



Timers, whether used for defrost or electrical systems, are essential for the longevity and energy saving functionality of important equipment. The Paragon® defrost and the Tork® electric timers offer versatility and unbeatable quality to control power and compressor defrost cycles. Defrost products include electromechanical and electronic timers for commercial and residential applications.

Defrost Timers - Electromechanical D2
 Defrost Timers - Electronic D5
 Electric Timers - Electromechanical D8
 Electric Timers - Electronic D12
 Residential Defrost Timers..... D13



Timers





Timers

PARAGON®



Scan for all models, literature and cross reference



8045-00



8245-20

DEFROST TIMERS - ELECTROMECHANICAL

8000 Series

The Paragon® 8000 Series Commercial Defrost Controls are designed for commercial freezers and refrigerators to provide automatic defrost capability. They accommodate various types of defrost systems including electric defrost heaters, hot gas, and compressor off cycle.

Features and Benefits

- Time initiated; temperature, pressure or time terminated models available
- High-amp switch contacts: 40 amps, 2 HP
- Positive slider bar switch design assures positive electrical contact and wipes the contact surface of contaminants
- Temperature or pressure terminated models are designed for defrost termination using an external temperature or pressure device
- Safety back-up – mechanical time-driven defrost termination
- Heavy-duty synchronous design drive motor
- Choice of three contact arrangements
- Adjustable frequency of defrost initiation from 1 to 6 cycles per day with a minimum of 4 hours between successive operations
- Adjustable back-up defrost termination from 4 to 110 minutes in 2 minute increments
- Heavy-duty steel enclosure with knockouts (on the bottom, back and sides) and hasp and staple padlock
- All 8240 models have an adjustable cut-in pressure dial calibrated from 36-110 pounds for R12, R22, R502



Specifications

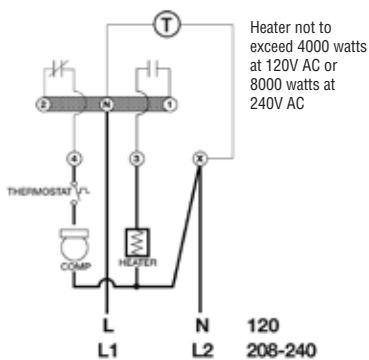
Part Numbers	Description	Switch Arrangement Contacts 2-4	Switch Arrangement Contacts 1-3	Switch Arrangement Contacts 3-N	Termination Type	Voltage
8041-00	Electric Heat	Closed	Open	Closed	Time	120V AC
8045-00	Electric Heat, Hot Gas or Compressor Shutdown	Closed	Open	None	Time	120V AC
8045-20	Electric Heat, Hot Gas or Compressor Shutdown	Closed	Open	None	Time	208-240V AC
8141-00	Electric Heat, Hot Gas or Compressor Shutdown	Closed	Open	Closed	Temp or Pressure	120V AC
8141-20	Electric Heat, Hot Gas or Compressor Shutdown	Closed	Open	Closed	Temp or Pressure	208-240V AC
8145-00	Electric Heat, Hot Gas or Compressor Shutdown	Closed	Open	None	Temp or Pressure	120V AC
8145-20	Electric Heat, Hot Gas or Compressor Shutdown	Closed	Open	None	Temp or Pressure	208-240V AC
8145-20B	Electric Heat, Hot Gas or Compressor Shutdown	Closed	Open	None	Temp or Pressure	208-240V AC
8245-20	Electric Heat, Hot Gas or Compressor Shutdown	Closed	Open	None	Pressure	208-240V AC
D81-8145-00EX*	Electric Heat, Hot Gas or Compressor Shutdown	Closed	Open	None	Temp or Pressure	120V AC
D81-8145-20EX*	Electric Heat, Hot Gas or Compressor Shutdown	Closed	Open	None	Temp or Pressure	208-240V AC

*International export models

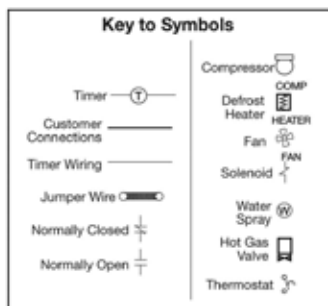
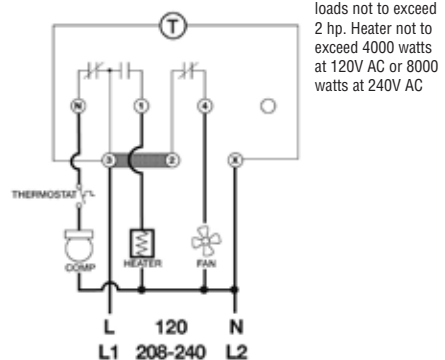
Product Drawings

Electric Heat Defrosting

Models 8045-00 and 8045-20 -
Wiring Diagram



Models 8041-00 and 8041-20 -
Wiring Diagram

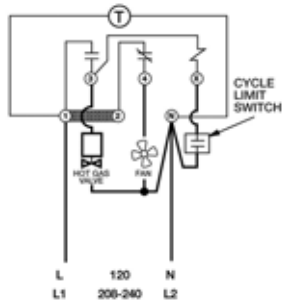




Product Drawings

Hot Gas Defrosting

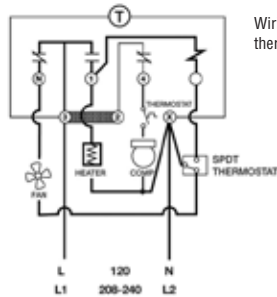
Models 8145-00, 8145-20 and E357-00 -
Wiring Diagram



Wiring using 120V or 240V single phase line with compressor thermostat closed during defrost.

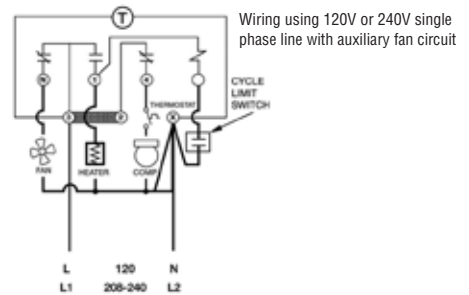
Electric Heat Defrosting

Models 8141-00 and 8141-20 -
Wiring Diagram



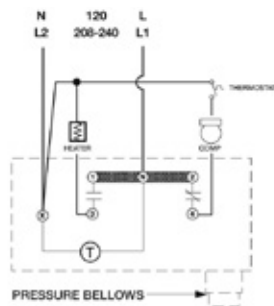
Wiring using differential of SPDT thermostat to delay fan after defrosting

Models 8141-00, 8141-20 -
Wiring Diagram



Wiring using 120V or 240V single phase line with auxiliary fan circuit

Models 8245-00 and 8245-20 -
Wiring Diagram



Wiring for electric heat system without magnetic starter

Key to Symbols	
Timer	T
Customer Connections	—
Timer Wiring	—
Jumper Wire	
Normally Closed	
Normally Open	
Compressor	COMP
Defrost Heater	HEATER
Fan	FAN
Solenoid	
Water Spray	
Hot Gas Valve	
Thermostat	



DEFROST TIMERS - ELECTRONIC

9000 Series

The Paragon® 9045-00 and 9145-00 Universal Defrost Timers (UDT) are the only multi-voltage defrost timers engineered to industry refrigeration standards.

Designed to withstand the most rigorous refrigeration applications, this control offers a real-time clock and 100 hours of power loss protection for both time and defrost schedules. Mechanism-only models also are available to fit in standard defrost timer enclosures.

Features and Benefits

- Certified to UL873 standard for temperature-indicating and regulating equipment
- Wires directly to 120V AC, 208V AC or 240V AC power sources without jumpers or switches
- Rated to 30,000 cycles for refrigeration controllers with switches
- Easy programming, easy set-up, set time, set defrost start and defrost end
- Initiate 15 minute manual defrost
- 100 hours of power loss protection for both time and defrost schedule
- Real-time clock
- Lighted display shows defrost start time and duration
- System status indicators



9045-00



9045-00M

PARAGON



Scan for all models, literature and cross reference



1 Year Limited Warranty



Timers

PARAGON[®]



Scan for all models, literature and cross reference

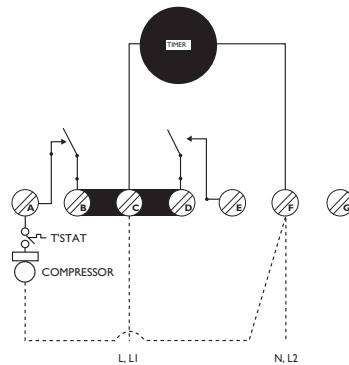
Specifications

Part Numbers	Description	Relay Switch	Initiation Type	Termination Type	Voltage
9045-00	Universal Defrost Timer	SPST	Time	Time	120-208-240V AC
9045-00M	Mechanism Only	SPST	Time	Time	120-208-240V AC
9145-00	Universal Defrost Timer	SPDT	Time	Time, Temp or Pressure	120-208-240V AC
9145-00M	Mechanism Only	SPDT	Time	Time, Temp or Pressure	120-208-240V AC

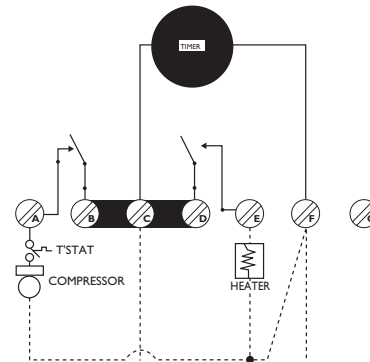
9045 Terminal Data	A	B	C	D	E	F	G
Relay Contact	SPST #1 NC Contact	SPST #1 Common Contact	L1 Power in to Timer	SPST #2 No Contact	SPST #2 Common Contact	L2/N Power in to timer	No Connection
Relay Rating	30 A resistive @ 120 to 240V AC, 1 HP @ 120V AC, 2 HP @ 208 to 240V AC			30 A resistive @ 120 to 240V AC, 1 HP @ 120V AC, 2 HP @ 208 to 240V AC			
Device Connections	Compressor (Typical)			Defrost Device (Typical)		Defrost Termination Switch	

9145 Terminal Data	A	B	C	D	E	F	G
Relay Contact	SPDT NC Contact	SPDT NO Contact	SPDT Common Contact	SPST NO Contact	SPST Common Contact	L2/N Power in to timer	Defrost Termination Device Input L2/N side
Relay Rating	15 A resistive @ 120 to 240V AC, 1/4 HP @ 120V AC, 1/2 HP @ 208 to 240V AC	30 A resistive @ 120 to 240V AC, 1 HP @ 120V AC, 2 HP @ 208 to 240V AC	L1 Power to Timer and to Defrost Termination Device		30 A resistive @ 120 to 240V AC, 1 HP @ 120V AC, 2 HP @ 208 to 240 AC	Compressor (Typical) Fan (Optional)	
Device Connections	Fan (Typical) Compressor (Optional)	Defrost Device (Typical)	L1 Power to Timer and to Defrost Termination Device		Compressor (Typical) Fan (Optional)	Defrost Termination Switch	

Product Drawings



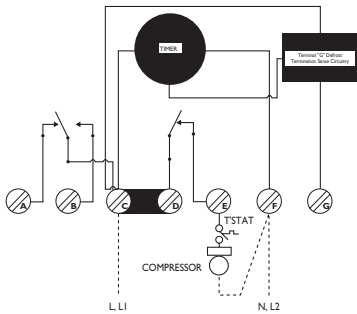
9045 AIR DEFROST - Time Initiated
Time Terminated - Wiring Diagram



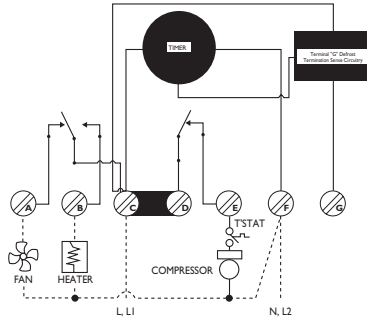
9045 ELECTRIC DEFROST - Time Initiated
Time Terminated - Wiring Diagram



