

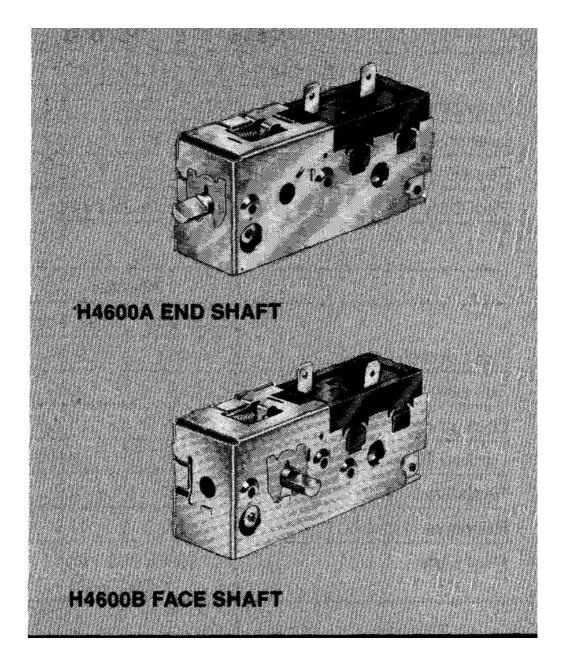
Honeywell Humidity Controllers User Guide

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HUMIDITY CONTROLLERS



H4600A,B; H6600B

THES E HUMIDI TY CONTRO LLERS PROVIDE AU AUTOMATIC SWITCHING CON CONTROL OF HUMIDIFICATION OR DEHUMID IFI CATION EQUIPMENT T. THEY AR E TYPI CALLY USED IN AP PLIANCE UNI TS SUCH AS PORTABLE HUMIDIFIERS AND DEHUMIDIFIERS, FURNACE POWERED HUMIDIFI ERS, FAN VENTI LATIN UNI TS, ETC.

- The long nylon ribbon sensing element provides a high driving force to assure reliable operation, even under changing ambient temperature conditions.
- The sturdy steel case has corrosion-resistant plating.
- Phenolic housing encloses the snap acting switch with 1 / 4 in. quick-connect terminals. Switch rated for line voltage and pilot operation.
- Shaft for adjusting the control point located on either the end or face of the device.
- Positive ON and OFF setting positions to permit manual operation of the controlled equipment.

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SPECIFICATIONS

, IMPORTANT,	
THE SPECIFICATIONS GIVEN IN THIS PUBLICATION DO NOT INCLUDE	NORMAL MANUFACTURING
TOLERANCES. THEREFORE, THIS UNIT MAY NOT MATCH THE LISTED	SPECIFICATIONS EXACTLY.
ALSO, THIS PRODUCT IS TESTED AND CA1. IBRATED UNDER CLOSELY	CONTROLLED CONDITIONS
AND SOME MINOR DIFFERENCES IN PERFORMANCE CAN BE EXPECTED	IF THOSE CONDITIONS ARE

CHANGED.

MO DELS:

MODEL	SYSTEM CONTROL	SCALE RANGE (RH)
H4600A	Dehumidifier	20-80%
H4600B	Humidifier	10-60%
H66008	Humidifier	10-60%

ELECTRICAL RATINGS (A at 50/60 Hz):

	H4600A		H4600B	
Full Lood	120 Vac	240 Vac	120 Vac	240 Vac
Full Load	10.0	5.0	4.	2.
Locked Rotor	45.0	23.	26.	13.
Resistive	12.0	6.0	12.0	6.0
Pilot Duty	50 VA at 24 Vac to 240 Vac			

	H6600B		
Full Load N.O. to C	120 Vac	240 Vac	
Tuli Load N.O. to C	4.	2.	
Full Load N.C. to C	3.0	2.	
Locked Rotor N.O. to C	26.	13.	
Locked Rotor N.C. to C	18.0	9.0	
Resistive N.O. to C	12.0	6.0	
Resistive N.C. to C	3.0	2.	
Pilot Duty	50 VA a 24 Vac to 240 Vac		

SE T POINT ADJUSTMENT: External flat shaft on end or face of control.

SW ITCHING: Enclosed, snap-acting. H4600A-SPST makes on RH increase H4600B-SPST makes on RH decrease

H6600B-SPDT makes N.C. to C on RH increase, N.O.

to C on RH decrease.

TYP E OF TERMINAL CONNECTION: 1 /4 in.

quick-connect.

SENSING ELEMENT: Nylon ribbon.

DIFFERENT AL: Nonadjustable, 4 to 6 percent RH.

OPERATING TEMPERATURE RANGE: 50 F to 125 F [10 C to 52 C].

