

INSTALLATION, OPERATION & APPLICATION GUIDE for 8530-345\*, 8530A345\*, 8530-338\*, 8530-346\* and 8530-348\* 1 STAGE HEAT PUMP



\*Last digit represents specific model number Note: Thermostat markings may vary with model.

## Caution

This thermostat should be installed by trained technicians only. Adhere to all local and national codes. Disconnect all power to the system before installing, removing, or cleaning.

## Operation

The display indicates room temperature and the word **ROOM** is shown on the LCD until the temperature selector is pressed; at which time the display temporarily indicates the setpoint temperature and the word **SET** is shown on the LCD. Each time the **UP** arrow is pressed, the setpoint will increase. Each time the **DOWN** arrow is pressed, the setpoint will decrease. Once the temperature selector button is no longer pressed for a few seconds, the room temperature will again be displayed, and the word **ROOM** will be displayed on the LCD.

In electric heat mode, if the heat pump is unable to satisfy the thermostat, the heat pump goes into lockout. See heat pump and backup heat example on Page 4 for conditions of heat pump lockout. **DIFF** will display on the thermostat LCD indicating backup heating is required to satisfy the thermostat.

In gas heat mode, the gas furnace will provide the only source of heat and the heat pump is locked out.

Temperature						
Mode	Range					
	°F	°C				
Cooling (set)	98°F to 33°F	37°C to -1°C				
Heating (set)	98°F to 33°F	37°C to -1°C				
Display (room)	99°F to 32°F	38°C to 0°C				

Note: The temperature is displayed in degrees Fahrenheit as a factory set default. To display in degrees Celsius, move the jumper marked "F" and "C" to bridge between middle pin and position "C", then cycle 12 volt power off then back on again (see Figure 2).

Refer to operation chart for a more detailed listing of operation sequence.

## Operation Chart

The chart below shows the system functions with the 8530-345\*, 8530-345\*, 8530-338\*, 8530-346\* and 8530-348\* thermostats. After the entire air conditioning system (and furnace system) is installed, check each position function.

	Mode	Fan Mode Switch	Fun Speed Switch	Celling	Operations of Linus
4	Cool	Auto	Lo	No	No functions occur in this mode
×	Con	- Auto:	Lo	Tree :	GL:FAN Lo (Grey), Y-Compressor (Yollow) energized
3	Codi	On.	E0	190	OL FAN Lo (Gray), minipposit
A	Sodi	On-	1,0	Yes.	OL FAN Le (Gray): Y-Compressor (Vollow) scengrant
A	Cosi	Auto	16	two	No functions occur in this mode
6	Cost	Auto	H	( Yes	GH-FAN H (Green), Y-Compressor (Yellow) energized
T	Coop	001	19	(140	GH-FAN H (Green), energized
ä	Godi	On	96	1000	(SHEAN HE (Green): T-Compressor (Yeros) err 3220
9.	. CH	Aut.	Loom	Pen	No fundory occur if the mode
w	Cirt	On.	- kai	Bits	CHI-FAN Lo (Gray), energized
Ħ	Oit	Oil	144	Nes	CH-FAN Hi (Green), energized
12	Gas Heat	Auto of Cht	Lo or Hi	No	No functions occur in this made
15	Gun Hant	Autorol On	Liverit	791	VAF Furtises (White) arrangement to run the flammore
14	Exc Heal	Auto or Dn	Local	No	No functions occur in this mode
13)	Elec Heel	Auto of On	LoarH	700	WitP-Heat Pump (White/Brack) will be energized to turl the heat pump.
16	Elec Heet	Auto of On	Loarin	Back-up heat 5" below extports	WHP Heat Pump (White/flack) will be energoed to roll the heat pump and WE Furnace (White) will be energoed to rull the furnace.

## NOTE 2

September 1	Temp.	Distriction			
70	70+	No functions cools			
	69	Heat Pump farm on governey field abuse)			
	21	Hant Purg turn of Immount Ampfolls			
	66	Heat Puris turis of			
	55	Gas Furnace nums on (freet pump not able to summly thermostas). (First series for package best courses).			
	75	Gas Firmace suns of heat pump suns of thermodel settleton			
	m	Heat Purry horse on			
	62	Gee Flumbol furns on fleet pump not while to surely thermoster) Second pures for deckup heat counter)			
	21	Gas Planace turns off, head pump turns off (thermostet autiefe-ti)			
	99	Head Vienp burns on			
	60	These frames have on these purpor a space or and to satisfy thermostati, the high head counter resolves and sinks and head purpor is possed out the 1 kmm and 45 remotes:			
		Backing had counter in your If Hast Plump is running for more than 20 minutes a does not sail for Sacting heat.			
	72	One Promote harve of provincessed survival.			
	66	One Furnisce buttle on (becomes primary heat source)			
	11	Gas Furnace turns of Ittempotate suitable!			
		After 1 insur and 45 remains re-smit.			
	44	Hear Paint Survey Committee 44 Committee Courts			
	66	Gas furnishe have on, from sump tooks of the course primary free occurs (sent pump to second out to explain 1 hour and 45 minutes).			
	PE:	Cast Furnish Larie of Historical autoforti			
		After 1 boar and at commen receipt			
	60	man Pump burns on program at Jumpy land Microsi			
	71	ner Purplane of Demonsk satisfied			
		Backup heat counter in reset any time Heat Psymp satisfies thermostat aetpoint and dose sock east yes furnice			