

SERVICE SUPPORT HANDBOOK

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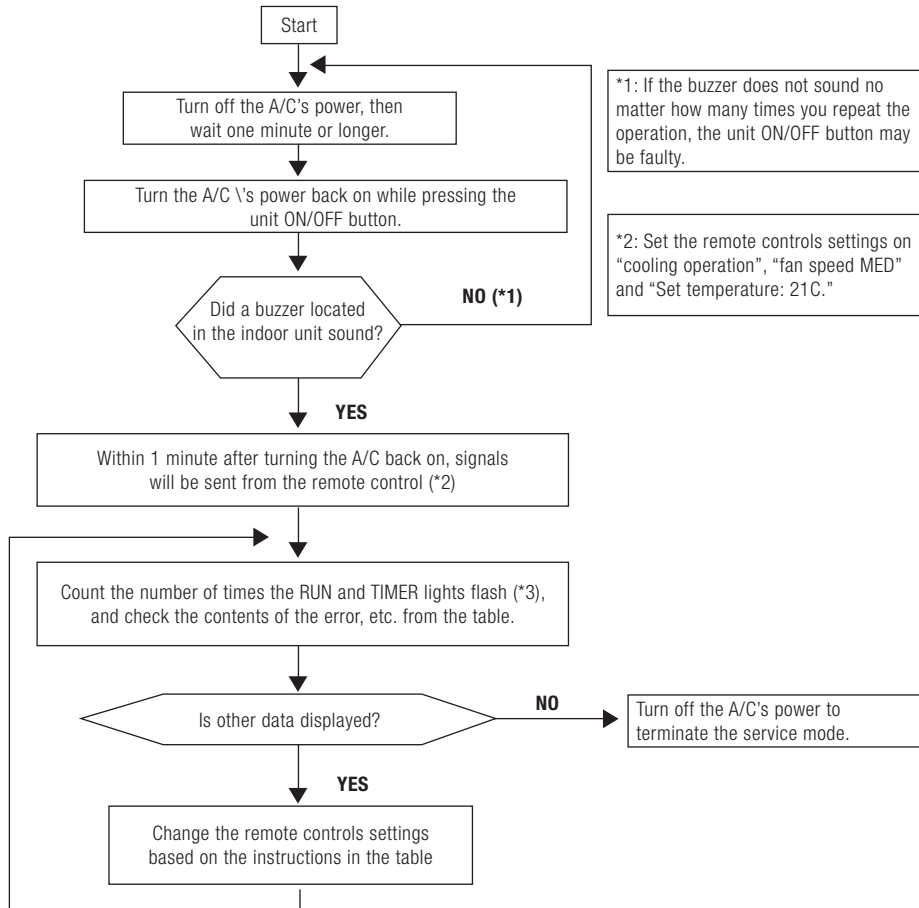
| TYPE | PRE CHARGED LENGTH | MAX LENGTH | VERTICAL PIPE LENGTH | | ADDITIONAL CHARGE | PIPE SIZE |
|-----------|--------------------|------------|----------------------|-----------|-------------------|-----------|
| | | | O/D ABOVE | I/D ABOVE | | |
| SRC10CHV | (R22) 7.5m | 15m | 5m | 5m | 10g/m | 1/4 & 3/8 |
| SRC20ZG | 15m | 15m | 10m | 10m | N/A | 1/4 & 3/8 |
| SRC25ZG | 15m | 15m | 10m | 10m | N/A | 1/4 & 3/8 |
| SRC35ZG | 15m | 15m | 10m | 10m | N/A | 1/4 & 3/8 |
| SRC20ZIX | 15m | 15m | 10m | 10m | N/A | 1/4 & 3/8 |
| SRC25ZIX | 15m | 15m | 10m | 10m | N/A | 1/4 & 3/8 |
| SRC35ZIX | 15m | 15m | 10m | 10m | N/A | 1/4 & 3/8 |
| SRC40ZIX | 15m | 30m | 20m | 20m | 20g/m | 1/4 & 1/2 |
| SRC50ZIX | 15m | 30m | 20m | 20m | 20g/m | 1/4 & 1/2 |
| SRC60ZIX | 15m | 30m | 20m | 20m | 20g/m | 1/4 & 1/2 |
| SRC40ZHX | 15m | 30m | 20m | 20m | 20g/m | 1/4 & 1/2 |
| SRC50ZHX | 15m | 30m | 20m | 20m | 20g/m | 1/4 & 1/2 |
| SRC60ZHX | 15m | 30m | 20m | 20m | 20g/m | 1/4 & 1/2 |
| SRC63ZE | 15m | 30m | 20m | 20m | 25g/m | 1/4 & 5/8 |
| SRC71ZE | 15m | 30m | 20m | 20m | 25g/m | 1/4 & 5/8 |
| SRC80ZE | 15m | 30m | 20m | 20m | 25g/m | 1/4 & 5/8 |
| SCM40ZG | 30m | 30m | 15m | 15m | N/A | 1/4 & 3/8 |
| SCM45ZG | 20m | 30m | 15m | 15m | 20g/m | 1/4 & 3/8 |
| SCM48ZG | 40m | 40m | 15m | 15m | N/A | 1/4 & 3/8 |
| SCM60ZG | 30m | 40m | 15m | 15m | 20g/m | 1/4 & 3/8 |
| SCM80ZG | 40m | 70m | 20m | 20m | 20g/m | 1/4 & 3/8 |
| FDCVA151 | 30m | 40m | 30m | 15m | 20g/m | 1/4 & 1/2 |
| FDCVA201 | 30m | 40m | 30m | 15m | 20g/m | 1/4 & 1/2 |
| FDCVA251 | 30m | 40m | 30m | 15m | 20g/m | 1/4 & 5/8 |
| FDCVA302 | 30m | 50m | 30m | 15m | 60g/m | 3/8 & 5/8 |
| FDCVA402 | 30m | 50m | 30m | 15m | 60g/m | 3/8 & 5/8 |
| FDCVA502 | 30m | 50m | 30m | 15m | 60g/m | 3/8 & 5/8 |
| FDCVA602 | 30m | 50m | 30m | 15m | 60g/m | 3/8 & 5/8 |
| FDCVA802 | 30m | 70m | 30m | 15m | 60g/m | 3/8 & 1" |
| FDCVA1002 | 30m | 70m | 30m | 15m | 120g/m | 1/2 & 1" |
| FDC71VN | 30m | 50m | 30m | 15m | 60g/m | 3/8 & 5/8 |
| FDC100VN | 30m | 50m | 30m | 15m | 60g/m | 3/8 & 5/8 |
| FDC125VN | 30m | 50m | 30m | 15m | 60g/m | 3/8 & 5/8 |
| FDC140VN | 30m | 50m | 30m | 15m | 60g/m | 3/8 & 5/8 |

