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IMPORTANT: Read this guide carefully to understand all the features of your luxurious programmable thermostat. INTRODUCTION Deluxe Programmable Thermostat is the most advanced solid state, microcomputer temperature control on the market today. The thermostat includes the most advanced technology packaged in an extremely low profile designer series case. Ultra-Touch controls are combined with easy-to-read full liquid crystal display features to ensure your heating and air conditioning equipment works as well as possible. STANDARD..... 38-39

watch display Choice Fahrenheit or Celsius temperature display Lockable access Cover Full liquid crystal display function (LCD) No Automatic transition to 300-204, 205, 206, or 230 4 FOR MODEL 300-224, 226, 230 Click to set in real time day, hour and minute Press change from standard time to DST Click to set the temperature program and start time Click to display the outdoor temperature (optional) Outdoor DST Mode Program Fan Hold Summary Click to heat pickcool/autoturn off. The word is displayed within 5 seconds. (Extremely warm for Choose for a continuous fan or automatic Click fan to hold the current setting. The program will be conducted indefinitely or until resume is pressed to get out of the hold or override the program, or when the programming is completed To lower the set point of the set To raise setpoint Press s and t at the same time to change 5 FOR MODEL 300-225, 227, 229 Click to set in real time day, hour and minute Click to install heating and cooling seasons Click set program days and times Click to display outdoor temperature (optional) Outdoor Set Program Program Fan Th AM Hold Press, to choose a warm/cool set The word is displayed within 5 seconds. (Extraordinary Heat for 300-227) Summary Choose for a continuous fan or automatic click fan to hold the current setting. The program will be conducted indefinitely or up to Pressed the press to get out of the retention or override program, or when the programming is completed To lower the set point To raise the setpoint Press s and t at the same time to change 6 THERMOSTAT LOCATION To ensure proper operation, the thermostat must be installed on the inside wall in the den occupied area of the building. In addition, its position should be at least 18 (46 cm) from any outer wall, and approximately 5' (1.5 m) above the floor in a place with free circulating medium temperature air. Be sure to avoid the following places or according to, air-conditioned air discharge bars, stairwells or external doors, where it may be affected by steam or water pipes or warm air stacks in a nearby partition, or unheated/cooled areas behind the thermostat, where it will be affected by the power of a nearby unit, near sources of electrical interference such as the ant relay 7. Insert a screwdriver from a flat blade or a 1/8 coin into a slot located in the lower center of the thermostat case and rotate 1/4 of the turn. When you feel or hear a click, take the case from the bottom two corners and separate from the subbase, as shown in the diagram on the left. Some models require more power than others when splitting because of the number of terminals used. 2. Saving the thermostat from the bottom. 3. Lift the thermostat up and turn off the subbase. 4. Place a rectangular hole in the subbase above the control wires of the equipment protruding from the wall, and using the subbase as a template, mark the location of the two mounting holes (precise vertical installation is necessary only for appearance). 5. Use the anchors and screws for installation on drywall or plaster. Drill two holes with a diameter of 3/16 (5 mm) in marked places. Use a hammer to touch the nylon anchors in a flush to the surface of the wall and secure the subbase with the supplied screws. (Don't drag it out!) 6. Connect the wires from the system to the thermostat, as shown in the wiring charts. Gently put the wires so that any excess is pushed back into the wall cavity or packing box. Make sure the wires are washed off on a plastic subbase. The access hole must be sealed or stuffed to prevent drafts from affecting the thermostat. 