TRUST
Air Conditioners

# TROPICAL ROOFTOP PACKAGE S SERIES


TRUST AIR CONDITIONING EQUIPMENT CO.
Prepared By: Engineering & R & D Department.

Shiraz- May 2017

# Contents



**توجه:**

**شرکت تراست حق تغییر مشخصات دستگاه ها را در جهت بهبود و ارتقای کیفیت برای خود محفوظ می دارد.**

# 1. Error Code

## 1.1 Error Code for 5ton

| Type | Content | Code | Remarks |
|---|---|---|---|
| Normal | Standby | -- | |
| Normal | Constraint cooling | On | |
| Normal | Run | 10. | |
| Error | Compressor phase sequence error or phase default | E0 | Manual reset |
| Error | Outdoor coil temp. sensor T3-1 default | E1 | Manual reset |
| Error | Outdoor coil temp. sensor T3-2 default | E2 | Manual reset |
| Error | Indoor coil temp. sensor T2-1 default | E5 | Manual reset |
| Error | Indoor coil temp. sensor T2-2 default | E6 | Manual reset |
| Error | Indoor temp. sensor T1 error | E9 | Manual reset |
| Error | Outdoor ambient temp. sensor T4 error | EA | Manual reset |
| Error | Wired controller output error | Eb | Manual reset |
| Protection | Over current protection | P0 | Auto reset |
| Protection | Comprehensive protection for outdoor fan | P3 | Auto reset |
| Protection | Protection for Hi./Lo. Pressure or exhaust temp. (System 1) | P4 | Auto reset |
| Protection | Protection for Hi./Lo. Pressure or exhaust temp. (System 1) | P5 | Auto reset |
| Protection | Protection for High temperature of the outdoor condenser | P8 | Auto reset |

## Error code for 6.2ton and above

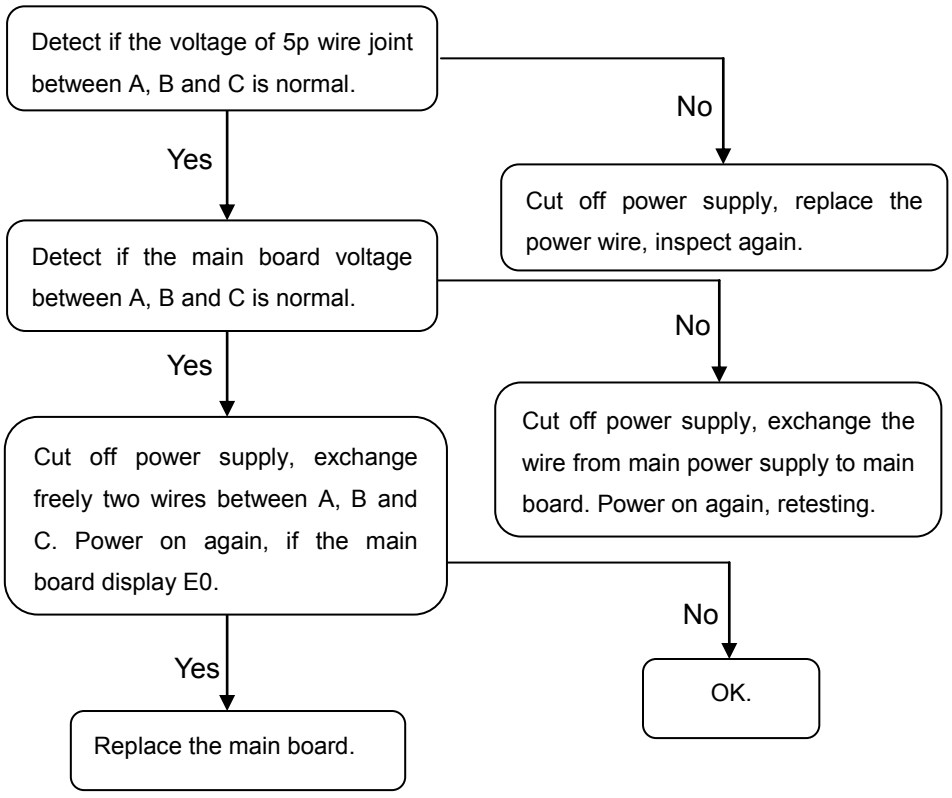
| Type | Content | Code | Remarks |
|---|---|---|---|
| Normal | Standby | -- | |
| Normal | Constraint cool | On | |
| Normal | Run | 10. | |
| Error | Compressor phase sequence error or phase default | E0 | Manual reset |
| Error | Outdoor coil temp. sensor in sys. A error | E1 | Manual reset |
| Error | Outdoor coil temp. sensor in sys. B error | E2 | Manual reset |
| Error | Indoor coil temp. sensor in sys. A error | E5 | Manual reset |
| Error | Indoor coil temp. sensor in sys. B error | E6 | Manual reset |
| Error | Indoor temp. sensor error | E9 | Manual reset |
| Error | Outdoor ambient temp. sensor error | EA | Manual reset |
| Error | Wire controller output error | Eb | Manual reset |
| Protection | Overcurrent protection in sys. A | P0 | Auto reset |
| Protection | Overcurrent protection in sys. B | P1 | Auto reset |
| Protection | Overcurrent protection for indoor fan | P2 | Auto reset |
| Protection | Comprehensive protection for outdoor fan | P3 | Auto reset |
| Protection | Protection for Hi./Lo. Pressure or exhaust temp. in sys. A | P4 | Comprehensive protection in sys. A |
| Protection | Protection for Hi./Lo. Pressure or exhaust temp. in sys. B | P5 | Comprehensive protection in sys. B |
| Protection | T2 evaporator Hi-temperature protection stop outdoor unit fan | P6 | Auto reset |
| Protection | T2 evaporator Hi- temperature protection then stop outdoor unit fan and compressor | P7 | Auto reset |
| Protection | Protection for condenser Hi-temp. in sys. A | P8 | Auto reset |
| Protection | Protection for condenser Hi-temp. in sys. B | P9 | Auto reset |
| Protection | Anti-freezing protection for evaporator in sys. A | Pc | Auto reset |
| Protection | Anti-freezing protection for evaporator in sys. B | Pd | Auto reset |
| Protection | Defrosting | dF | Auto reset |

## 1.2 Troubleshooting

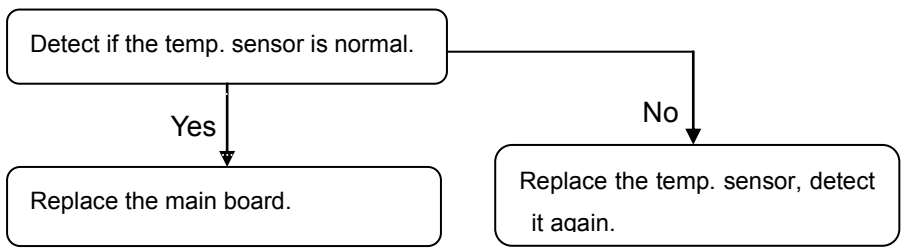
### For 5ton

| Item | Content | Error code |
|---|---|---|
| 1 | Compressor phase sequence error or phase default | **E0** |
| 2 | Outdoor coil temp. sensor T3-1 default | **E1** |
| 3 | Outdoor coil temp. sensor T3-2 default | **E2** |
| 4 | Indoor coil temp. sensor T2-1 default | **E5** |
| 5 | Indoor coil temp. sensor T2-2 default | **E6** |
| 6 | Indoor temp. sensor T1 error | **E9** |
| 7 | Outdoor ambient temp. sensor T4 error | **EA** |
| 8 | Wired controller output error | **Eb** |
| 9 | Over current protection | **P0** |
| 10 | Comprehensive protection for outdoor fan | **P3** |
| 11 | Protection for Hi./Lo. Pressure or exhaust temp. | **P4** |