| PRESSURE / TEMPERATURE CHART | | | | | |
|------------------------------|----------------|-------|------|----------------|-------|
| °C | R410A (VAPOUR) | | °C | R410A (VAPOUR) | |
| | KPA | PSI | | KPA | PSI |
| -50.0 | 10.6 | 1.5 | 6.0 | 859.8 | 124.7 |
| -48.0 | 21.9 | 3.2 | 8.0 | 922.8 | 133.8 |
| -46.0 | 34.3 | 5.0 | 10.0 | 985.4 | 142.9 |
| -44.0 | 47.5 | 6.9 | 12.0 | 1050.9 | 152.4 |
| -42.0 | 61.8 | 9.0 | 14.0 | 1119.2 | 162.3 |
| -40.0 | 77.1 | 11.2 | 16.0 | 1190.7 | 172.7 |
| -38.0 | 93.5 | 13.6 | 18.0 | 1265.2 | 183.5 |
| -36.0 | 111.1 | 16.1 | 20.0 | 1342.9 | 194.8 |
| -34.0 | 139.9 | 20.3 | 22.0 | 1423.9 | 206.5 |
| -32.0 | 149.9 | 21.7 | 24.0 | 1502.3 | 217.9 |
| -30.0 | 171.5 | 24.9 | 26.0 | 1589.8 | 230.6 |
| -28.0 | 194.3 | 28.2 | 28.0 | 1680.8 | 243.8 |
| -26.0 | 218.6 | 31.7 | 30.0 | 1775.5 | 257.5 |
| -24.0 | 244.4 | 35.4 | 32.0 | 1873.9 | 271.8 |
| -22.0 | 271.7 | 39.4 | 34.0 | 1976.2 | 286.6 |
| -20.0 | 300.8 | 43.6 | 36.0 | 2082.4 | 302.0 |
| -18.0 | 331.5 | 48.1 | 38.0 | 2192.7 | 318.0 |
| -16.0 | 363.9 | 52.8 | 40.0 | 2307.1 | 334.6 |
| -14.0 | 398.4 | 57.8 | 42.0 | 2425.7 | 351.8 |
| -12.0 | 434.7 | 63.1 | 44.0 | 2548.7 | 369.7 |
| -10.0 | 472.9 | 68.6 | 46.0 | 2676.1 | 388.1 |
| -8.0 | 513.3 | 74.4 | 48.0 | 2808.1 | 407.3 |
| -6.0 | 555.8 | 80.6 | 50.0 | 2944.8 | 427.1 |
| -4.0 | 600.5 | 87.1 | 52.0 | 3086.3 | 447.6 |
| -2.0 | 647.5 | 93.9 | 54.0 | 3232.7 | 468.9 |
| 0.0 | 696.8 | 101.1 | 56.0 | 3384.1 | 490.8 |
| 2.0 | 748.6 | 108.6 | 58.0 | 3540.7 | 513.5 |
| 4.0 | 802.9 | 116.5 | 60.0 | 3702.5 | 537.0 |

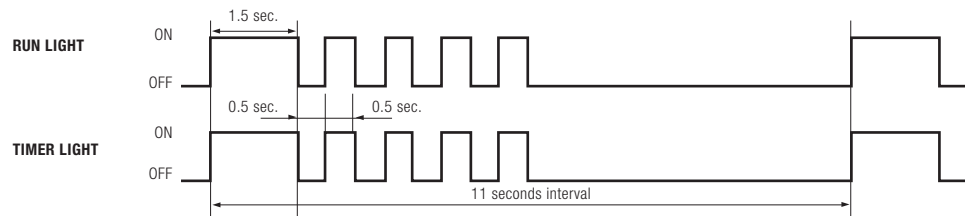
| INVERTER RAC (SRK SERIES) BASIC ERROR CODES | | | | |
|---|----------|-----------|---|---|
| INDOOR DISPLAY | | WIRED R/C | FAULT | CAUSE |
| RUN | TIMER | | | |
| ON | 1 | E42 | Current Cut | Compressor locking, open phase on compressor output, short circuit on power transistor, closed service valve, EEV not opening |
| ON | 2 | E59 | Trouble of outdoor unit | Broken compressor wire, broken power transistor, broken discharge sensor wire/poor connection, compressor blockage |
| ON | 3 | E58 | Current safe stop | Overload protection, over charged, compressor locking |
| ON | 4 | E51 | Power Transistor error | Faulty power transistor |
| ON | 5 | E36 | Over heat of compressor | Low on gas, faulty discharge pipe sensor, closed service valve |
| ON | 6 | E3, E5 | Error of signal transmission | Defective power supply, broken signal wire, faulty indoor/outdoor P.C.B. |
| ON | 7 | E48 | Faulty outdoor fan motor | Faulty condenser fan motor, poor connection |
| ON | Flashing | E35 | Cooling High Pressure Protection | Overload protection, over charged, broken outdoor heat exchanger sensor wire, closed service valve |
| 1 | ON | - | Heat exchanger sensor error | Broken heat exchanger sensor wire, poor connection |
| 2 | ON | E7 | Room temperature sensor | Broken room temperature sensor wire, poor connection |
| 3 | ON | - | Heat exchanger sensor 3 error (ZXH ZIX) | Broken heat exchanger sensor 3 wire, poor connection |
| 5 | ON | E47 | Active Filter voltage error | Defective Active Filter, incorrect power supply |
| 6 | ON | E16 | Indoor fan motor error | Fault indoor fan motor, poor connection |
| Flashing | 1 | E38 | Outdoor air temperature sensor | Broken sensor wire, poor connection |
| Flashing | 2 | E37 | Outdoor heat exchanger sensor | Broken sensor wire, poor connection |
| Flashing | 4 | E39 | Discharge pipe sensor | Broken sensor wire, poor connection |
| 2 | 2 | E60 | Rotor lock | Faulty compressor, open phase on compressor, faulty outdoor P.C.B. |
| | | E1 | Error of wired remote | Broken wire, faulty indoor P.C.B., faulty controller. |

| INVERTER RAC MULTI (SCM SERIES) BASIC ERROR CODES | | | | | |
|---|-------|--------------|-----------|--|--|
| INDOOR DISPLAY | | O/D LED | WIRED R/C | FAULT | CAUSE |
| RUN | TIMER | | | | |
| ON | 1 | 1 | E42 | Current Cut | Compressor locking, open phase on compressor out put, short circuit on power transistor, closed service valve |
| ON | 2 | 2 | E59 | Trouble of outdoor unit | Broken compressor wire, broken power transistor, broken discharge sensor wire or poor connection, compressor block age |
| ON | 3 | 3 | E58 | Current safe stop | Overload protection, over charged, compressor locking |
| ON | 4 | 4 | E41 | Power transistor error | Broken power transistor |
| ON | 5 | 5 | E36 | Over heat of compressor | Low on gas, faulty discharge pipe sensor, closed service valve |
| ON | 6 | 6 | E5 | Error or signal transmission | Defective power supply, broken signal wire, faulty indoor/outdoor P.C.B. |
| ON | 7 | ON | E48 | Faulty outdoor fan motor | Faulty condenser fan motor, poor connection |
| 1 | ON | OFF | E6 | Indoor heat exchanger sensor (1) error | Broken heat exchanger sensor (1) wire, poor connection |
| 2 | ON | OFF | E7 | Room temperature sensor | Broken room temperature sensor wire, poor connection |
| 4 | ON | OFF | E9 | Drain error | Blocked drain, faulty float switch, faulty drain pump |
| 5 | ON | OFF | E6 | Indoor heat exchanger sensor (2) error | Broken heat exchanger sensor (2) wire, poor connection |
| 6 | ON | OFF | E16 | Indoor fan motor error | Fault indoor fan motor, poor connection |
| 7 | ON | OFF | E6 | Closed service valve, indoor heat exchanger sensor (1) | Closed service valve, indoor heat exchanger disconnected or open circuit |
| Flashing | 1 | Flashing | E38 | Outdoor air temperature sensor | Broken sensor wire, poor connection |
| Flashing | 2 | Flashing | E37 | Outdoor heat exchanger sensor | Broken sensor wire, poor connection |
| Flashing | 4 | 4 sec on/off | E39 | Discharge pipe sensor | Broken sensor wire, poor connection |
| Flashing | 5 | Flashing | E53 | Compressor suction sensor | Broken sensor wire, poor connection |
| Flashing | 6 | Flashing | E41 | Power transistor sensor error | Broken sensor wire, poor connection |
| 2 | 2 | 7 | E60 | Rotor lock | Faulty compressor, open phase on compressor, faulty outdoor P.C.B. |
| | | | E1 | Error of wired remote | Broken wire, faulty indoor P.C.B., faulty controller. |

INVERTER RAC SRK SERVICE MODE (R410A models only)



(*3) To Count the number of flashes in the service mode, count the number of flashes after the light lights up for 1.5 sec initially (start signal). Do not count start signal.

