# Three Phase Platinum

## Troubleshooting Guide



#### Model Numbers

CRQ2-16AT / ERQ2-16AS CRQ3-18AT / ERQ3-18AS CRQ5-21AT / ERQ5-21AS CRQ5-24AT / ERQ5-24AS

#### IMPORTANT NOTE

Please read this manual carefully before installing or operating your air conditioning unit.



## Three Phase Platinum

## **Table of Contents**

01.	Fault Finding Guide	3
	EC Fan Troubleshooting	
	Expected Voltage	
	To check Output PWM in Indoor PCB	
	RPM Limits	
	Compressor Winding	
	Fault and Status Codes	

## Three Phase Platinum

## 01. <u>Fault Finding Guide</u>

FAULT	POSSIBLE CAUSES	REMEDIES
	Built-in safety timers have been activated.	Ensure that 5 minutes has passed from turn on time.
	A breaker has turned OFF or a fuse has blown.	Check breakers and fuses.
The system does not start.	The thermostat set point is incorrect.	Check the wall control settings are correct. Check the "set point" is set low enough for cooling or high enough for heating.
	The master wall controller timer setting is incorrect.	Check the wall controller timer settings. See Operating Instructions section.
	Zones might be switched off.	Check zones are switched on.
Air does not flow (Indoor unit).	During heating operation, the hot start function may have been activated.	During heating operation, the indoor fan is delayed for 46 seconds or until the indoor coil reaches 24°C (whichever occur first). This is to prevent cold drafts. Wait for 46 seconds and the air will start flowing.
All does not now (major dine).	During defrost of the outdoor coil in heating operation; the indoor fan will not operate for several minutes. (The wall controller will display Defrost symbol in the top left-hand of the screen status bar. This Defrost symbol will be seen on all screens).	This is normal operation during the defrost cycle to prevent cold air being blown into rooms.
	The cooling/heating function may not work effectively when the return air filter is clogged with dust and dirt.	Clean the return air filter.
	The cooling/heating function may not work effectively if the air inlet and air outlet on the outdoor unit are blocked.	Make sure the air inlet and air outlet on the outdoor unit is not blocked. Check that the area around the outdoor unit is free from obstructions that may cause the airflow to recirculate.
	The airflow across the indoor coil may not be enough and the anti-freeze protection or over heat prevention systems can lower the cycle capacity for the unit	Reduce the total static pressure on the indoor fan to increase airflow. For example increase duct sizes, reduce tight duct work bends or increase return air grille size.
Cooling/Heating is not sufficient.	The cool/heat load is too great for the air conditioner.	Perform a heat load analysis on the conditioned space. You may need to consider upgrading your air conditioner with a larger system.
	Open windows or doors will cause inefficient operation.	Close windows and doors in conditioned areas.
	Appropriate zones not turned on.	Turn on appropriate zones (if applicable).
	The outside temperature is beyond the air conditioner design conditions.	If you know an extreme day is coming turn the air conditioner on a few hours before ambient temperatures reach extreme.  This should help on those few extreme days.
	You may be trying to operate the whole house on Auto Fan Mode.	Change fan mode to constant HIGH fan speed. This increases the total fan speed. This will boost fan capacity.

## Three Phase Platinum

FAULT	POSSIBLE CAUSES	REMEDIES
Steam emitted from outdoor unit.	This is caused by the defrosting operation of the outdoor units heat exchanger in heating operation in cold ambient conditions.	This is normal during the defrost operation in cold ambient conditions.
Steam emitted from outdoor unit.	Condensation of water on the outdoor coil during heating operation.	This is normal during heating operation. You can purchase drip trays to contain then drain this excess water.
Set temperature cannot be adjusted.	The zone control set temperature limits are being exceeded.	Check the upper and lower temperature limits are set correctly. See operation manual for details on setting upper and lower temperature limits.
Occasional hissing noise can be heard on heating cycle.	This is the sound of the gas changing direction as de-ice cycle begins.	This is a normal function of an air conditioner. The unit is removing any ice on the outdoor unit.
The compressor is running but the	You are in heating mode.	Check the temperature settings.
system is not cooling.	The reversing valve has jammed between heating and cooling.	Replace reversing valve.
The outdoor coil keeps freezing over.	Outdoor coil sensor might be faulty. See sensor (temperature/resistance) table and check resistance value.	Replace faulty sensor.
	May have obstruction in outdoor coil.	Remove obstructions.
There is only one condenser fan working.	The fan is faulty. Test the fan motor for correct voltage, check motor winding resistance, open circuit, check capacitor, etc.	Replace faulty fan. If the fan motor needs to be replaced and there is no one available immediately, then just disconnect the fan electrically and cover the faulty motors fan guard. This way the unit can still operate at reduced capacity using 1 fan until you get a replacement fan motor.
The system is short on gas. You have fixed the leak and want the system to operate at 100% so gas charge can be corrected. What can you do to ensure 100% compressor operation?	You can adjust your wall controller temperature so you have a large differential. This will operate at the system at 100% till the temperature gets to within 4°C of the set point.	Select Cooling or heating mode. If cooling adjust set-points more than 4°C lower than room temp. If Heating adjust set-points more than 4°C higher than room temp. Complete charging procedure until finished.  It is recommended to run QUE test mode (cool or heat test). This can be found in the test menu in the technical menu of the QUE master control.
The indoor unit gives out odour	This happens when smell of the room, furniture, or cigarettes are absorbed into the unit and discharged with the airflow.	If this happens, we recommend you to run the air conditioner on cooling for a period of time with the doors and windows open or have the indoor unit washed by a technician. Consult the installer from whom you bought the air conditioner.
	Check the drain is not piped into the sewerage drain line.	Re-pipe drain with a P-Trap and connect into household drainage or storm water drain.

## 02. EC Fan Troubleshooting

FAULT	SEQUENCE OF EVENTS	POSSIBLE CAUSES	REMEDIES
Airflow hunting during AUTO and Self Learn Mode.	<b>during AUTO and</b> Indoor fan will intermittently "huff".		Reduce static where possible. Review duct design with reference to ActronAir design guidelines (Service Manual, Section 23).
		Fan not set to Auto Mode.	Change fan setting to Auto Mode
Too much airflow		Duct design is not air balanced correctly.	Adjust the duct design to air balance correctly.
when minimum zones are on.	Air is blowing too much when in minimum zones.	Minimum duct and outlet sizes requirements not followed.	Check versus ActronAir guidelines and adjust/change if necessary. Review duct design with reference to ActronAir design guidelines (Service Manual, Section 23).
		During commissioning, Self- Learn mode was not activated.	Carry out self learn mode. See additional operating instruction.
Auto Mode is not available.	When scrolling through fan speeds, Auto Mode is not selectable.	Self learn failed during commissioning.	Ensure that the air is balanced correctly (static may be too low). Review duct design guidelines (Service Manual, Section 23).
Low airflow during	System produces reduced airflow on Auto mode when all or minimum zones are on.	System capacity has been designed to heat/cool only selected areas of the conditions space at any one time.	Operate indoor fan on Low/Med/ High speed to achieve more airflow.
Auto Mode		Excessive static in ductwork.	Reduce static where possible. Review duct design with reference to ActronAir design guidelines (Service Manual, Sec.23).
Indoor fan not changing speeds	When zones are switched to the off position, or as the damper position of active zones close (VAV zones only), airflow to active zones does not reduce.	There is insufficient static within the duct design of the active zones.	Review duct design with reference to ActronAir design guidelines (Service Manual, Sec. 23).
when in Auto Mode.	When zones are switched to the on position, or as the damper position of active zones open (VAV zones only), airflow to active zones does not increase.	There is excessive static within the duct design of the active zones.	Review duct design with reference to ActronAir design guidelines (Service Manual, Sec. 23).

