



INSTALLATION, MAINTENANCE MANUAL

REFRIGERATED (COMPRESSED) AIR DRYER
Xeroaqua G-Series

GT7055W
GT7075W
GT7095W
GT7120W
GT7150W
GT7200W
GT7250W
GT7300W
GT7400W
GT7480W
GT7710W
GT7960W

- Be sure to read this manual before operating your dryer.
- Keep this manual within the reach of an operator all the time.

C K D Corporation

06-08 7th edition SM-12391-A

販売終了



Safety instructions

This dryer must be operated by a person who has basic knowledge of electric, compressed air, liquid, piping, refrigerant, etc. We are not responsible for any accidents caused when a person who does not have the basic knowledge or who is not well trained installation, operation, repair, etc.

Improper operation may cause poor performance of the dryer or may cause accidents. We applied a variety of safety measures to our dryers, but improper handling of dryers could cause accidents. Thus, be sure to read and fully understand this manual before using them. "Keep this manual together with the dryer".

Caution for safety

Cautions at operation are indicated in the following two ways.



WARNING



CAUTION



WARNING

used when improper handling could kill or seriously harm operators



CAUTION

used when improper handling could harm operators or damage objects



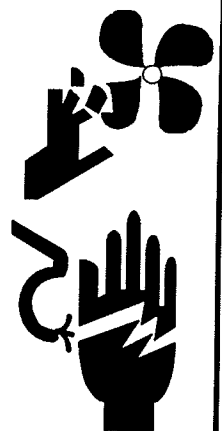
WARNING: ROTATION

- ★The fan may start rotating suddenly and may be harmful. Do not put your hands or objects into the fan area.
- Be sure to turn off the power before inspection.



WARNING: ELECTRICAL SHOCK

- ★Power supply terminal box, switches, etc. may cause you electrical shock.
- Be sure to turn off the power before inspection. Do not operate the dryer with your wet hands.



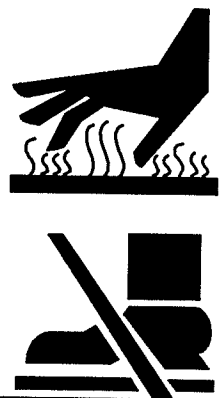
CAUTION: HIGH TEMPERATURE

- ★The dryer is hot for a while after shut down the dryer.
- Be sure to turn off the power and to confirm that dryer becomes cool before inspection.



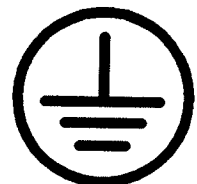
CAUTION: FOOT HOLD

- ★You could fall if you climb on the panel.
- Do not climb on the panel.



EARTH CONNECTION

- ★Be sure to connect earth to prevent electrical shock.



This dryer is industrials. Be sure to fully attend to using the dryer.

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1. Introduction

Thank you very much for purchasing our refrigerated air dryer, Xeroaqua G Series.

This manual explains basic points of operation to have our dryer performs at their best.

Be sure to read this manual before using your dryer.

Keep this manual together with the dryer.

2. Warranty

Assure next contents.

(1) Warranty period

One year from the date of purchase (date on delivery or invoice date).

(2) Repair free of charge (Note: applied dryers to use in Japan)

- a . We will repair your dryer free of charge during the warranty period if it breaks down and is used properly as indicated in this manual and labels on your dryer.
- b . We will charge you repair service fee even during our warranty period if the following apply.
 - * breakdown or damage due to improper operation, repair, or remodeling.
 - * breakdown or damage due to relocation after installation, drop, or transportation damage.
 - * breakdown or damage due to transportation by automobile, ship, etc.
 - * breakdown or damage due to fire, earthquake, flood, thunder, other natural disaster, pollution, salt hazard, gas hazard, abnormal voltage, abnormal water pressure or quality, congelation, or other external causes.
 - * breakdown or damage not caused by your dryer.
 - * travel expense



Warranty valid is only in Japan.

(3) After warranty expiration

Repair costs are needed for you.

(4) Periodical inspection (charge)

Ask us for this service.

(5) No second compensations

Our warranty policy is covered only for our products. We do not compensate for other equipments, products or compensation for business what are caused by this machine's accidents or failures. Please protect second compensations by your warning systems or nonlife insurances.

