

Robertshaw®

9870i

DELUXE
PROGRAMMABLE
THERMOSTAT



HEAT PUMP



Homeowner Friendly™

Menu Driven Display
2 Heat / 2 Cool

Comfort Made Easy

Complete Temperature and Humidification / Dehumidification Control

We've combined humidity and temperature control in one easy-to-install, easy-to-program package. This versatile thermostat provides control over both humidification and dehumidification. Your customers will enjoy the maximum comfort and energy savings, and you will benefit from the time and effort saved by installing a single device that does the work of two.

Our 9870i thermostat combines all the award winning features of our 9700i series thermostats with the convenience of humidity control. When used in conjunction with our 9025i outdoor sensor, the 9870i minimizes condensation and maintains optimal comfort. We've even added a calibration feature to fine tune the thermostat to the individual's unique environment.

The 9870i is compatible with most standard 24 Volt AC heat pump systems, up to two stage heat and two stage cool. We took the guess work out and put simplicity in. It's programming made easy.



Features and Benefits

SELECT A LANGUAGE

ENGLISH
SPANISH

USER MENU SELECT

Bilingual Display Option

Set to your customer's unique lifestyle and language—*English or Spanish.*

MENU

PROGRAM
HEAT/COOL
HUMIDITY
DEHUMIDITY

HOME SELECT

Conversational Menus

Take programming step by step in plain, easy to understand language.

MONDAY PROGRAM

	WAKE	DAY	EVE	NIGHT	HEAT	COOL
	6:30A	8:30A	4:30P	10:30P	70	78
					62	85
					70	78
					62	82

MAIN MENU SELECT

Convenient Displays

View a full day of programming at once for quick review or easy adjustment.

CONTACT INFORMATION

AIR EXPERTS
555-2364

ACCEPT NEXT

Contractor ID Feature

Set your name and phone number to remind customers when service is needed.

Integrated Humidity Sensing – Automatically adjusts indoor humidity levels, prevents condensation and maintains desired comfort level.

Worry-Free Memory Storage – Even during power outages, the thermostat maintains setpoint and programmed parameters.

Fully Programmable – 7 day, 5/2, 5/1/1 or 24 hour programming menus.

Adjustable Events Per Day – 2 or 4 events per day for greater control of your customer's comfort.

High/Low Balance Point Control – When connected to the outdoor sensor, model 9025i, the thermostat can automatically control first and second stage activities with adjustable set points.

Selectable 2nd Stage Heating (Fossil Fuel Kit) – Choose internal auxiliary or a remote heating system.

Adjustable 1st and 2nd Stage Differential – Maintains optimal customer comfort.

Adjustable Timed Upstaging – Helps maintain optimal temperature or energy savings.

Remote Indoor and Outdoor Sensor Capable – For greater control of indoor comfort and system efficiency.

EER™ (Energy Efficient Recovery) – Increases energy savings. EER™ allows gradual recovery from setback temperature to minimize use of auxiliary systems.



Technical service available:

1-800-445-8299

M-F 7:00 a.m. - 5:30 p.m. CST



Two Year Warranty

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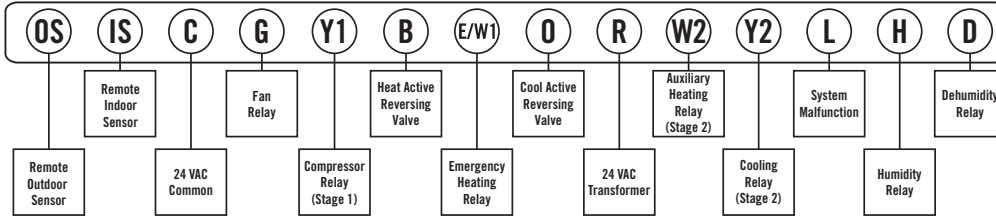
HEAT PUMP

Menu Driven Display
2 Heat / 2 Cool



Optional Sensors:
9020i REMOTE INDOOR
9025i REMOTE OUTDOOR

Terminal Designations



Shipping Information

Indiv. Ctn. Dim.: 6.625" x 4.25" x 1.625"
Master Ctn. Qty.: 6
Master Ctn. Dim.: 9.25" x 5.625" x 7.5"
Master Ctn. Cu. Ft.: .23
Master Ctn. Wt.: 3.5 lbs.
Max. Pallet Qty.: 1260
Max. Pallet Wt.: 785 lbs.

Item 9020i and 9025i Remote Sensors
Indiv. Ctn. Dim.: 2.625" x 1.5625" x 4.4375"
Master Ctn. Qty.: 6
Master Ctn. Dim.: 5.625" x 5.125" x 5.125"
Master Ctn. Cu. Ft.: .09
Master Ctn. Wt.: .78 lbs.

THE ROBERTSHAW 9870i REPLACES:

Honeywell, Inc.*	PC8900
Carrier Corp.*	P374-1100, THERMIDISTAT

* Verify specific application requirements before substitution.

Specifications

Electrical rating: 24 Volt AC (18-30 VAC)
1 amp maximum load per terminal (relay outputs)
4 amp total maximum load (all terminals combined)
Temperature control range: 45°-90°F (7°-32°C)
Accuracy: +/-1.0°F (+/-0.5°C)
Power Source: 24 VAC
Auto Changeover deadband: Selectable 2° to 8°F
Temporary temperature override: 3 hour maximum or next setpoint
Remote sensor capable: 1 indoor and 1 outdoor sensor
System configurations: Multi-stage heat pumps
Terminations: R, E, Y1, B, W2, Y2, L, O, G, C, IS, OS, H

Other Multi-Stage Heat Pump Thermostats

9720i: Programmable, 7 Day
9620: Programmable, 7 Day
9420: Non-Programmable
9820i: Humidification, 7 Day
9920i: Commercial, 7 Day

Feature Comparison

Feature Comparison	Robertshaw 9870i	Honeywell, Inc. PC8900	Carrier Corp. THERMIDISTAT
Manual Override	X	X	X
EEPROM	X	X	X
Compressor Short Cycle Protection	X	X	X
7 Day Programming	X	X	X
Resume	X	X	X
Auto Changeover	X	X	X
Line Powered	X	X	X
Programmable Fan	X	X	X
O & B Terminals	X	X	Partial
°F and °C	X	X	X
Status Indicators	X	X	X
Adjustable Differential	X	X	X
Gas/Electric	X	X	X
Energy Efficient Recovery	X	X	X
Manual Humidity Control	X	X	X
Automatic Humidity Control based on Outdoor Temperature	X	X	X
Dehumidity Control	X	X	X
Pre-Set Program	X	X	X
Independent Humidity & Dehumidity Control	X		
4 Hour Reserve	X	X	X
Events / day	2, 4	4	4
Hidden Service Level	X	X	X
Remote Outdoor Sensor	X	X	X
Security Key Pad	X	X	X
Vacation Setting	X	X	X
Air Filter Monitor	X	X	X
12 or 24 Hour	X	X	
Condensation Control	X	X	
Remote Indoor Sensor	X	X	
Large Display	X		X
Back Lighting	X		X
Service Interval Reminders	X		
5/2 Day Programming	X		
Adjustable Residual Cooling	X		
1/2 Degree Resolution	X		
Menu Driven (Ease of Programming)	X		
24 Hr. Programming	X		

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