SHI PPING AND STORAGE TEMPERATURE: Minus 30 F to plus 150 F [minus 34 C to plus 66 CJ.

MO UNITING MEANS: Metal case and cover, each having two mounting holes that will accept No. 6 sheet metal screws or self-tapping screws. Screw length limited on end shaft model. (See IN STELLA TI ON information.)

DIMENSI ONS: See Fig. 1.

UNDERWIRE TERS LA BORATORI ES INC. COMPONENT RECO GN IZED: File No. E4436, Guide No. XA PX2. CANADIAN STANDARDS ASSOCIATION COMPONENT RECO GN IZED: File No. LR 60804-1, Class No. 4813 02.

ORDERING INFORMATION

WHEN PURCHASING THIS PRODUCT FROM YOUR DISTRIBUTOR, REFER TO PRICE SHEETS FOR COMPLETE ORDERING NUMBER, OR SPECIFY

- 1. Order number.
- 2. Control shaft on end or face.

IF YOU HAVE ADDITIONAL QUESTIONS, NEED FURTHER INFORMATION, OR WOULD LIKE TO COMMENT ON OUR PRODUCTS OR SERVICES, PLEASE WRITE OR PHONE:

- 1. YOUR LOCAL HONEYWELL RESIDENTIAL SALES OFFICE (CHECK WHITE PA GES OF PHONE DIRECTORY).
- 2. RESIDENTIAL DIVISION CUSTOMER SERVICE
 HONEYWELL INC., 1885 DOUGLAS DRIVE NORTH
 MINNEAPOLIS, MINNESOTA 55422-4386 (612)542-7500

IN CANADA-HONEYWELL CONTROLS LIMITED/HONEYWELL LIMITEE, 740 ELLESMERE ROAD, SCARBOROUGH, ONTARIO M1P 2V9. INTERNATIONAL SALES AND SERVICE OFFICES IN ALL PRINCIPAL CITIES OF THE WORLD.

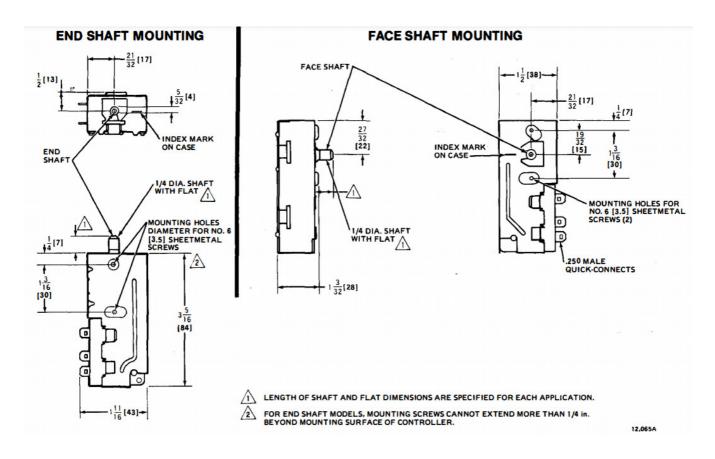


FIG. 1-INSTALLATION DIMENSIONS IN in. [mm IN BRACKETS] FOR H4600, H6600.

WHEN INSTALLING THIS PRODUCT ...

- 1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition
- 2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
- 3. The installer must be a trained, experienced service technician.
- 4. After installation is complete, check out product operation as provided in these instructions.

CAUTION

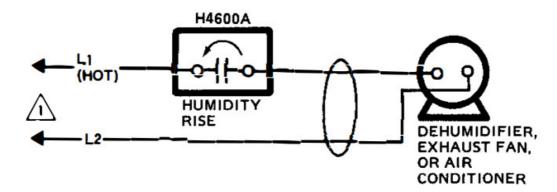
Disconnect power supply before beginning installation to prevent electrical shock or equipment damage.

MOUNTING

The H4600, H6600 mount in the intake airstream of a humidifier or dehumidifier. Do not mount in outlet air. Mount to surface with two No. 6 sheet metal screws or self-tapping screws through two holes in the case. For end-sh aft models, mounting screws cannot extend more than 1 /4 in. beyond the mounting surface of the controller.

WIRING

All wiring must comply with local codes and ordinances.