### ①E0：Compressor phase sequence error or phase default

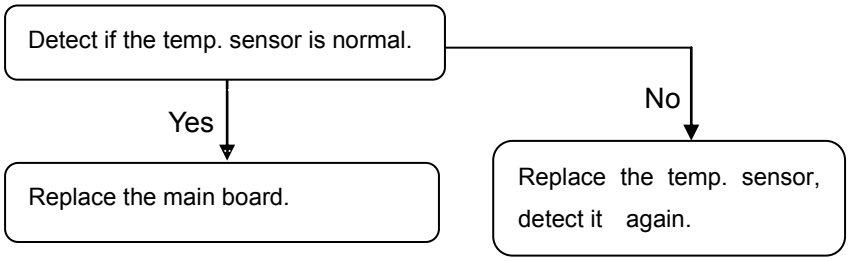



### ②E1：Outdoor coil temp. sensor T3 default.



**③ E9：Indoor coil temp. sensor T2 default.**

(Indoor temp. and Pipe Temp. Sensor Resistance Value Table, see **Appendix 2 )**



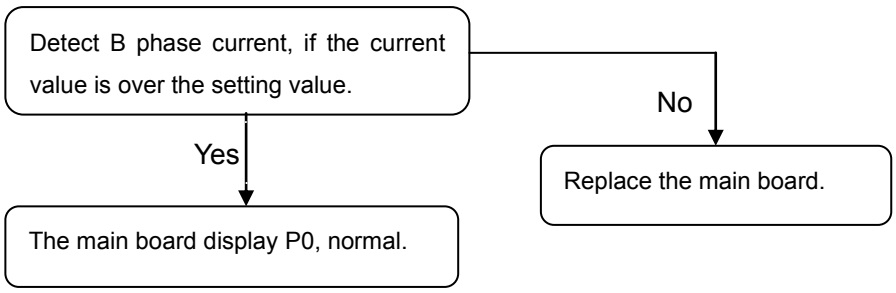

**④When E2,E5,E6 or EA displays, please check the wired nameplate, if the terminals of T2_1、T2_2、T3_2、T4 are connected as short circuit. If no, please connect all as short circuit, unless replace main board.**

**⑤Eb: Wired controller output error.(Only for KJR-23B or KJR-25B).**

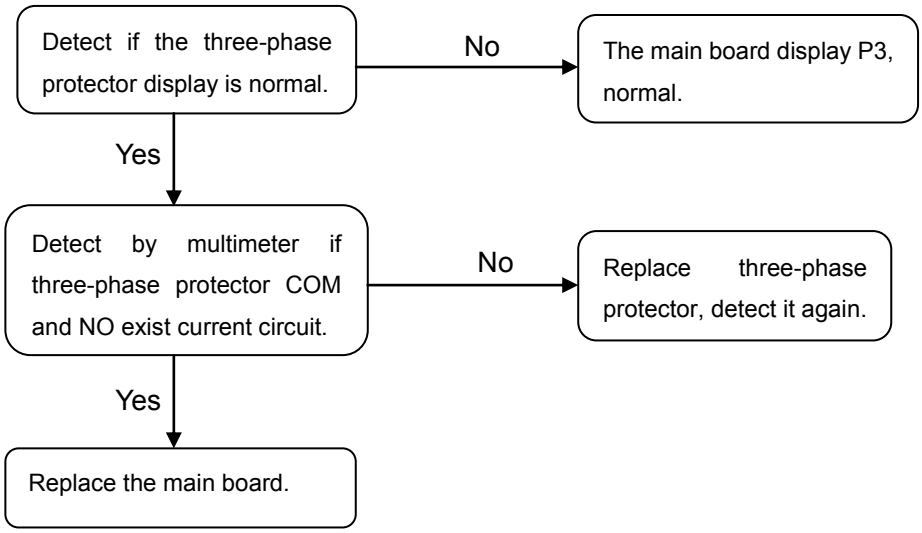
Avoid three conditions as following:

1) The wired controller output signal has Y, no G.
2) The wired controller output signal has W, no G.
3) The wired controller output signal has Y and W, no G.

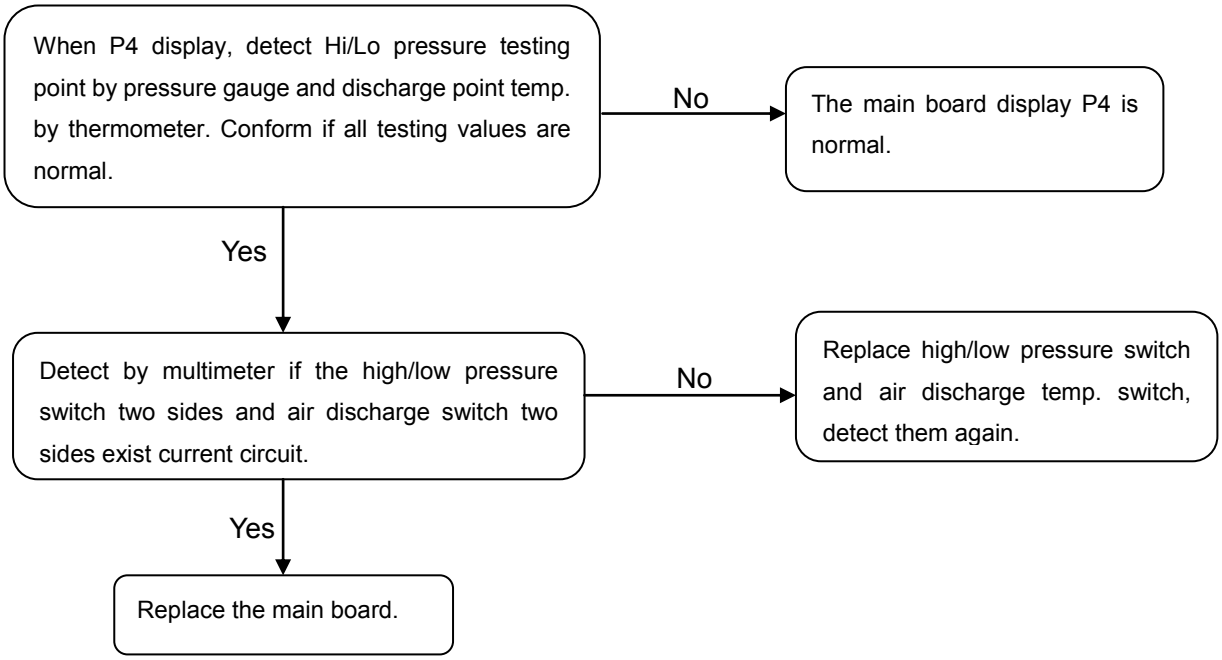
**⑥P0：Compressor over current protection.(The over current protection value is 16A)**