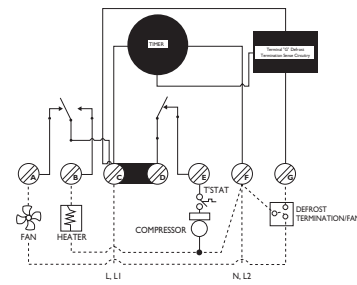
Product Drawings



9145 AIR DEFROST - Time Initiated
Time Terminated - Wiring Diagram



9145 ELECTRIC DEFROST - Time Initiated
Time Terminated - Wiring Diagram

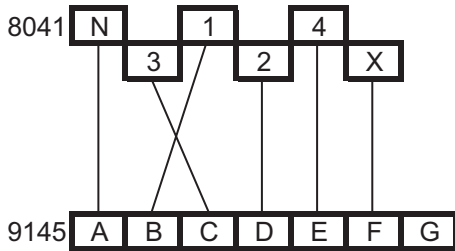


9145 ELECTRIC DEFROST - Time Initiated
Temperature Terminated - Wiring Diagram

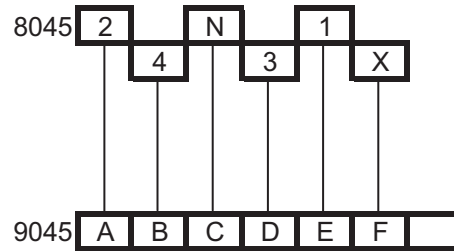
PARAGON

Conversion Diagrams for Paragon Mechanical Controls

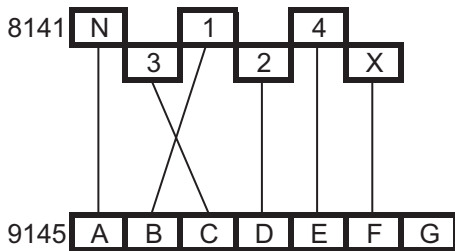
Convert 8041 to 9145



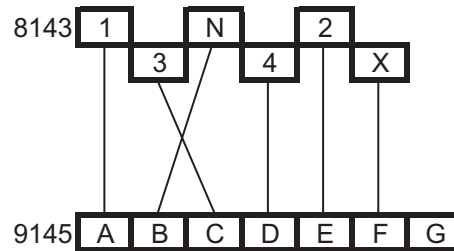
Convert 8045 to 9045



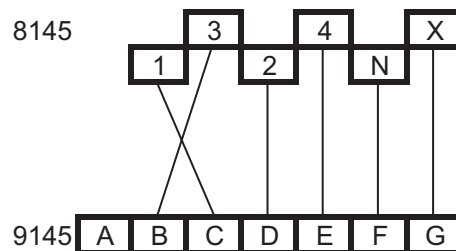
Convert 8141 to 9145



Convert 8143 to 9145



Convert 8145 to 9145





TORK®



Scan for all models, literature and cross reference



1102



P47

ELECTRIC TIMERS - ELECTROMECHANICAL

1100 Series - 24 Hour Time Switches

The Tork® 1100 Series Electric Timers offer 24 hour time switches with automatic On-Off control when operation is required at the same time every day, seven days a week.

Applications include On-Off control of heating, air conditioning, display lighting, ventilating, pumps and fans.

Tork Electric Timers are sold exclusively through Invensys to HVACR wholesalers.

Features and Benefits

- Heavy-duty synchronous, self-starting high torque timing motor
- Power consumption: 3 watts maximum
- Automatic operation for 24 hour timers with one pair of On-Off trippers supplied – accommodates up to 12 pairs
- Multilingual dial markings - English, French and Spanish
- Temporary manual override
- General purpose (NEMA 1) metal enclosure of deep-drawn steel, enamel coated and lockable hasp
- Combination 1/2" and 3/4" knockouts on both sides, bottom and back

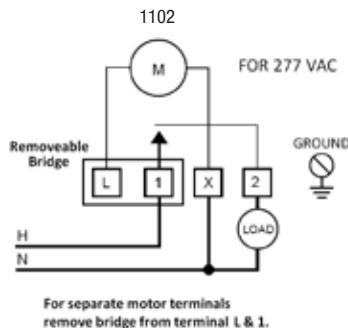
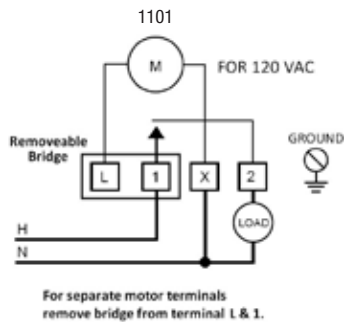


Specifications

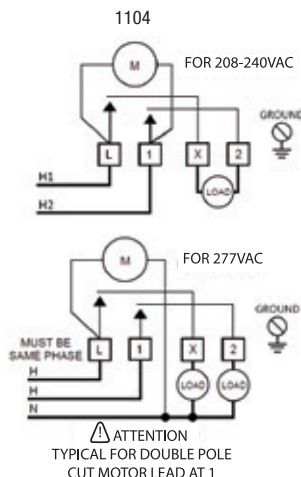
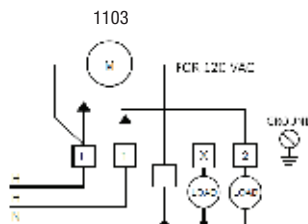
Part Numbers	Description	Contact Ratings	Automatic Operation	Operating Temperature	Enclosure	Switch	Voltage
1101	24 Hour Electromechanical Timer	40 A Resistive 20 A Inductive 1000 VA Pilot Duty 2HP (24 FLA) 120V AC	Minimum ON 20 minutes; OFF 75 minutes	-40°F to 165°F (-40°C to 74°C)	Metal	SPST	120V AC
1102	24 Hour Electromechanical Timer	40 A Resistive 20 A Inductive 1000 VA Pilot Duty 2HP (24 FLA) 120V AC	Minimum ON 20 minutes; OFF 75 minutes	-40°F to 165°F (-40°C to 74°C)	Metal	SPST	208-277V AC
1103	24 Hour Electromechanical Timer	40 A Resistive 20 A Inductive 1000 VA Pilot Duty 2HP (24 FLA) 120V AC	Minimum ON 20 minutes; OFF 75 minutes	-40°F to 165°F (-40°C to 74°C)	Metal	DPST	120V AC
1104	24 Hour Electromechanical Timer	40 A Resistive 20 A Inductive 1000 VA Pilot Duty 2HP (24 FLA) 120V AC 5HP 240V AC	Minimum ON 20 minutes; OFF 75 minutes	-40°F to 165°F (-40°C to 74°C)	Metal	DPST	208-277V AC
P47	Accessory trippers for 1100 Series Timers	NA	NA	NA	NA	NA	NA

Product Drawings

Single Pole - Wiring Diagrams



Double Pole - Wiring Diagrams





Timers

TORK®



Scan for all models, literature and cross reference



W220

ELECTRIC TIMERS - ELECTROMECHANICAL

W Series - 7 Day Time Switches

The Tork® W Series - 7 day time switches offer the easiest and most accurate setting of any 7 day time switch through its unique combination of On-Off trippers, distinctive time indicator, and trigger action switch tripping mechanism.

Applications include On-Off control of heating, air conditioning, display lighting, ventilating, pumps and fans. Tork Electric Timers are sold exclusively through Invensys to HVACR wholesalers.

Features and Benefits

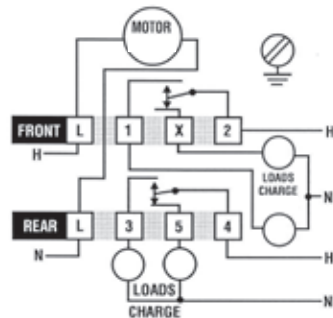
- Heavy-duty synchronous, self-starting high torque timing motor
- Power consumption: 3 watts maximum
- Keeps dial on time up to 24 hours during power outage
- Automatic operation with 7 day calendar dial accommodates up to 2 pairs of On-Off removable Trippers per day – 7 pairs are supplied
- Multilingual dial markings - English, French and Spanish
- General purpose (NEMA 1) metal enclosure of deep-drawn steel, enamel coated and lockable hasp

Specifications

Part Numbers	Description	Contact Ratings	Automatic Operation	Operating Temperature	Enclosure	Switch	Voltage
W220	7 Day Electromechanical Timer	40 A Resistive 20 A Inductive 1000 VA Pilot Duty 2HP (24 FLA) 120V AC	Minimum ON 1 hour OFF 2 hours	-40°F to 165°F (-40°C to 74°C)	Metal	DPDT	120V AC

Product Drawings

W220 (DPDT) - Wiring Diagram



LISTED
Listed
Product



1 Year
Limited
Warranty



ELECTRIC TIMERS - ELECTROMECHANICAL

TU40 Series - Universal 24 Hour Time Switches

The Tork® TU40 Series - Universal 24 hour time switches with multi-voltage options offer automatic On-Off control when operation is required at the same time every day, seven days a week.

Applications include On-Off control of heating, air conditioning, display lighting, ventilating, pumps, fans and security systems. Tork Electric Timers are sold exclusively through Invensys to HVACR wholesalers.

Features and Benefits

- Automatic input voltage detection without DIP switches
- LED indicators for load and power
- Includes On/Off/Auto switch
- Power consumption: 6 VA maximum
- Temporary manual override is standard
- Combination 1/2" and 3/4" knockouts on both sides, bottom and back
- Enclosure includes indoor/outdoor NEMA 3R plastic



TU40

TORK



Scan for all models, literature and cross reference

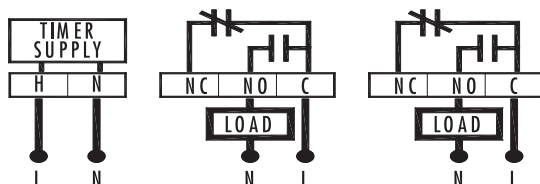
Specifications

Part Numbers	Description	Contact Ratings (Normally Open)	Automatic Operation	Temperature Range	Enclosure	Switch	Voltage
TU40	24 Hour Electromechanical Timer	40 A Resistive 30 A Inductive 720 VA Pilot Duty 1HP 120V AC 2HP 240V AC	Minimum setting: 15 minutes	-31°F to 116°F (-35°C to 47°C)	Plastic	4 IN 1 DPDT, SPST, SPDT, DPST	Universal Multi-Voltage 120/208-240/277V AC

Product Drawings

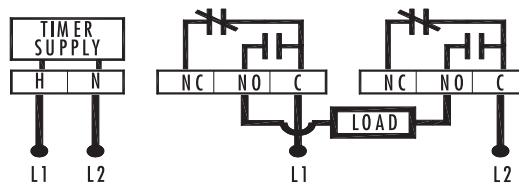
TU40 - 120/277V AC Application - Wiring Diagram

120/277VAC Application



TU40 - 208/240V AC Application - Wiring Diagram

208/240VAC Application



1 Year Limited Warranty



Timers

TORK®



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E101B

ELECTRIC TIMERS - ELECTRONIC

E100B Series

The Tork® E100B series multipurpose 1 channel control comes with 120 - 277 Volts AC input voltages for 24 hour programming. Standard enclosure for indoor and outdoor settings uses patented 40 Amp contacts. Applications include display lighting, security systems, HVAC, signs, sump pumps and ventilating fans. Tork Electric Timers are sold exclusively through Invensys to HVACR wholesalers.