3. Certificate of pressure vessel

1. Keep the certificate of pressure vessel

This machine is installed a pressure vessel that is applied the second class pressure vessel of boiler and pressure vessel safety regulation by the Japan Ministry of Labor. The machine is shipped with a certificate of the second class pressure vessel. This certificate should be kept carefully with this machine while this machine is operated. (It is not necessary to submit the relevant documents to the labor standard inspection office from October 1, 1990.)

2. Handling for the second class pressure vessel certificate

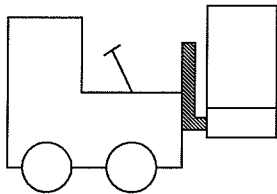
- 1) Second class pressure vessel cannot be transferred, rent, and installed without the requirements of structure. The certificates of the second class pressure vessel supplied with the machine are important documents that certify the pressure vessels meet the requirement for the structure.
- 2) Carefully keep certificates of the second class pressure vessel in a safe place so that it is not damaged, broken, or lost.
- 3) If you want reissue the certificates of second class pressure vessel, it must be within one year from individual inspection. Otherwise, it is absolutely necessary to inspect the pressure vessel again.
- 4) Inspect following items once a year by your self, then please keep those results for three years after installation of second class pressure vessels.
 - ①Check the main body for damage.
 - ②Check the lid tightening bolts for wear.
 - ③Check the piping and valves for damage.



4. Cautions

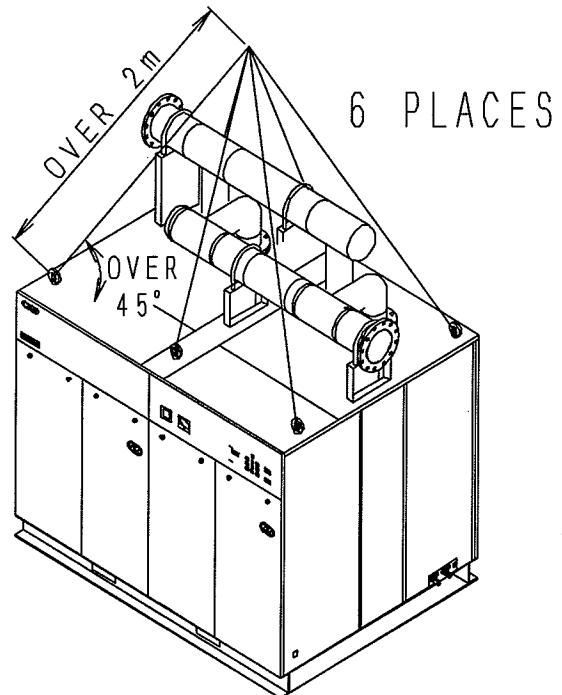
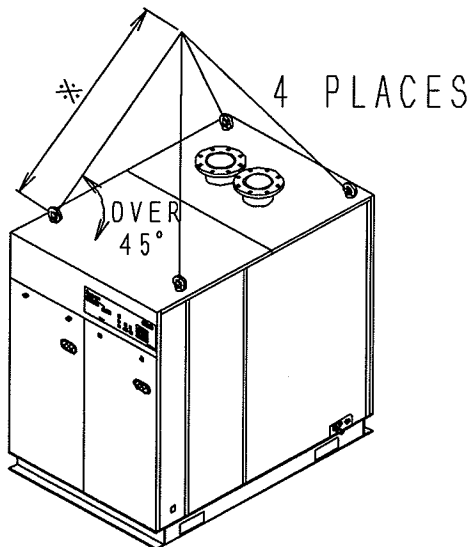
4.1 Transportation

- 1) Always carefully deliver and transport the dryer so that personal injury or damage to the dryer does not occur, because this dryer is heavy.
- 2) The dryer is transported by the lifting fork holes in the dryer base with a forklift or hold the dryer up by putting cable through hooks.



Always put out fork heads of forklift with extending forks when that is transported.

Move by forklift



GT7055W, GT7075W, GT7095W
GT7120W, GT7150W, GT7200W
GT7250W, GT7300W, GT7400W
GT7480W

GT7710W, 7960W

- ※
- GT7055W, 7075W, 7095W, 7120W, 7150W, 7200W, 7250W : OVER 1m
 - GT7300W, 7400W, 7480W : OVER 1.5m

*The dryer fall to the ground and internal parts could get damaged or the forklift fall down.

