Have all unused orifice replacement parts and packaging Motor Speed Adjustment been disposed of/recycled? The motors in all WVAHM and VAHMS motors are multi-speed Is the filter clean, in place, and of adequate size? PSC motors. The color of the wire coming from the motor

to the Is the wiring neat, correct, and in accordance with the wiring “COM”...

[Page 19: Sequence Of Operation](#)

CFM Delivery WAHME Motor The following table shows the CFM speed tap settings for the WAHME. The WAHME air handler features a General Electric energy saving X13 motor. The X13 motor is a constant torque motor with very Factory Speed Setting 4 low power consumption.

[Page 20: Assistance Or Service](#)

If you need further assistance, you can write to the below address with any questions or concerns: Accessories ® Whirlpool Home Cooling and Heating To order accessories, contact your Whirlpool ® Home Cooling and 14610 Breakers Drive Heating dealer. Jacksonville, FL 32258 Please include a daytime phone number in your correspondence.

This manual is also suitable for:

[Wahme](#)