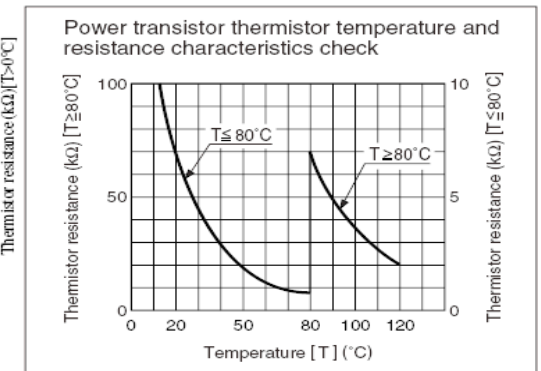
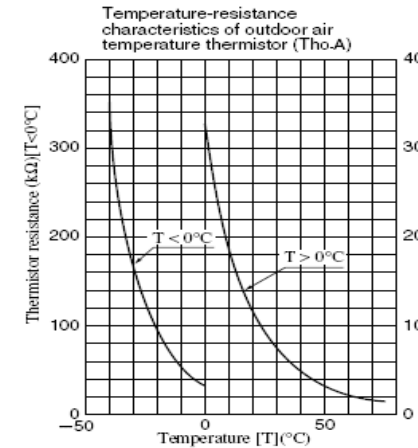
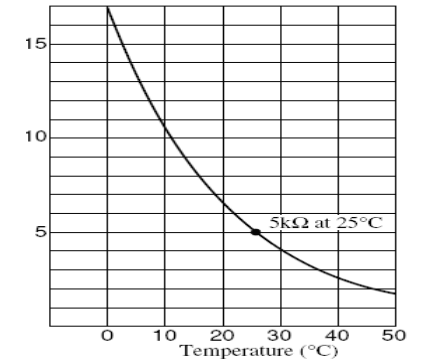


Thermistor Resistances

◆ Discharge pipe sensor temperature characteristics

| Temperature (°C) | Resistance (kΩ) | Temperature (°C) | Resistance (kΩ) |
|------------------|-----------------|------------------|-----------------|
| 0 | 164 | 70 | 8.7 |
| 5 | 127 | 75 | 7.3 |
| 10 | 99 | 80 | 6.2 |
| 15 | 78 | 85 | 5.3 |
| 20 | 62 | 90 | 4.5 |
| 25 | 50 | 95 | 3.9 |
| 30 | 40 | 100 | 3.3 |
| 35 | 32 | 105 | 2.9 |
| 40 | 26 | 110 | 2.5 |
| 45 | 21 | 115 | 2.2 |
| 50 | 17 | 120 | 1.9 |
| 55 | 14 | 125 | 1.6 |
| 60 | 12 | 130 | 1.4 |
| 65 | 10 | 135 | 1.3 |

Return air thermistor (Th-A)
Indoor unit heat exchanger thermistor (Thi-R1, R2)
Resistance temperature characteristics



Resistance-temperature characteristic of remote controller thermister

| Temperature(°C) | Resistance value (kΩ) | Temperature(°C) | Resistance value (kΩ) | Temperature(°C) | Resistance value (kΩ) | Temperature(°C) | Resistance value (kΩ) |
|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|
| 0 | 65 | 14 | 33 | 30 | 16 | 46 | 8.5 |
| 1 | 62 | 16 | 30 | 32 | 15 | 48 | 7.8 |
| 2 | 59 | 18 | 27 | 34 | 14 | 50 | 7.3 |
| 4 | 53 | 20 | 25 | 36 | 13 | 52 | 6.7 |
| 6 | 48 | 22 | 23 | 38 | 12 | 54 | 6.3 |
| 8 | 44 | 24 | 21 | 40 | 11 | 56 | 5.8 |
| 10 | 40 | 26 | 19 | 42 | 9.9 | 58 | 5.4 |
| 12 | 36 | 28 | 18 | 44 | 9.2 | 60 | 5.0 |

| Customer | | | Indoor Model No | | | | | |
|-------------------------|-----------|-----------|---|--|--|------------------|-------------------|-----------------|
| Date of investigation | | | Indoor Serial No | | | | | |
| Customers Complaint | | | Outdoor Model No | | | | | |
| | | | Outdoor Serial No | | | | | |
| Remote control settings | | | Content of displayed data | | | Display results | | Display content |
| Temperature | Operation | Fan Speed | | | | Buzzer (Yes/No.) | RUN Light (Times) | |
| 21 | Cooling | MED | Error code on previous occasion. | | | | | |
| | | HI | Room temperature sensor temperature on previous occasion. | | | | | |
| | | AUTO | Indoor heat exchanger sensor 1 temperature on previous occasion. | | | | | |
| | Heating | LO | Remote control information on previous occasion. | | | | | |
| | | MED | Outdoor air temperature sensor temperature on previous occasion. | | | | | |
| | | HI | Outdoor heat exchanger sensor temperature on previous occasion. | | | | | |
| 26 | Cooling | AUTO | Discharge pipe sensor temperature on previous occasion. | | | | | |
| 22 | Cooling | AUTO | Indoor heat exchanger sensor 3 temperature on previous occasion. | | | | | |
| | | MED | Error code on second previous occasion. | | | | | |
| | | HI | Room temperature sensor temperature on second previous occasion. | | | | | |
| | Heating | AUTO | Indoor heat exchanger sensor 1 temperature on second previous occasion. | | | | | |
| | | LO | Remote control information on second previous occasion. | | | | | |
| | | MED | Outdoor air temperature sensor temperature on second previous occasion. | | | | | |
| 27 | Cooling | HI | Outdoor heat exchanger sensor temperature on second previous occasion. | | | | | |
| | | AUTO | Discharge pipe sensor temperature on second previous occasion. | | | | | |
| 23 | Cooling | AUTO | Indoor heat exchanger sensor 3 temperature on second occasion. | | | | | |
| | | MED | Error code on third previous occasion. | | | | | |
| | | HI | Room temperature sensor temperature on third previous occasion. | | | | | |
| | Heating | AUTO | Indoor heat exchanger sensor 1 temperature on third previous occasion. | | | | | |
| | | LO | Remote control information on third previous occasion. | | | | | |
| | | MED | Outdoor air temperature sensor temperature on third previous occasion. | | | | | |
| 28 | Cooling | HI | Outdoor heat exchanger sensor temperature on third previous occasion. | | | | | |
| | | AUTO | Discharge pipe sensor temperature on third previous occasion. | | | | | |
| 24 | Cooling | AUTO | Indoor heat exchanger sensor 3 temperature on third occasion. | | | | | |
| | | MED | Error code on fourth previous occasion. | | | | | |
| | | HI | Room temperature sensor temperature on fourth previous occasion. | | | | | |
| | Heating | AUTO | Indoor heat exchanger sensor 1 temperature on fourth previous occasion. | | | | | |
| | | LO | Remote control information on fourth previous occasion. | | | | | |
| | | MED | Outdoor air temperature sensor temperature on fourth previous occasion. | | | | | |
| 29 | Cooling | HI | Outdoor heat exchanger sensor temperature on fourth previous occasion. | | | | | |
| | | AUTO | Discharge pipe sensor temperature on fourth previous occasion. | | | | | |
| 25 | Cooling | AUTO | Indoor heat exchanger sensor 3 temperature on fourth occasion. | | | | | |
| | | MED | Error code on fifth previous occasion. | | | | | |
| | | HI | Room temperature sensor temperature on fifth previous occasion. | | | | | |
| | Heating | AUTO | Indoor heat exchanger sensor 1 temperature on fifth previous occasion. | | | | | |
| | | LO | Remote control information on fifth previous occasion. | | | | | |
| | | MED | Outdoor air temperature sensor temperature on fifth previous occasion. | | | | | |
| 30 | Cooling | HI | Outdoor heat exchanger sensor temperature on fifth previous occasion. | | | | | |
| | | AUTO | Discharge pipe sensor temperature on fifth previous occasion. | | | | | |
| 21 | Cooling | LO | Indoor heat exchanger sensor 3 temperature on fifth occasion. | | | | | |
| 22 | | | Stop code on previous occasion. | | | | | |
| 23 | | | Stop code on second previous occasion. | | | | | |
| 24 | | | Stop code on third previous occasion. | | | | | |
| 25 | | | Stop code on fourth previous occasion. | | | | | |
| 26 | | | Stop code on fifth previous occasion. | | | | | |
| 27 | | | Stop code on sixth previous occasion. | | | | | |
| 28 | | | Stop code on seventh previous occasion. | | | | | |
| 29 | | | Stop code on eighth previous occasion. | | | | | |
| 30 | | | Stop code on ninth previous occasion. | | | | | |
| Judgment | | | | | | | | |
| Remarks | | | | | | | | |