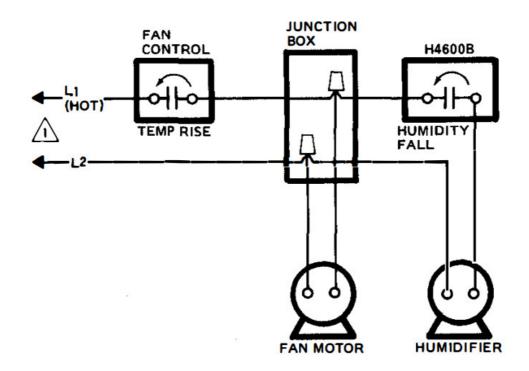


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POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

12,060

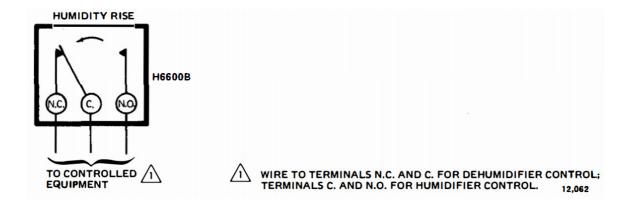
FIG. 2-TYPICAL WIRING DIAGRAM FOR H4600A.



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POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED. 12,061

FIG. 3-TYPICAL WIRING DIAGRAM FOR H4600B WITH SINGLE-SPEED FAN MOTOR.



OPERATION

H4600A DEHUMIDIFIER CONTROLLERS

The H4600A switch makes contact on a relative humidity rise to the set point to start the dehumidifier. A decrease in relative humidity to the setpoint minus the differential breaks the switch contact to stop the dehumidifier.

Turn the control knob clockwise to the setting stop to put the dehumidifier in the ON position. Set to the OFF position by turning the control knob counter clockwise to the stop.

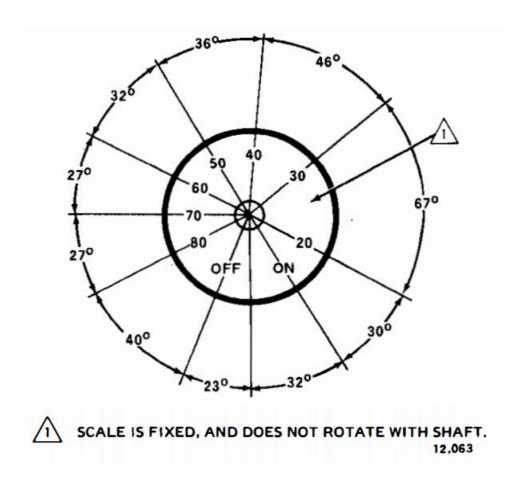


FIG. 5-H4600A STATIONARY SCALE PLATE LA YOUT.
INDEX MARK ON KN OB ROTATES WIT H ADJUSTMENT SHAFT.

H4600B HUMIDITY CONTROLLERS

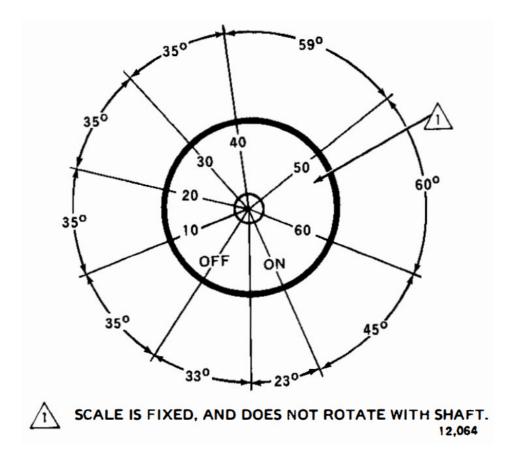
The H4600B switch makes contact on a humidity fall to the setpoint minus the differential. In most humidifier systems, the furnace fan must be operating before the humidifier starts. An increase in humidity to the setpoint breaks the switch contacts. (In-room humidifiers, the fan and humidifier operate together.)

Turn control knob clockwise to the stop for ON position. Set to the OFF position by turning the control knob counterclockwise to the stop.

H6600B SPOT CONTROLLERS

The H6600B controllers are used in humidity control systems requiring spdt switching. The switch makes terminals N.C. and C. on a rise in humidity and terminals C. and N.O. on a fall in humidity.

Turning the control knob counterclockwise to the stop will cause the switch (terminals C. and N.C.) to make, turning on the dehumidifier. Turning the switch clockwise to the stop will cause the switch (terminals C. to N.O.) to make, turning on the humidifier.



CHECKOUT

Place the system in operation and observe through at least one complete cycle to make certain all components are functioning properly.

Honeywell Inc.

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International Sales Offices in all principal cities of the world. Manufacturing in Australia, Canada, Finland, France, Germany, Japan, Mexico, Netherlands, Spain, Taiwan, United Kingdom, U.S.A. PRINTED IN U.S.A.

Documents / Resources



<u>Honeywell Humidity Controllers</u> [pdf] User Guide Humidity Controllers, H4600A END SHAFT, H4600B FACE SHAFT

Manuals+,