#### Three Phase Platinum

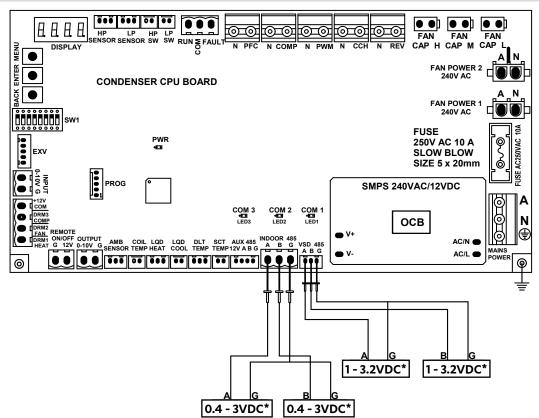
FAULT	SEQUENCE OF EVENTS	POSSIBLE CAUSES	REMEDIES
Indoor fan not changing speeds when in Auto Mode.	When zones are switched on or off, or as the damper position modulates between the open and closed position (VAV zones only) of active zones open, airflow to actives zones does not increase.	The indoor PCB is not changing the fan PWM to adjust the fan PWM to adjust the fan speed.	Check the output PWM from indoor PCB. An increase in fan speed should result in a increase in the fan % PWM (duty cycle). Refer to table below test points expected voltages. To determine if the system may be suffering from excessive or insufficient static, check PWM and RPM values through the indoor unit dashboard on the Master Wall Controller:  • If the RPM is at its maximum value and the PWM has not reached its requested value, this indicates a high static. (Please refer to RPM Limits on next page)  • When switching off zones and there is little or not change in the RPM value, this indicates insufficient static within remaining active zones duct work.

### 03. Expected Voltage

#### **NOTES**

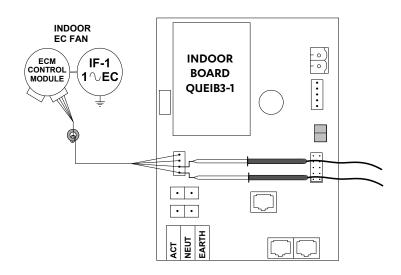
If COM1 (LED1) and COM2 (LED2) are blinking, communication is happening.

\* Voltage sending between A-G and B-G are fluctuating, this means that the communication is happening.



### 04. To check Output PWM in Indoor PCB

11NUT 110DE	EXPECTED PWM % (APPROX)				
UNIT MODEL	LOW	MEDIUM	HIGH		
ERQ2-16AS	49	66	86		
ERQ3-18AS	62	85	100		
ERQ5-21AS	42	59	80		
ERQ5-24AS	44	61	81		

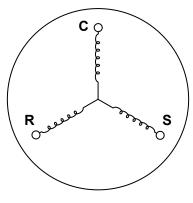


- 1. Set the tester to measure duty cycle.
- 2. Measure the reading across PIN 3 and 4 (blue and yellow wires).
- 3. Change fan speed and check for any changes in readings.

#### 05. RPM Limits

UNUT 1100F1	RPM LIMITS				
UNIT MODEL	LOW	MEDIUM	HIGH		
ERQ2-16AS	1150	1290	1500		
ERQ3-18AS	1150	1290	1500		
ERQ5-21AS	1150	1290	1500		
ERQ5-24AS	1150	1290	1500		

### 06. Compressor Winding



COMPRESSOR WINDINGS SINGLE PHASE

	COMPRESSOR	RATING OF COMPRESSOR WINDINGS (OHMS)			
UNIT MODEL	PART NUMBER/MODEL	C - S	C - R	S - R	
CRQ2-16AT		0.521	0.521	0.521	
CRQ3-18AT	ZPV038LE-4X9	0.521	0.521	0.521	
CRQ5-21AT	CRQ5-21AT ZPV050DE-4X9 CRQ5-24AT	0.610	0.610	0.610	
CRQ5-24AT		0.610	0.610	0.610	

#### NOTE

<sup>•</sup> Please refer to Section 13 - Operation Details on pages 40-41 of Service Manual for Compressor Suction / Discharge Temperature Sensor Chart.