Features and Benefits

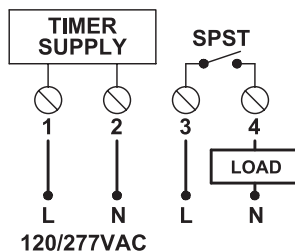
- Automatic input voltage detection without DIP switches
- LCD Display
- Simple programming with brief easy-to-follow instructions
- Power consumption: 6 watts minimum
- Daylight savings time is automatic (can be omitted)
- Manual override until the next regularly scheduled On or Off. Automatic operation then resumes or permanently if desired
- AM/PM clock format
- Power outage back-up with permanent schedule retention. Super-capacitor maintains real-time clock for 100 hours
- Includes load status and power failure indicators

Specifications

Part Numbers	Description	Contact Ratings	Scheduling	Setpoints	Operating Temperature	Enclosure	Switch	Voltage
E101B	24 Hour Electronic Timer	40 A General purpose 40 A Inductive 720 VA Pilot Duty 1HP (120V AC)	Same Everyday	20 with 1 minute minimums	-40°F to 149°F (-40°C to 65°C)	NEMA 3R Plastic	SPST	120-277V AC

Product Drawings

E101B Series - Wiring Diagram



1 Year Limited Warranty



RESIDENTIAL DEFROST TIMERS

Domestic Defrost Timers

The Paragon® 1401 Series Defrost Timers are a synchronous motor control that activates an internal SPDT switch to actuate a defrost heater in a refrigerator. These heavy-duty 15 Amp Paragon timers are used by OEM manufacturers to replace both the older classic design timers and the new OEM versions.

Features and Benefits

- Bulk quantities must be ordered in multiples of 12
- Quiet - synchronous design provides extremely quiet operation
- Position freedom - timer can be mounted in various locations
- Interchangeability - standard mounting allows use in all applications
- Double insulated - requires no earth grounding
- RoHS compliant



A1401-00

Specifications

Part Numbers	Description	Bulk Quantity	OEM	Timing
A1401-00*	Defrost Timer in Refrigerator	12	Admiral	6 hours 21 minutes
B1401-00*	Defrost Timer in Refrigerator	12	Frigidare	8 hours 20 minutes
G1401-00*	Defrost Timer in Refrigerator	12	G.E.	6 hours 25 minutes

*International export models

PARAGON



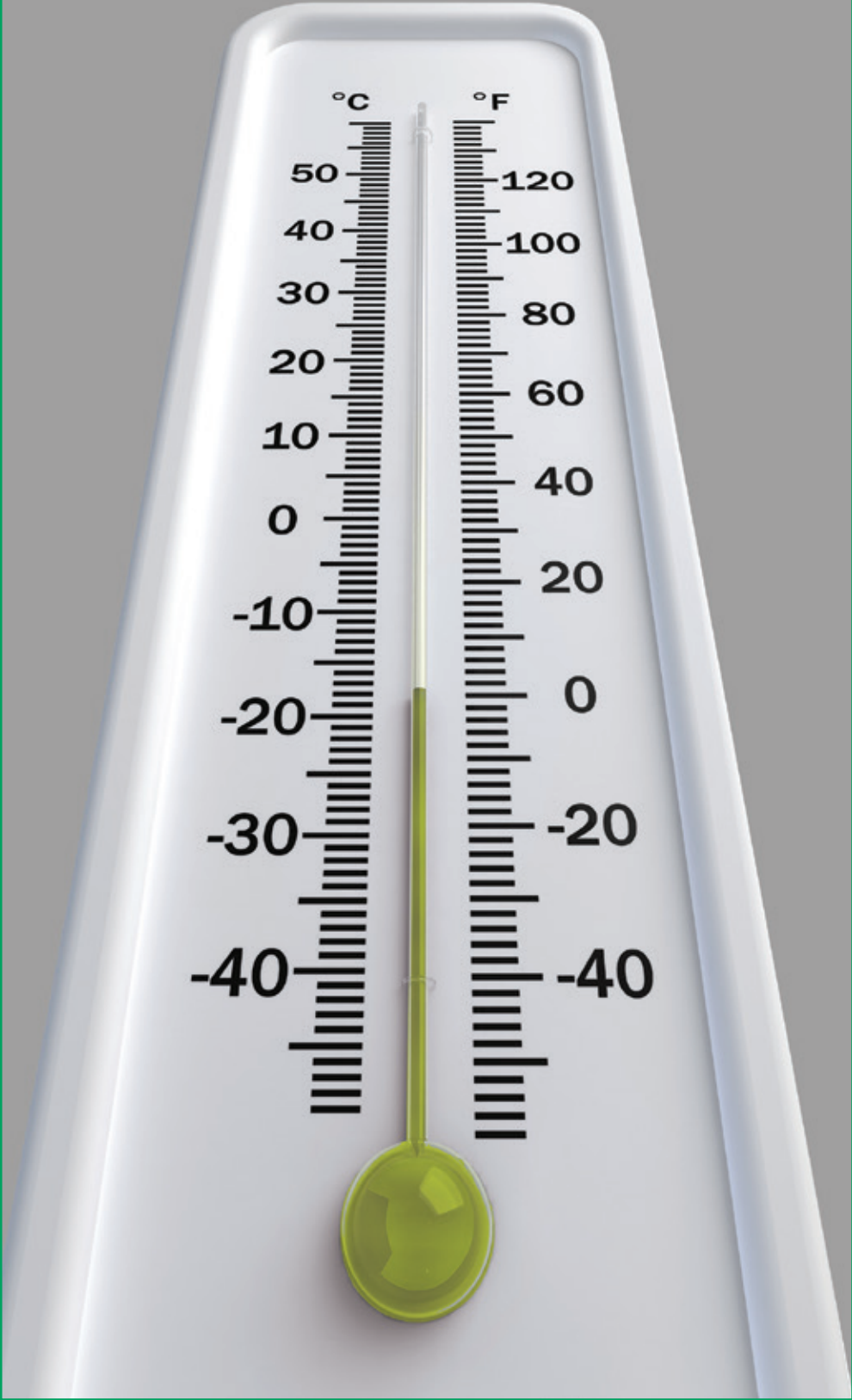
Scan for all models, literature and cross reference



LISTED
Listed
Product



1 Year
Limited
Warranty



Contractors appreciate smooth HVAC installations while consumers look for a fine balance between temperature comfort and energy savings.

The Robertshaw® wall thermostats and humidistats offer all of the above. With its extensive yet focused product offering, the Robertshaw product line can deliver intuitive, feature-rich and efficient solutions for homeowners and commercial customers.

Programmable	E2
Non-Programmable.....	E9
Mechanical	E15
Line Voltage	E19
Humidity Controls.....	E20



Wall Thermostats





Wall Thermostats

Robertshaw®



Scan for all models, literature and cross reference

California Title 24 Compliant



9825i2



9025i

PROGRAMMABLE

i2 Deluxe Series

The Robertshaw® i2 Series Programmable Thermostats are easy-to-install and program. Our patent pending Set-Up Wizard can help you spend 50% less installation time over competitive models. Feature-rich, the 9801i2 and 9825i2 thermostats can be used with the 9025i outdoor sensor to maintain comfort settings and indoor humidity levels while minimizing window condensation.

Features and Benefits

All i2 Series Programmable Thermostats feature:

- Set-Up Wizard
- 7-Day, 5-2, 5-1-1 or 24 hour programming
- 2, 4, 6 Events per day
- Programmable service reminders
- Trilingual display options
- Worry-free memory storage
- Contractor ID with programmable service schedule
- Indoor/Outdoor remote sensor capability
- Adjustable temperature differential
- Adjustable timed upstaging

9801i2 and 9825i2 Thermostats with Humidity Control have these additional features:

- Adjustable humidification and dehumidification set points
- Automatic humidification control (when coupled with the remote outdoor sensor)
- Adjustable overcooling limits
- Customizable dew point control

9020i and 9025i Indoor and Outdoor Sensors features:

- Designed to sense air temperature at a remote location up to 300 feet from thermostat
- Automatic configuration with i2 thermostats
- Installs with a simple twisted pair wiring
- Temperature range for 9025i Outdoor sensor is -40°F to 158°F (-40°C to 70°C)

Wall Thermostats



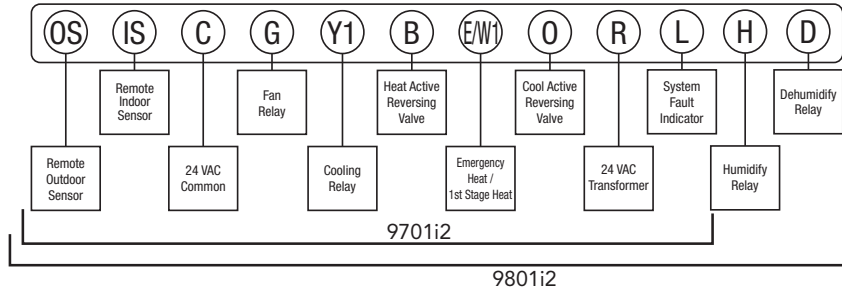
Robertshaw®

Specifications

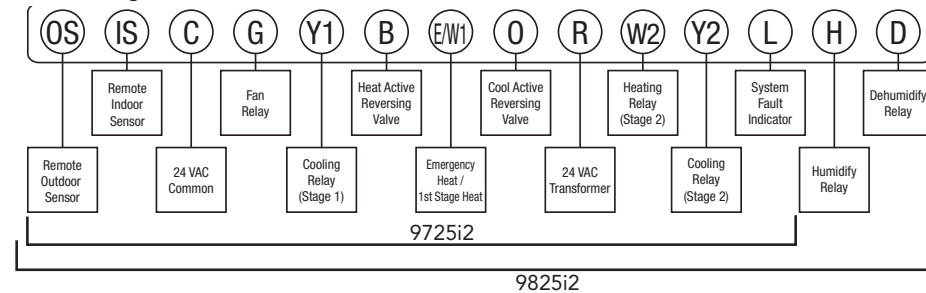
Part Numbers	Description	Application	Temperature Range / Accuracy	Auto Changeover Deadband	Temporary Temperature Override	Electrical Rating
9701i2	7 Day Programmable	1 Heat / 1 Cool, Gas, Oil, Electric and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	Selectable 2°F to 8°F (-16°C to -13°C)	3 hour max or next setpoint and vacation setting	24V AC 1 Amp max load per terminal (relay outputs) 3 Amp max load (all terminals combined)
9725i2	7 Day Programmable	Universal Staging up to 3 Heat / 2 Cool, Gas, Oil, Electric and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	Selectable 2°F to 8°F (-16°C to -13°C)	3 hour max or next setpoint and vacation setting	24V AC 1 Amp max load per terminal (relay outputs) 3 Amp max load (all terminals combined)
9801i2	7 Day Programmable with Humidity Control	1 Heat / 1 Cool, Gas, Oil, Electric and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	Selectable 2°F to 8°F (-16°C to -13°C)	3 hour max or next setpoint and vacation setting	24V AC 1 Amp max load per terminal (relay outputs) 3 Amp max load (all terminals combined)
9825i2	7 Day Programmable with Humidity Control	Universal Staging up to 3 Heat / 2 Cool, Gas, Oil, Electric and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	Selectable 2°F to 8°F (-16°C to -13°C)	3 hour max or next setpoint and vacation setting	24V AC 1 Amp max load per terminal (relay outputs) 3 Amp max load (all terminals combined)
9020i	Indoor Sensor	For use with i Series and i2 Series Thermostats	NA	NA	NA	NA
9025i	Outdoor Sensor	For use with i Series and i2 Series Thermostats	-40°F to 158°F (-40°C to 70°C)	NA	NA	NA

Product Drawings

Terminal Designations 9701i2 and 9801i2



Terminal Designations 9725i2 and 9825i2



5 Year Limited Warranty



Wall Thermostats

Robertshaw®



Scan for all models, literature and cross reference



RS6320

PROGRAMMABLE

RS6000 and RS5000 Value Series

The Robertshaw® RS6000 and RS5000 Series Programmable Thermostats offer 7 day and 5-2 day models with enhanced features, energy saving setpoints, and value pricing. When powered-up, the thermostat initiates the Pop-up Wizard with step-by-step installation instructions to save time. All models cover a wide range of applications that are fully compatible with gas and electric furnaces, and heat pumps. Universal control is available on multi-stage systems.