- 3) Do not fall down the dryer. Also do not give vibration or impact to the dryer.
*Internal parts could get damaged.
- 4) Do not climb up on the dryer or put objects on the dryer.
*Workers could get hurt.

4.2 Operation environment

- 1) Do not install the dryer outdoor.
*This product does not have water-proof structure. Water or rain splashing to its electrical system could result in leak or fire.
- 2) Operating ambient temperature should be 2 to 45°C (no condensation).
*Drain freezes under the temperature of 2°C or below, and this could cause break-down.
Operation under the temperature of 45°C or above could stop the operation abnormally or could shorten the service life of the product.
- 3) Do not use the dryer in a place with direct sun light, powder dust and side of heating elements. Also, place the dryer without corrosive gas, explosive gas, ignitable gas or combustible gas.
*Breakdown, explosion, or fire may result.

4.3 Cautions at operation

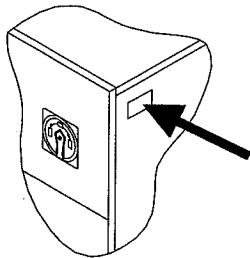
- 1) Do not use the dryer to remove humidity of except compressed air.
*Breakdown, explosion, or fire may result.
- 2) Install an earth leakage breaker on the power supply.
*Electric shock may result.
- 3) Need to earth wiring.
*Causes of an electric shock or a fire.
- 4) Operate the dryer within specification ranges.
*Operation may stop abnormally, or the product's service life may be shortened.
- 5) Do not turn on and turn off the dryer frequently more than 6 times an hour. Keep it running 5 minutes or more before turning it off and hold restarting it on 5 minutes or longer.
Do not operate while 3 minutes after stop this dryer, because the restart prevention circuit is operated.
*Breakdown or shorter service life of the product may result.
- 6) Do not turn on the power switch without enclosures.
*Electric shock or heat injury may result, or rotation parts could hurt workers.
- 7) Do not use the dryer for pneumatic caisson shield or respiratory medical equipment.
*It could cause an accident includes injury.
- 8) Do not use the dryer for transportation devices such as automobile, ship etc.
*Vibration could be a cause of break down of the internal components.



5. Installation

5.1 The beginning.

- 1) Confirm the contents on the label. (Model No., Spec. etc.)



REFRIGERATED AIR DRYER			
①			
POWER	3φ AC380V 50Hz	MAX. PRESS.	1.0 MPa
MAX. AIR TEMP.	② °C	AIR FLOW	⑤ m ³ /min ANR
CURRENT	③ A	MASS	⑥ kg
REFRIGERANT	R407C ④ kg	SERIAL	
CKD		CKD Corporation MADE IN JAPAN	

①	②	③	④	⑤	⑥
GT7055W-AC200V	60	4.0/4.4	0.47	10/11	120
GT7075W-AC200V	60	4.7/5.0	0.65	13.4/14.7	150
GT7095W-AC200V	60	6.4/7.3	0.57	17/19.8	200
GT7120W-AC200V	60	8.0/8.8	1.05	21/24.7	200
GT7150W-AC200V	60	11.0/11.7	1.55	26/31	320
GT7200W-AC200V	60	14.0/14.2	1.8	34/39.5	360
GT7250W-AC200V	60	16.2/16.5	2.5	41/48.5	480
GT7300W-AC200V	60	22.0/23.4	1.55/1.55	50/59.5	710
GT7400W-AC200V	60	28.0/28.4	1.8/1.7	70/82.5	960
GT7480W-AC200V	60	32.4/33.0	2.5/2.5	82/96.5	980
GT7710W-AC200V	60	50.0/51.4	3.7/3.7	123/145	1900
GT7960W-AC200V	60	69/70	6.0/6.0	164/193	2000