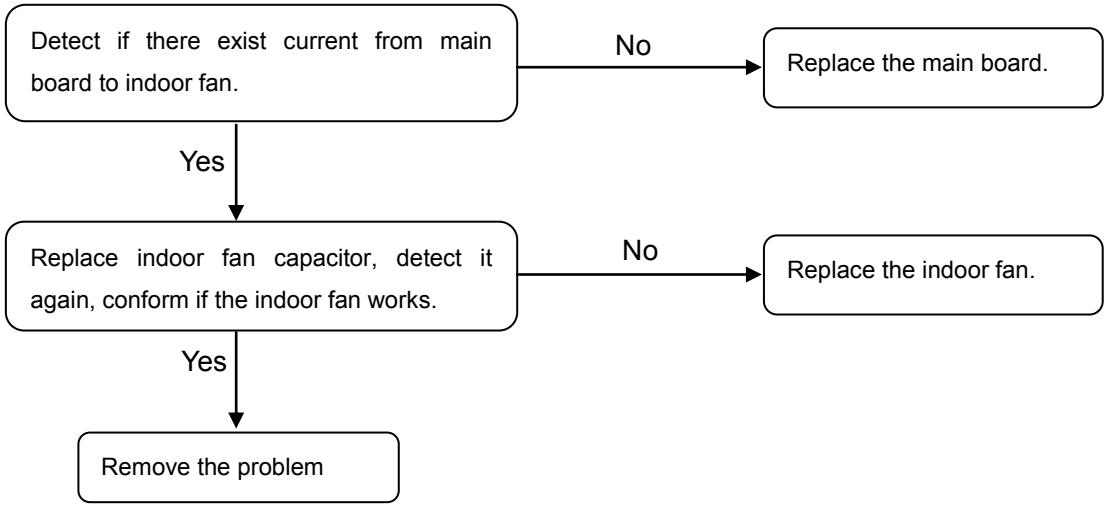

**⑦P3：Comprehensive protection for outdoor fan**



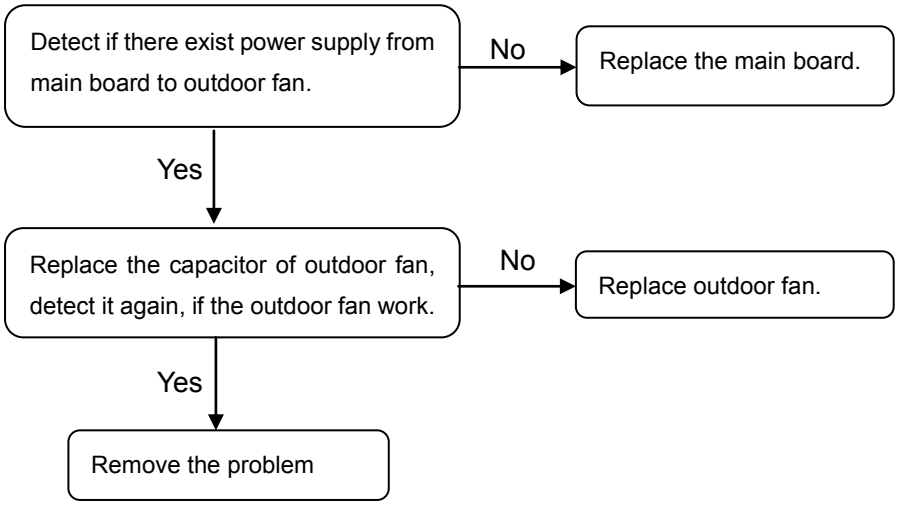
**⑧P4：Protection for Hi./Lo. Pressure or exhaust temp. (High pressure protection value：4.4MPa, High pressure protection value：0.14MPa；air discharge temp. protection value: 130℃ above)**




**⑨Indoor fan motor don't work.**




**⑩ Outdoor fan motor don't work.**

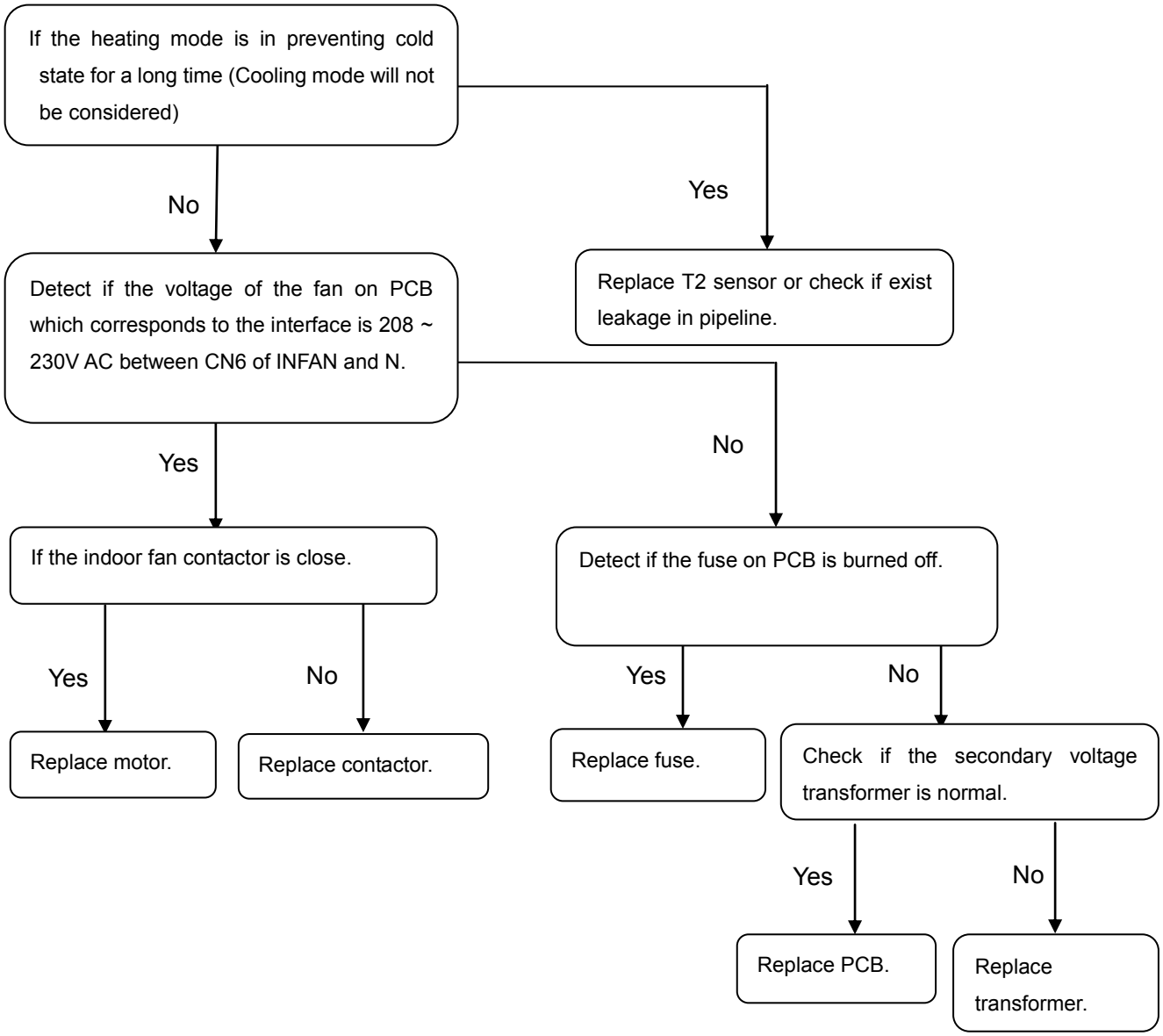


**For 6.2ton and above**

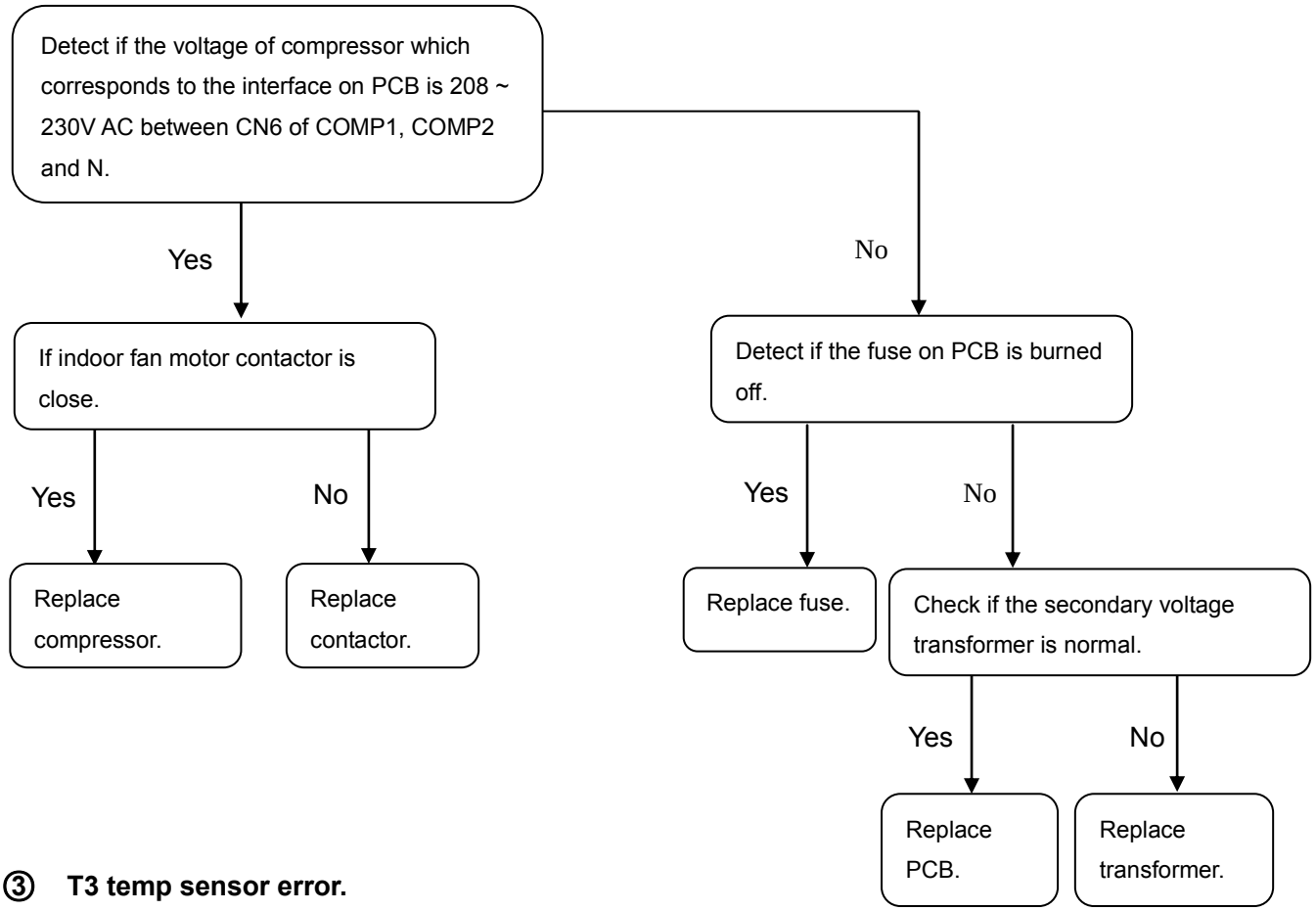
| Item | Content | Error code |
|---|---|---|
| 1 | Indoor fan motor didn't run. | -- |
| 2 | Compressor didn't run. | -- |
| 3 | T3 temp sensor error. | EA |
| 4 | Check if the low pressure protection is normal. | -- |
| 5 | Outdoor fan motor didn't run. | -- |
| 6 | Four ways valve didn't work. | -- |
| 7 | Condenser high temp protection. | P8,P9 |