| Error & Stop code table | | | | | | |
|-------------------------------------|--------------|--------------------|-------------------------|--|--|---|
| SRK**ZD, SRK**ZE, SRK**ZG, SRK**ZGX | | | | | | |
| Flashes in service mode | | Stop or Error code | Error content | | Cause | Occurrence conditions |
| Run | Timer | | Major Category | Minor Category | | |
| 1 time flash | 1 time flash | 11 | Current Cut | Comp software start | Comp Lock, Wiring short, Comp output is open phase, Outdoor PCB faulty | Compressor start fails 42 times in succession and the final failure is current cut. |
| | 2 time flash | 12 | | Lower than 20 rps | Service valve closed, Compressor output open phase, EEV faulty | After the compressor starts, it stops due to current cut at less than 20 rps |
| | 3 time flash | 13 | | 20 rps or higher | Service valve closed, Compressor output open phase, EEV faulty | When operation is stopped by current cut at 20 rps or higher. |
| | 4 time flash | 14 | | Excessive voltage (DC 350V) | Outdoor PCB faulty, Power supply abnormal | When the DC voltage (DC 280V) exceeds 350V |
| | 5 time flash | 15 | | Short circuit in power transistor (high side) | Outdoor PCB faulty, power transistor damaged | When it is judged that the power transistor was damaged at the time the compressor started |
| | 6 time flash | 16 | | Current cut circuit breakdown | Outdoor PCB faulty, power transistor damaged | |
| 2 time flash | 1 time flash | 21 | Outdoor unit error | PWM calculation results are abnormal | Compressor wires are disconnected, Power transistor is damaged | When PWM calculation results are 0% continued for 3 minutes or longer |
| | 2 time flash | 22 | | Input is 2A or lower (PWM 90% or higher) | Compressor wires are disconnected, outdoor PCB is faulty | When PWM calculation results of 90% and an input current lower than the set valve continue for 3 minutes or longer |
| | 3 time flash | 23 | | Abnormal stop 3 times in 20 minutes | Service valve is closed. Compressor output is open phase. Electronic expansion valve is faulty . Low on gas. | When an abnormal stop occurs 3 times with automatic recovery within 20 minutes after the outdoor unit's power supply was turned on. |
| | 9 time flash | 29 | | Voltage drop | Power supply is faulty. Outdoor PCB is faulty | When the power supply voltage drops during operation. |
| | 7 time flash | 27 | Outdoor fan motor error | Outdoor unit's fan motor is abnormal (DC motor only) | Outdoor fan motor faulty. Poor connection. Faulty outdoor PCB | When a fan speed of 75rpm or lower continues for 30 seconds or longer. |
| | | | | | | |
| 3 time flash | 1 time flash | 31 | Current Safe | Cooling current safe 1 | | When there is a current safe stop in current safe mode 1 mode during cooling operation |
| | 2 time flash | 32 | | Heating current safe 1 | | When there is a current safe stop in current safe mode 1 mode during heating operation |
| | 3 time flash | 33 | | Cooling current safe 2 | Overcharge. Compressor lock | When there is a current safe stop in current safe mode 2 mode during cooling operation |
| | 4 time flash | 34 | | Heating current safe 2 | | When there is a current safe stop in current safe mode 2 mode during heating operation |

| Error & Stop code table | | | | | | |
|-------------------------------------|--------------|--------------------|---------------------------|---|---|---|
| SRK**ZD, SRK**ZE, SRK**ZG, SRK**ZGX | | | | | | |
| Flashes in service mode | | Stop or Error code | Error content | | Cause | Occurrence conditions |
| Run | Timer | | Major Category | Minor Category | | |
| 3 time flash | 5 time flash | 35 | Current Safe | Cooling current safe 3 | | When there is a current safe stop in current safe mode 3 mode during cooling operation |
| | 6 time flash | 36 | | Heating current safe 3 | Overcharge. Compressor lock | When there is a current safe stop in current safe mode 3 mode during heating operation |
| | 7 time flash | 37 | | Heating current safe 3 + 3A | | When there is a current safe stop in current safe mode 3 + 3A mode during heating operation |
| 4 time flash | 1 time flash | 41 | Current Safe | Cooling overload 1 (outdoor temp 36~40°C) | | When there is a current safe stop in overload 1 mode during cooling operation |
| | 2 time flash | 42 | | Heating overload 1 (outdoor temp 5~12°C) | Overcharge. Compressor lock. Overload operation | When there is a current safe stop in overload 1 mode during heating operation |
| | 3 time flash | 43 | | Cooling overload 2 (outdoor temp 40~45°C) | | When there is a current safe stop in overload 2 mode during cooling operation |
| | 4 time flash | 44 | | Heating overload 2 (outdoor temp 12~17°C) | | When there is a current safe stop in overload 2 mode during heating operation |
| | 5 time flash | 45 | | Cooling overload 3 (outdoor temp 45°C~) | | When there is a current safe stop in overload 3 mode during cooling operation |
| | 6 time flash | 46 | | Heating overload 3 (outdoor temp 17°C~) | | When there is a current safe stop in overload 3 mode during heating operation |
| 5 time flash | OFF | 50 | Comp overheat | 110°C | Service valve closed. Low on gas. Discharge pipe sensor is faulty | When the discharge pipe's sensor exceeds the set value |
| | 1 time flash | 51 | Power transistor overheat | 110°C | Cooling problem | When power transistor temp exceeds setting value (compressor stops). |
| 6 time flash | OFF | 60 | Serial signal error | Signal not received for 1 min & 55 sec | Power supply faulty. Incorrect wiring. Indoor/ outdoor PCB faulty | When 1 min 55sec passes without communication from either the outdoor or indoor being detected correctly |
| | 1 time flash | 61 | | Faulty interconnect wiring | Connections between indoor and outdoor are faulty. Faulty indoor/ outdoor PCB | When 10 sec passes after the power is on without communication signals from the indoor/ outdoor unit being detected correctly |
| | 2 time flash | 62 | | Serial transmission error | Indoor/ outdoor PCB faulty. Noise causing faulty operation | When 1 min 50 sec passes without communication signals from either indoor or outdoor unit being detected correctly |