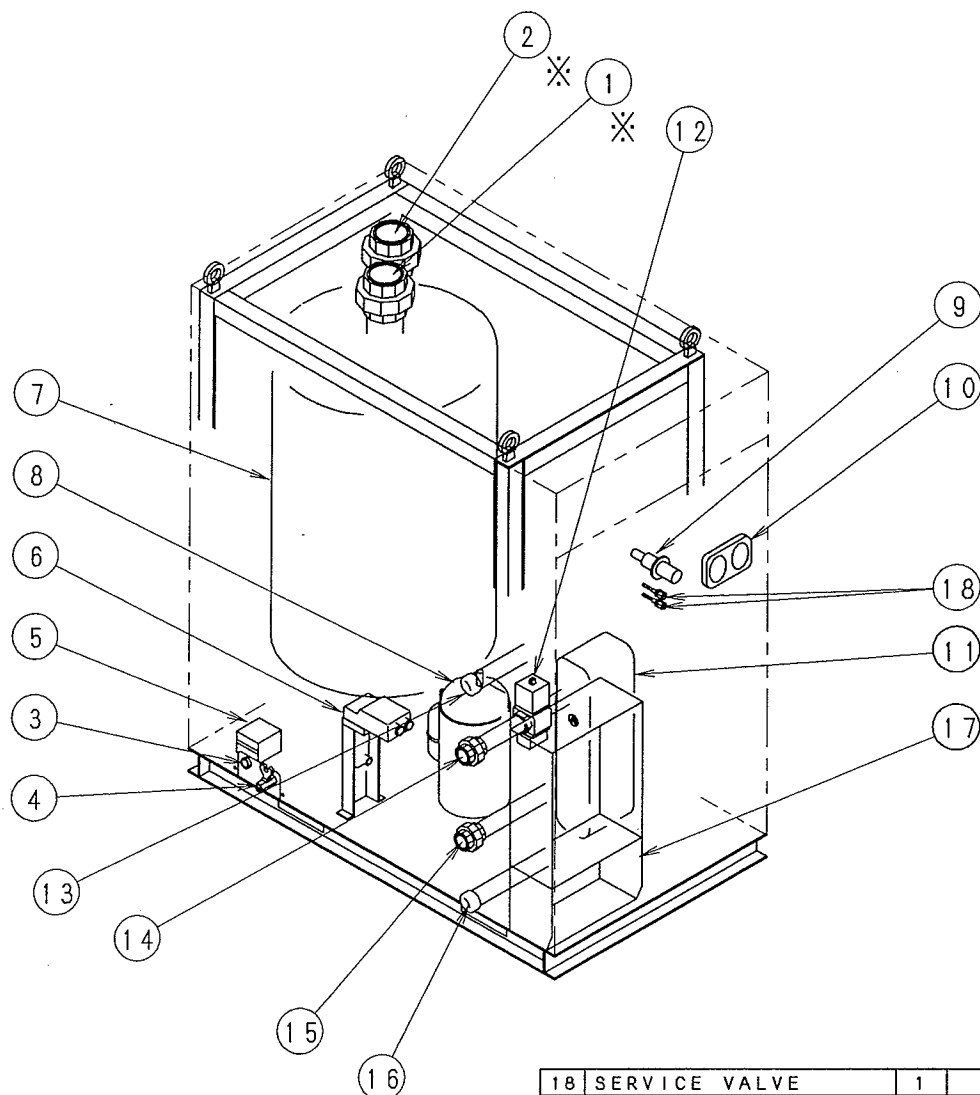
*If the contents are not clear or there are any questions, please contact CKD or distributors before using the dryer.

- 2) Confirm damage or transformation that is made during the transportation.
- 3) Attachment list.

Parts name	Quantity	Remarks
◎Installation, Maintenance manual	1	
◎Owner / Operator manual	1	
◎Certificate of the second class pressure vessel	1 set	

