## ATTENTION SERVICE PERSONNEL AIR HANDLER CONTROL SET-UP GUIDE PLEASE KEEP WITH UNIT FOR FUTURE USE!

## 7-SEGMENT DISPLAY AND CONFIGURATION GUIDE

Refer to unit installation instruction for details concerning configuration of unit size code and electric heat.

Unit Size Codes For Air Handlers					
Unit Size Code	Air Handler Model	Unit Size Code	Air Handler Model		
1	BCS2M24V	6	BCE4M24S		
2	2 BCS2M36V 7 BCE4M308		BCE4M30S		
3	BCS2M42V 8 BCE4M36S		BCE4M36S		
4	4 BCS2M48V 9 BCE4M48S		BCE4M48S		
5	BCS2M60V L BCE4M60S		BCE4M60S		
Code	Action				
Power- Up	Unit Size Code (number or letter) represents air handler model size and capacity. Refer to <i>Unit Size Codes For Air Handlers</i> table above. If three horizontal bars are displayed, air handler control does not recognize size and capacity.				
•	Idle mode — decimal blinks at 1 Hertz > 0.5 second ON, 0.5 second OFF. Idle mode is displayed when the system is energized but there is no demand.				
Α	Cubic feet per minute (CFM) setting for indoor blower - 1 second ON, 0.5 second OFF > CFM setting for current mode displayed.				
С	Cooling stage — 1 second ON, 0.5 second OFF > 1 or 2 displayed > pause > CFM setting displayed > pause > repeat codes.				
d	Dehumidification mode — 1 second ON > pause > CFM setting displayed > pause > repeat codes.				
d F	Defrost mode.				
Н	Heat stage — 1 second ON, 0.5 second OFF > 1 or 2 displayed > pause > CFM setting displayed > pause > repeat codes. Electric heat available in 1 to 2 stages.				
h	Heat pump stage — displays active heat pump stage (h1 or h2).				

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		Action					
	Indoor	Blower Test E					
	Α	Release push button — Control cycles indoor blower on for 10 seconds at 70% of maximum blower speed for selected unit size. Control will automatically exit <i>Field Test Mode</i> .					
			,				
	Error C	code Recall Mode (Note - Control must be in idle mode)					
g	Solid	E	To enter <i>Error Code Recall Mode</i> , push and hold button until solid <b>E</b> appears, then release button. Control will display up to 10 error codes stored in memory. If	E2			
			<b>E000</b> is displayed, there are no stored error codes.	E2			
	Solid		To exit <i>Error Code Recall Mode</i> push and hold button until solid <b>three horizontal bars</b> appear, then release button.	E2			
		-	Note - Error codes are not cleared.	E2			
	Solid	С	To clear error codes stored in memory, continue to hold push button while the <b>three horizontal bars</b> are displayed. Release push button when solid $\mathbf{c}$ is displayed.	E3			
	Blink- ing	С	Push and hold for one (1) second, release button. Seven-segment will display 0000 and exit error recall mode.	E3			
	Error	Status	of Air Handler	LJ			
		The ai	r handler has lost communication with the rest of the	E3			
er <i>\ir</i> re	E105	system. Check for mis-wired and/or loose connections between the thermostat, indoor unit and outdoor unit. Check for a high voltage source of noise close to the system. This is a self-					
nd		recoverable error.					
).5 is	E114	There is a frequency/distortion problem with the power to the air handler. Check the voltage and line power frequency.					
1 nt	E115	The 24VAC to the air handler control is lower than the required range of 18 to 30VAC. Check the voltage and line power frequency.					
2 >	E120	There is a delay in the air handler response to the system. Check all wiring connections.					
М	E124	The thermostat has lost communication with the air handler for more than 3 minutes. Check the wiring connections, ohm wires and cycle power.					
2	E130	An air handler configuration jumper is missing.					
2 >	E131	The air handler control parameters are corrupted. Replace control.					
or	E132	The air handler control software is corrupted. Replace control.					