| Error & Stop code table | | | | | | |
|------------------------------------|--------------|--------------------|------------------------------|---|--|---|
| SRK**ZD, SRK**ZE, SRK**ZG, SRK**ZX | | | | | | |
| Flashes in service mode | | Stop or Error code | Error content | | Occurrence conditions | |
| Run | Timer | | Major Category | Minor Category | | Cause |
| 7 time flash | 1 time flash | 71 | Rotor lock | Less than 16 rps | Compressor faulty. Compressor output is open phase. EEV is faulty. Overload operation. Outdoor unit PCB is faulty. | |
| | 2 time flash | 72 | | 16 rps or higher | When the comp stops at 16rps or higher due to rotor lock | |
| | 3 time flash | 73 | | Phase switching defects (U phase) Phase switching defects (V phase) Phase switching defects (W phase or cant distinguish) Comp software start (within 4 sec after phase switching) | Compressor is faulty. Compressor wiring is faulty. Outdoor unit PCB is faulty | When compressor start fails 42 times in succession and the reason for the final failure is rotor lock. |
| | 4 time flash | 74 | | | | |
| | 5 time flash | 75 | | | | |
| | 6 time flash | 76 | | | | |
| 8 time flash | OFF | 80 | Protective control operation | Indoor unit fan motor is abnormal | Faulty connection. Faulty fan motor. Indoor PCB faulty | |
| | 1 time flash | 81 | | Discharge pipe sensor is abnormal (anomalous stop) | Senor wire disconnected faulty connection | When a disconnected signal (temp below 7°C) is sent for 15 sec or longer as the sensor data after the comp speed is Orps or higher cont. for 9 min. |
| | 2 time flash | 82 | | Indoor heat exchanger sensor is abnormal (anomalous stop) | Senor wire disconnected faulty connection | When a temperature of -20°C or lower is sensed cont. for 40 min during heating operation. (Compressor stops) |
| | 3 time flash | 83 | | Outdoor heat exchanger sensor is abnormal (anomalous stop) | Senor wire disconnected faulty connection | When a temperature or -50°C or lower is sensed cont. for 40 min during heating operation. Compressor stops |
| | 4 time flash | 84 | | Anti -condensation control | High humidity. Faulty humidity sensor | Anti-condensation prevention control is operating |
| | 5 time flash | 85 | | Anti-frost control | Indoor fan speed drops. Indoor heat exchanger sensor short circuit | When the anti-frost control operates and the compressor stops during cooling operation. |
| | 6 time flash | 86 | | High pressure control | Heating overload. Indoor fan speed drops. Indoor heat exchanger sensor short circuit | When high pressure control operates during heating operation and the comp stops. |
| | 7 time flash | 87 | | Comp overheating protection control | Short of gas. Discharge pipe sensor is faulty. Closed service valve. | When compressor overheating protective control operates and the compressor stops. |
| | 8 time flash | 88 | | Refrigeration cycle system protective control | Service valve closed. Short of gas. | When refrigerant cycle system protective control operates. |

| Error & Stop code table | | | | | | |
|-----------------------------|--------------|--------------------|--|--|---|--|
| SRK**ZH, SRK**ZIX, SRF**ZIX | | | | | | |
| Flashes in service mode | | Stop or Error code | Error content | Cause | Occurrence conditions | |
| Run | Timer | | | | | |
| OFF | 5 time flash | 5 | Cannot receive signals for 35 sec (if communications have recovered) | Power supply is faulty. Power supply cables and signal lines are improperly wired. Indoor/outdoor PCBs are faulty. | When 35 sec passes without communications signals from either the outdoor or indoor unit being detected correctly | |
| 3 time flash | 5 time flash | 35 | Cooling high pressure control | Cooling overload operation. Outdoor fan speed drops. Outdoor heat exchanger sensor is short circuit. | When the outdoor heat exchanger sensor's value exceeds the set value. | |
| | 6 time flash | 36 | Compressor over heat (115°C) | Low on gas. Discharge pipe sensor is faulty. Service valve is closed | When the discharge pipes sensor value exceeds the set value. | |
| | 7 time flash | 37 | Outdoor heat exchanger sensor is abnormal. | Outdoor heat exchanger faulty. Poor connections | When a temp of -55°C or lower is sensed cont. for 20 sec while the power is on or after the outdoor units speed has continued at Orps or higher for 2 min. (The comp stops) | |
| | 8 time flash | 38 | Outdoor air temp sensor is abnormal | Outdoor air temp sensor wire is faulty. Poor connection | When a temp of -55°C or lower is sensed cont. for 20 sec while the power is on or after the outdoor units speed has continued at Orps or higher for 2 min. (The comp stops) | |
| | 9 time flash | 39 | Discharge pipe sensor is abnormal (anomalous stop) | Discharge pipe sensor wire is faulty. Poor connection | When a temp of -25°C or lower is sensed cont. for 20 sec after the outdoor units speed has continued at Orps or higher for 10 min. (the comp stops) | |
| | 4 time flash | 2 time flash | 42 | Current cut | Service valve closed. Compressor locked/faulty. Outdoor PCB faulty. EEV faulty. | Compressor start fails 42 times in succession and final reason for failure is current cut. |
| | | 7 time flash | 47 | Active filter voltage error | Defective active filter. | When the wrong voltage connected for the power supply. When the outdoor control PCB is faulty. |
| | | 8 time flash | 48 | Outdoor fan motor abnormal | Poor connection. Faulty fan motor. Faulty PCB. | When a fan speed of 75rpm or lower continues for 30 sec or longer. |
| | 5 time flash | 1 time flash | 51 | Short circuit in the power transistor (high side) Current cut circuit breakdown | Outdoor PCB is faulty, power transistor damaged | When it is judged that the power transistor was damaged at the time the compressor started. |
| 7 time flash | | 57 | Refrigeration cycle system protective control | Service valve closed. Short of gas. | When the refrigeration cycle protective control operates | |