5.2 Structure

5.2.1 GT7055W,7075W,7095W,7120W



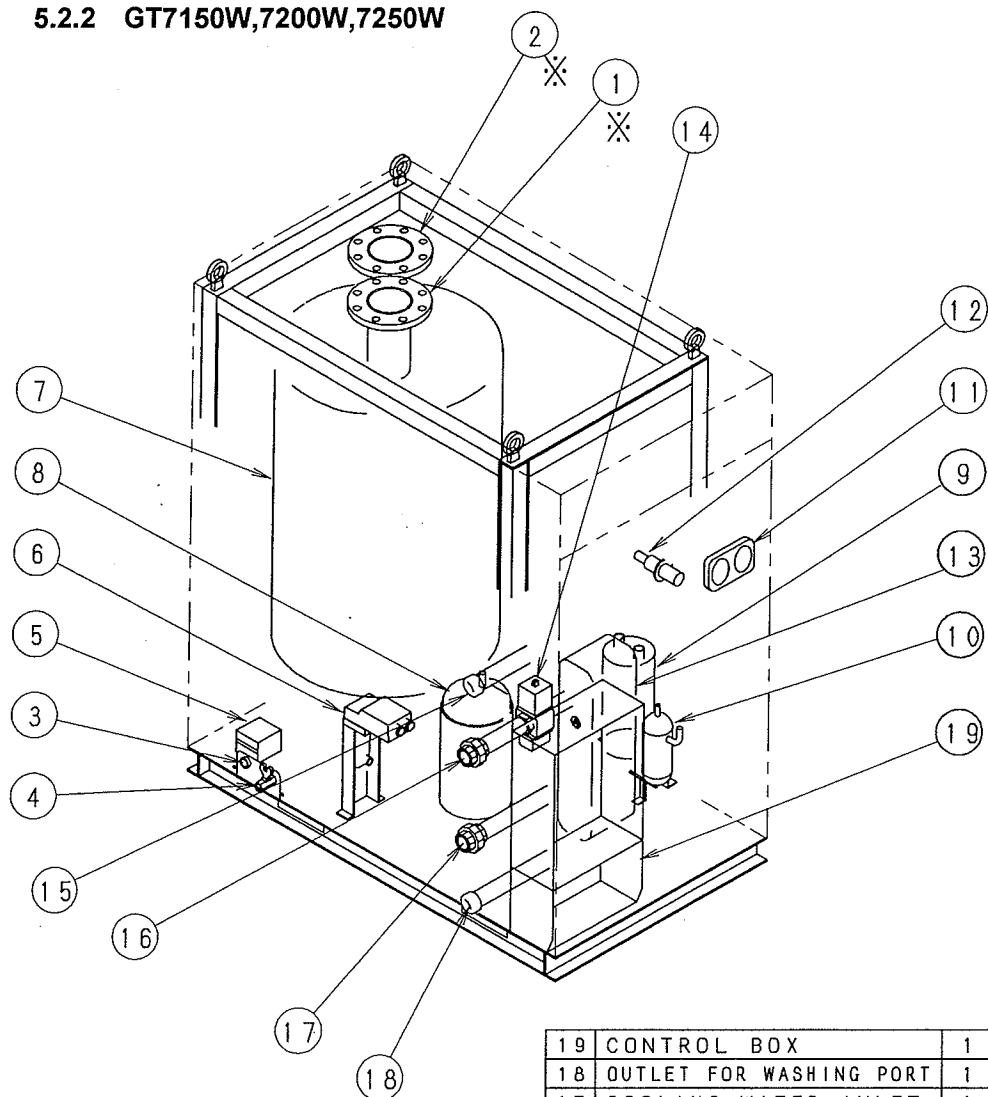
18	SERVICE VALVE	1	
17	CONTROL BOX	1	
16	OUTLET FOR WASHING PORT	1	WITH CAP
15	COOLING WATER INLET	1	WITH UNION
14	COOLING WATER OUTLET	1	WITH UNION
13	INLET FOR WASHING PORT	1	WITH CAP
12	WATER REGULATING VALVE	1	
11	CONDENSER	1	
10	REFRIGERANT PRESSURE GAUGE	1	
9	CAPACITY CONTROL VALVE	1	
8	COMPRESSOR	1	
7	HEAT EXCHANGER	1	
6	DRAIN SENSOR	1	
5	SOLENOID VALVE	1	
4	MANUAL DRAIN OUTLET	1	WITH STOP VALVE
3	DRAIN OUTLET	1	
2	AIR OUTLET	1	
1	AIR INLET	1	
No.	PARTS	Q'TY	REMARK

※ Air inlet and outlet

GT7055W,7075W : Rc2(Union)

