Outdoor Unit Control 7-Segment Display and					Heat stage 2 string display > pause > F outdoor fan RPM displayed			Error Code Recall Mode (Note - control must be in idle mode)	
Contiguration Guide				ΠE	> pause > A ambient temperature displayed > pause > repeat mode.			To enter error code recall mode, push and hold button until	
Unit Type for # of Stages	or Outdoor Con Type of Unit	trol Capacity	RPM	EI	Cool s > paus	tage 1 string display > pause > F outdoor fan RPM displayed se > R (ambient temperature displayed >pause> repeat mode.	Solid	E solid E appears, then release button. Control will display up to 10 error codes stored in memory. If E000 is displayed, there are no stored error codes.	
2	AC AC	18, 24, 30, 36	, Setting 1 - 15 (RPM settings lo-	65	Cool s >paus	tage 2 string display > pause > F outdoor fan RPM displayed e >Я (ambient temperature displayed > pause > repeat mode.	Solid	 To exit error code recall mode push and hold button until sol- id three horizontal bars appear, then release button. Note - 	
1	HP 42, 48 and 60 cated on unit wiring diagra		cated on unit wiring diagram)	Configur	figuring Outdoor Fan Speed (Note - Control must be in Idle Mode)			- Error codes are not cleared.	
2	HP				1			To clear error codes stored in memory, continue to hold push	
Configuration and Test Modes - Control must be in Idle Mode				Display	Code	Procedure Release push hutton — Allows user to select outdoor fan	Solid	c button while the 3 horizontal bars are displayed. Release push button when solid c is displayed.	
Solid –	To enter configuration modes (<i>PF</i> , <i>PE</i> , <i>PE</i>), outdoor fan <i>F</i> and forced defrost (d) tests, push and hold button until solid – appears, release button. Display will blink.			Solid	PF	RPM profile. IMPORTANT: New control may need to be manually configured to validate outdoor unit fan RPM setting is correct for unit capacity. Refer to RPM table on unit wing diagram	Blinking	Fold push button for three seconds to contirm command to delete codes. Error codes are cleared.	
							Alarm Code and Description		
Blinking –	king – Push and hold button until required symbol (<i>d</i> , <i>R</i> , <i>F</i> , <i>PF</i> , <i>PE</i> or <i>PE</i>) displays.			:)		Push and hold button — Outdoor control will display a fan RPM profile 3 seconds. When the correct fan RPM profile is displayed release button. Selected code will fight for a 10	E 105	The outdoor unit has lost communication with the rest of the system.	
							E 120	There is a delay in the outdoor unit responding to the system.	
Dis- I play (Display and action (normal operation)		play and action (configuration I test mode)	Blinking	PF	second period. During that period, hold push button for 3 seconds to store code. Once code is stored control will auto-	E 124	The icomfort Touch [®] thermostat has lost communication with the outdoor unit for more than 3 minutes.	
	Display string displays > number of unit stages > pause > <i>RL</i> or <i>HP</i> unit >pause>unit capacity in BTUs>pause >RPM setting of outdoor fan. If 3 horizontal bars are displayed during any sequence of this string, it indicates that the specific parameter is not configured.					matically exit field test mode. If 10 second period expires or push button is held less than 3 seconds, control will auto- matically exit field test mode and go into idle mode without storing fan RPM profile. Repeat procedure to correct.	E 125	There is a hardware problem with the outdoor unit control.	
Power u -Up 1							E 126	There is an internal communication problem with the outdoor unit control.	
				Configuring Unit Capacity (Note - Control must be in Idle Mode)		E 13 I	The outdoor unit control parameters are corrupted		
- (Idle mode — decimal blinks at 1 Hertz > 0.5 second ON, 0.5 second OFF					Release push button — Allows user to select Unit Capacity.	E 180	The icomfort Touch $^{\textcircled{B}}$ thermostat has found a problem with the outdoor unit's ambient sensor.	