**① Indoor fan motor don't run.**

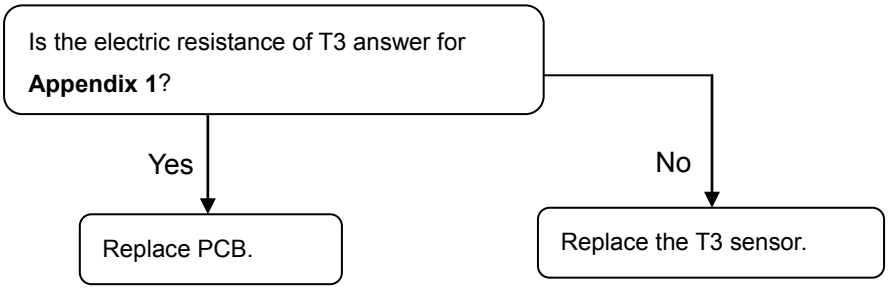
The first check if the power supplier is normal, if all wire connection terminal is loose, if the wired controller set and wire connection are correct, operating as flow process after confirm.



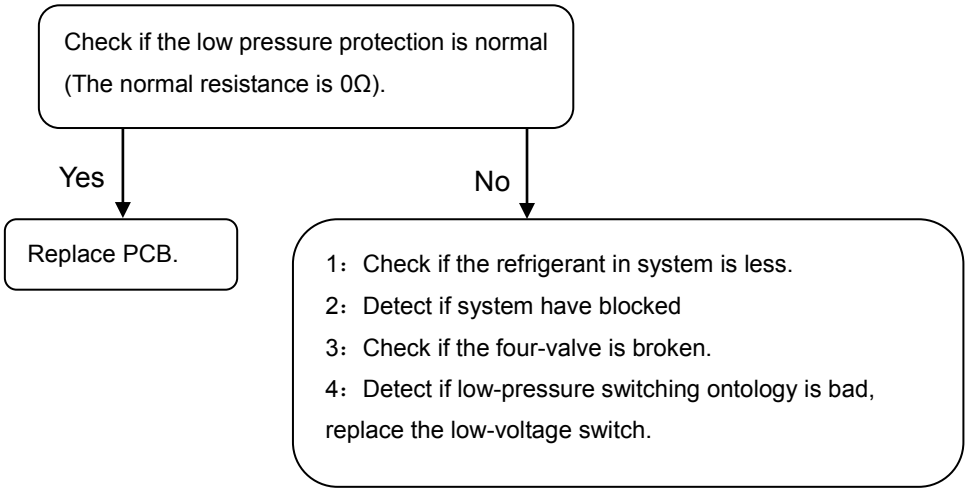
**② Compressor don't run (All wires connection are correct and reliable, if power supplier is required range. If compressor don't run, you can analysis as flowing)**