## 07. Fault and Status Codes

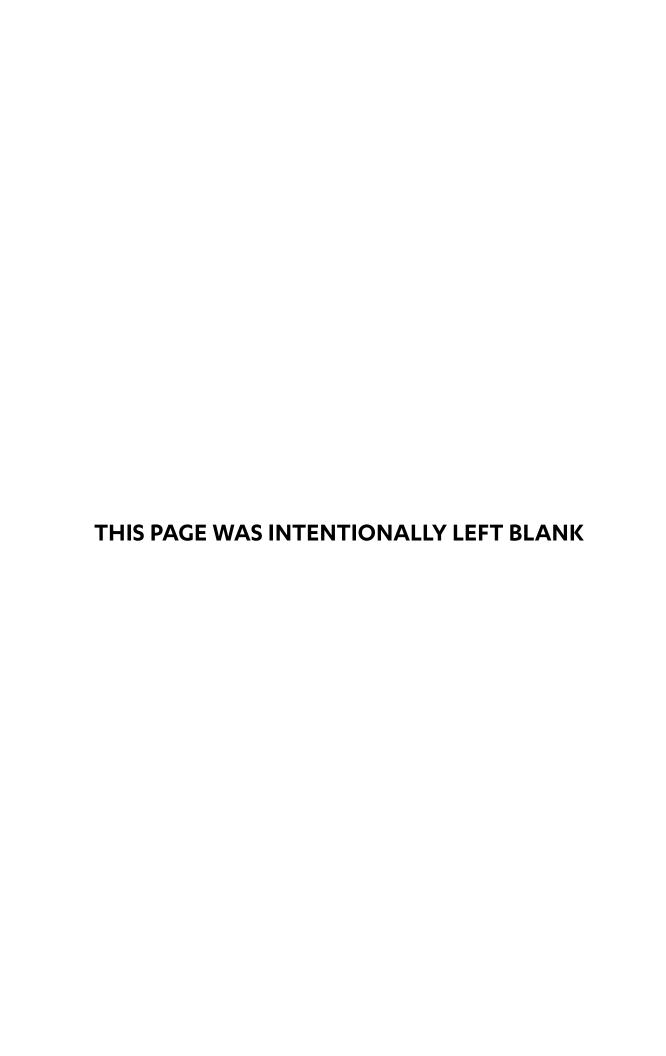
Mais Controller   Controller   CPU   Category   FUNCTION / FAULT	QT*-1000,	ZT*-100	Outdoor		
OFF Coling (Status Bar)         OFF Coling Cool         Status Unit Cooling Mode or Start Cooling (flashing)           Cooling (Status Bar)         Heating         HEAT         Status         Unit Rooling Mode or Start Heating (flashing)	Master Controller	Zone	Unit	Category	FUNCTION / FAULT
Cooling (Status Bar)   Cooling   Cool   Status   Unit Cooling Mode or Start Cooling (Status Bar)   Heating   HEAt   Status   Unit Heating Mode or Start Heating (flashing)	(Main Screen)	Controller	CPU		
Heating   Heating   Heat   Status   Status   Simin to defrost	OFF	OFF	oFF	Status	Unit Off or Unit Turning Off (flashing)
## Defrost Status   dEF3   Status   Heating Mode - Defrost   ## Defrost Status   Heating   Heating   HEAt   Status   Heating Mode - Indoor coil pre-heat after defrost   ## defrost   dEF2   Status   Heating Mode - Indoor coil pre-heat after defrost   ## defrost   dEF2   Status   Heating Mode - Indoor coil pre-heat after defrost   ## defrost   defrost   defrost   defrost   ## defrost   defrost   defrost   defrost   defrost   defrost   ## defrost   defrost   defrost   defrost   defrost   defrost   ## defrost   defrost   defrost   defrost   defrost   defrost   defrost   ## defrost   defrost	Cooling (Status Bar)	Cooling	CooL	Status	Unit Cooling Mode or Start Cooling (flashing)
Befrost Status	Heating (Status Bar)	Heating	HEAt	Status	Unit Heating Mode or Start Heating (flashing)
Heating	-	-	dEF3	Status	3 min to defrost
dEF2	Defrost Status	-	dEF	Status	Heating Mode - Defrost
dEFI	Heating	Heating		Status	
Flash Icon (Stat Bar)	-	-	dEF2	Status	
Flash Icon ( Stat Bar)   -	-	-	dEF1		
Flash Icon (Stat Bar)   -	-	-		Status	Oil returning
Flash Icon (Stat Bar)	Flash Icon (Stat Bar)	-	dr-1	Status	DRM1
● - Tech Menu (E02)         -         E02         IDU         Indoor Coil IN Sensor Error (open or short circuit)           ● - Tech Menu (E03)         -         E03         IDU         Indoor Room Sensor Error (open or short circuit)           ● - Tech Menu (E04)         -         E04         IDU         Indoor Coil OUT Sensor Error (open or short circuit)           ● - Tech Menu (E08)         -         E08         ODU         Outdoor Coil Sensor Error (open or short circuit)           ● - Tech Menu (E08)         -         E08         ODU         Outdoor Coil Sensor Error (open or short circuit)           ● - Tech Menu (E09)         -         E09         ODU         LP Tripped           • Tech Menu (E10)         -         E10         ODU         LP Sensor Error (open/short circuit)           • Tech Menu (E11)         -         E11         ODU         LP Sensor Error (open/short circuit)           • Tech Menu (E15)         -         E15         ODU / VSD         VSD Communication Error           • Tech Menu (E18)         -         E18         ODU         Suction Temp Sensor is Open           • Tech Menu (E20)         -         E22         ODU         Ambient Sensor Failure (open/short circuit)           • Tech Menu (E20)         -         E22         ODU         Ambient Sensor Failur	Flash Icon (Stat Bar)	-		Status	DRM2
Tech Menu (E03)	Flash Icon ( Stat Bar)	-		Status	DRM3
● Tech Menu (E04)         -         E04         IDU         Indoor Coil OUT Sensor Error (open or short circuit)           ● Tech Menu (E08)         -         E06         ODU         High Discharge Temp. (Discharge Temp exceeded 18°C)           ● Tech Menu (E08)         -         E07         ODU         Outdoor Coil Sensor Error (open or short circuit)           ● Tech Menu (E09)         -         E09         ODU         Ly Tripped           ● Tech Menu (E10)         -         E10         ODU         LP Tripped           ● Tech Menu (E11)         -         E11         ODU         HP Tripped           ● Tech Menu (E11)         -         E12         ODU         HP Tripped           ● Tech Menu (E15)         -         E15         ODU/VSD         VSD Communication Error           ● Tech Menu (E18)         -         E18         ODU         Suction Temp Sensor is Open           ● Tech Menu (E20)         -         E22         ODU         Ambient Sensor Failure (open/short circuit)           ● Tech Menu (E22)         -         E22         ODU         Ambient Sensor is Open           ● Tech Menu (E22)         -         E22         VSD         Over Current           ● Tech Menu (E22)         -         E22         VSD         Over Vo	• Tech Menu (E02)	-	E02	IDU	Indoor Coil IN Sensor Error (open or short circuit)
● Tech Menu (E06)         -         E06         ODU         High Discharge Temp. (Discharge Temp exceeded 138°C)           ● Tech Menu (E08)         -         E08         ODU         Outdoor Coil Sensor Error (open or short circuit)           ● Tech Menu (E09)         -         E08         ODU         Utdoor Discharge Sensor Error (open or short circuit)           ● Tech Menu (E10)         -         E10         ODU         LP Tripped           ● Tech Menu (E11)         -         E11         ODU         HP Tripped           ● Tech Menu (E12)         -         E12         ODU         HP Sensor Error (open/short circuit)           ● Tech Menu (E12)         -         E12         ODU         HP Sensor Error (open/short circuit)           ● Tech Menu (E13)         -         E18         ODU VSD         VSD Communication Error           ● Tech Menu (E18)         -         E18         ODU VSD         VSD Communication Error           ● Tech Menu (E20)         -         E22         ODU Ambient Sensor Failure (open/short circuit)           ● Tech Menu (E22)         -         E22         ODU Ambient Sensor Failure (open/short circuit)           ● Tech Menu (E20)         -         E22         VSD Over Voltage           ● Tech Menu (E20)         -         E22         VSD		-			
● Tech Menu (E07)         -         E07         ODU         Outdoor Coil Sensor Error (open or short circuit)           ● Tech Menu (E08)         -         E08         ODU         Outdoor Discharge Sensor Error (open or short circuit)           ● Tech Menu (E10)         -         E10         ODU         LP Sensor Error (open/short circuit)           ● Tech Menu (E11)         -         E11         ODU         HP Tripped           ● Tech Menu (E13)         -         E12         ODU         HP Sensor Error (open/short circuit)           ● Tech Menu (E18)         -         E18         ODU Suction Temp Sensor is Open           ● Tech Menu (E18)         -         E18         ODU Ambient Sensor Failure (open/short circuit)           ● Tech Menu (E28)         -         E18         ODU Ambient Sensor Failure (open/short circuit)           ● Tech Menu (E29)         -         E22         ODU Ambient Sensor Failure (open/short circuit)           ● Tech Menu (E29)         -         E22         VSD Over Vorltage           ● Tech Menu (E29)         -         E27         VSD Over Vorltage           ● Tech Menu (E29)         -         E28         VSD VSD Temperature High           ● Tech Menu (E30)         -         E30         VSD Trip Lock           ● Tech Menu (E29) <t< td=""><td></td><td>-</td><td></td><td></td><td></td></t<>		-			
