



# Troubleshooting

 **CAUTION** Before working in the check

Operate the stop of the equipment before working in the check. And, after the confirmation in the full stop of the equipment. Check after making a breaker “OFF” and heating part temperature's falling to the temperature that doesn't get a burn.

Specified about the malfunction of the following of this chapter.

Malfunction part	Contents	Carrying page
Dry blower	The blower does not rotate.	54
	The blower does overloaded operation and the thermal relay trips.	55
	A little air flow rate of the blower.	56
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	The dry temperature doesn't up and down.	57
Dry inferior	The moisture content of resin does not go down.	58
Controller	The indicator with the PV value of the controller doesn't display the condition of “ON” in primary power and pushes the  switch.	59
Power breaker	The power breaker trips.	59
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	The thermal setting value of every model.	60

Of the checkpoint and disposing method specified from the next page.

Examine before the repair request.

Yet, as for the removing method of a filter, refer to CHAPTER 6. Maintenance.

The dry blower does not rotate.		
Check point	Remedy	Note
Confirm whether or not the indicator of the controller lights up.	Set the primary power and the front power switch in “ON”.	When the following disposal doesn't correct dispose by page 59; [The indicator with the PV value of the controller doesn't display the condition of “ON” in primary power and pushes the <span style="border: 1px solid black; padding: 2px;">CONTROL ON</span> switch.].
Confirm whether or not the <span style="border: 1px solid black; padding: 2px;">RUN/STOP</span> indicator of the controller lights up.	When not lighting up, press <span style="border: 1px solid black; padding: 2px;">RUN/STOP</span> switch. When the indicator doesn't light up even if it pushes the switch, exchange a controller.	When the start timer is set, after the setting time, the dry operation is started.
Open the door of control panel and are there not dissolving and consumption of the magnet point of the electromagnetic switch unit, and At the time of power “ON”, check the opening and shutting motion for the magnet.	When the dissolving, the consumption condition, and the normal operation are impossible, exchange the electromagnetic switch unit.	<u>Tolerance: 2.000.000 times</u>
Confirm whether or not the malfunction character of 『E2』 isn't displayed at the controller indicator.	In the cause of the over load of blower, after repair, open the control panel door and press the reset button of thermal relay.	As for the overloaded cause of the blower, refer to page 55; [The blower does overloaded operation and the thermal relay trips].

The blower does overloaded operation and the thermal relay trips.		
Check point	Remedy	Note
Remove the dry filter and check the filter stuff.	When there are dirt and stuff, blow the clean dry air into the filter and remove the clinging particles.	When the degradation of filter progresses and it isn't possible to remove clinging particles, exchange at the new filter.
Open the door of control panel and are there not dissolving and consumption of the magnet point of the electromagnetic switch unit, and At the time of power "ON", check the opening and shutting motion for the magnet.	When the normal operation are impossible, exchange the electromagnetic switch unit.	<u>Tolerance: 2.000.000 times</u>
Check whether or not the thermal in control panel is set to the standard value.	Refer to [The thermal setting value of every model] and set a thermal to the standard value.	Work after setting primary power to "OFF".

A little air flow rate of the blower.		
Check point	Remedy	Note
Remove the cartridge filter in the filter case and check the filter stuff.	When there are dirt and stuff, blow the clean dry air into the cartridge filter and remove the clinging particles.	When the degradation of cartridge filter progresses and it isn't possible to remove clinging particles, exchange at the new cartridge filter.
Check whether there is not damaging and connection's loosening the connection hose in the dehumidifying unit and in the connection hose between the dehumidifying unit and the dry hopper.	When the hose damages, exchange at the new hose. When there is loosening in the hose connection, tighten up a hose band surely.	After confirm the place of air leak, and stops the unit. Then, perform working if falling to the range where the temperature of the heating part doesn't get a burn.

The change of the dry temperature is large.		
Check point	Remedy	Note
Remove the cartridge filter in the dry filter case and check the filter stuff.	When there are dirt and stuff, blow the clean dry air into the cartridge filter and remove the clinging particles.	When the degradation of cartridge filter progresses and it isn't possible to remove clinging particles, exchange at the new cartridge filter.
Remove the regeneration filter and check the filter stuff.	When there are dirt and stuff, blow the clean dry air into the cartridge filter and remove the clinging particles.	When the degradation of filter progresses and it isn't possible to remove clinging particles, exchange at the new filter.
Refer to the technical manual and confirm each setting of a controller special mode.	When mistaking by the setting value, change to the right setting value.	

The dry temperature doesn't up and down.		
Check point	Remedy	Note
Check whether there is not damaging and connection's loosening the connection hose in the dehumidifying unit and in the connection hose between the dehumidifying unit and the dry hopper.	When the hose damages, exchange at the new hose. When there is loosening in the hose connection, tighten up a hose band surely.	After confirm the place of air leak, and stops the unit. Then, perform working if falling to the range where the temperature of the heating part doesn't get a burn.
Check the cooling water flow and water volume lack.	When cooling water isn't flowing, confirm the open condition of each valve.	The air temperature that is discharged from the dehumidifying unit on operating unit becomes hot and the dry temperature sometimes can not be set to 80~90°C. In this case, always pass cooling water.
Check that the dry heater is broken.	When the heater is broken, replace the heater.	After the unit stop and perform the power breaker "OFF". After falling to the range that the heating part temperature doesn't get a burn, and perform working.