| Error & Stop code table | | | | | |
|------------------------------|--------------|--------------------|---|--|--|
| SRK**ZHX, SRK**ZIX, SRF**ZIX | | | | | |
| Flashes in service mode | | Stop or Error code | Error content | Cause | Occurrence conditions |
| Run | Timer | | | | |
| 5 time flash | 8 time flash | 58 | Current safe | Refrigerant is overcharged. Compressor locked. Overload operation. | When there is a current safe during operation. |
| | 9 time flash | 59 | Compressor wiring is disconnected. Voltage drop. Low speed protective control | Compressor wiring is disconnected. Power transistor is damaged. Power supply construction is defective. Outdoor PCB is faulty. | When the current is 1A or less at the time the compressor started. When the power supply voltage drops during operation. When the outdoor unit's speed is lower than 26rps for 60 min. |
| 6 time flash | OFF | 60 | Rotor lock | Overload operation. Faulty compressor. Faulty EEV. Faulty outdoor PCB. | After the compressor starts, when the compressor stops due to rotor lock. |
| | 1 time flash | 61 | Connection lines between the indoor & outdoor are faulty. | Connection line are faulty. Indoor or outdoor PCBs are faulty. | When 10 sec passes after the power on without communications signals from the indoor or outdoor being detected correctly |
| | 2 time flash | 62 | Serial signal error | Indoor or outdoor unit PCBs are faulty. Noise causing faulty operation. | When 7 min 35 sec passes without communication signals from indoor or outdoor unit being detected correctly. |
| 8 time flash | OFF | 80 | Indoor fan motor is faulty | Indoor fan motor is faulty. Poor connection. Faulty indoor PCB. | When the indoor fan motor is detected to be running at 300 rpm or lower |
| | 2 time flash | 82 | Indoor heat exchanger sensor abnormal | Indoor heat exchanger sensor wire faulty. Poor connection. | When a temp of -28°C or lower is sensed cont. for 40 min during heating. |
| | 4 time flash | 84 | Anti-condensation control | High humidity condition. Faulty humidity sensor. | Anti-condensation prevention control is operating. |
| | 5 time flash | 85 | Anti-frost control | Indoor fan speed drops. Indoor heat exchanger sensor is faulty | When the anti-frost control operates and the compressor stops during cooling operation. |
| | 6 time flash | 86 | Heating high pressure control | Heating overload operation. Indoor unit fan speed drops. Indoor heat exchanger sensor is short circuit. | When high pressure control operates during heating operation and the compressor stops. |

| Stop data | | | |
|------------------------|---------------------|---------------------|--|
| Remote control setting | | | Displayed data |
| Operation switching | Fan speed switching | Temperature setting | |
| Cooling | L0 | 21 | Displays the stop code the previous time when the A/C was stopped by protective control. |
| | | 22 | 2 times previous |
| | | 23 | 3 times previous |
| | | 24 | 4 times previous |
| | | 25 | 5 times previous |
| | | 26 | 6 times previous |
| | | 27 | 7 times previous |
| | | 28 | 8 times previous |
| | | 29 | 9 times previous |
| | | 30 | 10 times previous |

| Room temperature sensor (THiA), Indoor heat exchanger sensor (THiR), Outdoor air temperature sensor (THoA), Outdoor heat exchanger sensor (THoR) Table | | | | | | | | | | | |
|--|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|
| | | | | | | | | | | | UNIT: oC |
| Buzzer sound (minus) | RUN light (10's digit) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | TIMER light (1's digit) | | | | | | | | | | |
| Yes (sounds for 0.1 second) | 6 | -60 | -61 | -62 | -63 | -64 | | | | | |
| | 5 | -50 | -51 | -52 | -53 | -54 | -55 | -56 | -57 | -58 | -59 |
| | 4 | -40 | -41 | -42 | -43 | -44 | -45 | -46 | -47 | -48 | -49 |
| | 3 | -30 | -31 | -32 | -33 | -34 | -35 | -36 | -37 | -38 | -39 |
| | 2 | -20 | -21 | -22 | -23 | -24 | -25 | -26 | -27 | -28 | -29 |
| | 1 | -10 | -11 | -12 | -13 | -14 | -15 | -16 | -17 | -18 | -19 |
| | 0 | | -1 | -2 | -3 | -4 | -5 | -6 | -7 | -8 | -9 |
| No (does not sound) | 0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | 1 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | 2 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| | 3 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| | 4 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
| | 5 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 |
| | 6 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 |
| | 7 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 |
| | 8 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 |
| | 9 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 |
| Discharge pipe temperature table (THoD) | | | | | | | | | | | |
| | | | | | | | | | | | UNIT: oC |
| Buzzer sound (minus) | RUN Light (10's digit) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | TIMER Light (1's digit) | | | | | | | | | | |
| Yes (sounds for 0.1 second) | 3 | -60 | -62 | -64 | | | | | | | |
| | 2 | -40 | -42 | -44 | -46 | -48 | -50 | -52 | -54 | -56 | -58 |
| | 1 | -20 | -22 | -24 | -26 | -28 | -30 | -32 | -34 | -36 | -38 |
| | 0 | | -2 | -4 | -6 | -8 | -10 | -12 | -14 | -16 | -18 |
| No (does not sound) | 0 | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| | 1 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 |
| | 2 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 | 56 | 58 |
| | 3 | 60 | 62 | 64 | 66 | 68 | 70 | 72 | 74 | 76 | 78 |
| | 4 | 80 | 82 | 84 | 86 | 88 | 90 | 92 | 94 | 96 | 98 |
| | 5 | 100 | 102 | 104 | 106 | 108 | 110 | 112 | 114 | 116 | 118 |
| | 6 | 120 | 122 | 124 | 126 | 128 | 130 | 132 | 134 | 136 | 138 |
| | 7 | 140 | 142 | 144 | 146 | 148 | 150 | | | | |

| INVERTER PAC (FD SERIES) INDOOR FAULT CODES | | | | | | |
|---|-----------------|-----------|-------------------|-----------|---|--|
| Error Code | Indoor PCB LEDs | | Outdoor unit LEDs | | Description of fault | Possible Cause |
| | RED | GREEN (1) | RED | GREEN (1) | | |
| No Error Code | Off | Flashing | Off | Flashing | - | Normal Operation |
| | Off | Off | 2 | Off | Indoor unit power supply | Power OFF, broken wire, blown fuse, broken transformer wire |
| | 3 | Flashing | Off | Flashing | Remote controller wires | Poor or wrong connection, broken wire |
| Remote controller | | | | | Faulty Remote controller | |
| "WAIT" or OFF | Off | Flashing | 2 | Flashing | Communication error (indoor-outdoor) | Faulty interconnect wiring, faulty PCB |
| | | | | | Remote Controller | Improper setting of master and slave by Remote Controller |
| E1 | Off | Flashing | Off | Flashing | Communication error (indoor-remote control) | Poor or wrong connection, broken wire, intrusion of noise, faulty indoor PCB or remote control |
| E5 | 2 | Flashing | 2 | Flashing | Indoor - Outdoor communication fault | Poor connection, incorrect wiring, indoor or outdoor PCB |
| | | | | | Electrical Noise | CPU Runaway on Outdoor control PCB |
| | 2 | Flashing | Off | Flashing | | Outdoor Control PCB |
| | | | | | Outdoor Control PCB | Faulty Outdoor Control PCB or Power supply |
| E6 | 1 | Flashing | Off | Flashing | Indoor heat exchanger temp sensor | Faulty sensor, poor connection, faulty indoor PCB |
| E7 | 1 | Flashing | Off | Flashing | Indoor return air temp sensor | Faulty sensor, poor connection, faulty indoor PCB |
| E8 | 1 | Flashing | Off | Flashing | Indoor heat exchanger temp sensor | Heating overload, faulty sensor, faulty indoor PCB |
| E9 | 1 | Flashing | Off | Flashing | Float switch activated | Blocked drain, faulty pump, faulty indoor PCB, faulty float switch |
| E10 | Off | Flashing | Off | Flashing | No. of indoor units connected | Too many units connected to 1 controller (MAX 16) |
| E14 | 3 | Flashing | Off | Flashing | Remote controller Fault | No master assigned to slaves, incorrect wiring, broken wire between master & slave |
| E16 | Off | Flashing | Off | Flashing | Indoor fan motor | Faulty Indoor fan motor, poor connection, faulty indoor PCB |
| E19 | 1 | Flashing | Off | Flashing | Mode Setting | Incorrect mode setting |
| E28 | Off | Flashing | Off | Flashing | Remote Controller temp sensor | Faulty Remote controller temp sensor |