● - Tech Menu (E08)         - E08         ODU         Outdoor Discharge Sensor Error (open or short circuit)           ● - Tech Menu (E09)         - E09         ODU         LP Tripped           ● - Tech Menu (E10)         - E10         ODU         LP Sensor Error (open/short circuit)           ● - Tech Menu (E12)         - E12         ODU         HP Sensor Error (open/short circuit)           ● - Tech Menu (E12)         - E12         ODU         HP Sensor Error (open/short circuit)           ● - Tech Menu (E18)         - E18         ODU / VSD         VSD Communication Error           ● - Tech Menu (E22)         - E18         ODU / VSD         VSD Communication Error           ● - Tech Menu (E28)         - E22         ODU Ambient Sensor Failure (open/short circuit)           ● - Tech Menu (E22)         - E22         ODU Ambient Sensor Failure (open/short circuit)           ● - Tech Menu (E24)         - E26         VSD Over Current           ● - Tech Menu (E22)         - E27         VSD Over Voltage           ● - Tech Menu (E29)         - E28         VSD Over Voltage           ● - Tech Menu (E30)         - E30         VSD Temperature High           • - Tech Menu (E41)         - E41         VSD OD DC Link Voltage Low           • - Tech Menu (E42)         - E42         ODU Envelope protection error - High co	` ´	-			
● Tech Menu (E10)         -         E09         ODU         LP Tripped           ● Tech Menu (E110)         -         E10         ODU         LP Sensor Error (open/short circuit)           ● Tech Menu (E11)         -         E11         ODU         HP Tripped           ● Tech Menu (E15)         -         E12         ODU         HP Sensor Error (open/short circuit)           ● Tech Menu (E15)         -         E15         ODU /VSD         VSD Communication Error           ● Tech Menu (E15)         -         E18         ODU         Suction Temp Sensor is Open           ● Tech Menu (E22)         -         E22         ODU         Ambient Sensor Failure (open/short circuit)           ● Tech Menu (E26)         -         E26         VSD         Over Current           ● Tech Menu (E26)         -         E26         VSD         Over Voltage           ● Tech Menu (E28)         -         E28         VSD         VSD Temperature High           ● Tech Menu (E28)         -         E28         VSD         Low Supply Voltage           ● Tech Menu (E49)         -         E29         VSD         Low Supply Voltage           ● Tech Menu (E41)         -         E41         VSD         DC Link Voltage Low           • T		-			
● - Tech Menu (E10)         -         E10         ODU         LP Sensor Error (open/short circuit)           ● - Tech Menu (E11)         -         E11         ODU         HP Tripped           ● - Tech Menu (E15)         -         E12         ODU         HP Sensor Error (open/short circuit)           ● - Tech Menu (E18)         -         E15         ODU / VSD         VSD Communication Error           ● - Tech Menu (E28)         -         E18         ODU         Suction Temp Sensor is Open           ● - Tech Menu (E22)         -         E22         ODU         Ambient Sensor Failure (open/short circuit)           ● - Tech Menu (E20)         -         E22         ODU         Ambient Sensor Failure (open/short circuit)           ● - Tech Menu (E20)         -         E22         ODU         Ambient Sensor Failure (open/short circuit)           ● - Tech Menu (E20)         -         E22         ODU         Ambient Sensor Failure (open/short circuit)           ● - Tech Menu (E27)         -         E27         VSD         Over Voltage           ● - Tech Menu (E28)         -         E28         VSD         Over Voltage           ● - Tech Menu (E30)         -         E30         VSD         Trip Lock           ● - Tech Menu (E41)         -         E41	` /	-			
● - Tech Menu (E11)         -         E11         ODU         HP Tripped           ● - Tech Menu (E12)         -         E12         ODU         HP Sensor Error (open/short circuit)           ● - Tech Menu (E18)         -         E18         ODU / VSD         VSD Communication Error           ● - Tech Menu (E22)         -         E18         OPU         Suction Temp Sensor is Open           ● - Tech Menu (E22)         -         E22         ODU         Ambient Sensor Failure (open/short circuit)           ● - Tech Menu (E26)         -         E26         VSD         Over Current           ● - Tech Menu (E28)         -         E28         VSD         Over Voltage           ● - Tech Menu (E28)         -         E28         VSD         VSD Temperature High           ● - Tech Menu (E29)         -         E29         VSD         Low Supply Voltage           ● - Tech Menu (E30)         -         E30         VSD         Trip Lock           ● - Tech Menu (E41)         -         E41         VSD         DC Link Voltage Low           ● - Tech Menu (E42)         -         E42         ODU         Envelope protection error - Extremely low evaporating pressure           ● - Tech Menu (E43)         -         E43         ODU         Envelop		-			
● - Tech Menu (E12)         -         E12         ODU         HP Sensor Error (open/short circuit)           ● - Tech Menu (E15)         -         E15         ODU / VSD         VSD Communication Error           ● - Tech Menu (E18)         -         E18         ODU         Suction Temp Sensor is Open           ● - Tech Menu (E22)         -         E22         ODU         Ambient Sensor Failure (open/short circuit)           ● - Tech Menu (E26)         -         E26         VSD         Over Current           ● - Tech Menu (E27)         -         E27         VSD         Over Voltage           ● - Tech Menu (E27)         -         E27         VSD         Over Voltage           ● - Tech Menu (E28)         -         E28         VSD VSD Temperature High           ● - Tech Menu (E29)         -         E29         VSD Low Supply Voltage           ● - Tech Menu (E230)         -         E30         VSD Trip Lock           ● - Tech Menu (E41)         -         E41         VSD Dout Envelope protection error - Extremely low evaporating pressure           ● - Tech Menu (E42)         -         E42         ODU Envelope protection error - Extremely low evaporating pressure           ● - Tech Menu (E43)         -         E43         ODU Envelope protection error - High compersion ratio		-			
● - Tech Menu (E18)         -         E15         ODU / VSD         VSD Communication Error           ● - Tech Menu (E18)         -         E18         ODU         Suction Temp Sensor is Open           ● - Tech Menu (E22)         -         E22         ODU         Ambient Sensor Failure (open/short circuit)           ● - Tech Menu (E26)         -         E26         VSD         Over Current           ● - Tech Menu (E27)         -         E27         VSD         Over Voltage           ● - Tech Menu (E28)         -         E28         VSD         VSD Temperature High           ● - Tech Menu (E29)         -         E28         VSD         VSD Temperature High           ● - Tech Menu (E29)         -         E29         VSD         Low Supply Voltage           ● - Tech Menu (E30)         -         E23         VSD         Tip Lock           ● - Tech Menu (E41)         -         E41         VSD         DC Link Voltage Low           ● - Tech Menu (E42)         -         E42         ODU         Envelope protection error - Extremely low evaporating pressure           ● - Tech Menu (E44)         -         E44         ODU         Envelope protection error - High compression ratio           ● - Tech Menu (E45)         -         E44         ODU </td <td>· · ·</td> <td>-</td> <td></td> <td></td> <td></td>	· · ·	-			
