## 16. Troubleshooting Guide

### 16.1 Self Diagnosis Function

- The display screen of wireless remote control unit and the self-diagnosis LEDs (green) on the outdoor printed circuit board in the outdoor unit can be used to identify the location of the problem.
Refer to the table below to identify and solve the cause of the problem, and then re-start the air conditioner system.
- If the problem is solved and operation returns to normal.

LED 1 illuminates and others LED are off.

| Diagnomis display | Abncmality or protection control | LED 6 | LED 5 | LED 4 | LED 3 | LED 2 | LED 1 | Abnomality judgement | Protection operation | Prablem | Gheck location |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| H 11 | Indorgfouthar abnormal comrnutiadion |  |  |  |  |  | 0 | Atter operation for 1 minute | Indexy fañonly asaratlon can start by sutering into fore wool rg oseraton | Indourloutriocer communicuxton pout establish | * Intourhoukdoer wire teminal <br> - Inteoriondicom PCE <br> - Ircooroutdoer facrection wire |
| $\mathrm{H}^{\circ} 2$ | "Wow br": ডuwarity unrmatera |  |  |  |  | $\sigma$ |  | 90s after power suraply | - | Tetal indow. capability mone trar mexirax lirata. less than nirimum linit, ay number $0^{*}$ indoor unt less thar. two | - lracorbontwoer forrection wire <br> - Jracorlantacor PCE <br> - Wuectication zand comalnaton table in catalog.e |
| 143 | Comprassor temperature selsal atbremalizy |  |  |  |  | 8 | 0 | Contiruous tion | - | Compressar teriperazres sensar ogan or short circuit | - Compressar <br>  sersey leac wire and tonnection |
| $\mathrm{H}^{*} 6$ | Oudacs current trantanmer (CT) abnormality |  |  |  | 0 |  | 4 | - | - | Curent transtommer Tauliy ar cempanesser Trauly | - Ouviser FGe fully ar compresostr faulty |
| H27 |  tsmperatura 3e"tar abrom nality |  |  |  | 0 | 0 |  | Contirucus Or 5 | 一 | Qutwor air tempersiure sumpor ocer: ar shart circult | - Cutsitas ailr ternpersture sersyy lead wice絧d gemmexar |
| $\mathrm{H}_{2} 8$ | Cutalos: 7ena exchanger tempenature senssar 1 abnormaly |  |  |  | 0 | 0 | 0 | Contrued "x | - | Outwor reat Asthemner tympereve serisar 1 ocor: or shert minauit | - Ouknor reat extararyer terrpergure serscr '. lvad wite and cormestor |
| H3\% | Dutator 9exi axclunger tsmperature ve"sor 2 abnornaly |  |  | 0 |  |  |  | Contiruads " Cr 5 | - | Qutriocr lesat axchanser temperature sensor? oger or short circuit | - Outrioc: Feat axeranee temperature serser \& lead wre and cerrecter |
| H33 | Inorer: putcomar missonnection abnormaly |  |  | 0 |  |  | 0 | - | - | Indoor end ordour raited woltage diferent | * \|rcogrend outdicor kilas cierk |
| H36 | Outdoes gas pipe tempersiure sensor abnernally |  |  | 0 |  | 0 |  | Contirucas Fr 5 | Heating protertion wasation only | Outioor gas ame teryperazure sensor ober or zhort sircuit | - Outicor gas pipe termerazure serser leat wire and contocrior |
| $\mathrm{H}_{3} 7$ | Outclos: guid plp temperaiure semsor zbnormal y |  |  | 0 |  | 0 | 0 | Canturnous cr 3 s | Coolira protection operation only | Onteoor lquid eope temperzure se"s.ar ozer or short circuit | - Ontegar \|rata pipe :emperature serscr leac wire and connextor |


