

Ecoer AC State Chart		
AC State	Phone Portal	Desktop Portal
0	Stop	
1	Ready to Start	Stop
2	Cooling	Fault Stop
3	Heating	Ready to Start
4	Oil Return	Cooling
5	Defrost	Heating
6	Forced Defrost	Oil Return
7	Test Mode Charge Mode	Defrost
8	Pump Down	N/A
10		Test Mode Charge Mode

Symbol	Function
n00 Mode Choice	0 = Normal
	1 = Dry Mode
	2 = High Cap.
n01 Heat Pump Stop	0 = Stop -22F
	1 = Stop -3F
	2 = Stop 15F
	3 = Stop 30F
	4 = stop 40F
n02, W1 Output	0 = On
	1 = Off
n03 W1 Output Temperature	0 = 15F
	1 = 30F
	2 = 40F
	3 = -3F
	4 = Off
n04, Defrost Mode	0 Heavy Frost
	1 Normal Frost
	2 Light Frost
n05, Silent Mode	0 = Off
	1 = Silent 1
	2 = Silent 2
	3 = Night Silent 1
	4 = Night Silent 2
n06, Night Silent Start	0 = Silent 5PM
	1 = Silent 6PM
	2 = Silent 7PM
	3 = Silent 8PM
	4 = Silent 9PM
n07, Night Silent Stop	0 = 5AM
	1 = 6AM
	2 = 7AM
	3 = 8AM
	4 = 9AM
n08, Forced Defrost	0 = Off
	1 = On
Sequence	Press Hold BS1, n00
	Tap BS2, n00 - n08
	Tap BS3, Option 0 - 4
	Tap BS2, Select 0 - 4
	Double Tap BS3, Lock

SEG 1	Value
0	Software Update
1	High Pressure Fault
2	Low Pressure Fault
3	Discharge Temp Fault
4	Board Temp Fault
5	Ambient Temp Fault
6	Defrost Temp Fault
7	Suction Temp Fault
8	Liquid Temp Fault
9	IoT Fault
SEG 2	Value
0	High Pressure Fault
1	Low Pressure
2	Discharge Temp
3	Board Temp
4	Current Limit
SEG 3	Value
0	Stop
1	Ready to Start
2	Cooling
3	Heating
4	Oil Return
5	Defrost
6	Manual Defrost
7	Test / Auto Charge
8	Pump Down

Code	Function
1	AC or Heat Pump
2	Sub Cooling
3	Super Heat
4	Compressor Frequency
5	EEV
6	Condenser Fan
7	LP Low Pressure
8	HP High Pressure
9	TA Ambient Temperature
10	TS Suction Temperature
11	TD Discharge Temperature
12	TH Outdoor Coil Temp
13	TL Liquid Temperature
14	TF Board Temperature
15	Evap Target F
16	Evap Current F
17	Condenser Target F
18	Condenser Current F
19	Compressor Current
20	System Charge 0, 1, 2
21	Software Version
22	Inverter Version
23	Current Fault
24	Last Fault
25	Fault Before Last

Code	Function
P1	High pressure protection
E1	High pressure Lockout
P2	Low pressure protection (cooling)
E2	Low Pressure Lockout
P3	High discharge temp (TD)
E3	High discharge temp lockout
P4	Discharge temp sensor damage
P5	High module temp (TF)
E5	High module temp (TF) lockout
P6	Over-current protection compressor
E6	Over-current protection lockout
P7	Liquid slugging protection
E7	Liquid slugging protection lockout
P8	Low voltage protection
E8	Low voltage protection lockout
P9	Incorrect line sequence
PA	Over-current protection motor
F1	Ambient temp (TA) fault
F2	Suction temperature(TS) fault
F3	Liquid line temp (TL) fault
F4	Defrost temperature(TH) sensor fault
F5	discharge temp(TD) fault
F6	module temp(TF) fault

F7	High pressure(HP) fault
F8	Low pressure(LP) fault
E4	Communication fault
H1	Ambient temp limit cooling
H2	Ambient temp limit heating
H3	Reversing valve fault
H4	Defrost temp(TH) damaged
H5	EEPROM fault
H6	Low voltage alarm
HF	Abnormal function control
E0	System locks C0~CC
C0	Critical over-voltage protection
C1	DC bus over-voltage protection
C2	DC bus under-voltage protection
C3	Over Current Protection
C4	Zero speed fault
C5	Synchronization - PwmsyncErr
C6	Phase loss
C7	Compressor speed inconsistent
C8	Compressor speed instability
C9	Compressor speed difference
CA	AC over-voltage protection
CB	AC under-voltage protection
CC	PFC error

Gas Fired 90+ Furnace Combustion Data	
Oxygen	5 - 7%
Carbon Monoxide (CO)	< 100 PPM
Carbon Dioxide (CO2)	7 - 9%
Stack Temperature	< 125 F
Stack Draft	(+ 0.02 - + 0.08 (WC))
Inlet Pressure LPG	11" - 14"
Inlet Pressure NG	5.5" - 10.3"
Manifold Pressure LPG	Low Fire 4"
Manifold Pressure LPG	High Fire 10"
Manifold Pressure NG	Low Fire 1.6"
Manifold Pressure NG	High Fire 3.5"
Orifice Propane	0.55
Orifice NG	0.45
Code	Function
E1	Shorted Pressure
E2	Open Pressure 1 Stage
E3	Open Pressure 2 Stage
E4	Open Pressure Switch Locked
E5	Open Thermal Limit Rollout
E6	Open Thermal Limit Rollout
E7	Ignition Failure
E8	Flame Loss Locked
FE	Gas Relay Stuck Closed
FL	Flame Low
Pr	Power Reversed
Fo	Fuse Open
bE	Board Error
nL	24 Volt Fan Control Conflict