8 DESCRIPTION DIP SWITCH FUNCTIONS: 2 Events or 4 Events per day (300-225, 300-227, 300-229) Your thermostat can be installed by either 2 events or 4 events per day. 2 events will allow you to program the setting of the day and settings of the night. 4 events will allow you to program Morning, Daytime, Evening and Night Settings. Smart Fan (300-225, 300-227, 300-229) When smart fan is in the ON position and the fan has been energized (during the occupied program), the thermostat will keep the fan running continuously during busy programs and automatically loop the fan with a call to heating or cooling during the unoccupied program. NOTE: The Unoccupied Program in the Night program. 2 minute or 4 minute minimum on Times Keylock Lock Place the switch in a locked position to block all buttons except the OUTDOOR button. Plenum Fan Switch (300-224, 300-225, 300-229) OFF - The fan comes on immediately with heat (used on electric fire). ON - The fan is controlled by the system (used on gas/oil heat). A standard/additional heat pump (300-226, 300-227) For most heat pump applications, this switch should be left in a standard position. This will allow the compressor and auxiliary heat to be at the same time. For additional heat pumps, or heat pumps that require fossil fuel kits, move the switch to a supplement position. This will turn off the compressor with a call for auxiliary heat. 9 Single or Multistate (300-227, 300-229) For equipment with one compressor (2 heat) cool for 300-227 or 1 heat) cool for 300-229, switch to one step. For equipment with two compressors (3 heat) cool for 300-227 or 2 heat) cool for 300-229, switch to multi-stage. LED #1 (300-226, 300-227, 300-229) Switch ON will activate the LED light tube at the top of the thermostat plus the filter indicator on display. This means that the filter has to be changed. LED #2 (300-226, 300-227, 300-229) Switch ON will activate the LED light tube at the top of the thermostat plus the wrench on display. This indicates that maintenance is required. FEATURES Remote sensor RS1 - RS2 - RS-V Thermostat is designed to take a remote sensor (10-528) that will allow you to find a thermostat in an area away from viewpoint. Your thermostat is equipped with an LED indicating when the system has turned on the auxiliary heat mode. It's a central (red) LED. Additional heat pumps (300-226, 300-227) your thermostat is equipped to improve the performance of the heat pump and on. In most applications, the thermostat will act as a fossil fuel kit. To select Add-On, place the switch (#3 for 300-226, #5 for 300-227) on the ON position. The thermostat will turn off the compressor to call the heat AUX. When the switch is set to HYST, the thermostat allows the compressor and AUX heat to be on at the same time. 10 Installing open high and low temperature balance points. (300-225, 300-227) Using an additional Robertshaw Remote Outdoor Sensor (10x Line #10-529), you can choose an open balance of points to block the auxiliary heat and/or the heat pump compressor. To set the balance points: 1. Press and hold the OUTDOOR button. Then click MODE. HBP will appear in the means a high equilibrium point, along with a factory installation of 119 degrees Fahrenheit (48 degrees Celsius). Any external temperature above HBP will block the auxiliary heat, any temperature below HBP will allow the auxiliary heat to run when called for a thermostat. 2. Press the s or t button to set the HBP temperature. (A typical parameter can be 52 degrees Fahrenheit.) 3. Click THE OUTDOOR button. The HBP will appear in the display, meaning a low equilibrium point, along with a factory installation of -54 degrees Fahrenheit (-48 degrees Celsius). Any external temperature below the LBP will block the compressor, any temperature above the LBP will allow the compressor. 4. Press the s or t button to set the LBP temperature. (Typical setting can be 26 degrees Fahrenheit.) 5. Click RESUME. 