| Diaknowis disploy | Abnomality or protection control | LED 6 | LED ${ }^{\text {b }}$ | LED 4 | LED 3 | LED 2 | LED 1 | Abnormalizy jusgement | Protection opsration | Problem | Check lamation |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| H64 | Outdoor higgly praskur 3ensco abonomaliz |  |  | 0 | 0 |  |  | Continusus for 1 minutas | - | Hightressure sensor opar circuit during compressor stop | - High prosedre sensbr <br> - Lead wite ane conrector |
| H97 | Oudae fan rnotior mechensm look |  |  | 0 | 0 |  | 0 | 2 times happen within 30 minutes | - | Cutdent "an man leck or feedbeck abnormal. | - Gutdent lan motor lead wire art connector <br> - Fan moter lock or block |
| H98 | Insoortigh presesure protaction |  |  | 0 | 0 | 0 |  | - | - | Indoer high pressuxa orotection (-\|eating | - Check indoor hemt exehngger <br> - Aur filter diry <br> * Air circulation shot circuit |
| H98 | madoer operating unit freate protection |  |  | 0 | 0 | 0 |  | - | - | Indaw freaze arctection (Cooline | * Check indoor heat axchanger <br> - Alr filter diry <br> - Ajr ciculation Hhot circut |
| F11 | 4-way valy swibching ànormaliy |  |  | 0 | 0 | $\Delta$ | 0 | 4 ITRes teppen within 30 minutes | - | 4-way velies witching abnomal | - 4-veay value <br> - Lezed wire and somnector. |
| F17 | Indoorstancly units freazing ånarmaliy |  | 0 |  |  |  |  |  rappen with in 40 minutes | $\smile$ | Whong wiring and connecting pipe, expansion valะ exakage | * *heck rodaer owtas commetion wire anci pips <br> - Indomr neam exwhanger sensor lead wits and sonnactop <br> - Expsingior vance lead wire and connector. |
| F90 | Prwer facior comection (PFC) epeult provection |  | 0 |  |  |  | 0 | 4 tifnes <br> nappen within 20 minutes | - | Prower factor correction eircuik abnermas | - Outeger PO tauly |
| F91 | Refngeration cycle abnormaliny |  | 0 |  |  | $\bigcirc$ |  | 4 fimes heppen within 60 minutes | - | Roficyeration cyede abtcorval | - Insuficient refrgerant or valve clase |
| F9\% | Compressar abnormal revelution |  | 0 |  |  | 0 | 0 | 4 dimes happonwthin 20 minutes | - | Compreszar abnommer revolution | * Prowar transigior morkle faulty or compressor locs |
| FO4 | Compreserar dinchage pressura owarkoot proiection |  | 0 |  | 0 |  |  | d tirnex happanwithin 20 minutes | - | Compressar timeharge pressu*e cvermont | - Ghenk rafigeration systan |
| F9\% | Cutder cocoling high mbestre protection |  | 0 |  | 0 |  | 0 | 4 times happen within 20 minutes | - | Cooling high prosure patection | -Chack ratriguration systam <br> * Cutdear air sircuit |
| $F 06$ | Power francintor module overfeating protection |  | 0 |  | 0 | 0 |  | 4 ไักยะ happen within 30 mimultes | - | Power transistor modsle ovemeat | * PCE faulty <br> - Oundoor air kincuí (finn mown) |


| Diagnesis display | Abnomality or protection control | LED 6 | LED 5 | LED 4 | LED 3 | LED 2 | LED 1 | Abnormality Juxlyement | Protaction operation | Froblem | Check location |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F97 | Compresser overhequing proxectior: |  | 0 |  | 0 | 0 | 0 | 3 timne happer with ir? 30 Minutes | - | compreser overheat | - Insufficient refrigerant |
| F93 | Tota ruming current prosection |  | 0 | 0 |  |  |  | 3 ป่mes thappernwitthit 20 roinutes | - | otal cu'rent protection | * Check refrigeration sysmm <br> - Sower scuica or compresser lock |
| F $9_{9} 9$ | Outuloo: direct current $(x)$ peak cistwation |  | 0 | $\bigcirc$ |  |  | 0 | Contirucus happen for 7 <br>  | - | Fowar fransision module current protecis) | * Sower transisior rodule failly or comprasem lack |

 and self diagrosis irclication.

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