

# Robertshaw®

# 9865i

DELUXE  
PROGRAMMABLE  
THERMOSTAT



GAS



ELECTRIC



OIL



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 9865i 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 9865i 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 9865i 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

		HEAT	COOL
WAKE	6:30A	70	78
DAY	8:30A	62	85
EVE	4:30P	70	78
NIGHT	10:30P	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, 4 or 6 events per day for greater control of your customer's comfort.

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

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

**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.

**Programmable Fan** – Energy cost savings. Allows user to set and provide continuous circulation for optimal comfort.

**Intermittent Fan** – For minimum hourly fan circulation rates for optimal filtration with minimal energy use.



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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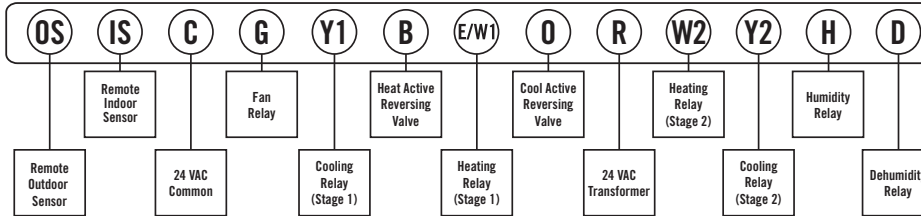
OIL

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 9865i 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 gas, oil or electric heating/cooling systems  
**Terminations:** R, W1, W2, Y1, Y2, B, O, G, C, IS, OS, H

## Other Multi-Stage Heat / Cool Thermostats

9715i: Programmable, 7 Day  
9615: Programmable, 7 Day  
9415: Non-Programmable  
9815i: Humidification, 7 Day  
9915i: Commercial, 7 Day

## Feature Comparison

Feature Comparison	Robertshaw 9865i	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, 6	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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**invensys**®

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