Features and Benefits

- Pop-up Wizard
- Auto changeover
- Bigger, brighter backlight with nightlight option
- Easy change battery access
- Circulating fan
- Low temperature freeze protection
- Adjustable temperature differential and upstaging

RS6000 Series 7 Day have these additional features:

- Universal control available on RS6220 and RS6320
- Copy command for easy programming

RS5000 Series 5-2 Day have these additional features:

- Universal control available on RS5220
- Vacation setpoint

Specifications

Part Numbers	Description	Application	Temperature Range / Accuracy	Electrical Rating
RS5110	5-2 Day Programmable	1 Heat / 1 Cool, Gas, Electric, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS5220	5-2 Day Programmable	Universal Staging up to 2 Heat / 2 Cool, Gas, Electric, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS5220C*	5-2 Day Programmable	Universal Staging up to 2 Heat / 2 Cool, Gas, Electric, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS6110	7 Day Programmable	1 Heat / 1 Cool, Gas, Electric, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS6220	7 Day Programmable	Universal Staging up to 2 Heat / 2 Cool, Gas, Electric, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS6320	7 Day Programmable	Universal Staging up to 3 Heat / 2 Cool, Gas, Electric, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS6320C*	7 Day Programmable	Universal Staging up to 3 Heat / 2 Cool, Gas, Electric, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)

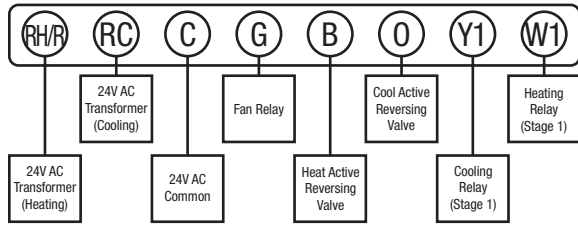
*International export models

California Title 24 Compliant

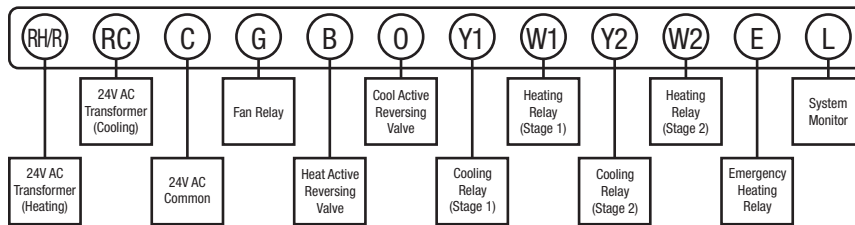


Product Drawings

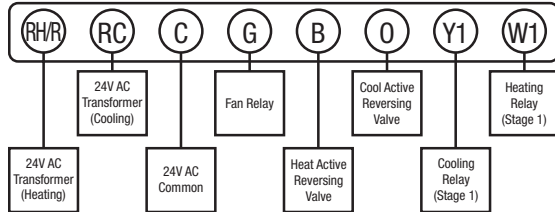
Terminal Designations RS5110



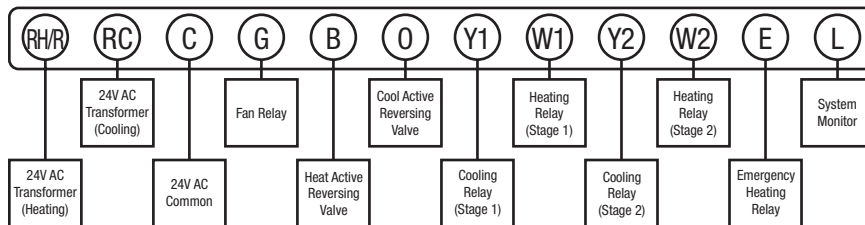
Terminal Designations RS5220



Terminal Designations RS6110



Terminal Designations RS6220 and RS6320



5 Year Limited Warranty



Wall Thermostats

Robertshaw®



Scan for all models, literature and cross reference



RS3110

PROGRAMMABLE

RS3000 Economy Series

The Robertshaw® RS3000 Series Programmable Thermostats provide temperature control to help reduce energy costs up to 25%. The RS3000 family provides custom program options in value-packed thermostats for an economical price. All models are fully compatible with all standard 24V AC heating and cooling systems.

Features and Benefits

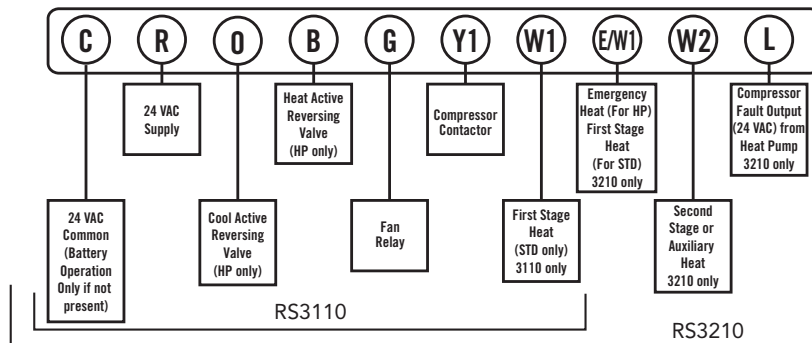
- New improved display
- Adjustable temperature differential
- Filter monitor
- O and B terminals
- Automatic compressor short cycle protection
- Zone system compatible
- Quick Wire terminal block
- Worry-free memory retention on RS3210 only

Specifications

Part Numbers	Description	Application	Temperature Range / Accuracy	Electrical Rating
RS3110	5-2 Day Programmable	1 Heat / 1 Cool, Electric, Gas, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS3110C*	5-2 Day Programmable	1 Heat / 1 Cool, Electric, Gas, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS3210	5-2 Day Programmable	2 Heat / 1 Cool, Electric, Gas, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS3210C*	5-2 Day Programmable	2 Heat / 1 Cool, Electric, Gas, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)

*International export models

Product Drawings Terminal Designations RS3110 and RS3210



2 Year Limited Warranty

California Title 24 Compliant



PROGRAMMABLE

300 Series

The Robertshaw® 300 Series Programmable Thermostats offer a contemporary design with a large, easy-to-read LCD display. The 300 Series features a lockable key pad and door that offer security against unwanted tampering. Select models have O and B terminals for use with heat pumps or controlling dampers and fresh air economizers. It also can connect to remote indoor and outdoor sensors for added indoor comfort. The compressor short cycle protection reduces wear and tear to HVAC equipment.

Features and Benefits

- Auto changeover
- 3-hour override allows temporary adjustment of temperature
- Automatic compressor short cycle protection
- Multiple remote sensor capable



300-224



10-528

Robertshaw[®]



Scan for all models, literature and cross reference

Specifications

Part Numbers	Description	Application	Temperature Range / Accuracy	Auto Changeover Deadband	Temporary Temperature Override	Electrical Rating
300-224	5-2 Day Programmable	1 Heat / 1 Cool, Gas, Oil and Electric systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 2.25 Amp max load (all terminals combined)
300-225	7 Day Programmable	1 Heat / 1 Cool, Gas, Oil and Electric systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 2.25 Amp max load (all terminals combined)
300-227	7 Day Programmable	3 Heat / 2 Cool or 2 Heat / 1 Cool Heat Pump systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 2.25 Amp max load (all terminals combined)
300-229	7 Day Programmable	2 Heat / 2 Cool or 2 Heat / 1 Cool, Gas, Oil and Electric systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 2.25 Amp max load (all terminals combined)
10-528	Indoor Sensor	NA	NA	NA	NA	NA
10-529	Outdoor Sensor	NA	NA	NA	NA	NA

2 Year Limited Warranty

California Title 24 Compliant

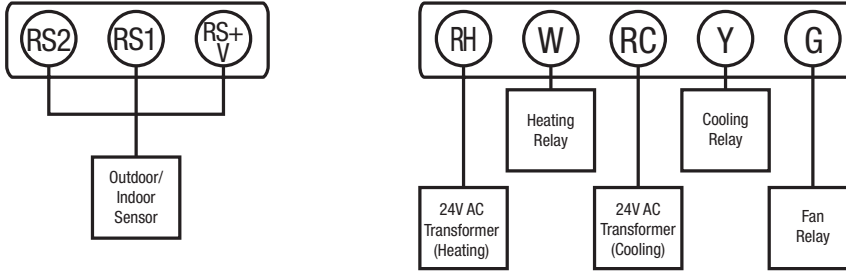


Wall Thermostats

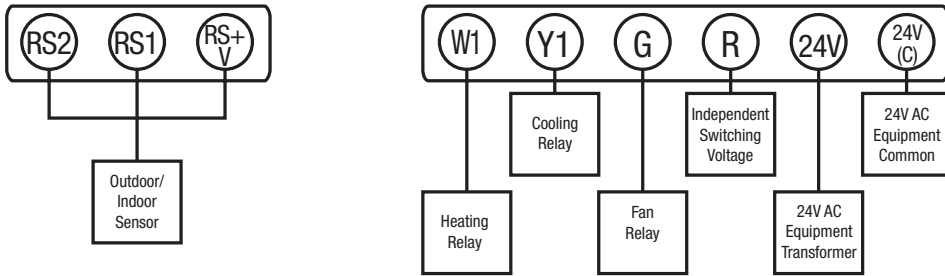
Robertshaw®

Product Drawings

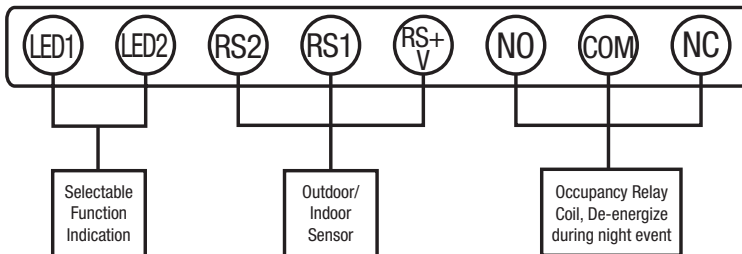
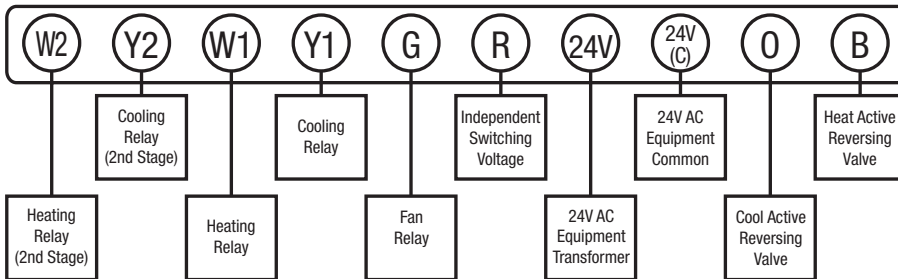
Terminal Designations - 300-224



Terminal Designations - 300-225



Terminal Designations - 300-227 and 300-229





NON-PROGRAMMABLE

RS4000 Value Series

The Robertshaw® RS4000 Series Non-Programmable Thermostats are Simply the Right Choice™ when it comes to automatic temperature control at an affordable price. When powered up, the thermostat initiates the Pop-up Wizard to walk the installer through the set-up in simple language. Three models cover a wide range of applications that are fully compatible with gas and electric furnaces, and heat pumps. Each model can be powered with either two AA batteries or 24V AC common.

