

Whirlpool WAHMS Installation Instructions Manual

Air handler

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See also: Installation Instructions & Owner's Manual



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ATTENTION INSTALLATION PERSONNEL

As a professional installer, you have an obligation to know the product better than the customer. This includes all

safety precautions and related items. Prior to actual installation, thoroughly familiarize yourself with this instruction

manual. Pay special attention to all safety warnings. Often during installation or repair, it is possible to place

yourself in a position which is more hazardous than when the unit is in operations.

Remember, it is your responsibility to install the product safely and to know it well enough to be able to instruct a

customer in its safe use. Safety is a matter of common sense...a matter of thinking before acting. Most dealers have

a list of specific good safety practices...follow them.

The precautions listed in this installation manual are intended as supplemental to existing practices. However, if

there is a direct conflict between existing practices and the content of this manual, the precautions listed here take

precedence.

Whirlpool

Models WAHMS, WAHME

WPIO-355E

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Related Manuals for Whirlpool WAHMS

<u>Air Handlers Whirlpool WAHMS Installation Instructions And Owner's Manual</u>

(20 pages)

Air Conditioner Whirlpool 66161279 Use And Care Manual

Window air conditioner (60 pages)

Air Conditioner Whirlpool 1159801 Use And Care Manual

Whirlpool air conditioners 1159801 use & care guide (22 pages)

Air Conditioner Whirlpool 1187361 Use And Care Manual

Whirlpool air conditioner 1187361 use & care guide (32 pages)

Air Conditioner Whirlpool 3QACM07XD2 Owner's Manual

Whirlpool room air conditioners owner's manual (14 pages)

Air Conditioner Whirlpool 3PACH21DD0 Owner's Manual

Whirlpool room air conditioner owner's manual (20 pages)

<u>Air Conditioner Whirlpool 4380701 Use & Care Manual And Installation</u> Instructions

Whirlpool room air conditioner 4380701 use and care guide (36 pages)

Air Conditioner Whirlpool AC0052 Use And Care Manual

Whirlpool air conditioners use and care ac0052, acq062 (16 pages)

Air Conditioner Whirlpool AC1052XS Use And Care Manual

Whirlpool room air conditioner use and care guide acp552xt acp602xt aco802xs ac1052xs (8 pages)

Air Conditioner Whirlpool AC1 352 Use & Care Manual

Whirlpool compact air conditioner useandcare ac1 352 (8 pages)

Air Conditioner Whirlpool ACC082XR0 Use And Care Manual

Whirlpool room air conditioner use & care guide room air conditioner (32 pages)

Air Conditioner Whirlpool ACC602XP0 Use And Care Manual

Whirlpool corporation room air conditioners use and care guide room air conditioners (16 pages)

Air Conditioner Whirlpool ACD052PK0 Use & Care Manual And Installation Instructions

Whirlpool room air conditioner use and care guide (36 pages)

Air Conditioner Whirlpool ACE082XH0 Use And Care Manual

Whirlpool room air conditioners use & care guide (28 pages)

Air Conditioner Whirlpool ACE082XP1 Use And Care Manual

Whirlpool air conditioner use & care guide (28 pages)

Air Conditioner Whirlpool ACE082XR0 Use And Care Manual

Whirlpool room air conditioner use & care guide (28 pages)

Summary of Contents for Whirlpool WAHMS

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System Composite Diagram—WAHMS 18 to 60— ELECTRIC HEAT4 Above
10kW11 HKR Installation4 Wiring Diagram—Low Voltage for WAHMS
Cooling Unit ELECTRICAL SUPPLY WIRE AND MOP5 with Optional Heat Kit 10kW and

Below......11 Building Electrical Service Inspection 5 Wiring Diagram—Low Voltage for WAHMS Cooling Unit...

<u>Page 2</u> WARNING Recognize this symbol as a safety precaution. To avoid property damage, personal injury or death due to Recognize Safety Symbols, Words and Labels electrical shock, this unit MUST have an uninterrupted, The following symbols and labels are used throughout this manual to unbroken electrical ground.