● - Tech Menu (E18)         -         E18         ODU         Suction Temp Sensor is Open           ● - Tech Menu (E22)         -         E22         ODU         Ambient Sensor Failure (open/short circuit)           ● - Tech Menu (E26)         -         E26         VSD         Over Current           ● - Tech Menu (E27)         -         E27         VSD         Over Voltage           ● - Tech Menu (E28)         -         E28         VSD         VSD Temperature High           ● - Tech Menu (E30)         -         E30         VSD         Low Supply Voltage           ● - Tech Menu (E43)         -         E31         VSD         Trip Lock           ● - Tech Menu (E41)         -         E41         VSD         DC Link Voltage Low           ● - Tech Menu (E43)         -         E42         ODU         Envelope protection error - Extremely low evaporating pressure           • - Tech Menu (E43)         -         E43         ODU         Envelope protection error - High condensing pressure           • - Tech Menu (E44)         -         E44         ODU         Envelope protection error - High condensing pressure           • - Tech Menu (E50)         -         E50         ODU         Outdoor Board configuration error - Low compression ratio           • - Tech Menu (E50)	· · ·				
● - Tech Menu (E22)         -         E22         ODU         Ambient Sensor Failure (open/short circuit)           ● - Tech Menu (E26)         -         E26         VSD         Over Current           ● - Tech Menu (E27)         -         E27         VSD         Over Voltage           ● - Tech Menu (E28)         -         E28         VSD         VSD Temperature High           ● - Tech Menu (E30)         -         E29         VSD         Low Supply Voltage           ● - Tech Menu (E41)         -         E41         VSD         DC Link Voltage Low           ● - Tech Menu (E41)         -         E41         VSD         DC Link Voltage Low           ● - Tech Menu (E42)         -         E42         ODU         Envelope protection error - Extremely low evaporating pressure           ● - Tech Menu (E43)         -         E43         ODU         Envelope protection error - High compression ratio           ● - Tech Menu (E44)         -         E44         ODU         Envelope protection error - High condensing pressure           ● - Tech Menu (E45)         -         E45         ODU         Envelope protection error - High condensing pressure           ● - Tech Menu (E50)         -         E50         ODU         Outdoor Board configuration error - High condensing pressure	, ,	-			
● - Tech Menu (E26)         -         E26         VSD         Over Current           ● - Tech Menu (E27)         -         E27         VSD         Over Voltage           ● - Tech Menu (E28)         -         E28         VSD         VSD Temperature High           ● - Tech Menu (E30)         -         E29         VSD         Low Supply Voltage           ● - Tech Menu (E41)         -         E41         VSD         DC Link Voltage Low           ● - Tech Menu (E42)         -         E42         ODU         Envelope protection error - Extremely low evaporating pressure           ● - Tech Menu (E43)         -         E43         ODU         Envelope protection error - High compression ratio           ● - Tech Menu (E43)         -         E44         ODU         Envelope protection error - High compression ratio           ● - Tech Menu (E44)         -         E44         ODU         Envelope protection error - High compression ratio           ● - Tech Menu (E50)         -         E50         ODU         ODU doutdoor Board configuration error - Low compression ratio           ● - Tech Menu (E51)         -         E51         IDU / ODU         Communication error between outdoor and indoor units           ● - Tech Menu (E52)         -         E53         IDU / Zone Module         Communicatio	` ′	-			·
● - Tech Menu (E27)         -         E27         VSD         Over Voltage           ● - Tech Menu (E28)         -         E28         VSD         VSD Temperature High           ● - Tech Menu (E29)         -         E29         VSD         Low Supply Voltage           ● - Tech Menu (E30)         -         E30         VSD         Trip Lock           ● - Tech Menu (E41)         -         E41         VSD         DC Link Voltage Low           ● - Tech Menu (E42)         -         E42         ODU         Envelope protection error - Extremely low evaporating pressure           ● - Tech Menu (E43)         -         E43         ODU         Envelope protection error - High compression ratio           ● - Tech Menu (E44)         -         E44         ODU         Envelope protection error - High condensing pressure           ● - Tech Menu (E45)         -         E45         ODU         Envelope protection error - High condensing pressure           ● - Tech Menu (E45)         -         E44         ODU         Envelope protection error - Low compression ratio           ● - Tech Menu (E50)         -         E50         ODU         Outdoor Board configuration error           ● - Tech Menu (E50)         -         E51         IDU / Controller         Communication error between indoor and master cont					
● - Tech Menu (E28)         -         E28         VSD         VSD Temperature High           ● - Tech Menu (E29)         -         E29         VSD         Low Supply Voltage           ● - Tech Menu (E30)         -         E30         VSD         Trip Lock           ● - Tech Menu (E41)         -         E41         VSD         DC Link Voltage Low           ● - Tech Menu (E42)         -         E42         ODU         Envelope protection error - Extremely low evaporating pressure           ● - Tech Menu (E43)         -         E43         ODU         Envelope protection error - High compression ratio           ● - Tech Menu (E44)         -         E44         ODU         Envelope protection error - High condensing pressure           ● - Tech Menu (E45)         -         E45         ODU         Envelope protection error - High condensing pressure           ● - Tech Menu (E45)         -         E45         ODU         Envelope protection error - High condensing pressure           ● - Tech Menu (E50)         -         E55         ODU         Undoor Board configuration error         - Un compression ratio           ● - Tech Menu (E50)         -         E51         IDU / Controller         Communication error between outdoor and indoor units           ● - Tech Menu (E60)         -         E60					
● - Tech Menu (E29)         -         E29         VSD         Low Supply Voltage           ● - Tech Menu (E30)         -         E30         VSD         Trip Lock           ● - Tech Menu (E41)         -         E41         VSD         DC Link Voltage Low           ● - Tech Menu (E42)         -         E42         ODU         Envelope protection error - Extremely low evaporating pressure           ● - Tech Menu (E43)         -         E43         ODU         Envelope protection error - High condensing pressure           ● - Tech Menu (E44)         -         E44         ODU         Envelope protection error - High condensing pressure           ● - Tech Menu (E45)         -         E45         ODU         Envelope protection error - Low compression ratio           ● - Tech Menu (E50)         -         E50         ODU         Outdoor Board configuration error           ● - Tech Menu (E51)         -         E51         IDU / ODU         Communication error between outdoor and indoor units           ● - Tech Menu (E52)         -         E52         IDU / Zone Module         Communication error between indoor board and 8-zone module.           ● - Tech Menu (E60)         -         E60         VSD         Compressor Phase Over Current           ● - Tech Menu (E60)         -         E62         VSD <td>` ,</td> <td></td> <td></td> <td></td> <td><u> </u></td>	` ,				<u> </u>