11 COVER LOCK: You can also lock the lid to prevent unauthorized access to the thermostat by adding a clear plastic lock (included in the installation bag). To install, remove the thermostat from the base and place a clear plastic lock in the subbase, as shown below. Replace the thermostat and close the lid. The lid is now locked. To open, just use a screwdriver to push the lock back, allowing you to open the lid. To remove the lock, open the lid, remove the thermostat from the base, and then remove the lock. R 24V 24V (G) RS1 RS-V REPLACING THE THERMOSTAT ON THE SUBBASE. 1. We have a thermostat on the hinge tabs located at the top of the subbase. 2. Gently swing the thermostat down and press to the bottom edge of the center until it clicks in place. 12 WIRING DIAGRAM - 300-224 4 mins (on/off) 1 2 mins (on/off) Unlocked 2 Electric Blocked 3 Gas ADD JUMPER FOR SINGLE TRANSFORMER RS2 RH RS1 W RS-V HEAT #1 RC Y COOL #1 FAN G 300-224 13 Line W Voltage Y G 24 VAC TRANSFORMER OUTPUT - 300-224 4 min. (on/off) 1 2 min. (on/off) Unlocked 2 Blocked 3 Electric Gas 300-224 RS2 RH W RS-V RC Y G OFF ON 4 min. (on/off) 1 Unlocked 2 Electric RH..... 24VAC delivers from W heating..... Energies heating equipment with a call to heating RC..... 24VAC delivers from cooling Y..... Energies cooling equipment with a call for cooling G..... The fan is energized by a call for heating or cooling, or is selected by pressing the FAN button in heating mode. RS2..... Use to connect the RS2 external temperature sensor and/or indoor remote sensor options. Check the instructions included with the sensors. Events load resistors (provided) may be required on W, Y and G switch schemes if equipment does not attract .080 ampifiers. 2 min. (turn on/off) Blocked 3 Gas Connect load resistors on equipment. See the important installer's note on pages 38 and 39. 14 WIRING DIAGRAM - 300-225 4 Events 1 Smart Fan OFF 2 4 min. (on/off) 3 Unlocked Electric Note 1: If the jumper is removed, a separate transformer should be used to power the power Load. Note 2: This thermostat can be used with 24 volt DC. The negative side of DC power should be connected to Terminal 24V (C). 21 Events ON 2 min. (on/off) 4 Blocked Gas Note 1: 300-225 RS2 RS-V HEAT STAGE #1 COOL STAGE #1 W1 Y1 G R 24V 24V (C) FAN W Y G Line Tension COMMON 24 VAC Transformer Note 1: 15 OUTPUT TERMINAL FUNCTIONS - 300-225 4 Events 1 Smart Fan OFF 2 4 min. (on/off) 3 Unlocked Electric 2 Events FOR 2 minutes. (on/off) 4 Blocked Gas 300-225 W1 Y1 R 24V 24V (G) RS2 RS1 RS-V OFF 4 Events. 1 Smart Fan OFF 2 4 min. (on/off) 3 Unlocked Electric 2 Events. 1 Smart Fan OFF 2 4 min. (on/off) 4 Blocked Gas W1..... Energies on call for first stage of 13 heat..... Energies with a call for cooling G..... The fan is energized with a call to heating or selected by clicking the FAN button..... Independent voltage switching 24V..... 24 VAC hot from the equipment transformer 24V (G)..... 24 VAC common from RS2 transformer equipment..... Use to connect the RS1 external temperature sensor and/or indoor RS-V remote sensor options. Check the instructions included with the sensors. Allows for DC surgery required on some old Lennox and Macquarie units. To replace the dual transformer system, connect the hot lead transformer with a higher rating (T1) to Terminal 24V. Connect the total to 24V (C). Connect the overall from the second transformer to the common lead T1 and tape or wire nut hot lead T2. 16 WIRING DIAGRAM - 300-226 4 min. (on/off) 1 Unlocked 2 Blocked Standard 3 Supplement Note 1: If the jumper is removed, the R terminal can be used to accommodate independent switching schemes. Note 2: This thermostat can be used with 24 volt DC. The negative side of DC power should be connected to Terminal 24V (C). 2 min. (on/off) Hot used should be OFF 4 Hot used Led #1, with filter symbol 5 Led #2 with fault symbol 6 Led #1 only Led #2 only LED1 Note 1: LED1 W1 Y1 Y1 RS2 G G RSI R 1 1 RS-V 300-226 24 VAC Transformer Voltage Line 24V 24V (C) O O O B B Delete Connection. If a separate transformer is used, important switch #4 should be left in the position off 17