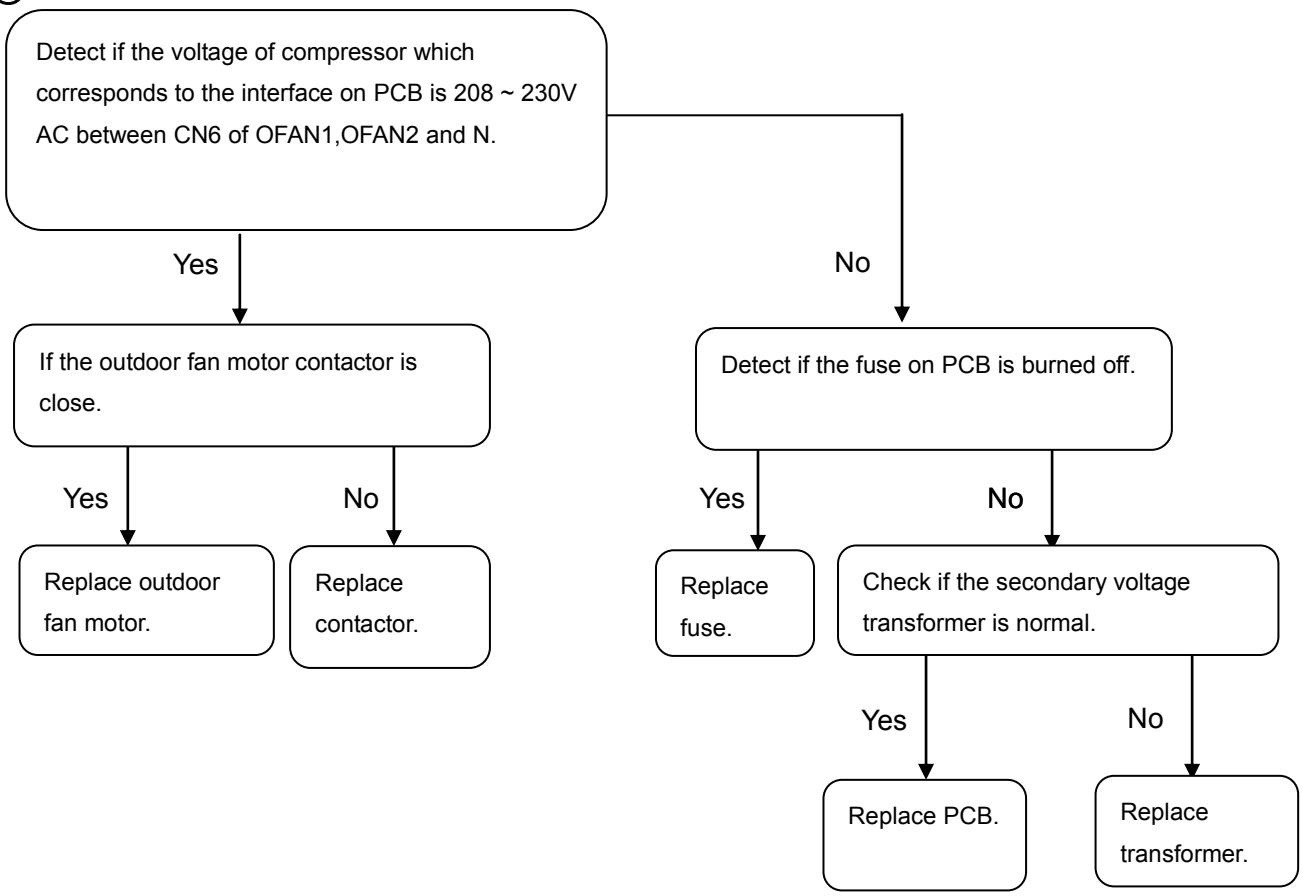

**③ T3 temp sensor error.**



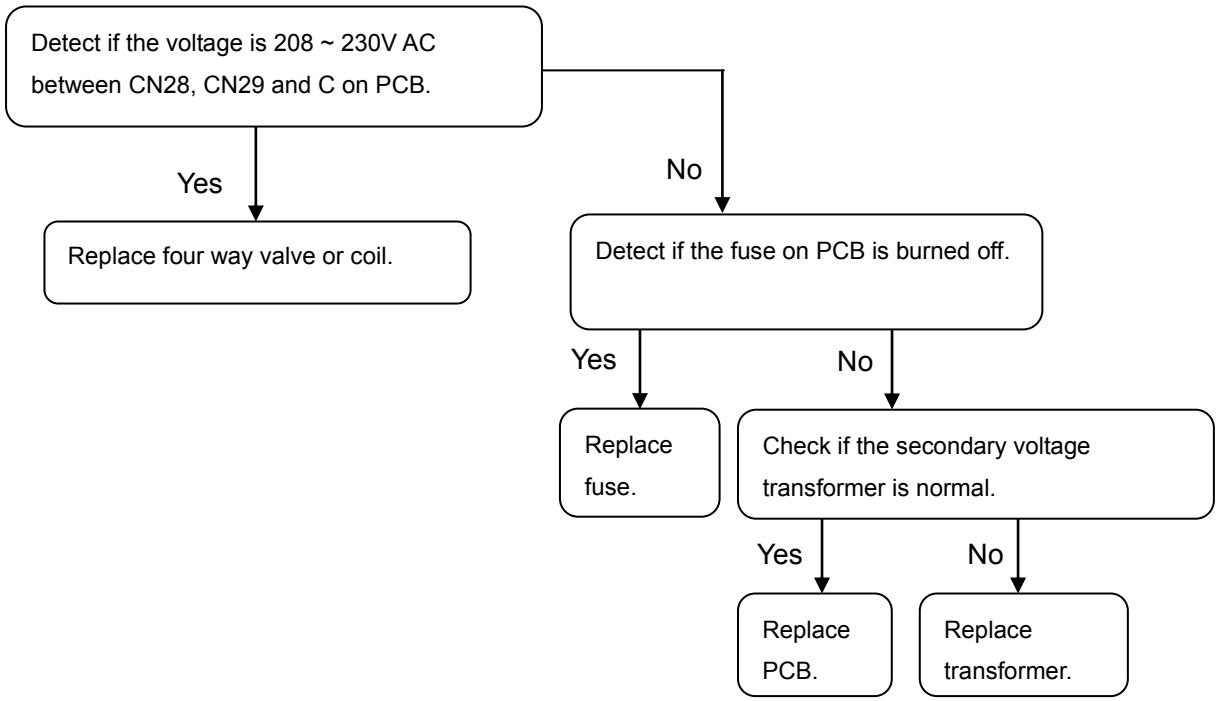

**④ Check if the low pressure protection is normal.**



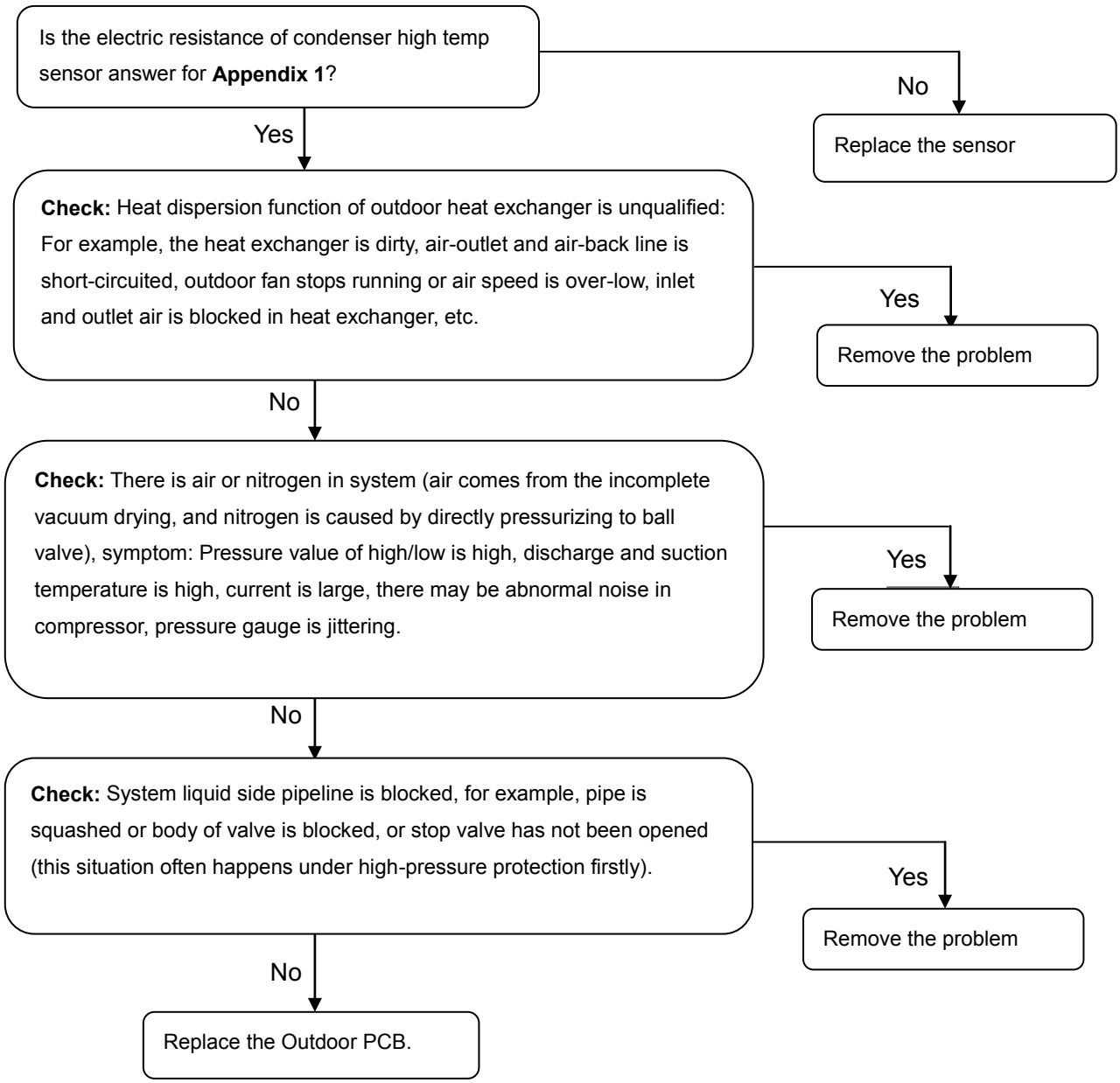
## ⑤ Outdoor fan motor don't run.




## ⑥ Four ways valve don't work.



## ⑦ Condenser high temperature protection



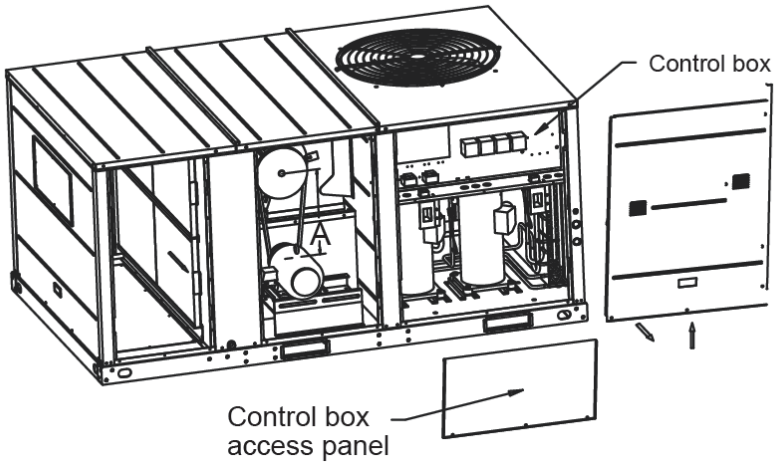
## 2. Accessories

| Name of accessories | Qty | Shape |
|---|---|---|
| Manual | 1 | |
| Drain outlet | 1 |  |
| Snap ring | 1 |  |
| Drain pipe | 1 |  |
| KJR-12B Wired controller | 1 |  |

## 3. Maintenance and Upkeep

Regular maintenance and upkeep

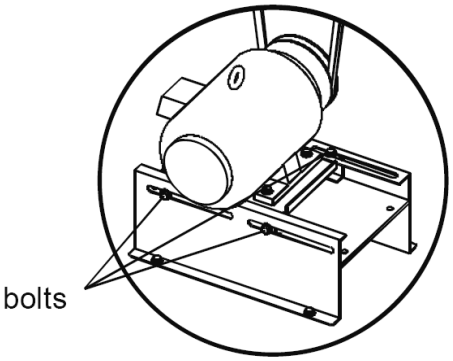
Some regular maintenance and upkeep have been carry on by user, includes: change the one-time dust filter, clean casing, wash condenser and replace a new belt, as well as do some test for the equipment.