| INVERTER PAC (FD SERIES) OUTDOOR FAULT CODES | | | | | | |
|--|-----------------|-----------|-------------------|-----------|--|--|
| Error Code | Indoor PCB LEDs | | Outdoor unit LEDs | | Description of fault | Possible Cause |
| | RED | GREEN (1) | RED | GREEN (1) | | |
| E33 | Off | Flashing | 1 | Flashing | Power supply | Anomalous current on inverter primary side |
| E34 | Off | Flashing | 1 | Flashing | Power supply | Phase open circuit, faulty outdoor control PCB (3 Phase model) |
| E35 | Off | Flashing | 1 | Flashing | Outdoor heat exchanger thermistor | Overheat of condenser, faulty thermistor, faulty outdoor PCB |
| E36 | Off | Flashing | 1 | Flashing | Discharge pipe thermistor | High discharge temp, faulty sensor, faulty outdoor control PCB |
| E37 | Off | Flashing | 1 | Flashing | Outdoor heat exchanger thermistor | poor connection, broken wire, faulty thermistor, faulty PCB |
| E38 | Off | Flashing | 1 | Flashing | Outdoor ambient air sensor | Poor connection, broken wire, faulty thermistor, faulty PCB |
| E39 | Off | Flashing | 1 | Flashing | Discharge pipe thermistor | poor connection, broken wire, faulty thermistor, faulty PCB |
| E40 | Off | Flashing | 1 | Flashing | High Pressure Error | Activation of HP switch (63H1), closed service valve, faulty PCB (63H1 Circuit) |
| E41 | Off | Flashing | 1 | Flashing | Power Transistor overheat | short circuit of air flow, faulty Inverter PCB |
| E42 | Off | Flashing | 1 | Flashing | Current Cut | Closed service valve, faulty outdoor control PCB |
| E45 | Off | Flashing | 1 | Flashing | Communication Error - Inverter to Control PCBs | Poor Connection, faulty control or inverter PCBs |
| E47 | Off | Flashing | 1 | Flashing | Control PCB, Power transistor | Anomalous inverter over voltage |
| E48 | Off | Flashing | 1 | Flashing | Condenser fan motor | Faulty fan motor or outdoor PCB |
| E49 | Off | Flashing | 1 | Flashing | Low Pressure Error | Closed service valve, short of gas, faulty LP sensor, faulty outdoor control PCB |
| E51 | Off | Flashing | 1 | Flashing | Inverter Error | Faulty Inverter PCB |
| E53 | Off | Flashing | 1 | Flashing | Suction pipe thermistor | poor connection, broken wire, faulty thermistor, faulty PCB |
| E54 | Off | Flashing | 1 | Flashing | Low Pressure Sensor Error | Closed service valve, short of gas, faulty LP sensor, faulty outdoor control PCB |
| E55 | Off | Flashing | 1 | Flashing | Under-dome temp thermistor | poor connection, broken wire, faulty thermistor, faulty PCB |
| E57 | Off | Flashing | 1 | Flashing | Low Pressure Error | Insufficient refrigerant |
| E59 | Off | Flashing | 5 | Flashing | Compressor start up error | faulty power supply, faulty inverter circuit. |
| E60 | Off | Flashing | 1 | Flashing | Compressor | Faulty compressor, faulty inverter circuit. |
| E75 | Off | Flashing | Off | Flashing | Central Controller communication error | poor connection, broken wire, faulty controller |

| RC-E1 & RC-E3 OPERATIONAL SERVICE DATA | | | |
|--|----------------------------|-------|----------------------------|
| RC-E1 | | RC-E3 | |
| 01 | OPERATION MODE SYMBOL | 01 | OPERATION MODE SYMBOL |
| 02 | SET TEMP | 02 | SET TEMP |
| 03 | RETURN AIR TEMP (THiA) | 03 | RETURN AIR TEMP (THiA) |
| 04 | I/U HEAT EXCHANGER 1 TEMP | 04 | REMOTE CONTROL TEMP |
| 05 | I/U HEAT EXCHANGER 2 TEMP | 05 | I/U HEAT EXCHANGER 1 TEMP |
| 07 | I/U FAN SPEED | 06 | I/U HEAT EXCHANGER 2 TEMP |
| 08 | REQUEST FREQUENCY | 07 | I/U HEAT EXCHANGER 3 TEMP |
| 0 | RESPONSE FREQUENCY | 08 | I/U FAN SPEED |
| 10 | EXP VALVE OPEN PULSE | 09 | DEMAND FREQUENCY |
| 11 | TOTAL I/U RUN HOURS | 10 | ANSWER FREQUENCY |
| 21 | OUTDOOR TEMP (THoA) | 11 | INDOOR EEV PULSE |
| 22 | O/U HEAT EXCHANGER 1 TEMP | 12 | TOTAL I/U RUN HOURS |
| 23 | O/U HEAT EXCHANGER 2 TEMP | 21 | OUTDOOR TEMP (THoA) |
| 24 | COMPRESSOR Hz | 22 | O/U HEAT EXCHANGER 1 TEMP |
| 25 | HIGH PRESSURE | 23 | O/U HEAT EXCHANGER 2 TEMP |
| 26 | LOW PRESSURE | 24 | COMPRESSOR Hz |
| 27 | DISCHARGE TEMP (THoD) | 25 | HIGH PRESSURE |
| 28 | DOME TEMP (THoC) | 26 | LOW PRESSURE |
| 29 | CT (AMPS) | 27 | DISCHARGE TEMP (THoD) |
| 31 | O/U FAN SPEED | 28 | DOME TEMP (THoC) |
| 32 | SILENT MODE STATUS | 29 | CT (AMPS) |
| 34 | 63H1 STATUS | 30 | TAREGT SUPERHEAT |
| 35 | DEFROST STATUS | 31 | SUPERHEAT |
| 36 | TOTAL COMPRESSOR RUN HOURS | 32 | DISCHARGE PIPE SUPERHEAT |
| 37 | EEV 1 PULSE | 33 | COMPRESSOR PROTECTION No |
| 38 | EEV 2 PULSE | 34 | O/U FAN SPEED |
| | | 35 | 63H1 STATUS |
| | | 36 | DEFROST STATUS |
| | | 37 | TOTAL COMPRESSOR RUN HOURS |
| | | 38 | EEV 1 PULSE |
| | | 39 | EEV 2 PULSE |