Features and Benefits

- Pop-up Wizard
- Auto changeover
- Bigger, brighter backlight with nightlight option
- Easy change battery access
- Circulating fan
- Low temperature freeze protection
- Adjustable temperature differential and upstaging

RS4220 and RS4320 Thermostats have these additional features:

- Universal control with compatibility to multi-stage gas/ electric furnaces and heat pumps



RS4110

Robertshaw[®]



Scan for all models, literature and cross reference

Specifications

Part Numbers	Description	Application	Temperature Range / Accuracy	Electrical Rating
RS4110	Digital Non-Programmable	1 Heat / 1 Cool, Gas, Electric, Oil, Millivolt, and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS4220	Digital Non-Programmable	Universal Staging up to 2 Heat / 2 Cool, Gas, Electric, Oil, Millivolt, and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS4220C*	Digital Non-Programmable	Universal Staging up to 2 Heat / 2 Cool, Gas, Electric, Oil, Millivolt, and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS4320	Digital Non-Programmable	Universal Staging up to 3 Heat / 2 Cool, Gas, Electric, Oil, Millivolt, and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS4320C*	Digital Non-Programmable	Universal Staging up to 3 Heat / 2 Cool, Gas, Electric, Oil, Millivolt, and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)

*International export models

5 Year Limited Warranty

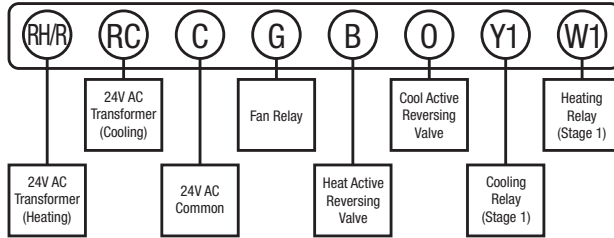


Wall Thermostats

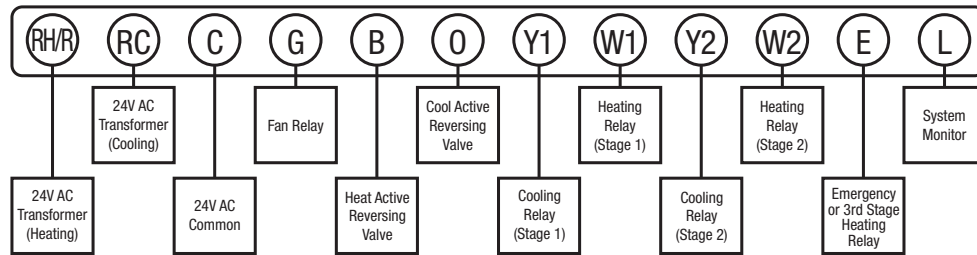
Robertshaw®

Product Drawings

Terminal Designations RS4110



Terminal Designations RS4220 and RS4320





NON-PROGRAMMABLE

RS2000 Economy Series

The Robertshaw® RS2000 Series Non-Programmable Thermostats are fully compatible with all standard 24V AC heating and cooling systems. With the comfort, convenience and efficiency features that contractors and homeowners want, our Economy Series is a perfect cost effective solution.

Features and Benefits

- New improved display
- Adjustable temperature differential
- Filter monitor
- Automatic compressor short cycle protection
- O and B terminals
- Zone system compatible
- Quick wire terminal block



RS2110



Scan for all models, literature and cross reference

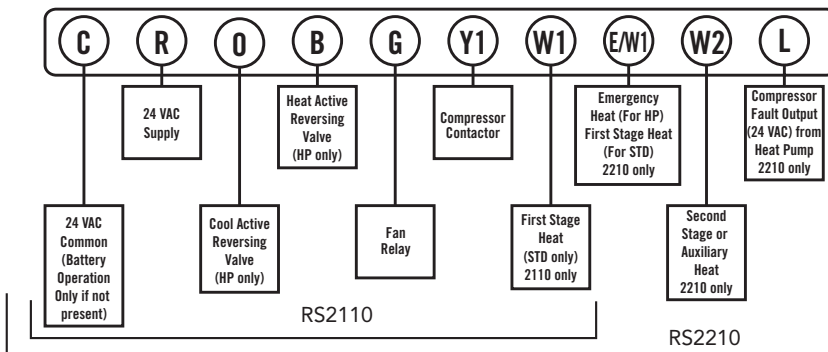
Specifications

Part Numbers	Description	Application	Temperature Range / Accuracy	Electrical Rating
RS2110	Digital Non-Programmable	1 Heat / 1 Cool, Electric, Gas, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS2110C*	Digital Non-Programmable	1 Heat / 1 Cool, Electric, Gas, Oil, Millivolt and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS2210	Digital Non-Programmable	2 Heat / 1 Cool, Electric, Gas, Oil, and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)
RS2210C*	Digital Non-Programmable	2 Heat / 1 Cool, Electric, Gas, Oil, and Heat Pump systems	45°F to 90°F (7°C to 32°C) / +/-1°F (+/-0.5°C)	24V AC with battery back-up OR 3V DC battery powered 1 Amp max load per terminal 3 Amp max load (all terminals combined)

*International export models

Product Drawings

Terminal Designations RS2110 and RS2210



2 Year Limited Warranty



Wall Thermostats

Robertshaw®



Scan for all models, literature and cross reference



300-201



10-528

NON-PROGRAMMABLE

300 Series

The Robertshaw® 300 Series Non-Programmable Thermostats offer a contemporary design with a large, easy-to-read LCD display. The 300 Series has features that users need like a lockable key pad and door that offer security against unwanted tampering. Select models have O and B terminals for use with heat pumps or controlling dampers and fresh air economizers. Also, it can connect to remote indoor and outdoor sensors for added indoor comfort. The compressor short cycle protection reduces wear and tear to HVAC equipment.

Features and Benefits

- Automatic compressor short cycle protection
- O and B terminals on select models
- Occupied and unoccupied mode allows for different setting for day and night (Not included on 300-204)
- Multiple remote sensor capable (Not included on 300-204)

Specifications

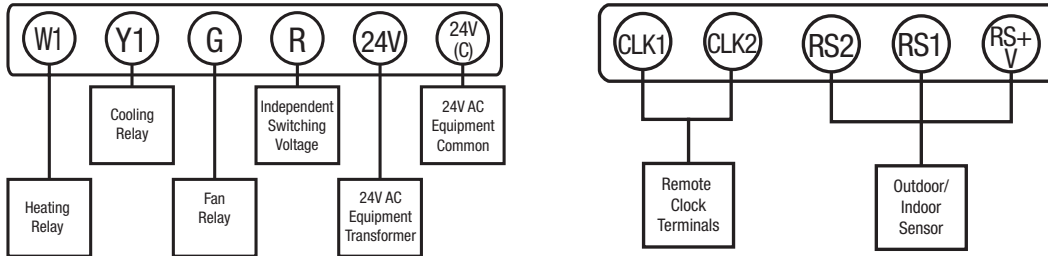
Part Numbers	Description	Application	Temperature Range / Accuracy	Auto Changeover Deadband	Temporary Temperature Override	Electrical Rating
300-201	Digital Non-Programmable	1 Heat / 1 Cool, Gas, Oil and Electric systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
300-202	Digital Non-Programmable	3 Heat / 2 Cool or 2 Heat / 1 Cool Heat Pump systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
300-203	Digital Non-Programmable	2 Heat / 2 Cool, Gas, Oil and Electric systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
300-204	Digital Non-Programmable	Heat only, Gas systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
300-205	Digital Non-Programmable	Cool only, Electric systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
300-206	Digital Non-Programmable	1 Heat / 1 Cool, Gas, Oil and Electric systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
300-207	Digital Non-Programmable	1 Heat / 1 Cool Heat Pump systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
300-208	Digital Non-Programmable	2 Heat / 1 Cool Heat Pump systems	38°F to 88°F (3°C to 31°C) / +/-1°F (+/-0.5°C)	2°F (1°C)	3 hour max	24V AC 0.05 - 0.75 Amp per output 3 Amp max load (all terminals combined)
10-528	Indoor Sensor	NA	NA	NA	NA	NA
10-529	Outdoor Sensor	NA	NA	NA	NA	NA



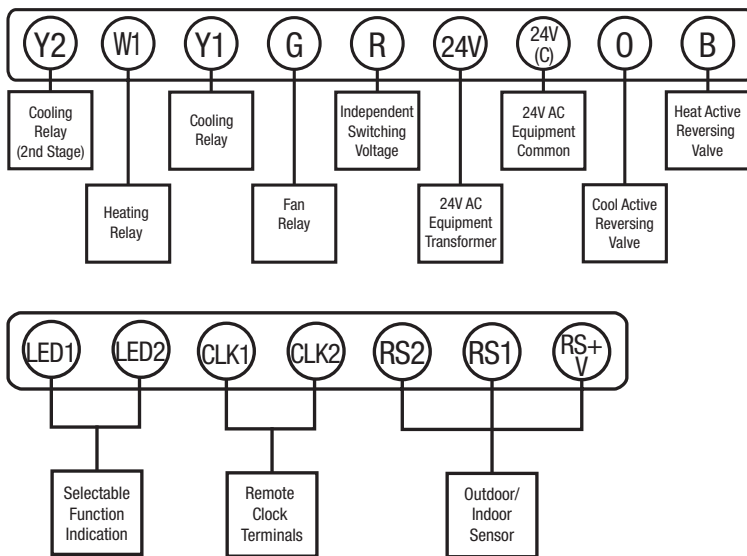
Robertshaw®

Product Drawings

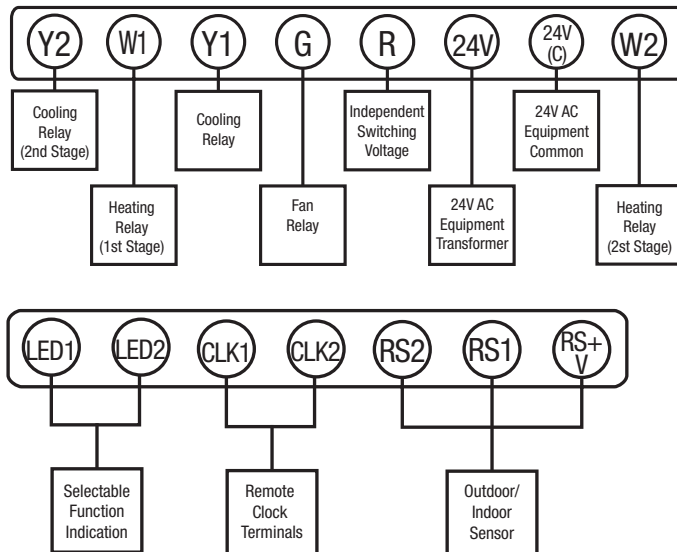
Terminal Designations - 300-201



Terminal Designations - 300-202



Terminal Designations - 300-203



2 Year Limited Warranty

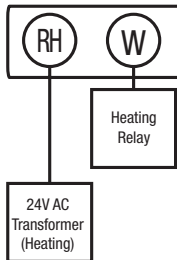


Wall Thermostats

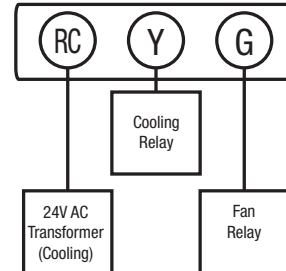
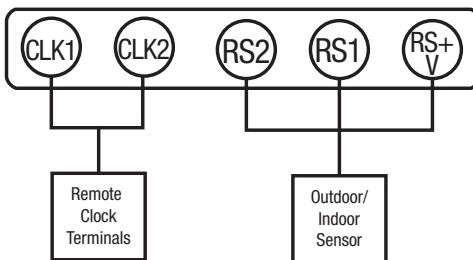
Robertshaw®

Product Drawings

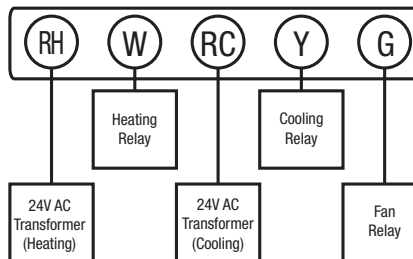
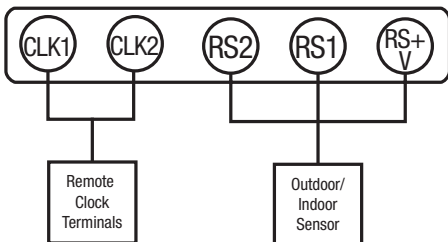
Terminal Designations - 300-204