| Model | A |
|---|---|
| 6.2 Ton | 328mm |
| 7.5 Ton | 328mm |
| 8.5Ton | 395mm |
| 10 Ton | 395mm |
| 12.5Ton | 620mm |
| 15 Ton | 576mm |
| 17.5 Ton | 576mm |
| 20 Ton | 525mm |
| 30Ton | 925mm |

**Note**：At least 1m flame resistant layer must be laid at the end of the air duct internal surface.

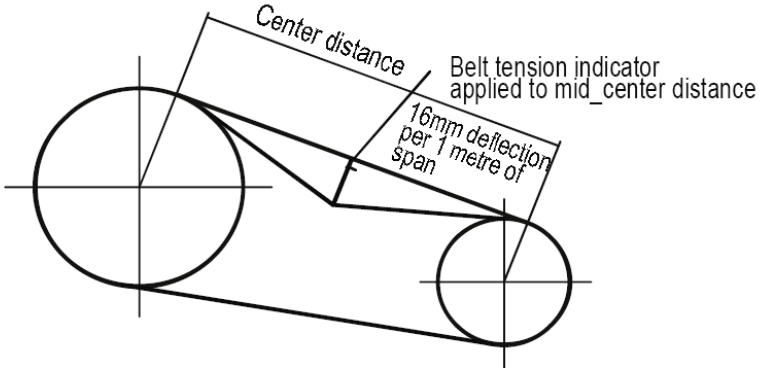
Regulating belt of rate of tension, inner fan Refer to the following *Fig.* fixed bolt of electric motor's supporting slide was loosened, following electric motor was droved, belt of rate of tension will begin change.




Method of belt tensioning using belt tension indicator

Calculate the deflection in mm on a basis of 16mm per meter of center distance

Center distance (m) ×16=deflection (mm).




| Belt section | For required to deflection belt 16 mm per meter of span | | |
|---|---|---|---|
| | Small pulley diameter (mm) | Newton (N) | Kilogram-force (kgf) |
| SPA | 80 to132 | 25 to 35 | 2.5 to 3.6 |
| SPB | 140 to 224 | 45 to 65 | 4.6 to 6.6 |

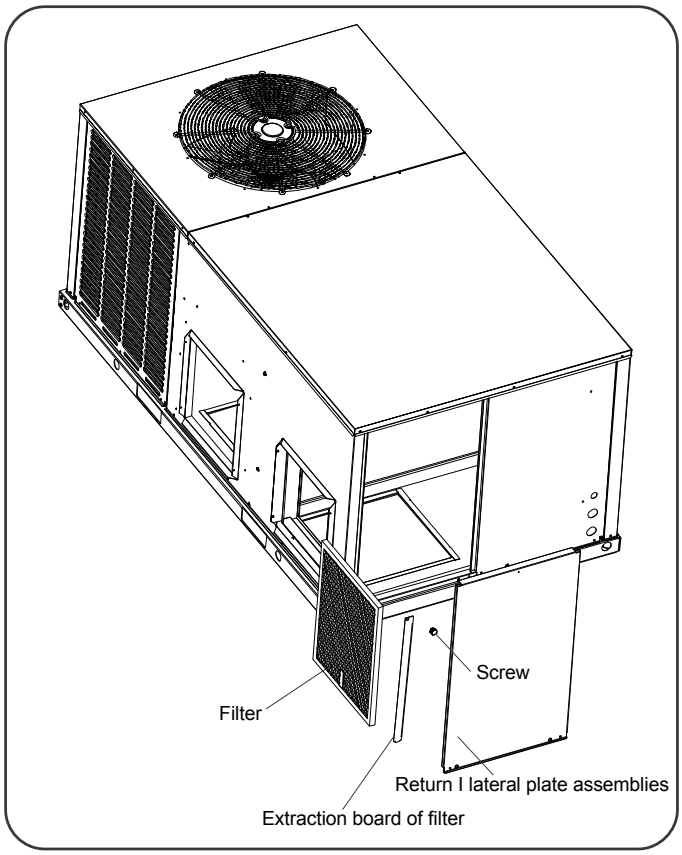
**NOTE**：The belt which is too tight or too loose may generate noise and be harmful to the unit.

**Dismantle the air filter.**

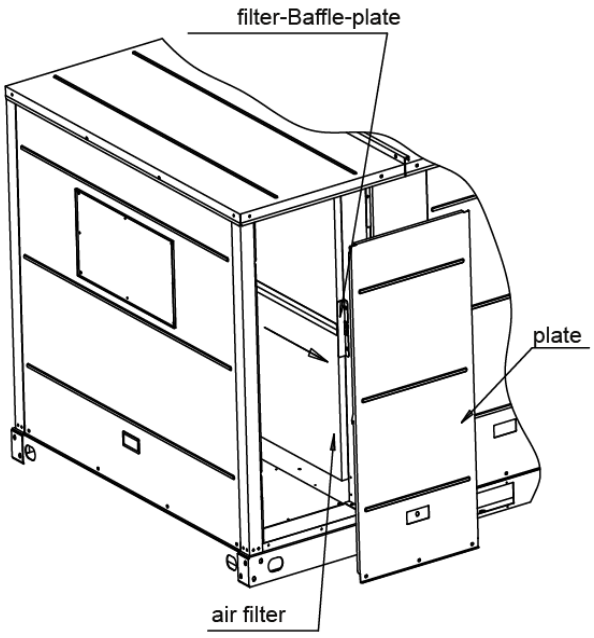
Twist of screws and up the plate that is gets out.

Upon loose the filter-baffle-plate, the filter could be pulled out along the supporting slot.

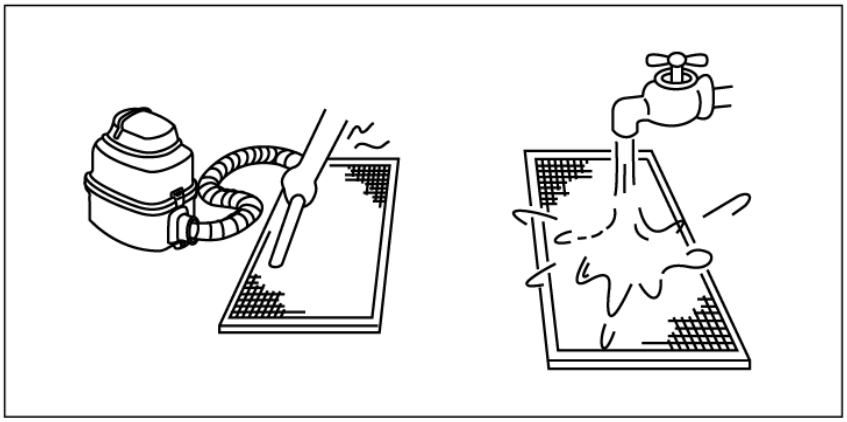
**5ton**




**7.5~30ton**




Clean the air filter (Vacuum cleaner or pure water may be used to clean the air filter. If the dust accumulation is too heavy, please use soft brush and mild detergent to clean it and dry out in cool place).



The air-in side should face up when using vacuum cleaner.
The air-in side should face down when using water.
**CAUTION:** Do not dry out the air filter under direct sunshine or with fire.

**Re-install the air filter**

Condenser coil

Unfiltered air circulates through the unit's condenser coil and can cause the coil's surface to become clogged with dust, dirt, etc. To clean the coil, vertically (i.e., with the fins) stroke the coil surface with a soft-bristled brush. Be sure to keep all vegetation away from the condenser coil area.

Maintenance performed by serviceman.

To keep your unit operating safely and efficiently, the manufacturer recommends that a qualified serviceman check the entire system at least once each year and any other time that you feel one is needed. Your serviceman should examine these areas of your unit:

Filters
Motors and drive system components
Economizer gaskets (for possible replacement)
Safety controls (for mechanical cleaning)
Electrical components and wiring (for possible replacement and connection tightness)
Condensate drain (for cleaning)
Unit duct connections (to see that they are physically sound and sealed to the unit casing)
Unit mounting support (for structural integrity)
The unit (for obvious unit deterioration)

**CAUTION:**

Do not operate the unit without the evaporator fan access panel in place. Reinstall the access panel after performing any maintenance. Operating the unit without the access panel may result in severe personal injury or death.