on for 10	E180	The thermostat has found a problem with the air handler out- door sensor. Compare outdoor sensor resistance to tempera- ture/resistance charts in unit installation instructions. Replace sensor pack if necessary.			
ted unit	E201	The system has lost communication with the air handler indoor blower motor. Check for loose wiring.			
de)	F000	The unit size code for the air handler and the blower motor size			
old but- Control mory. If codes.	E202	do not match. Reconfigure control.			
	E203	The unit size code for the air handler has not been selected. Configure unit size code.			
d button release	E292	The air handler's blower motor will not start. Check for seized bearing, stuck wheel, obstruction, etc.			
tinue to pars are lid c is	E295	The indoor blower motor is overheating. Check motor bearings and amps. Replace if necessary.			
	E312	The blower cannot provide the requested CFM due to high static. Check filter and duct system.			
button. or recall	E313	The indoor and outdoor unit capacities do not match.			
	E345	The <b>O</b> relay on the air handler has failed. Either the pilot relay contacts did not close or the relay coil did not energize.			
t of the	E346	The R to O jumper was not removed on the air handler control.			
ons be- eck for a s a self- er to the ncy.	E347	The <b>Y1</b> relay on the air handler has failed. Either the pilot relay contacts did not close or the relay coil did not energize.			
	E348	The <b>Y2</b> relay on the air handler has failed. Either the pilot relay contacts did not close or the relay coil did not energize.			
	E350	The air handler's electric heat is not configured.			
required wer fre-	E351	There is a problem with the air handler's first-stage electric heat. Either the pilot relay contacts did not close, or the relay coil in the electric heat section did not energize.			
system.	E252	There is a problem with the air handler's second-stage electric heat. Either the pilot relay contacts did not close, or the rela			
ndler for is, ohm	E352	coil in the electric heat section did not energize. The air handler will operate on first-stage electric heat until the issue is resolved.			
	E409	The secondary voltage for the air handler has fallen below 18VAC. If this continues for 10 minutes, the thermostat will			

See unit installation instruction or information manual for details on clearing the alarms.

turn off the air handler.

## BLOWER ADJUST SELECTION MEDIUM-LOW SPEED | MEDIUM-HI SPEED (COOLING & HP MODE) **JUMPER** (+ 10%) SETTING NORM+ COOLING MODE BLOWER SPEED (-10%) SETTING NORMAL LOW HIGH SPEED OR THE TING NORM+ 0 0 0 0 0 GOU BLOWER POWER 998 990 941 INDOOR BLOWE SIGNAL Bruse 3 A CLG DELAY PROFILE #2 OFF - 100% - DEMAND SATISFIED - 100% FOR 45 SECONDS - OFF & LINK GUIDE HP OFF - 30 SECOND DELAY - 100% DEMAND SATISFIED - 100% FOR 45 SECOND - OFF OOOO OCOO R I+ I- C OO OJTDOOR UNIT R I I- C THE MOSTAT MEDIUM-LOW SPEED T MEDIUM-HIGH SPEED | (ELECTRIC HT MODE) HEATING MODE BLOWER SPEED (COOLING MODE UNLESS NOTED) COOL | CO \* DELAY PROFILE #4 OFF-50%-82%-100%-50%-OFF SPEED \* HIGH SPEED COOLING BLOWER RAMPING DELAY 0 0 0 0 0 1 2 3 4 DELAY PROFILE #3 OFF-82%-100%-OFF DELAY PROFILE #1 HEAT 0 0 0 0 OFF-100%-OFF 7-SEGMENT LED 0 ONLY CFM O O O O 1 2 3 4 85 O EVENHEAT 130 O 130 NOLLNB PUSH ₹0 O Y1-Y2 2-STA() COMPX R-O HEAT PUMP 0 MEDIUM-HIGH SPEED (70%) MEDIUM-LOW SPEED (38%) CONTINUOUS FAN BLOWER SPEED HIGH SPEED (100%) LOW SPEED (28%) 0 99900000000 ON-BOARD LINK **OPTION SELECTION** 2-STAGE W2 W3 DEHUMIDIFICATION / ≾ o ≈ 모 G **1**2 COMPRESSOR LINK ZONING LINK HEAT PUMP LINK FACTORY JUMPER (JUMPERS R to DS) (JUMPERS R to O) (JUMPERS Y1 to Y2) CUT ON-BOARD LINK (SOLDER TRACE) COMPLETELY THROUGH BOTH LAYERS ON THE CONTROL BOARD MDPORTANT- 1177 IMPORTANT: USE CARE WHEN CUTTING LINKS TO PREVENT DAMAGE TO CONTROL. Y1-Y2 \* 1-STG COMPRESSOR DO NOT CUT DO NOT CUT 2 STAGE COMPR NO DEHUMIDIFICATION CONTROL OR ZONING A/C UNIT R-0 DO NOT CUT HEAT PUMP R-DS DEHUM or HARMONY FACTORY DEFAULT SETTING \* SMART MODE - "H" ENABLED WHEN HEAT ACTIVE (HP or ELECT. HT) SMARTAUTO AUTO MODE "H" ENABLED WHEN BLOWER ACTIVE & NO CLG OR DEHUM SMART AUTO Y1-Y2 2 STAGE COMPR HUMIDIFICATION MODE HUMIDIFICATION MODE 24VAC OUTPUT ON "H" FOR HUMIDIFIER OR ACCESSORY INTERLOCK CUT LINK 2-STG COMPRESSOR CUT LINK DEHUMIDIFICATION CONTROL OR ZONING HEAT PUMP UNIT R-0 CUT LINK HEAT PUMP R-DS DEHUM or HARMONY