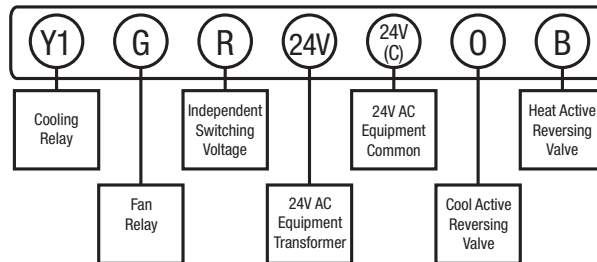
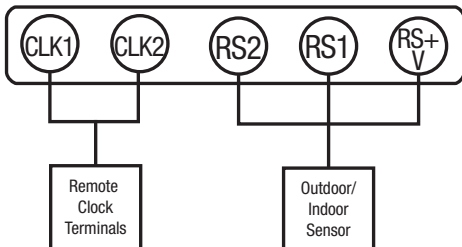
Terminal Designations - 300-205



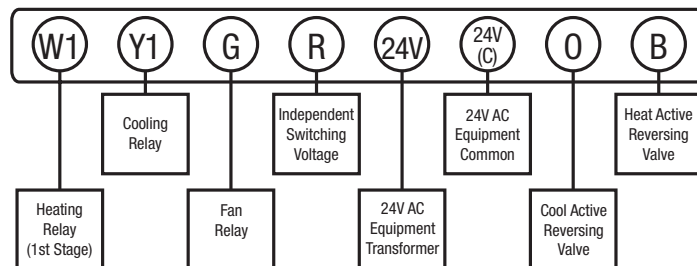
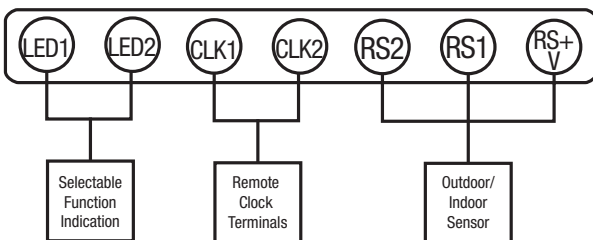
Terminal Designations - 300-206



Terminal Designations - 300-207



Terminal Designations - 300-208





MECHANICAL

9200 Series

The Robertshaw® 9200 Series Mechanical Thermostats are both attractive and functional. The temperature display is easy-to-read and offers accurate room temperature measurement. The simple two-piece design saves time at installation. Four Robertshaw 9200 series thermostats replace over 50 competitive models, so less inventory is needed to meet each job requirement.

Features and Benefits

- Heavy-duty adjustable heat anticipation - More anticipation settings to choose from allows use on a wider range of heating equipment
- No sub-base required - Simple base and cover design speeds installation. Base can be mounted on wall, freeing both hands for wiring
- Mercury-free - No leveling required. Speeds up installation time
- J-Box compatible - Not only will it meet code, but it speeds up installation
- Positive-off switch - Assured shutdown of HVAC system (9200)



Robertshaw[®]



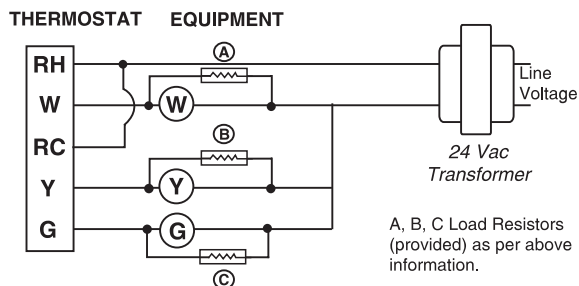
Scan for all models, literature and cross reference

Specifications

Part Numbers	Description	Application	Switch Action	Temperature Range / Accuracy	Anticipation	Fixed Cooling Anticipation	Electrical Rating
9200H	Mechanical, Horizontal model	1 Heat / 1 Cool, Gas, Electric Systems (System Switch and Fan Switch Included)	SPDT	50°F to 90°F (10°C to 30°C) / +/-2°F (+/-1°C)	0.2 to 1.6 Amps	4700 ohms	24V AC, 2 Amps max
9200V	Mechanical, Vertical model	1 Heat / 1 Cool, Gas, Electric Systems (System Switch and Fan Switch Included)	SPDT	50°F to 90°F (10°C to 30°C) / +/-2°F (+/-1°C)	0.2 to 1.6 Amps	4700 ohms	24V AC, 2 Amps max
9204H	Mechanical, Horizontal model	1 Heat, Gas, Electric Systems	SPST	50°F to 90°F (10°C to 30°C) / +/-2°F (+/-1°C)	0.2 to 1.6 Amps	4700 ohms	24V AC, 2 Amps max
9204V	Mechanical, Vertical model	1 Heat, Gas, Electric Systems	SPST	50°F to 90°F (10°C to 30°C) / +/-2°F (+/-1°C)	0.2 to 1.6 Amps	4700 ohms	24V AC, 2 Amps max

Product Drawings

Wiring Diagram



1 Year Limited Warranty



Wall Thermostats

Robertshaw®



Scan for all models, literature and cross reference



400-420



MECHANICAL

400 Series

The Robertshaw® 400 Series Mechanical Thermostats are mercury-free, so they require no leveling and no special disposal requirements. For flexibility on-site, the fully adjustable heat anticipator can be used on a wide range of heating equipment.

Used with a 400 Series Universal Switching Sub-base, the 400 Series Thermostats are compatible with most 24 Volt AC heating and cooling systems. A decorative wall plate is included to aid in covering previous thermostat mounting marks. To complement any decor, choose from beige or white.

Features and Benefits

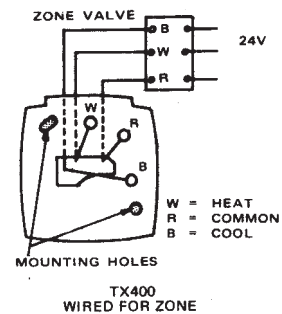
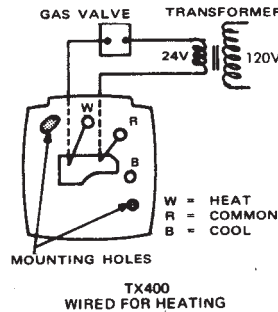
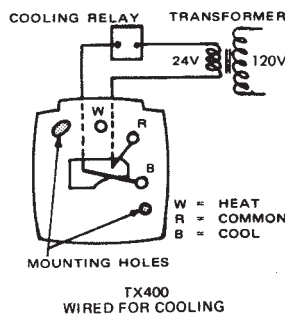
- Heavy-duty adjustable heat anticipator - More anticipation settings to choose from allows use on wider range of heating equipment
- Mercury-free - No leveling required. Speeds up installation time
- Positive-off switch - Assured shutdown of HVAC system
- Fixed cooling anticipation - Maintains optimal cooling comfort
- Opens on temperature rise for heating, closes on temperature rise for cooling

Specifications

Part Numbers	Description	Application	Thermometer Range / Accuracy	Switch Action	Heat Anticipation Range	Fixed Cooling Anticipation	Electrical Rating
400-420	Mechanical with 490-400 Universal sub-base, Beige	Universal Heating / Cooling replacement	44°F to 96°F (7°C to 36°C) / +/-2°F (+/-1°C)	SPDT	0.18 to 1.0 Amp	4700 ohms	24V AC, 1.5 Amps max load (all terminals combined)
405-420	Mechanical with 495-400 Universal sub-base, White	Universal Heating / Cooling replacement	44°F to 96°F (7°C to 36°C) / +/-2°F (+/-1°C)	SPDT	0.18 to 1.0 Amp	4700 ohms	24V AC, 1.5 Amps max load (all terminals combined)

Product Drawings

Wiring Diagram



1 Year Limited Warranty



MECHANICAL

200 Series

The Robertshaw® 200 Series Mechanical Thermostats are decorator designed and engineered for outstanding performance. The 200 Series Thermostats are mercury-free and environmentally safe. Their unique hermetically sealed-in-glass switch design requires no leveling and provides optimum protection from contamination.

Models are available for 24 volt and millivolt applications. Models are also available for low temperature heating ranges, cooling only, and 3-wire zone applications. A decorative wall plate is included with all models to cover old thermostat mounting marks.

Features and Benefits

- Heavy-duty adjustable heat anticipator - More anticipation settings to choose from allows use on a wider range of heating equipment
- Mercury-free - No leveling required to speed up installation
- Positive-off switch - Assured shutdown of HVAC system
- Fixed cooling anticipation - Maintains optimal cooling comfort



200-401

Robertshaw[®]



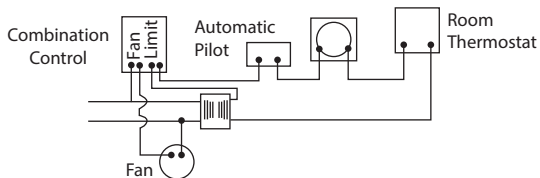
Scan for all models, literature and cross reference

Specifications

Part Numbers	Description	Application	Thermometer Range / Accuracy	Switch Action	Heat Anticipation Range	Fixed Cooling Anticipation	Electrical Rating
200-401	Mechanical	2 Wire, 24 Volt Heating	44°F to 96°F (7°C to 36°C) / +/-2°F (+/-1°C)	SPST	0.18 to 1.0 Amp	4700 ohms	24V AC, 1.0 Amp max

Product Drawings

Gas Valve or Two-Wire Oil Burner or Stoker Relay



1 Year Limited Warranty



Wall Thermostats

Robertshaw®



Scan for all models, literature and cross reference



988-1R

MECHANICAL

900 Series

The Robertshaw® 900 Series Mechanical Thermostats are low cost controls with highly reliable performance. The two-piece design is simple to install to save valuable time. The large display is easy-to-read and switches on the front cover are readily accessible to adjust for comfort. Wall plates are available to mask any unsightly marks left by previous thermostats.

Features and Benefits

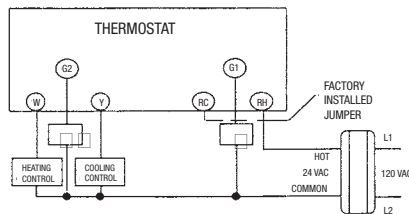
- Accurate room temperature - Built-in thermometer accurately displays room temperature
- Adjustable heat anticipation - Multiple anticipation settings supports a wide range of heating equipment
- No sub-base required - Base can be mounted on wall to free both hands for wiring
- Mercury-free - No leveling or special disposal required
- J-Box compatible - Code compatible to speed up installation
- Positive off Switch - Assured shutdown of HVAC system
- Fixed cooling anticipation - Optimal cooling comfort maintained

Specifications

Part Numbers	Description	Application	Temperature Range / Accuracy	Anticipation	Electrical Rating
986-1R	Mechanical	Heat Only, Electric, Gas, Millivolt	50°F to 90°F (10°C to 30°C) / +/-2°F (+/-1°C)	0.1 to 1.2 Amps	24V AC and 250-750 mV, 1.5 Amps max load (all terminals combined)
988-1R	Mechanical	1 Heat / 1 Cool, Electric, Gas, Millivolt	50°F to 90°F (10°C to 30°C) / +/-2°F (+/-1°C)	0.1 to 1.2 Amps	24V AC and 250-750 mV, 1.5 Amps max load (all terminals combined)

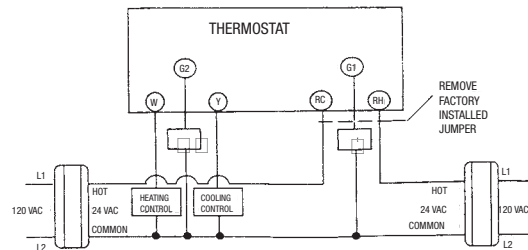
Product Drawings

One Transformer - Models 986-1R, 988-1R



Fan control for gas or oil heating systems
 Fan control for electric heating systems

Two Transformers - Models 988-1R



Fan control for gas or oil heating systems
 Fan control for electric heating systems

1 Year Limited Warranty



LINE VOLTAGE

800 Series

The Robertshaw® 800 Series Line Voltage Thermostats are universal replacements for many other brands and can be used to retrofit most existing electric heat thermostats. With models for heating that include single-line break and double-line break as well as a single-line break cooling model, there is one for every application.