# Appendix :

## 1. Indoor Temp. and Pipe Temp. Sensor Resistance Value Table (6.2ton and above)

| ℃ | K Ohm | ℃ | K Ohm | ℃ | K Ohm | ℃ | K Ohm |
|---|---|---|---|---|---|---|---|
| -20 | 115.266 | 20 | 12.6431 | 60 | 2.35774 | 100 | 0.62973 |
| -19 | 108.146 | 21 | 12.0561 | 61 | 2.27249 | 101 | 0.61148 |
| -18 | 101.517 | 22 | 11.5000 | 62 | 2.19073 | 102 | 0.59386 |
| -17 | 96.3423 | 23 | 10.9731 | 63 | 2.11241 | 103 | 0.57683 |
| -16 | 89.5865 | 24 | 10.4736 | 64 | 2.03732 | 104 | 0.56038 |
| -15 | 84.2190 | 25 | 10.000 | 65 | 1.96532 | 105 | 0.54448 |
| -14 | 79.3110 | 26 | 9.55074 | 66 | 1.89627 | 106 | 0.52912 |
| -13 | 74.5360 | 27 | 9.12445 | 67 | 1.83003 | 107 | 0.51426 |
| -12 | 70.1698 | 28 | 8.71983 | 68 | 1.76647 | 108 | 0.49989 |
| -11 | 66.0898 | 29 | 8.33566 | 69 | 1.70547 | 109 | 0.48600 |
| -10 | 62.2756 | 30 | 7.97078 | 70 | 1.64691 | 110 | 0.47256 |
| -9 | 58.7079 | 31 | 7.62411 | 71 | 1.59068 | 111 | 0.45957 |
| -8 | 56.3694 | 32 | 7.29464 | 72 | 1.53668 | 112 | 0.44699 |
| -7 | 52.2438 | 33 | 6.98142 | 73 | 1.48481 | 113 | 0.43482 |
| -6 | 49.3161 | 34 | 6.68355 | 74 | 1.43498 | 114 | 0.42304 |
| -5 | 46.5725 | 35 | 6.40021 | 75 | 1.38703 | 115 | 0.41164 |
| -4 | 44.0000 | 36 | 6.13059 | 76 | 1.34105 | 116 | 0.40060 |
| -3 | 41.5878 | 37 | 5.87359 | 77 | 1.29078 | 117 | 0.38991 |
| -2 | 39.8239 | 38 | 5.62961 | 78 | 1.25423 | 118 | 0.37956 |
| -1 | 37.1988 | 39 | 5.39689 | 79 | 1.21330 | 119 | 0.36954 |
| 0 | 35.2024 | 40 | 5.17519 | 80 | 1.17393 | 120 | 0.35982 |
| 1 | 33.3269 | 41 | 4.96392 | 81 | 1.13604 | 121 | 0.35042 |
| 2 | 31.5635 | 42 | 4.76253 | 82 | 1.09958 | 122 | 0.3413 |
| 3 | 29.9058 | 43 | 4.57050 | 83 | 1.06448 | 123 | 0.33246 |
| 4 | 28.3459 | 44 | 4.38736 | 84 | 1.03069 | 124 | 0.32390 |
| 5 | 26.8778 | 45 | 4.21263 | 85 | 0.99815 | 125 | 0.31559 |
| 6 | 25.4954 | 46 | 4.04589 | 86 | 0.96681 | 126 | 0.30754 |
| 7 | 24.1932 | 47 | 3.88673 | 87 | 0.93662 | 127 | 0.29974 |
| 8 | 22.5662 | 48 | 3.73476 | 88 | 0.90753 | 128 | 0.29216 |
| 9 | 21.8094 | 49 | 3.58962 | 89 | 0.87950 | 129 | 0.28482 |
| 10 | 20.7184 | 50 | 3.45097 | 90 | 0.85248 | 130 | 0.27770 |
| 11 | 19.6891 | 51 | 3.31847 | 91 | 0.82643 | 131 | 0.27078 |
| 12 | 18.7177 | 52 | 3.19183 | 92 | 0.80132 | 132 | 0.26408 |
| 13 | 17.8005 | 53 | 3.07075 | 93 | 0.77709 | 133 | 0.25757 |
| 14 | 16.9341 | 54 | 2.95896 | 94 | 0.75373 | 134 | 0.25125 |
| 15 | 16.1156 | 55 | 2.84421 | 95 | 0.73119 | 135 | 0.24512 |
| 16 | 15.3418 | 56 | 2.73823 | 96 | 0.70944 | 136 | 0.23916 |
| 17 | 14.6181 | 57 | 2.63682 | 97 | 0.68844 | 137 | 0.23338 |
| 18 | 13.9180 | 58 | 2.53973 | 98 | 0.66818 | 138 | 0.22776 |
| 19 | 13.2631 | 59 | 2.44677 | 99 | 0.64862 | 139 | 0.22231 |