● - Tech Menu (E30)         -         E30         VSD         Trip Lock           ● - Tech Menu (E41)         -         E41         VSD         DC Link Voltage Low           ● - Tech Menu (E42)         -         E42         ODU         Envelope protection error - Extremely low evaporating pressure           ● - Tech Menu (E43)         -         E43         ODU         Envelope protection error - High compression ratio           ● - Tech Menu (E44)         -         E44         ODU         Envelope protection error - High condensing pressure           ● - Tech Menu (E45)         -         E45         ODU         Envelope protection error - High condensing pressure           ● - Tech Menu (E50)         -         E45         ODU         Envelope protection error - Low compression ratio           ● - Tech Menu (E50)         -         E50         ODU         Outdoor Board configuration error           ● - Tech Menu (E51)         -         E51         IDU / ODU         Communication error between outdoor and indoor units           ● - Tech Menu (E52)         -         E52         IDU / Zone Module         Communication error between indoor board and 8-zone module.           ● - Tech Menu (E60)         -         E60         VSD         DC Bus Over Voltage           ● - Tech Menu (E63)         -         E62 </td <td></td> <td>-</td> <td></td> <td></td> <td>i s</td>		-			i s
● - Tech Menu (E41)       -       E41       VSD       DC Link Voltage Low         ● - Tech Menu (E42)       -       E42       ODU       Envelope protection error - Extremely low evaporating pressure         ● - Tech Menu (E43)       -       E43       ODU       Envelope protection error - High compression ratio         ● - Tech Menu (E44)       -       E44       ODU       Envelope protection error - High condensing pressure         ● - Tech Menu (E45)       -       E45       ODU       Envelope protection error - High condensing pressure         ● - Tech Menu (E50)       -       E50       ODU       Outdoor Board configuration error         ● - Tech Menu (E50)       -       E50       ODU       Communication error between outdoor and indoor units         ● - Tech Menu (E51)       -       E51       IDU / Ontroller       Communication error between indoor and master controller         ● - Tech Menu (E53)       -       E53       IDU / Zone Module       Communication error between indoor board and 8-zone module.         ● - Tech Menu (E60)       -       E60       VSD       Compressor Phase Over Current         ● - Tech Menu (E60)       -       E62       VSD       DC Bus Under Voltage         ● - Tech Menu (E63)       -       E63       VSD       DC Bus Under Voltage					
<ul> <li>Tech Menu (E42)</li> <li>E42</li> <li>ODU</li> <li>Envelope protection error - Extremely low evaporating pressure</li> <li>Tech Menu (E43)</li> <li>E43</li> <li>ODU</li> <li>Envelope protection error - High compression ratio</li> <li>Tech Menu (E44)</li> <li>E44</li> <li>ODU</li> <li>Envelope protection error - High condensing pressure</li> <li>Tech Menu (E45)</li> <li>E45</li> <li>ODU</li> <li>Envelope protection error - Low compression ratio</li> <li>Tech Menu (E50)</li> <li>E50</li> <li>ODU</li> <li>Outdoor Board configuration error</li> <li>Communication error between outdoor and indoor units</li> <li>Tech Menu (E52)</li> <li>E52</li> <li>IDU / DOU</li> <li>Communication error between indoor and master controller</li> <li>Communication error between indoor board and 8-zone module.</li> <li>Tech Menu (E60)</li> <li>E60</li> <li>VSD</li> <li>Compressor Phase Over Current</li> <li>Tech Menu (E60)</li> <li>E62</li> <li>VSD</li> <li>DC Bus Over Voltage</li> <li>Tech Menu (E66)</li> <li>E64</li> <li>VSD</li> <li>DC Bus Under Voltage</li> <li>Tech Menu (E66)</li> <li>E66</li> <li>VSD</li> <li>AC Voltage Imbalance</li> <li>Tech Menu (E67)</li> <li>E67</li> <li>VSD</li> <li>Inverter De-saturation</li> <li>Tech Menu (E69)</li> <li>E69</li> <li>VSD</li> <li>PFC-IGBT Over Temp</li> <li>Tech Menu (E70)</li> <li>E70</li> <li>VSD</li> <li>Motor Thermistor Fault</li> <li>Tech Menu (E71)</li> <li>E71</li> <li>VSD</li> <li>Motor Thermistor Fault</li> <li>Tech Alega (Relay Open)</li> </ul>	<u> </u>	-			
● - Tech Menu (E43)       -       E43       ODU       Envelope protection error - High compression ratio         ● - Tech Menu (E44)       -       E44       ODU       Envelope protection error - High condensing pressure         ● - Tech Menu (E45)       -       E45       ODU       Envelope protection error - Low compression ratio         ● - Tech Menu (E50)       -       E50       ODU       Outdoor Board configuration error         ● - Tech Menu (E51)       -       E51       IDU / ODU       Communication error between outdoor and indoor units         ● - Tech Menu (E52)       -       E52       IDU / Controller       Communication error between indoor and master controller         ● - Tech Menu (E53)       -       E53       IDU / Zone Module       Communication error between indoor board and 8-zone module.         ● - Tech Menu (E60)       -       E60       VSD       Compressor Phase Over Current         ● - Tech Menu (E60)       -       E62       VSD       DC Bus Over Voltage         ● - Tech Menu (E60)       -       E63       VSD       DC Bus Under Voltage         ● - Tech Menu (E66)       -       E66       VSD       AC Voltage Imbalance         ● - Tech Menu (E67)       -       E67       VSD       Inverter De-saturation         ● - Tech Menu (E70)<		-			-
<ul> <li>● - Tech Menu (E44)</li> <li>- E44</li> <li>ODU Envelope protection error - High condensing pressure</li> <li>● - Tech Menu (E45)</li> <li>- E45</li> <li>ODU Envelope protection error - Low compression ratio</li> <li>● - Tech Menu (E50)</li> <li>- E50</li> <li>ODU Outdoor Board configuration error</li> <li>● - Tech Menu (E51)</li> <li>- E51 IDU / ODU Communication error between outdoor and indoor units</li> <li>● - Tech Menu (E52)</li> <li>- E52 IDU / Controller</li> <li>- Communication error between indoor and master controller</li> <li>Communication error between indoor board and 8-zone module.</li> <li>● - Tech Menu (E60)</li> <li>- E60 VSD Compressor Phase Over Current</li> <li>● - Tech Menu (E62)</li> <li>- E62 VSD DC Bus Over Voltage</li> <li>● - Tech Menu (E63)</li> <li>- E63 VSD DC Bus Under Voltage</li> <li>● - Tech Menu (E66)</li> <li>- E66 VSD AC Voltage Imbalance</li> <li>● - Tech Menu (E67)</li> <li>- E67 VSD Inverter De-saturation</li> <li>● - Tech Menu (E69)</li> <li>- E69 VSD PFC-IGBT Over Temp</li> <li>● - Tech Menu (E70)</li> <li>- E70 VSD Lost Rotor Position</li> <li>● - Tech Menu (E71)</li> <li>- E71 VSD Motor Thermistor Fault</li> <li>● - Tech Menu (E72)</li> <li>- E72 VSD Pre-charged Relay Open</li> </ul>		-			
<ul> <li>⊕ - Tech Menu (E4S)</li> <li>⊕ - Tech Menu (E5O)</li> <li>⊕ - Tech Menu (E5O)</li> <li>⊕ - Tech Menu (E5I)</li> <li>⊕ - Tech Menu (E6O)</li> <li>⊕ - Tech Menu (E6O)</li> <li>⊕ - Tech Menu (E6O)</li> <li>⊕ - Tech Menu (E6I)</li> <li>⊕ - Tech Menu (E7I)</li> <li>⊕ - Tech Menu (E7I)</li></ul>		-			
<ul> <li>Tech Menu (ESO)</li> <li>ESO</li> <li>ODU</li> <li>Outdoor Board configuration error</li> <li>Tech Menu (ES1)</li> <li>ES1</li> <li>IDU / ODU</li> <li>Communication error between outdoor and indoor units</li> <li>Tech Menu (ES2)</li> <li>ES2</li> <li>IDU / Controller</li> <li>Tech Menu (ES3)</li> <li>ES3</li> <li>IDU / Zone Module</li> <li>Module</li> <li>Tech Menu (E60)</li> <li>E60</li> <li>VSD</li> <li>Compressor Phase Over Current</li> <li>Tech Menu (E62)</li> <li>E62</li> <li>VSD</li> <li>DC Bus Over Voltage</li> <li>Tech Menu (E63)</li> <li>E63</li> <li>VSD</li> <li>DC Bus Under Voltage</li> <li>Tech Menu (E66)</li> <li>E66</li> <li>VSD</li> <li>AC Voltage Imbalance</li> <li>Tech Menu (E67)</li> <li>E67</li> <li>VSD</li> <li>Inverter De-saturation</li> <li>Tech Menu (E70)</li> <li>E69</li> <li>VSD</li> <li>PFC-IGBT Over Temp</li> <li>Tech Menu (E70)</li> <li>E70</li> <li>VSD</li> <li>Lost Rotor Position</li> <li>Tech Menu (E71)</li> <li>E71</li> <li>VSD</li> <li>Motor Thermistor Fault</li> <li>Tech Menu (E72)</li> <li>E72</li> <li>VSD</li> <li>Pre-charged Relay Open</li> </ul>	` '	-			<del>                                     </del>