R 1	<i>R</i> in the display string represents the ambient temperature in °F at the outdoor sensor on the		Enter <i>R</i> test mode: Display will string active error $code(s) E$, ambient <i>R</i> , $coil c$ and discharge <i>d</i> temperature in °F at	Solid	PC	IMPORTAN: Field replacement control may need to be manually configured to validate outdoor unit capacity. Refer to unit nameplate model number for capacity in 1,000 of BTUs. (18, 24, 30, 36,42 48, 60)	E409	The secondary voltage for the outdoor unit has fallen below 18VAC. If this continues for 10 minutes, the system will shut down.	
	outdoor unit.	out	Joor unit.	Blinking	PC	Push and hold button — Control will display unit capacity number 3 seconds. When the correct unit capacity number is displayed, release button. Selected code will flash for a 10 second period. During that period, hold push button for 3 seconds to store code. Once code is stored control will auto- matically exit <i>Field Test Mode</i> . If 10 second period expires or push button is held less than 3 seconds, control will automat- ically exit field test mode and go into idle mode without stor- ing unit capacity Number. If this happens, configuring proce- dure must be repeated.	E4 10	The outdoor unit pressure is below the required limit.	
d	d - Dehumificati	on mode Er	er d test mode: Forced defrost. stem must be configured as HP and leating mode. Test defrost will termi- e when coil terminate temp is ched (or 10 seconds whichever is ger) or 14 minutes if coil tempera- r emains below terminate temp or oushing button down for less than 2				ЕЧ I I	The low pressure switch has opened 5 times during one cooling cycle. As a result, the system will shutdown.	
	loor fan) RPM	> pause in h mp dis- nate					E4 12	The outdoor unit pressure is above the required limit. The system will shut down.	
	played) > paus peat mode. [ANT : On 2-sta o DS link mus	se > re- IMPOR- ge unit R st be cut by					E4 13	The high pressure or compressor thermal switch has opened 5 times during one cooling cycle. As a result, outdoor control will hard lockout unit.	
	and correct RPM out- door fan profile selected for outdoor fan to oper- ate at lower RPM speed when EDA is active.		seconds. Enter A test mode: Display will string active error codes E, ambi- ent A, coil c and discharge d tempera- ture in °F at outdoor unit.				ЕЧ 14	The discharge line temperature is higher than the recommended upper limit of 279°F.	
				Configurir	ng Unit T	Pelages push butten Allows user to select two and pum	E4 15	The discharge line temperature has been consistently higher than the recommended upper limit of 279°F.	
d F	d F displays when system is in defrost mode - unit must be running in heating mode, outdoor ambient must be below 65°F and outdoor coil temperature must be below defrost termination temperature.			Solid	PĿ	Release push button — Allows user to select type and num- ber of stages on outdoor unit. IMPORTANT : Field replace- ment control may need to be manually configured to validate outdoor unit fan RPM setting is right for unit capacity. See	E4 16	The outdoor coil sensor is either open, short-circuited or the temperature is out of sensor range. As a result the outdoor unit control will not perform any defrost tempering.	
	in the displand	ay string Ent setting Volt erminals Out n (used and rs). RPM bars not apply fan	Enter F test mode: Control outputs DC Voltage onto PWM and com terminals. Outdoor fan will cycle ON for 10 min- utes at 490 RPM. To exit test - Push and hold button until three horizontal bars display. Release button, outdoor fan will cycle OFF. Test DOES NOT output DC voltage to ECM Y1 and ECM Y2 terminals)			And number of stages: IRE, 2RE, IHP, 2HP – AC – air condi- tioning and HP – Heat Pump	ЕЧ П	The outdoor unit discharge sensor is either open, short-circuited or the temperature is out of sensor range. As a result the outdoor unit control will not perform any defrost tempering.	
	output on te PWM and con with EBM motor displayed does n to motor conno			Blinking	PE	Push and hold button — Control will display type and num- ber of stages 3 seconds. When the correct type and number of stages is displayed, release button. Selected code will flash for a 10 second period. During that period, hold push button for 3 seconds to store code. Once code is stored con- trol will automatically exit <i>field test mode</i> . If 10 second period expires or push button is held less than 3 seconds, control	E4 18	There is a faulty W output circuit.	
F							E4 19	The W output on the outdoor unit has reported more than 5 er- rors. As a result, the system has shutdown the outdoor unit.	
	ECM Y1 and E	CM Y2. EC					E450	The heat pump defrost cycle has taken more than 20 minutes to complete.	
н, І	Heat stage 1 string display > pause > F outdoor fan RPM displayed					will automatically exit field test mode and go into idle mode	E45 I	The W output terminal on the outdoor unit is not wired correctly.	
	>pause >R (ambient temperature displayed> pause > repeat mode.					configuring procedure must be repeated.		Note: Refer to Unit Service Manual for possible causes.	





