

PACKAGE CHILLER **GTRUST** Water inlet length

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



Troubleshooting

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توجه:

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



1. Troubleshooting

1.1 Failure & Protection Codes of the Module

Code	Trouble		
E0	Water-flow detection error (the third time)		
E1	Power phases sequence failure		
E2	Communication failure		
E3	Total outlet water Temperature sensor failure		
E4	Outlet water temperature sensor in double-pipe heat interchanger error		
E5	Pipe temperature sensor in condenser A error		
E6	Pipe temperature sensor in condenser B error		
E7	Outdoor Temperature sensor failure		
E8	Error of the Air Exhaust Temp. Sensor at Digital Compressor		
E9	Water-flow check trouble(wire controller and control board can recover automatically when the trouble is displayed for the first and second times		
EA	Main unit detect that auxiliary unit's quantity have decreased.		
Eb	Freeze-proof temperature sensor 1 in double-pipe heat interchanger error		
EC	Wire controller can not search the modules on line		
ED	Wire control and module unit communication error		
Ed	1-hour consecutive 4-times PE protection		
EE	Wire control and computer communication error		
EF	Inlet water temperature sensor error		
P0	System A high-pressure protection or discharge gas Temperature protection		
P1	System A low-pressure protection		
P2	System B high-pressure protection or discharge gas Temperature protection		
P3	System B low-pressure protection		
P4	System A current protection		
P5	System B current protection		
P6	System A Condenser high-Temperature protection		
P7	System B Condenser high-Temperature protection		
P8	Digital compressor discharge Temperature protection, $$ when it is above 125 $^{\circ}\mathrm{C}$		
Pb	System anti-freeze protection		
PE	Low-temperature protection of plate heat exchanger		
F1	Wire controller failure		
F2	Failure of reduction of wired controller number at parallel connection of multiple wired controller (reserved)		



1.2 Troubles and Solutions

Troubles	Possible reasons	Solutions
	Air or other gas enter the system	Discharge the gas from refrigerant charging hole, re-vacuuming if necessary
High discharge pressure	Fins are dirty or jammed by some obstacles	Splash the fins of condenser
(Cooling)	The condenser wind flow is insufficient or motor fail High suction pressure	Check the condenser motor, repair it if necessary Refer to the "high suction pressure" part.
	Refrigerant over-charged	Discharge the additional refrigerant
	High surrounding Temp	Measure the surrounding Temp
Law diasharas pressure	Surrounding Temp. is lower	Measure the surrounding Temp
Low discharge pressure (Cooling)	Refrigerant leak or insufficient Low suction pressure	Leak-hunting or recharging Refer to the "low suction pressure"
High suction pressure	Refrigerant over-charged	Discharge the additional refrigerant
(Cooling)	High Temp. of the inlet chilled-water	Check the heat insulation of water pipeline
(Cooming)	Insufficient water flow	Measure the Temp difference between inlet and outlet water,
Low suction pressure (Cooling)	Low Temp. of inlet chilled-water	adjust the water flow Check installation
(Coomig)	Refrigerant leak or insufficient	Leak-hunting or recharging
	Scaling in the evaporator	Descaling
	Water flow Insufficient	Measure the Temp difference between inlet and outlet water, adjust the water flow
High discharge pressure	Air or other gas enter the system	Discharge the gas from refrigerant charging hole, re-vacuuming if necessary.
(Heating)	Scaling in the waterside heat- exchanger	Descaling
	High Temp of outlet cooling water	Check the water Temp
	High suction pressure	Refer to "high suction pressure" part
	Low Temp of cooling water	Check the Temp of cooling water
Low discharge pressure	Refrigerant leak or insufficient	Leak-hunting or recharging
(Heating)	Low suction pressure	Refer to "low suction pressure" part
High suction pressure	High surrounding Temp	Measure the surrounding Temp
(Heating)	Refrigerant over-charged	Discharge the additional
37	Refrigerant insufficient	Recharging
	Air flow insufficient	Check the running direction of the fan
Low suction pressure	Short cycle of air flow	Find the reason which causes short cycle, then eliminate it
(Heating)	Defrosting insufficient	Four-way valve or heat-sensitive resistance failure, replace them if necessary
Compressor stops by anti-freeze	Chilled-water insufficient	Failure of the water pump or water flow switch, maintain or replace them if necessary
protection	Air enters the water system	Discharge the air
(Cooling)	Failure of the heat-sensitive resistance	If failure confirmed, replace it.
Compressor stops by	High discharge pressure	Refer to "high discharge pressure"
High-pressure protection	High-pressure switch failure	If failure confirmed, maintain or replace it if necessary
3 P	<u> </u>	Refer to "high discharge pressure" or "low suction
	High-pressure both of discharge and suction High or low voltage, single phase or unbalance	pressure" parts. Check the voltage which should never exceed or below
Compressor stops by the overload protection	of the phases	20V to the rating.
•	Short circuit of the motor or terminals	Check the motor and the corresponding resistance of the terminals
	Over-load component failure	Replace it
Compressor stops by the inner	High or low voltage	Check the voltage which should never exceed or below 20V to the rating.
Temp sensor or high discharge Temp protection.	High discharge pressure or low suction pressure	Refer to "high discharge pressure" and "low suction pressure" parts.
-	Components failure	Check the inner Temp sensor, when the motor is cool
	Filter blocked before (or after) electric	
Compressor stops by the	expansion valve	Replace filter
low-pressure protection	Low-pressure switch failure	If failure is confirmed, replace it.
The process processes	Low suction pressure	Refer to "low suction pressure" part.
	Compressor liquid pumping caused by the	Adjust the refrigerant volume, check expansion valve and
Abnormal noise caused by	entrance of liquid refrigerant.	suction gas degree of superheat.
compressor	Compressor aging	Replace compressor
	Panel bolt loosed	Fix all components
Other abnormal noise	Insufficient strength of the installation foundation.	Refer to "Unit installation" part
	Current relay open, burning the fuse.	Replace the invalid components
	Open circuit of the control wire	Check the control system connection
	High or low-pressure protection	Refer to the parts above about the failures caused by suction and discharge pressure
	Contactor wire burn out	Replace the invalid components
	Contactor wire burn out	Exchange any two of three phases with each other.
Compressor can't start	Water system failure	Check water system
	Failure code displayed by the wire controller.	Confirm the type of failure and take the corresponding measure.
	"OFF" signal input of "ON/OFF" port	Check the "ON/OFF" port signal, it's "ON" normally.
	· ·	Check the "ON/OFF" port multiple connection wiring in
	Multiple connection failure of "ON/OFF" port	every module, confirm the "red-to-red" and "blue to blue"
	when combination with several modules.	
Air-side heat-eychanger		correspondence
Air-side heat-exchanger over-frosted	when combination with several modules. Four-way valve or heat-sensitive resistance failure. Short cycle of the air flow	



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