Features and Benefits

- Convenient temperature display - View comfort level at-a-glance
- Bimetal temperature sensing - For improved thermal performance
- Mercury-free - No leveling or special disposal required
- J-Box compatible - Not only will it meet code, but it speeds up installation
- Positive-off switch - Assured shutdown of HVAC system
- Universal replacement - Can retrofit most existing electric heat thermostats



801

Robertshaw[®]



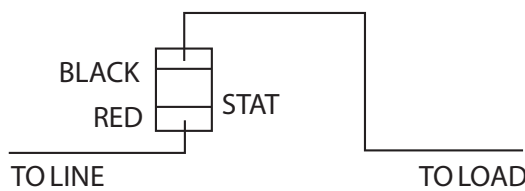
Scan for all models, literature and cross reference

Specifications

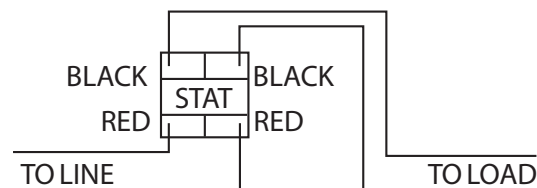
Part Numbers	Description	Application	Temperature Range / Accuracy	Switch Action	Electrical Rating
801	Line Voltage	Heating	50°F to 90°F (10°C to 32°C) / +/-2°F (+/-1°C)	SPST	120 / 240 / 277 Volts, Non-Inductive, 1/4 HP @ 120V AC, 1/3 HP @ 240V AC, 125 VA Pilot Duty
802	Line Voltage	Heating	50°F to 90°F (10°C to 32°C) / +/-2°F (+/-1°C)	DPST	120 / 240 / 277 Volts, Non-Inductive, 1/4 HP @ 120V AC, 1/3 HP @ 240V AC, 125 VA Pilot Duty
803	Line Voltage	Cooling	50°F to 90°F (10°C to 32°C) / +/-2°F (+/-1°C)	SPST	120 / 240 / 277 Volts, Non-Inductive, 1/4 HP @ 120V AC, 1/3 HP @ 240V AC, 125 VA Pilot Duty

Product Drawings

Single Pole Thermostat - Model 801,803



Double Pole Heating Thermostat - Model 802



1 Year
Limited
Warranty



Wall Thermostats

RANCO®



Scan for all models, literature and cross reference



J10-808

HUMIDITY CONTROLS

J10 Series Humidistats

The Ranco® J10 Series Humidistats are designed to regulate the relative humidity of confined spaces by cycling humidifying equipment. They can be used either as internal components for portable humidifiers and dehumidifiers, or as mounted humidity controls for central systems.

The J10 is a relative humidity control, consisting of a humidity sensing element, adjustable set-point cam and electrical switch. The sensing element changes length in response to the exposed RH to move the switch mechanisms at appropriate switch points.

Features and Benefits

- Strong beige plastic frame with integral switch
- Improved woven nylon sensing element provides 12 times faster speed of response than film nylon elements
- Greater stability of setpoints over dramatic changes in relative humidity
- Switch grade plastic frame eliminates the need for grounding the control
- Choice of (2) SPST and (2) SPDT switches to better match applications
- Choice of fixed or adjustable setpoint
- Choice of dial shaft flat orientation
- Gold-plated contacts available for microprocessor load applications
- Available with case and cover for wall/duct mounting

Specifications

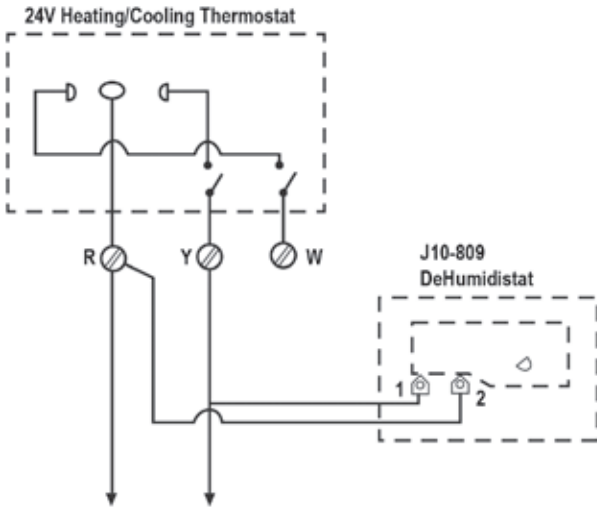
Part Numbers	Description	Application	Relative Humidity Range	Temperature Range	Differential	Control Cycle Rating	Electrical Rating
J10-808	Humidistat	Wall / Duct Mount	10 to 60%	32°F to 140°F (0°C to 60°C)	5% to 15% RH	Automatic switch cycles @ 140°F (60°C) 50000. Manual dial shaft cycles 6000.	24V AC / 60V AC
J10-809-W	Dehumidistat, White model	Wall Mount	20 to 80%	32°F to 140°F (0°C to 60°C)	5% to 15% RH	Automatic switch cycles @ 140°F (60°C) 50000. Manual dial shaft cycles 6000.	24V AC / 60V AC
J10-810	Dehumidistat, Vertical model	Wall Mount	20 to 80%	32°F to 140°F (0°C to 60°C)	5% to 15% RH	Automatic switch cycles @ 140°F (60°C) 50000. Manual dial shaft cycles 6000.	24V AC / 60V AC



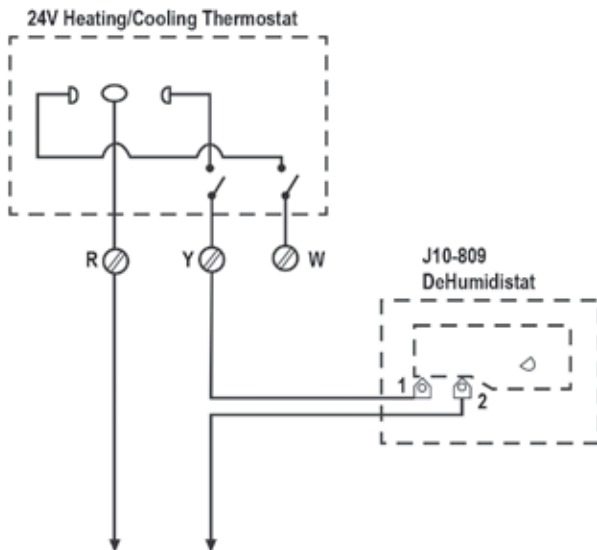
R
R
A
N
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O

Product Drawings

Wiring Diagram - Parallel Installation



Wiring Diagram - Series Installation



1 Year
Limited
Warranty

TIPS ON SELECTING A REPLACEMENT GAS VALVE

Safety Warning: Any work on gas valves or equipment should be performed by a qualified service technician only. Please do not attempt any repairs or replacement if you are not qualified. Serious injury can occur from improper installation or usage.

Disclaimer: The cross references provided in this catalog are intended to be functional equivalents and not exact matches of products listed. Invensys assumes no liability in connection with the information contained herein and makes no representations regarding the accuracy of any such information. Final selection of a replacement product is the sole responsibility of the buyer.

GAS VALVE SELECTION CHECKLIST GUIDELINES

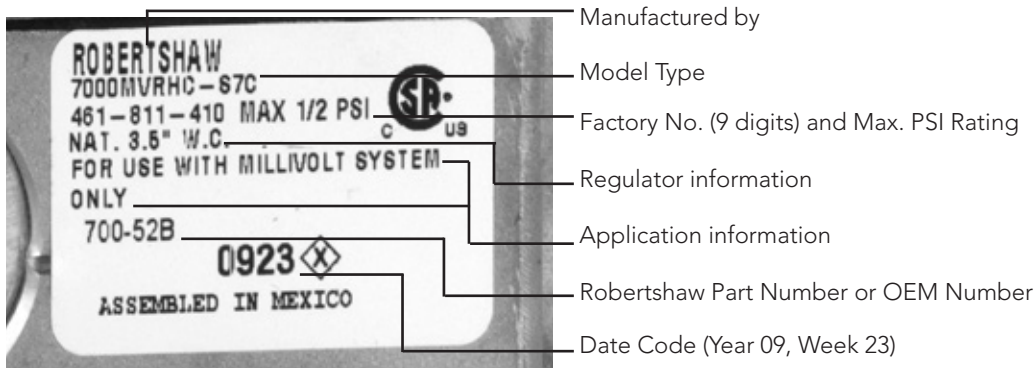
Always check the following with any gas valve retrofit application:

1. Check capacity
2. Check inlet and outlet sizes
3. Determine if the valve is non-regulated
 - a. Check if the pressure regulator requires adjusting
4. Determine if the replacement requires straight-thru
5. Determine if the application is LP or Natural Gas
 - a. For LP gas, a separate pressure regulator may be required
6. Determine if the pilot needs to be plugged
7. Determine if the valve is slow opening
8. Determine if a transformer is required
9. Determine if the replacement shaft and hub will require assembly
10. Check OEM and replacement manuals for proper installation instructions

HOW TO READ AND INTERPRET A GAS VALVE LABEL

To identify your valve type, locate the red or white factory label on the valve body.

Note: It is essential to write down the nine digit factory number correctly.



An OEM valve may have an OEM part number instead of the Robertshaw part number. The cross reference on the following pages will cross most nine digit factory numbers or OEM part numbers to the Robertshaw numbers.

Gas valves with white labels are usually manufactured to be used on natural gas applications. Red labels indicate the valves are usually manufactured to be used on LP gas applications.

Any additional characters after the nine digit factory number are used for shipping purposes and should be ignored when cross referencing.

FACTORY MODEL CODE IDENTIFICATION

APPENDIX

Factory Model Number			DESCRIPTION
7000	2000	7200	
•			A Unitrol 7000 Body with small diameter valve seat. 100,000 BTU
•			B Unitrol 7000 Body with large diameter valve seat. 240,000 or 300,000 BTU
•			BB Unitrol 7000 Body with medium diameter valve seat - Intrinsicly "non-hunting"
•			7010 Unitrol 7000 Body without a gas cock
•			CSTR Convertible Hydraulic Actuator - From natural to LP gas
•	•	•	D Solenoid Valve - Pilot Gas - Single coil operated on AC
•	•	•	E Electric Actuator - 24VAC
•			E12 Electric Actuator - 12VAC
•	•	•	E120 Electric Actuator - 120VAC
•	•	•	E240 Electric Actuator - 240VAC
•			EH Electric Heat Motor Actuator (obsolete)
•			EM Electric Actuator with manual override (obsolete)
•			ESTR-SS Electric Solid-State Actuator (obsolete)
•			F Factory Fixed (not adjustable regulator setting) (3.5° to 5.0° W.C.)
•			GO Bleed Gas Operated Actuator
•			GS Gas Cock Safety - with gas cock and safety valve - no main valve
•			GV Gas Valve without a safety valve - No Safety Magnet
•			-1H Remote dual hydraulic type - dual bellows
•	•		HC High Capacity Body
•			HHC High Capacity Body AGA rated for side ways or vertical mounting. Can be replaced by HC model
•	•	•	IPER Intermittent Pilot Ignition Gas Valve - regulated
•			L Relight Interlock type. A European requirement
•	•		LC Low Capacity Body - 710 Series
•	•	•	LP For Liquefied Petroleum Gases
•			M Manual Actuator
•			MS Millivolt Safety Magnet - uses thermopile type safety
•			MV Millivolt Actuator
•	•		P Pulse Combustion
•	•	•	R Regulator Type
•		•	RS Adjustable (High - Low) pressure regulator adjusts percentage of output. -3 = 50% of full flow -4 = 60% of full flow -5 = 70% of full flow -6 = 80% of full flow

Factory Model Number			DESCRIPTION
7000	2000	7200	
•			RB High/Low
•	•	•	RC Convertible regulator from natural gas to LP and back
		•	RN Negative Pressure Regulator
•			R1 Class I and II Natural Gas Pressure Regulator
•	•	•	R2 Two-Stage pressure regulator valve opens to percentage of full flow as indicated by the number -1 = 30% of full flow -2 = 40% of full flow -3 = 50% of full flow -4 = 60% of full flow -5 = 70% of full flow -6 = 80% of full flow
•			S Hydraulic Snap-Acting Actuator - non regulated
		•	S0 Step-opening regulated with factory fixed setting 30 seconds max. To full flow: -1 = 30% of full flow -2 = 40% of full flow -3 = 50% of full flow -4 = 60% of full flow -5 = 70% of full flow
•			SR Hydraulic Regulated Snap-Acting Actuator
•			ST Hydraulic Snap - Throttle Actuator, but set-up for use on a specific gas; natural gas only or LP gas only. Non-regulated number indicates percentage of By-Pass flow. -1 = 30% of full flow -2 = 40% of full flow -3 = 50% of full flow -4 = 60% of full flow -5 = 70% of full flow
•			STR Hydraulic Snap-Throttle Actuator, regulator number indicates percentage of By-Pass flow. -2 = 40% of full flow -3 = 50% of full flow -4 = 60% of full flow -5 = 70% of full flow
•	•	•	S7 Slow Opening devices with either a plastic body or a metal body Orifice Valve Assembly A = 0 to 5 seconds to full flow B = 5 to 10 seconds to full flow C = 10 to 30 seconds to full flow
•			S13 Slow Opening Control with .0135 orifice in body, but no other "Slow Opening" device. 0 to 5 seconds to full flow.
•			S36 Slow Opening Control with two .018" orifices - one in Body and one in Cover, but no other Slow Opening device. 5 to 10 seconds to full flow.

