



## Low Voltage Heat Pump Thermostat

Manufacturer: Robertshaw

Model: 9720

Features: 7 Day Programmable  
3 Heat / 2 Cool  
Auto Changeover

Plus... QuickSet™ Programming Mode  
NiteView™ LCD Display Backlight  
Compressor Short Cycle Protection  
Energy Efficient Recovery (EER™)  
Programmable Keypad Lock  
Remote Temperature Sensors

### Description

The Model 9720 thermostat is loaded with intelligent features, providing the ultimate choice in flexibility. The modern design allow attractive and consistent temperature control. The large digital display and easily activated NiteView™ backlight make viewing and setting the temperature easy and accurate. For system safeguard the thermostat has automatic compressor short cycle protection which reduces wear and tear of HVAC equipment. The adjustable temperature differential maintains optimal customer comfort.

The 9720 thermostat meets Energy Star guidelines for energy efficiency and features a QuickSet™ programming mode that allows each day of the week to be programmed all at once. The Auto Changeover gives you the option to have heat or cool, keeping you comfortable year-round. The Energy Efficient Recovery (EER™) allows your system to operate at peak efficiency for optimal energy savings. EER™ looks up to 2 hours prior to the end of a set-back period to begin monitoring system performance and determine the most efficient time to turn on your system. During this period, the auxiliary stages of heating and cooling will be locked out. Only the most efficient stages will be utilized. At 20 minutes prior to the upcoming setpoint time, the auxiliary stages will be available to achieve temperature setpoint if required. These intelligent features allow you to control your comfort level as well as reduce energy costs up to 25%.

The 9720 thermostat is compatible with all standard 24 VAC multi-stage heating and cooling systems (3 heat and 2 cool). Multi-colored LED's indicate system status with Auxiliary (green), Check (red), and Emergency Heat (red). The thermostat is mercury-free which makes it environmentally safe and requires no leveling.

### Specifications

Electrical rating: 24 Volt AC (18-30 VAC)  
1.5 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: +/- .5°F (+/- .2°C)

Auto-changeover deadband: Selectable 3° or 5°F

DC Power: 3.0 Volt DC  
(4 "AA" alkaline batteries included)

Temporary temperature override: 4 hour maximum  
or next set point

Remote sensor capable: Averages up to 4 sensor  
inputs (3 remote plus  
main sensor)

System configurations: Multi-stage heat pump  
systems (Up to 3 stage  
heat, 2 stage cool)

Terminations: R, Y1, Y2, W2, W3, E, O, B, G, L, C,  
Gnd, T1, T2, T3, Tc

## Model Selection

Model Number	Description	List Price
9720	3 Heat / 2 Cool 7 Day programmable thermostat w/ auto changeover plus 6 unique features	\$339.00 ea.

## Accessories Selection

Model Number	Description	List Price
9015	Remote sensor for 9700 series thermostats	\$46.00 ea.
TG3	High impact plastic thermostat guard	\$39.00 ea.
TG3B	Metal thermostat guard	\$75.00 ea.

## Features / Benefits / Applications

- Attractive, StyleLine™ design
- 7 Day programming
- Visual and audible low battery indicator
- Adjustable 1st and 2nd stage temperature differential
- NiteView™ LCD display backlight
- Energy Efficient Recovery (EER™)
- Temporary Program Override
- Programmable keypad lock
- QuickSet™ programming mode
- 4 pre-programmed Energy Star® setpoints for each day of the week
- Programmable residual cooling fan delay for increased air conditioning efficiency
- Allow for up to 3 remote temperature sensors
- Energy Star® rated for energy savings
- Large digital display
- Automatic compressor short cycle protection
- Autochangeover mode automatically switches system from heat to cool
- High temperature protection
- Quick wire terminal block
- Environmentally safe
- Mercury-free
- No leveling required
- Detachable sub-base
- Filter monitor
- Remote sensor capable
- Programmable fan control

## Specifying Information

The EM Warehouse has many years of experience in spec writing, design-build and interpretation of written specifications. If we can assist you in this area just E-mail your requirements to [emw@ecs-controls.com](mailto:emw@ecs-controls.com).

## Ordering Information

Please contact an EM Warehouse (EMW) representative for the following:

- Wholesale Discount Multiplier - Issued to resellers, contractors and holders of an EIN.
- Retail Discount Multiplier - Issued to individuals and non-holders of an EIN.
- Quantity discounts - Let us help you save money when you need large quantities.
- Application for a line of credit - Submit an application, free of charge, for an open account.
- Product assistance - Receive help in selecting the right product for your needs and applications.
- Order placement - Place your order and receive confirmation on delivery.
- Request manufacturer data sheets - A detailed description of the product information and schematics.
- Request addition information - We are here to assist you in finding answers and alternatives.

The EM Warehouse (EMW) accepts: VISA, Master Card & American Express credit cards.

You can reach us by the telephone and fax numbers listed below or E-mail us at [emw@ecs-controls.com](mailto:emw@ecs-controls.com). Customers out-of-state can reach us using our 1-800-642-0538 toll free telephone line.

We look forward to servicing both you and your control needs now and in the future.