NOTE: SOME DATA IS NOT AVAILABLE FOR ALL MODEL TYPES

| RC-E1 & RC-E3 SETTING OPTIONS | | | |
|-------------------------------|----------------------|-------------------------------------|---|
| RC-E1 | | | |
| Function No | Function Description | Setting Options | Comment |
| 01 | GRILL LIFT SET | INVALID | For FDT FILTER PANEL |
| | | 50Hz AREA | |
| | | 60Hz AREA | |
| 02 | AUTO MODE SET | AUTO RUN ON | ALLOWS AUTO CHANGEOVER MODE (PAC & KXR ONLY) |
| | | AUTO RUN OFF | |
| 03 | TEMPERATURE SWITCH | VALID | LOCKS TEMPERATURE SWITCH INPUT |
| | | INVALID | |
| 04 | MODE SWITCH | VALID | LOCKS MODE SWITCH INPUT |
| | | INVALID | |
| 05 | ON / OFF SWITCH | VALID | LOCKS ON/OFF SWITCH INPUT |
| | | INVALID | |
| 06 | FAN SPEED SWITCH | VALID | LOCKS FAN SPEED SWITCH INPUT |
| | | INVALID | |
| 07 | LOUVER SWITCH | VALID | LOCKS LOUVER SWITCH INPUT |
| | | INVALID | |
| 08 | TIMER SWITCH | VALID | LOCKS TIMER SWITCH INPUT |
| | | INVALID | |
| 09 | SENSOR SWITCH | SENSOR OFF | REMOTE CONTROL SENSOR OPTION |
| | | SENSOR ON | |
| 10 | POWER FAILURE | VALID | POWER RE-START OPTION AFTER POWER FAILURE |
| | | INVALID | |
| 11 | VENT SWITCH | NO VENTI | FOR INTERLOCKING OF OUTSIDE AIR CONTROL (CNT / CND) |
| | | VENTI LINK SET | |
| | | NO VENTI LINK | |
| 12 | TEMP RANGE SET | DISP CHANGE | PRESENTS SETTING VIEW DIFFERENTLY TO OPERATOR |
| | | NO DISPLAY CHANG | |
| 13 | I/U FAN SPEED | 3 FAN SPEEDS | AVAILABLE FAN SPEED SWITCH SETTINGS |
| | | 2 FAN SPEEDS | |
| | | 1 FAN SPEED | |
| 14 | MODEL TYPE | HEAT PUMP | FOR DEFINING MODE/ MODEL TYPE |
| | | COOL ONLY | |
| 15 | EXTERNAL CONTROL SET | INDIVIDUAL OPERAT SAME OPERATION | CnT CONTROL OF SINGLE OR MULTI FCU CONNECTED TO A SINGLE RC |
| 16 | ERROR DISPLAY SET | ERROR DISPAY | ERROR MESSAGE DISPLAYED ON WALL CONTROL |
| | | NO ERROR DISPLAY | |
| 17 | LOUVER POSITION | FIX 1-4 | OPTION TO STOP LOUVER IN 1-4 POSITION OR AUTO |
| | | IN MOTION | |
| 18 | o C / F SETTING | o C | TEMPERATURE SCALE |
| | | o F | |

| RC-E1 & RC-E3 SETTING OPTIONS | | | |
|-------------------------------|---|-------------------------------------|---|
| RC-E3 | | | |
| Function No | Function Description | Setting Options | Comment |
| 01 | GRILL LIFT SET | INVALID | For FDT FILTER PANEL |
| | | 50Hz AREA | |
| | | 60Hz AREA | |
| 02 | AUTO MODE SET | VALID | ALLOWS AUTO CHANGEOVER MODE (PAC & KXR ONLY) |
| 03 | TEMPERATURE SWITCH | VALID | LOCKS TEMPERATURE SWITCH INPUT |
| | | INVALID | |
| 04 | MODE SWITCH | VALID | LOCKS MODE SWITCH INPUT |
| | | INVALID | |
| 05 | ON / OFF SWITCH | VALID | LOCKS ON/OFF SWITCH INPUT |
| | | INVALID | |
| 06 | FAN SPEED SWITCH | VALID | LOCKS FAN SPEED SWITCH INPUT |
| | | INVALID | |
| 07 | LOUVER SWITCH | VALID | LOCKS LOUVER SWITCH INPUT |
| | | INVALID | |
| 08 | TIMER SWITCH | VALID | LOCKS TIMER SWITCH INPUT |
| | | INVALID | |
| 09 | SENSOR SET | SENSOR OFF | Remote thermistor is not working. |
| | | SENSOR ON | Remote thermistor is working. |
| | | SENSOR + 3oC | Remote thermistor is working, and to be set for producing +3.0°C increase in temperature. |
| | | SENSOR + 2oC | Remote thermistor is working, and to be set for producing +2.0°C increase in temperature. |
| | | SENSOR + 1oC | Remote thermistor is working, and to be set for producing +1.0°C increase in temperature. |
| | | SENSOR - 1oC | Remote thermistor is working, and to be set for producing -1.0°C increase in temperature. |
| | | SENSOR - 2oC | Remote thermistor is working, and to be set for producing -2.0°C increase in temperature. |
| SENSOR - 2oC | Remote thermistor is working, and to be set for producing -3.0°C increase in temperature. | | |
| 10 | AUTO RESTART | VALID | POWER RE-START OPTION AFTER POWER FAILURE |
| | | INVALID | |
| 11 | VENT SWITCH | NO VENTI | FOR INTERLOCKING OF OUTSIDE AIR CONTROL (CNT / CND) |
| | | VENTI LINK SET | |
| | | NO VENTI LINK | |
| 12 | TEMP RANGE SET | DISP CHANGE | PRESENTS SETTING VIEW DIFFERENTLY TO OPERATOR |
| | | NO DISPLAY CHANG | |
| 13 | I/U FAN SPEED | HI - MED - LO | REMOTE CONTROLLER WILL SELECT AND DISPLAY THE SET FAN SPEED SELECTION OPTIONS |
| | | HI - LO | |
| | | HI - MED | |
| | | 1 FAN SPEED | |
| 14 | LOUVER POSITION | 4 POSITION STOP FREE STOP | IF FUNTION 4 IS VALID, LOUVER CAN BE LOCK IN 4 POSITIONS OR ANY POSITION |
| 15 | MODEL TYPE | HEAT PUMP | FOR DEFINING MODE/ MODEL TYPE |
| | | COOL ONLY | |
| 16 | EXTERNAL CONTROL SET | INDIVIDUAL OPERAT SAME OPERATION | FOR CnT SCHEDULING OF SINGLE OR ALL INDOOR UNITS LINKED TO A SINGLE REMOTE CONTROLLER |
| 17 | ROOM TEMP INDICATION SET | INDICATION OFF INDICATION ON | INDOOR UNIT SENSOR TEMP CAN BE DISPLAYED ON RC INSTEAD OF AIRFLOW |
| 18 | INDICATION | INDICATION ON | HEATING "HOT KEEP" HAND DISPLAY |
| | | INDICATION OFF | |
| 19 | o C / F SETTING | o C | TEMPERATURE SCALE |
| | | o F | |

TROUBLE SHOOTING THE REFRIGERATION SYSTEM

| Indication | Pressure | | | | | Cause of Trouble |
|------------|-----------|-----|--------|------|------------|---|
| | Extra Low | Low | Normal | High | Extra High | |
| System | | | | | | |
| High Side | | | | | ■ | 1) Excessive overcharging of refrigerant |
| Low Side | | | | | ■ | 2) Mixture of non condensables |
| High Side | ■ | | | | | 1) Ineffective compression - Compressor |
| Low Side | | | | | ■ | 2) By pass valve open |
| High Side | | ■ | | | | 1) Insufficient Refrigerant / Gas Leak / Blockage |
| Low Side | ■ | | | | | 2) Indoor Filter blocked/ Indoor Fan |
| High Side | | | | | ■ | 1) Outdoor Fan Motor / Blocked Outdoor heat exchanger |
| Low Side | | | | ■ | | 2) Mixture of non condensables / High Ambient Temp |
| High Side | | | | ■ | | 1) High Indoor Room temperature |
| Low Side | | | | | ■ | |