APPENDIX

GAS VALVE CROSS REFERENCE FOR UNI-LINE® PARTS

Factory Number	Uni-Line Number	Factory Number	Uni-Line Number	Factory Number	Uni-Line Number
110ER	120-402	7000BDER-S7A	700-056	7000BMSM	700-185
110ERCHC	120-407	7000BE	700-405	7000BMV	700-503
110ERCHC20-2E	120-472	7000BE	700-401	7000BMV	700-505
110ERCHCS0-2C	120-474	7000BE-120	700-451	7000BMVR	700-510
110ERCHCSO-2D	120-473	7000BE-120	700-453	7000BMVR	700-504
110S	120-204	7000BE-240	700-461	7000BMVR	700-508
110S	120-201	7000BE-240	700-463	7000BMVR	700-506
110S	120-200	7000BER	700-402	7000BMVR-LP	700-515
110SR	120-202	7000BER	700-400	7000BMVR-S7C	700-511
110SS	120-203	7000BER	700-404	7000BMVR-S7C	700-512
220RLPTS8P	110-286	7000BER	700-406	7000BMVR-S7C	700-507
220RLPTS8P	110-285	7000BER-120	700-454	7000DEHC-S7C	700-058
220RLPTS8P	110-280	7000BER-120	700-452	7000DER2-HC-3-LP-S7C	700-063
220RLPTSP	110-262	7000BER2-3-LP-S7C	700-445	7000DER2-HC-4-S7C	700-064
220RLPTSP	110-270	7000BER2-4	700-446	7000DERHC	700-057
220RLPTSP	110-267	7000BER-240	700-462	7000DERHC-S7C	700-059
220RLPTSP	110-266	7000BER-240	700-464	7000EHC-120-S7C	700-455
220RLPTSP	110-265	7000BER2-HC-3-LP-S7C	700-447	7000EHC-240-S7C	700-465
220RTSP	110-202	7000BER2-HC-4	700-448	7000EHC-S7C	700-441
7000AE	700-407	7000BERC	700-412	7000ELC	710-401
7000AER	700-408	7000BER-LP	700-411	7000ERHC	700-438
7000AERB-3-LP-S7C	700-435	7000BER-LP-S7C	700-429	7000ERHC-120	700-468
7000AERB-5-S7C	700-434	7000BER-S7A	700-426	7000ERHC-120-S7C	700-456
7000AERC	700-419	7000BER-S7C	700-428	7000ERHC-240-S7C	700-466
7000AGO	700-811	7000BGOR-S7B	700-804	7000ERHC-S7C	700-442
7000AGOR	700-812	7000BGO-S7B	700-803	7000ERLC	710-402
7000AM	700-101	7000BGVE	700-423	7000ERLC	710-404
7000AMR	700-102	7000BGVE	700-417	7000GOHC-S7B	700-823
7000AMSGO	700-881	7000BGVE	700-421	7000GORHC-S7B	700-824
7000AMSGOR	700-882	7000BGVE-120	700-457	7000GVEHC-120-S7C	700-459
7000AMSGOR-LP	700-888	7000BGVER	700-422	7000GVEHC-S7C	700-431
7000AMV	700-509	7000BGVER	700-424	7000GVERHC-120-S7C	700-458
7000AMV	700-501	7000BGVER	700-420	7000GVERHC-S7C	700-432
7000AMVR	700-502	7000BGVER-120	700-450	7000GVER-S7A	700-430
7000AS	700-215	7000BGVER2-3-LP-S7C	700-440	7000GVMVLC	710-513
7000AS	700-201	7000BGVER2-4	700-413	7000MHC-S7C	700-113
7000AS-1H	700-209	7000BGVER-S36	700-416	7000MLC	710-101
7000ASR	700-202	7000BGVMV	700-523	7000MRHC-S7C	700-114
7000ASR-1H	700-210	7000BGVMVR	700-524	7000MRLC	710-108
7000ASR-LP	700-216	7000BKER-S7A	700-062	7000MRLC	710-102
7000AST-3	700-203	7000BKER-S7A	700-066	7000MRLC	710-107
7000AST-3-1H	700-206	7000BKER-S7C	700-061	7000MVHC-S7C	700-521
7000AST-LP-3	700-204	7000BM	700-105	7000MVLC	710-501
7000AST-LP-3-1H	700-207	7000BMR	700-106	7000MVRB-5-LC	710-503
7000ASTR-3	700-205	7000BMSE-120-S7C	700-471	7000MVRB-5-LC	710-511
7000ASTR-3-1H	700-208	7000BMSER	700-409	7000MVRHC-S7C	700-522
7000ASTR-4	700-213	7000BMSER-120	700-472	7000MVRLC	710-508
7000ASTR-LP-4	700-212	7000BMSER-120	700-470	7000MVRLC	710-502
7000BDER2-3-LP-S7C	700-051	7000BMSER-LP-120	700-469	7000SLC	710-201
7000BDER2-4-S7A	700-053	7000BMSGO	700-885	7000SLC	710-218
7000BDER-LP-S7A	700-055	7000BMSGOR	700-886	7000SLC	710-203
7000BDER-S7A	700-052	7000BMSGOR	700-887	7000SRLC	710-205

Factory Number	Uni-Line Number	Factory Number	Uni-Line Number	Factory Number	Uni-Line Number
7000SRLC	710-204	7200DER-SO-3	720-054	7222DERC	722-053
7010BGVER	700-418	7200DER-SO-4-120	720-083	7222DER-S7A	722-052
7010BGVMV	700-517	7200E	720-401	7222IPER	722-079
7010BGVMV	700-514	7200ER	720-402	R103RCTSLP	110-506
7010BGVMV	700-513	7200ER	720-400	R103RCTSLPPA	110-503
7010BGVMV	700-513	7200ER	720-406	R103RVTSLP	110-507
7100DER	700-077	7200ER	720-404	R103RVTSLP	110-509
7100DERB-5-S02	700-078	7200ERC	720-007	R103RVTSLPP	110-502
7100DER-LP-S7C	700-073	7200ERCS-2	720-472	R103RVTSLPPA	110-505
7100DER-LP-S7C	700-071	7200ERCS-2	720-474	R103RVTSLPPA	110-501
7100DERN	700-074	7200ER-S7C	720-403	R103RVTSLPPA	110-504
7100DERP	700-076	7200IPER	720-079	R103RVTSLPPA	110-508
7100DER-S7C	700-070	7200IPER2-4	720-082	R110RCTS-PC	110-203
7100DER-S7C	700-072	7200IPER-LP	720-080	R110RCTS-PC	110-204
7200DER	720-051	7200IPER-LP-S7C	720-073	R110RTS	110-326
7200DERB-5-SO-2	720-078	7200IPER-LP-S7C	720-071	R110RTS8P	110-353
7200DERCS-1	720-055	7200IPER-S7C	720-072	R110RTSP	110-206
7200DERN	720-074	7200IPER-S7C	720-070	R65RRRTSP	110-268
7200DER-S7C	720-050	7200IPER-SO-4	720-081		
7200DER-S7C	720-052	7222DER	722-051		

COMMERCIAL COOKING CROSS REFERENCE FOR UNI-LINE® PARTS

Factory Number	Uni-Line Number	Factory Number	Uni-Line Number	Factory Number	Uni-Line Number
401XM	41-224	FJTDO-13	4075-200	BJWA25PC-01-48	4350-027
501A	41-204	GS-A6-030-18-00	4290-006	RX-1-36	5300-401
501A	41-205	GS-C8-060-00-00	4290-008	RX-2-24	5300-402
501A	41-209	GS-J1-036-00-00	4290-020	RX-6-36	5300-406
7000BGOR-S7B	700-804	INF-120-1152	5500-134	S-234-36	5300-175
7000BMSGOR	700-886	INF-120-1152	5500-135	S-23-48	5300-041
7000BMSGOR	700-887	INF-240-1153	5500-234	S-384-36	5300-114
BJWA25PB-02-48	4350-015	INF-240-1153	5500-235	SA-245	5300-017
BJWA25PC-09-36	4350-028	INF-240-597	5500-202	SA-382-36	5300-017
BJWA25PD-10-48	4350-040	INF-240P-1047	5500-287	SJ-157-36	5300-146
BJWA25PM-02-48	4350-127	INF-240P-1148	5500-212	SJ-328-36	5300-146
BJWA25PM-03-48	4350-128	INF-240PX-803	5500-200	SM2	41-521
BJWA25PM-11-48	4350-027	KA-601-36	5300-015	SP-184-60	5300-612
BJWA44TC-12-36	4350-029	KA-601-72	5300-088	SP-186-60	5300-614
D1-32-060-59-00	5000-851	KA-604-48	5300-027	SP-191-60	5300-618
D1-C5-060-59-00	5000-811	KNP-6-36	5300-502	SP-192-36	5300-641
EA3-44-36	5300-100	KX-161-24	5300-766	SP-197-60	5300-651
FDH-1-06-48	4200-508	KX-299	5300-401	SP-200-60	5300-671
FDO-1-04-48	4200-007	KX-396	5300-402	SP-390-36	5300-219
FDO-1-07-48	4200-005	KX-87-36	5300-711	TS11J-1211-1-0	1720-008
FDO-3-05-54	4200-025	KXP-149-60	5300-735	TS11J-1311-1-0	1720-005
FDTH-1-05-48	4200-505	LCC-36-060-00-00	5225-010	TS11J-3211-1-0	1720-004
FDTH-1-06-48	4200-503	LCH-37-030-00-00	5225-009	TS11J-4211-1-0	1720-007
FDTH-3-06-54	4200-026	LCH-68-024-00-00	5225-047	Z871470042	5210-125
FDTO-1-05-48	4200-011	LCH-J6-024-00-00	5225-054	Z950641100	1720-801
FJT-102-1040	4075-029	LCHM-05-030-00-00	5225-112	Z950644100	1720-802

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10-210	B43	695-101	B24	1720-801	A24
10-227	B42	700-048	B2	1720-802	A24
10-528	E7, E12	700-049	B2	1751-003	B17
10-529	E7, E12	700-056	B2	1751-012	B44
10-650	B40	700-057	B2	1751-013	B17
10-760	B42	700-059	B2	1751-021	B17
11-193	B43	700-064	B7	1751-729	B42
11-195	B43	700-205	B8	1820-009	B34
11-293	B43	700-400	B4	1820-019	B34
35-605606-111	B27	700-402	B4	1830-001	B34
35-605606-223	B27	700-406	B4	1830-210	B34
35-630501-001	B25	700-409	B4	1830-489	B34
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