## 2. Indoor Temp. and Pipe Temp. Sensor Resistance Value Table (5ton)

| Temp | Resistance（KΩ） | | | Resist.tol (%) | | Temp.tol(℃) | |
|---|---|---|---|---|---|---|---|
| （℃） | Rmax | R（t）Normal | Rmin | MAX(+) | MIN(-) | MAX(+) | MIN(-) |
| -20 | 116.539 | 106.732 | 96.920 | 9.19 | 9.19 | 1.59 | 1.59 |
| -19 | 110.231 | 100.552 | 91.451 | 9.63 | 9.05 | 1.57 | 1.57 |
| -18 | 103.743 | 94.769 | 86.328 | 9.47 | 8.91 | 1.56 | 1.55 |
| -17 | 97.673 | 89.353 | 81.525 | 9.31 | 8.76 | 1.54 | 1.54 |
| -16 | 91.990 | 84.278 | 77.017 | 9.15 | 8.62 | 1.53 | 1.52 |
| -15 | 86.669 | 79.521 | 72.788 | 8.99 | 8.47 | 1.51 | 1.50 |
| -14 | 81.684 | 75.059 | 68.815 | 8.83 | 8.32 | 1.49 | 1.48 |
| -13 | 77.013 | 70.873 | 65.083 | 8.66 | 8.17 | 1.47 | 1.47 |
| -12 | 72.632 | 66.943 | 61.574 | 8.50 | 8.02 | 1.45 | 1.45 |
| -11 | 68.523 | 63.252 | 58.274 | 8.33 | 7.87 | 1.44 | 1.43 |
| -10 | 64.668 | 59.784 | 55.169 | 8.17 | 7.72 | 1.42 | 1.41 |
| -9 | 61.048 | 56.524 | 52.246 | 8.00 | 7.57 | 1.40 | 1.39 |
| -8 | 57.649 | 53.458 | 49.492 | 7.84 | 7.42 | 1.38 | 1.37 |
| -7 | 54.456 | 50.575 | 46.899 | 7.67 | 7.27 | 1.35 | 1.35 |
| -6 | 51.456 | 47.862 | 44.455 | 7.51 | 7.12 | 1.33 | 1.32 |
| -5 | 48.636 | 45.308 | 42.150 | 7.35 | 6.97 | 1.31 | 1.30 |
| -4 | 45.984 | 42.903 | 39.977 | 7.18 | 6.82 | 1.29 | 1.28 |
| -3 | 43.490 | 40.638 | 37.927 | 7.02 | 6.67 | 1.27 | 1.26 |
| -2 | 41.144 | 38.504 | 35.992 | 6.86 | 6.52 | 1.25 | 1.24 |
| -1 | 38.935 | 36.492 | 34.165 | 6.70 | 6.38 | 1.23 | 1.21 |
| 0 | 36.857 | 34.596 | 32.440 | 6.53 | 6.23 | 1.21 | 1.19 |
| 1 | 34.898 | 32.807 | 30.810 | 6.38 | 6.09 | 1.18 | 1.17 |
| 2 | 33.055 | 31.120 | 29.271 | 6.22 | 5.94 | 1.16 | 1.15 |
| 3 | 31.317 | 29.528 | 27.815 | 6.06 | 5.80 | 1.14 | 1.12 |
| 4 | 29.681 | 28.026 | 26.440 | 5.90 | 5.66 | 1.12 | 1.10 |
| 5 | 28.138 | 26.608 | 25.140 | 5.75 | 5.52 | 1.10 | 1.08 |
| 6 | 26.682 | 25.268 | 23.909 | 5.60 | 5.38 | 1.07 | 1.06 |
| 7 | 25.310 | 24.003 | 22.745 | 5.45 | 5.24 | 1.05 | 1.03 |
| 8 | 24.016 | 22.808 | 21.644 | 5.30 | 5.10 | 1.03 | 1.01 |
| 9 | 22.794 | 21.678 | 20.601 | 5.15 | 4.97 | 1.01 | 0.99 |
| 10 | 21.641 | 20.610 | 19.614 | 5.00 | 4.83 | 0.99 | 0.97 |
| 11 | 20.553 | 19.601 | 18.680 | 4.86 | 4.70 | 0.96 | 0.94 |
| 12 | 19.525 | 18.646 | 17.794 | 4.71 | 4.57 | 0.94 | 0.92 |
| 13 | 18.554 | 17.743 | 16.955 | 4.57 | 4.44 | 0.92 | 0.90 |
| 14 | 17.636 | 16.888 | 16.160 | 4.43 | 4.31 | 0.90 | 0.88 |
| 15 | 16.769 | 16.079 | 15.406 | 4.29 | 4.19 | 0.88 | 0.85 |
| 16 | 15.949 | 15.313 | 14.691 | 4.15 | 4.06 | 0.86 | 0.83 |
| 17 | 15.174 | 14.588 | 14.014 | 4.02 | 3.94 | 0.84 | 0.81 |
| 18 | 14.442 | 13.902 | 13.372 | 3.89 | 3.81 | 0.81 | 0.79 |
| 19 | 13.748 | 13.251 | 12.762 | 3.75 | 3.69 | 0.79 | 0.76 |
| 20 | 13.093 | 12.635 | 12.183 | 3.62 | 3.57 | 0.77 | 0.74 |
| 21 | 12.471 | 12.050 | 11.634 | 3.50 | 3.46 | 0.75 | 0.72 |
| 22 | 11.883 | 11.496 | 11.112 | 3.37 | 3.34 | 0.73 | 0.70 |
| 23 | 11.327 | 10.971 | 10.617 | 3.25 | 3.23 | 0.71 | 0.68 |
| 24 | 10.800 | 10.473 | 10.147 | 3.12 | 3.11 | 0.69 | 0.66 |
| 25 | 10.300 | 10.000 | 9.700 | 3.00 | 3.00 | 0.67 | 0.63 |
| 26 | 9.848 | 9.551 | 9.255 | 3.11 | 3.10 | 0.69 | 0.66 |
| 27 | 9.418 | 9.125 | 8.834 | 3.21 | 3.19 | 0.72 | 0.69 |
| 28 | 9.010 | 8.721 | 8.434 | 3.31 | 3.29 | 0.75 | 0.71 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 29 | 8.621 | 8.337 | 8.055 | 3.41 | 3.38 | 0.77 | 0.74 |
| 30 | 8.252 | 7.972 | 7.695 | 3.51 | 3.47 | 0.80 | 0.77 |
| 31 | 7.900 | 7.625 | 7.353 | 3.61 | 3.57 | 0.83 | 0.79 |
| 32 | 7.566 | 7.296 | 7.029 | 3.70 | 3.66 | 0.85 | 0.82 |
| 33 | 7.247 | 6.982 | 6.721 | 3.80 | 3.74 | 0.88 | 0.84 |
| 34 | 6.944 | 6.684 | 6.428 | 3.89 | 3.83 | 0.91 | 0.87 |
| 35 | 6.656 | 6.401 | 6.150 | 3.98 | 3.92 | 0.93 | 0.90 |
| 36 | 6.381 | 6.131 | 5.886 | 4.08 | 4.00 | 0.96 | 0.93 |
| 37 | 6.119 | 5.874 | 5.634 | 4.17 | 4.09 | 0.98 | 0.95 |
| 38 | 5.870 | 5.630 | 5.395 | 4.26 | 4.17 | 1.01 | 0.98 |
| 39 | 5.631 | 5.397 | 5.167 | 4.34 | 4.26 | 1.03 | 1.01 |
| 40 | 5.404 | 5.175 | 4.951 | 4.43 | 4.34 | 1.06 | 1.03 |
| 41 | 5.188 | 4.964 | 4.745 | 4.52 | 4.42 | 1.09 | 1.06 |
| 42 | 4.982 | 4.763 | 4.549 | 4.60 | 4.50 | 1.12 | 1.09 |
| 43 | 4.785 | 4.571 | 4.362 | 4.69 | 4.58 | 1.14 | 1.12 |
| 44 | 4.596 | 4.387 | 4.183 | 4.77 | 4.66 | 1.17 | 1.14 |
| 45 | 4.417 | 4.213 | 4.014 | 4.85 | 4.74 | 1.19 | 1.17 |
| 46 | 4.246 | 4.046 | 3.851 | 4.93 | 4.81 | 1.22 | 1.20 |
| 47 | 4.082 | 3.887 | 3.697 | 5.02 | 4.89 | 1.25 | 1.23 |
| 48 | 3.925 | 3.735 | 3.550 | 5.10 | 4.97 | 1.28 | 1.25 |
| 49 | 3.776 | 3.590 | 3.409 | 5.18 | 5.04 | 1.30 | 1.28 |
| 50 | 3.632 | 3.451 | 3.274 | 5.25 | 5.12 | 1.33 | 1.30 |
| 51 | 3.495 | 3.318 | 3.146 | 5.33 | 5.19 | 1.35 | 1.33 |
| 52 | 3.363 | 3.191 | 3.023 | 5.41 | 5.26 | 1.41 | 1.36 |
| 53 | 3.237 | 3.069 | 2.905 | 5.49 | 5.34 | 1.43 | 1.38 |
| 54 | 3.116 | 2.952 | 2.793 | 5.56 | 5.41 | 1.46 | 1.41 |
| 55 | 3.001 | 2.841 | 2.685 | 5.64 | 5.48 | 1.48 | 1.44 |
| 56 | 2.890 | 2.734 | 2.582 | 5.71 | 5.55 | 1.51 | 1.46 |
| 57 | 2.784 | 2.632 | 2.484 | 5.79 | 5.62 | 1.54 | 1.49 |
| 58 | 2.682 | 2.534 | 2.390 | 5.86 | 5.69 | 1.56 | 1.52 |
| 59 | 2.585 | 2.440 | 2.299 | 5.93 | 5.76 | 1.59 | 1.54 |
| 60 | 2.491 | 2.350 | 2.213 | 6.01 | 5.83 | 1.62 | 1.57 |
| 61 | 2.401 | 2.264 | 2.130 | 6.08 | 5.90 | 1.64 | 1.60 |
| 62 | 2.315 | 2.181 | 2.051 | 6.15 | 5.96 | 1.67 | 1.62 |
| 63 | 2.233 | 2.102 | 1.975 | 6.22 | 6.03 | 1.70 | 1.65 |
| 64 | 2.154 | 2.026 | 1.903 | 6.29 | 6.10 | 1.72 | 1.68 |
| 65 | 2.077 | 1.953 | 1.833 | 6.36 | 6.16 | 1.75 | 1.70 |
| 66 | 2.004 | 1.883 | 1.766 | 6.42 | 6.23 | 1.77 | 1.73 |
| 67 | 1.934 | 1.816 | 1.702 | 6.49 | 6.29 | 1.80 | 1.76 |
| 68 | 1.867 | 1.752 | 1.641 | 6.56 | 6.35 | 1.83 | 1.78 |
| 69 | 1.802 | 1.690 | 1.582 | 6.62 | 6.41 | 1.85 | 1.81 |
| 70 | 1.740 | 1.631 | 1.525 | 6.69 | 6.48 | 1.88 | 1.84 |
| 71 | 1.680 | 1.574 | 1.471 | 6.75 | 6.54 | 1.91 | 1.86 |
| 72 | 1.622 | 1.519 | 1.419 | 6.82 | 6.60 | 1.93 | 1.89 |
| 73 | 1.567 | 1.466 | 1.369 | 6.88 | 6.66 | 1.96 | 1.92 |
| 74 | 1.514 | 1.416 | 1.321 | 6.94 | 6.71 | 1.98 | 1.94 |
| 75 | 1.463 | 1.367 | 1.275 | 7.00 | 6.77 | 2.01 | 1.97 |

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