<ul> <li>● - Tech Menu (ES1)</li> <li>- E51 IDU / ODU Communication error between outdoor and indoor units</li> <li>● - Tech Menu (ES2)</li> <li>- E52 IDU / Controller</li> <li>- Tech Menu (ES3)</li> <li>- E53 IDU / Zone Module</li> <li>- Tech Menu (E60)</li> <li>- E60 VSD Compressor Phase Over Current</li> <li>- Tech Menu (E62)</li> <li>- E62 VSD DC Bus Over Voltage</li> <li>- Tech Menu (E63)</li> <li>- E63 VSD DC Bus Under Voltage</li> <li>- Tech Menu (E66)</li> <li>- E66 VSD AC Voltage Imbalance</li> <li>- Tech Menu (E67)</li> <li>- E67 VSD Inverter De-saturation</li> <li>- Tech Menu (E70)</li> <li>- E70 VSD Lost Rotor Position</li> <li>- Tech Menu (E71)</li> <li>- E71 VSD Motor Thermistor Fault</li> <li>- Tech Menu (E72)</li> <li>- E72 VSD Pre-charged Relay Open</li> </ul>					
<ul> <li>● - Tech Menu (E52)</li> <li>B52</li> <li>□ DU / Controller Communication error between indoor and master controller</li> <li>● - Tech Menu (E53)</li> <li>E53</li> <li>□ DU / Zone Module E53</li> <li>□ Communication error between indoor board and 8-zone module.</li> <li>● - Tech Menu (E60)</li> <li>□ E60</li> <li>□ VSD</li> <li>□ Compressor Phase Over Current</li> <li>□ Compressor Phase Over Current</li> <li>□ Compressor Phase Over Current</li> <li>□ DC Bus Over Voltage</li> <li>□ Tech Menu (E63)</li> <li>□ E63</li> <li>□ VSD</li> <li>□ DC Bus Under Voltage</li> <li>□ AC Voltage Imbalance</li> <li>□ Tech Menu (E67)</li> <li>□ E67</li> <li>□ VSD</li> <li>□ Inverter De-saturation</li> <li>□ Tech Menu (E69)</li> <li>□ E69</li> <li>□ VSD</li> <li>□ FC-IGBT Over Temp</li> <li>□ Tech Menu (E70)</li> <li>□ E70</li> <li>□ VSD</li> <li>□ Lost Rotor Position</li> <li>□ Tech Menu (E71)</li> <li>□ E71</li> <li>□ VSD</li> <li>□ Motor Thermistor Fault</li> <li>□ Tech Menu (E72)</li> <li>□ E72</li> <li>□ Pre-charged Relay Open</li> </ul>					
Controller Communication error between indoor and master controller  1 - Tech Menu (E53) - E53		-			
● - Tech Menu (E60)         -         E53         Module         module.           ● - Tech Menu (E60)         -         E60         VSD         Compressor Phase Over Current           ● - Tech Menu (E62)         -         E62         VSD         DC Bus Over Voltage           ● - Tech Menu (E63)         -         E63         VSD         DC Bus Under Voltage           ● - Tech Menu (E66)         -         E66         VSD         AC Voltage Imbalance           ● - Tech Menu (E67)         -         E67         VSD         Inverter De-saturation           ● - Tech Menu (E69)         -         E69         VSD         PFC-IGBT Over Temp           ● - Tech Menu (E70)         -         E70         VSD         Lost Rotor Position           ● - Tech Menu (E71)         -         E71         VSD         Motor Thermistor Fault           ● - Tech Menu (E72)         -         E72         VSD         Pre-charged Relay Open	• Tech Menu (E52)	-	E52		Communication error between indoor and master controller
● - Tech Menu (E62)         -         E62         VSD         DC Bus Over Voltage           ● - Tech Menu (E63)         -         E63         VSD         DC Bus Under Voltage           ● - Tech Menu (E66)         -         E66         VSD         AC Voltage Imbalance           ● - Tech Menu (E67)         -         E67         VSD         Inverter De-saturation           ● - Tech Menu (E69)         -         E69         VSD         PFC-IGBT Over Temp           ● - Tech Menu (E70)         -         E70         VSD         Lost Rotor Position           ● - Tech Menu (E71)         -         E71         VSD         Motor Thermistor Fault           ● - Tech Menu (E72)         -         E72         VSD         Pre-charged Relay Open	• Tech Menu (E53)	-	E53		
● - Tech Menu (E63)         -         E63         VSD         DC Bus Under Voltage           ● - Tech Menu (E66)         -         E66         VSD         AC Voltage Imbalance           ● - Tech Menu (E67)         -         E67         VSD         Inverter De-saturation           ● - Tech Menu (E69)         -         E69         VSD         PFC-IGBT Over Temp           ● - Tech Menu (E70)         -         E70         VSD         Lost Rotor Position           ● - Tech Menu (E71)         -         E71         VSD         Motor Thermistor Fault           ● - Tech Menu (E72)         -         E72         VSD         Pre-charged Relay Open	● - Tech Menu (E60)	-	E60	VSD	Compressor Phase Over Current
● - Tech Menu (E63)         -         E63         VSD         DC Bus Under Voltage           ● - Tech Menu (E66)         -         E66         VSD         AC Voltage Imbalance           ● - Tech Menu (E67)         -         E67         VSD         Inverter De-saturation           ● - Tech Menu (E69)         -         E69         VSD         PFC-IGBT Over Temp           ● - Tech Menu (E70)         -         E70         VSD         Lost Rotor Position           ● - Tech Menu (E71)         -         E71         VSD         Motor Thermistor Fault           ● - Tech Menu (E72)         -         E72         VSD         Pre-charged Relay Open		-	E62	VSD	
● - Tech Menu (E66)         -         E66         VSD         AC Voltage Imbalance           ● - Tech Menu (E67)         -         E67         VSD         Inverter De-saturation           ● - Tech Menu (E69)         -         E69         VSD         PFC-IGBT Over Temp           ● - Tech Menu (E70)         -         E70         VSD         Lost Rotor Position           ● - Tech Menu (E71)         -         E71         VSD         Motor Thermistor Fault           ● - Tech Menu (E72)         -         E72         VSD         Pre-charged Relay Open	` '	_			
① - Tech Menu (E67)         -         E67         VSD         Inverter De-saturation           ① - Tech Menu (E69)         -         E69         VSD         PFC-IGBT Over Temp           ① - Tech Menu (E70)         -         E70         VSD         Lost Rotor Position           ① - Tech Menu (E71)         -         E71         VSD         Motor Thermistor Fault           ④ - Tech Menu (E72)         -         E72         VSD         Pre-charged Relay Open		•			
• - Tech Menu (E69)         -         E69         VSD         PFC-IGBT Over Temp           • - Tech Menu (E70)         -         E70         VSD         Lost Rotor Position           • - Tech Menu (E71)         -         E71         VSD         Motor Thermistor Fault           • - Tech Menu (E72)         -         E72         VSD         Pre-charged Relay Open		-			
• - Tech Menu (E70)         -         E70         VSD         Lost Rotor Position           • - Tech Menu (E71)         -         E71         VSD         Motor Thermistor Fault           • - Tech Menu (E72)         -         E72         VSD         Pre-charged Relay Open		-			
• - Tech Menu (E71)         -         E71         VSD         Motor Thermistor Fault           • - Tech Menu (E72)         -         E72         VSD         Pre-charged Relay Open		-	E69	VSD	
● - Tech Menu (E72) - E72 VSD Pre-charged Relay Open	<b>●</b> - Tech Menu (E70)	-	E70	VSD	Lost Rotor Position
● - Tech Menu (E72) - E72 VSD Pre-charged Relay Open	• Tech Menu (E71)	-	E71	VSD	Motor Thermistor Fault
		-	E72	VSD	Pre-charged Relay Open
• Tech Menu (E74) - E74 VSD Compressor Phase Over Current	• Tech Menu (E74)	-			Compressor Phase Over Current