The moisture content of resin does not go down.		
Check point	Remedy	Note
Check the cooling water flow and water volume lack.	When cooling water isn't flowing, confirm the open condition of each valve.	Don't set the water supply pressure for more than 0.49MPa.
Remove the cartridge filter in the dry filter case and check the filter stuff.	When there are dirt and stuff, blow the clean dry air into the cartridge filter and remove the clinging particles.	When the degradation of cartridge filter progresses and it isn't possible to remove clinging particles, exchange at the new cartridge filter.
Remove the regeneration filter and check the filter stuff.	When there are dirt and stuff, blow the clean dry air into the cartridge filter and remove the clinging particles.	When the degradation of filter progresses and it isn't possible to remove clinging particles, exchange at the new filter.
Check whether there is not damaging and connection's loosening the connection hose in the dehumidifying unit and in the connection hose between the dehumidifying unit and the dry hopper.	When the hose damages, exchange at the new hose. When there is loosening in the hose connection, tighten up a hose band surely.	After confirm the place of air leak, and stops the unit. Then, perform working if falling to the range where the temperature of the heating part doesn't get a burn.
Check that the regeneration heater is broken.	When the heater is broken, replace the heater.	After the unit stop and perform the power breaker "OFF". After falling to the range that the heating part temperature doesn't get a burn, and perform working.

The indicator with the PV value of the controller doesn't display the condition of "ON" in primary power and pushes the <b>CONTROL ON</b> switch.		
Check point	Remedy	Note
Check whether or not the front power switch of the control panel becomes "ON".	When not "ON", turn the power switch "ON", and press the <b>CONTROL ON</b> switch once again.	
Check whether or not the circuit protector (CP-1) of the control panel does not become "OFF".	After check of electric wiring and the part in the control panel, set to "ON".	After setting the primary power and the front power switch to "OFF", check.

The power breaker trips.		
Check point	Remedy	Note
Check whether or not the circuit does not the short circuit.	Remove the short circuit.	

The overheat alarm occurs.		
Check point	Remedy	Note
Check whether or not the setting value of dry overheat setting unit. • Setting value The dry overheat setting value: Dry temperature +20	When mistaking by the setting value, set the right value.	Check after setting a power breaker in "OFF" for the shocked prevention.
Remove the cartridge filter in the dry line filter case and check the filter stuff.	When there are dirt and stuff, blow the clean dry air into the cartridge filter and remove the clinging particles.	When the degradation of cartridge filter progresses and it isn't possible to remove clinging particles, exchange at the new cartridge filter.
Remove the regeneration filter and check the filter stuff.	When there are dirt and stuff, blow the clean dry air into the cartridge filter and remove the clinging particles.	When the degradation of filter progresses and it isn't possible to remove clinging particles, exchange at the new filter.
The output of solid state relay takes out.	There is possibility of the inferior condition in solid state relay. After check, perform replace by need.	Check after setting a power breaker in "OFF" for the shocked prevention.
Open the door of the control panel, and inspect whether the drying heater output relay (RY2) in the main circuit board located on the backside of the controller is operating normally.	Replace the drying heater output relay (RY2).	<u>Switching endurance:</u> <u>5 million times or 1 year</u>

The thermal setting value of every model (A)

Power supply	Model	Thermal relay		dry blower (OCR-1)
		Setting value (A)		Setting range (A)
		50Hz	60Hz	50/60Hz
AC200V	DMZ2-40A	2.2	2.0	1.7~2.6
	DMS2-80/120A, DMZ2-80A	3.6	4.0	2.8~4.2
	DMS2-170A, DMZ2-120A	6.4	7.4	5~8
	DMS2-240A	10.0	12.0	9~13
AC220V	DMZ2-40A	2.2	2.0	1.7~2.6
	DMS2-80/120A, DMZ2-80A	3.6	4.0	2.8~4.2
	DMS2-170A, DMZ2-120A	6.4	7.4	5~8
	DMS2-240A	10.0	12.0	9~13
AC380V	DMZ2-40A	1.3	1.2	0.95~1.45
	DMS2-80/120A, DMZ2-80A	2.1	2.3	1.7~2.6
	DMS2-170A, DMZ2-120A	3.7	4.2	2.8~4.2
	DMS2-240A	6.0	7.0	5~8
AC415V	DMZ2-40A	1.3	1.2	0.95~1.45
	DMS2-80/120A, DMZ2-80A	2.1	2.3	1.7~2.6
	DMS2-170A, DMZ2-120A	3.7	4.2	2.8~4.2
	DMS2-240A	6.0	7.0	5~8