Page 3: Important Note To The Owner Regarding Product Warranty

If you are replacing an air handler, the system must be manufacturer-approved and Air-Conditioning, Heating, and IMPORTANT NOTE TO THE Refrigeration Institute (AHRI) matched. OWNER REGARDING NOTE: Installation of unmatched systems is strongly discouraged. PRODUCT WARRANTY PREINSTALLATION Your warranty certificate is supplied as a separate document with INSTRUCTIONS the unit installed by your contractor.

Page 4: Return Ductwork

To ensure optimum performance, frequent filter cleaning is advised. Refer to the following chart for 1,600 the appropriate filter. 1,800 Quantity 2,000 WAHMS WAHME Filter Number Required Temperature Rise Table °F—208/1/60 Supply Voltage 1824 FIL 18-32 Heat Kit Nominal kW—°F...

Page 5: Electrical Supply Wire And Mop

ELECTRICAL SUPPLY WIRE AND MOP Maximum Allowable Length in Feet to WARNING Goodman 22 Limit Voltage Drop to 2%* To avoid the risk of fire or equipment damage, use Wire Minimum Circuit Ampacity (MCA) copper conductors. Size (AWG) WARNING HIGH VOLTAGE! Disconnect ALL power before servicing.

Page 6: Low Voltage Connections

IMPORTANT: Torch heat required to braze tubes of various sizes is proportional to the size of the tube. Tubes of smaller size Low Voltage Connections require less heat to bring the tube to brazing temperature before Several combinations of low voltage schemes are available, adding brazing alloy.

Page 7: Downflow Conversion

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. A. 3" (7.6 cm) flat insulation retainer (both sides) WVAHM or WAHMS Model Insulation Kit 12. To complete the conversion, slide the evaporator coil into the 1824 DPI18-30/20 chassis and attach the 3 access panels.

Page 8: Condensate Removal

The following describes converting to "Horizontal Left-Hand." 5. Install a condensate trap to ensure proper drainage. Conversion to downflow must be performed in an area that allows 6. If the secondary drain line is required, run the line separately access to all sides prior to placing the air handler in its final location. from the primary drain and end it where it can be easily seen.

Page 9: Achieving 2% Low Leakage Rate

= 4% (208V/240V). Motor Speed Adjustment WAHME MOTOR The motors in all WAHMS are multispeed PSC motors. The color of the wire coming from the motor to the "COM" terminal on the The WAHME air handler features an energy efficient blower control board defines in which speed the motor will operate.

Page 10: Thermostats

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. System Composite Diagram—WAHMS 18 to 60—10kW and Below NOTES: Typical H/P Color Codes...

Page 11: System Composite Diagram-Wahms 18 To 60-Above 10Kw

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-todate wiring. Wiring Diagram—Low Voltage for WAHMS Cooling Unit with Optional Heat Kit 10kW

Page 12: Wiring Diagram-Low Voltage For Wahms Cooling Unit With Optional Heat Kit 15Kw And Above

Goodman 6 Long Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death. Wiring Diagram—Low Voltage for WAHMS Cooling Unit with Optional Heat Kit 15kW and Above Room Thermostat Unit #18 Gauge - 4 Wire With Cooling,...

<u>Page 13: Thermostat Connection-Wahme Cooling Unit With Optional</u> Heat Kits Of 10Kw And Below

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—WAHME Cooling Unit with Optional Heat Kits of 10kW and Below #18 Gauge - 4 Wire With Cooling, Room Thermostat 3 Wire Without Cooling...

<u>Page 14: Thermostat Connection-Wahme Heat Pump Unit With Optional</u> Heat Kits Of 10Kw And Below

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—WAHME Heat Pump Unit with Optional Heat Kits of 10kW and Below Heat Pump Room Thermostat # 18 Gauge 7 Wire...

Page 15: Electronic Blower Time Delay Relay

ELECTRONIC BLOWER TIME DELAY RELAY NOTE: This is not applicable to WAHME models. TSTAT 120 / 240 V AC System XFMR-R Transformer Park Terminal Motor Neutral 24 V AC XFMR-C For Use With Heat Kit Optional Speedup Speedup Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring. The electronic blower time delay relay provides power to the Field Test Mode blower motor with a delay of 7 seconds after 24V AC is applied to...

Page 16: Assistance Or Service

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This manual is also suitable for:

WahmeWahms seriesWahme series