## Three Phase Platinum

QT*-1000, Master Controller (Main Screen)	ZT*-100 Zone Controller	Outdoor Unit CPU	Category	FUNCTION / FAULT
• Tech Menu (E75)	-	E75	VSD	Compressor Phase Current Fold Back Timeout
• Tech Menu (E76)	-	E76	VSD	Power Module Temp. Fold Back Timeout
• Tech Menu (E77)	-	E77	VSD	AC Input Current Fold Back Timeout
• Tech Menu (E78)	-	E78	VSD	Auto Config Communication Timeout
<b>9</b> - Tech Menu (E80)	-	E80	VSD	Motor Temp High
• Tech Menu (E81)	-	E81	VSD	Board Temp High
<b>●</b> - Tech Menu (E82)	-	E82	VSD	Power Module Temp High
● - Tech Menu (E83)	-	E83	VSD	PFC-IGBT Temp High
<b>9</b> - Tech Menu (E84)	-	E84	VSD	DSP to PFC Communication Lost
● - Tech Menu (E85)	-	E85	VSD	Comms to DSP Communication Lost
<b>9</b> - Tech Menu (E86)	-	E86	VSD	Compressor Phase Current Imbalance
🛮 - Tech Menu (E87)	-	E87	VSD	3 Phase PFC Current Imbalance
<b>9</b> - Tech Menu (E88)	-	E88	VSD	Micro Electronic Fault or Drive EEPROM Fault
<b>9</b> - Tech Menu (E89)	-	E89	VSD	Motor Over speed
<b>9</b> - Tech Menu (E90)	-	E90	VSD	Compressor Model Configuration Error
• Tech Menu (E91)	-	E91	VSD	Inverter Temp Imbalance
<b>9</b> - Tech Menu (E92)	-	E92	VSD	PFC Temp Imbalance
• Tech Menu (E93)	-	E93	VSD	Motor Temp Low
<b>9</b> - Tech Menu (E94)	-	E94	VSD	Board Temp Low
• Tech Menu (E95)	-	E95	VSD	Power Module Temp Low or Sensor Open fault
<b>9</b> - Tech Menu (E96)	-	E96	VSD	PFC-IGBT Temp Low
<b>9</b> - Tech Menu (E97)	-	E97	VSD	Comms ADC Failure

**PFC**: Power Factor Correction **IGBT**: Insulated-Gate Bipolar Transistor

**DSP**: Digital Signal Processor **ADC**: Analog to Digital Converter





That's better. That's Actron.

actronair.com.au 1300 522 722