GT7095W,7120W : 2 1/2B 10K Flange

5.2.2 GT7150W,7200W,7250W

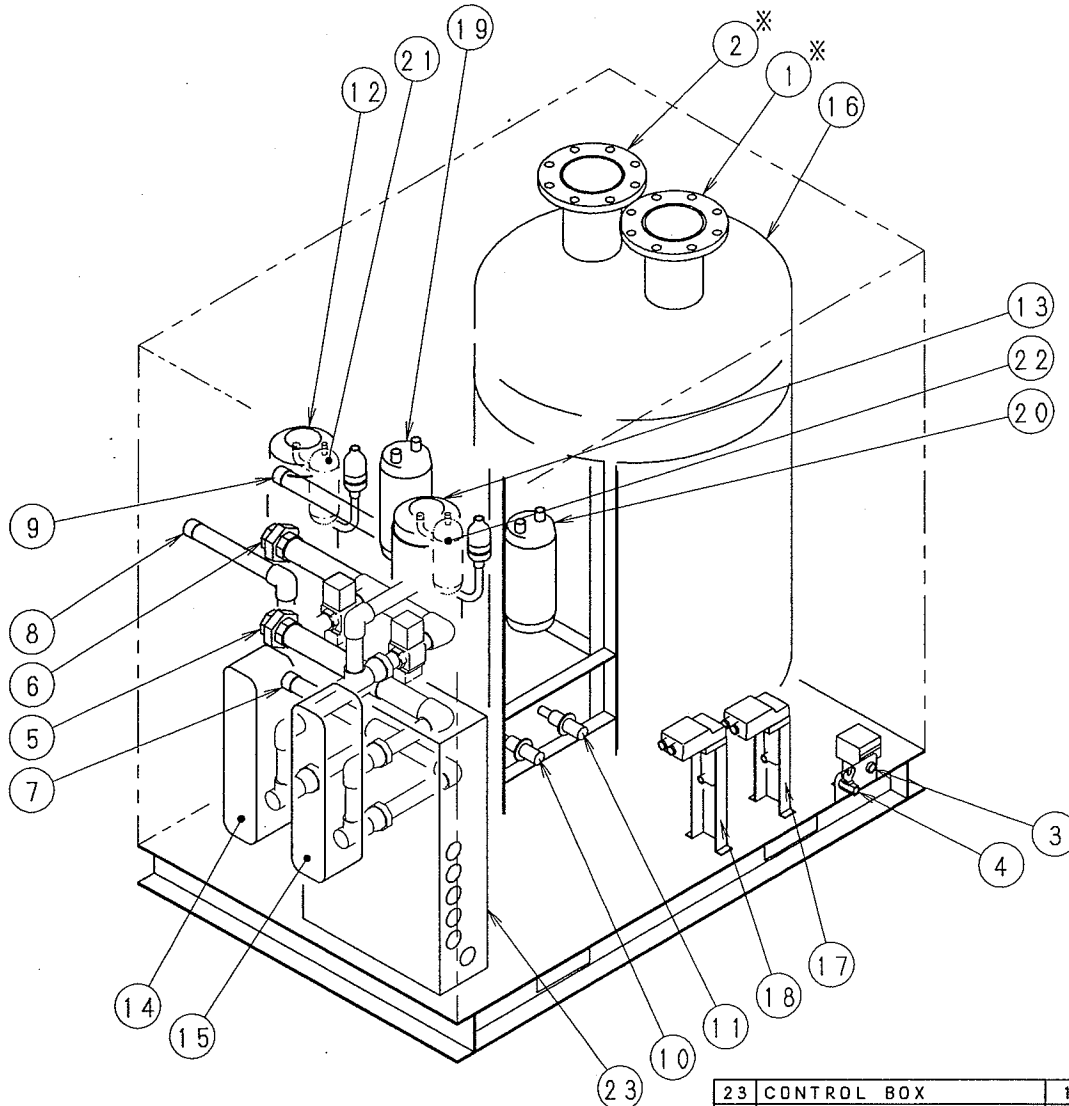


19	CONTROL BOX	1	
18	OUTLET FOR WASHING PORT	1	
17	COOLING WATER INLET	1	
16	COOLING WATER OUTLET	1	WITH CAP
15	INLET FOR WASHING PORT	1	WITH UNION
14	WATER REGULATING VALVE	1	WITH UNION
13	CONDENSER	1	WITH CAP
12	REFRIGERANT PRESSURE GAUGE	1	
11	CAPACITY CONTROL VALVE	1	
10	OIL SEPARATOR	1	
9	ACCUMULATOR	1	
8	COMPRESSOR	1	
7	HEAT EXCHANGER	1	
6	DRAIN SENSOR	1	
5	SOLENOID VALVE	1	
4	MANUAL DRAIN OUTLET	1	WITH STOP VALVE
3	DRAIN OUTLET	1	
2	AIR OUTLET	1	
1	AIR INLET	1	
No.	PARTS	Q'TY	REMARK

※ Air inlet and outlet
GT7150W,7200W
GT7250W

: 3B 10K Flange
: 4B 10K Flange

5.2.3 GT7300W,7400W,7480W

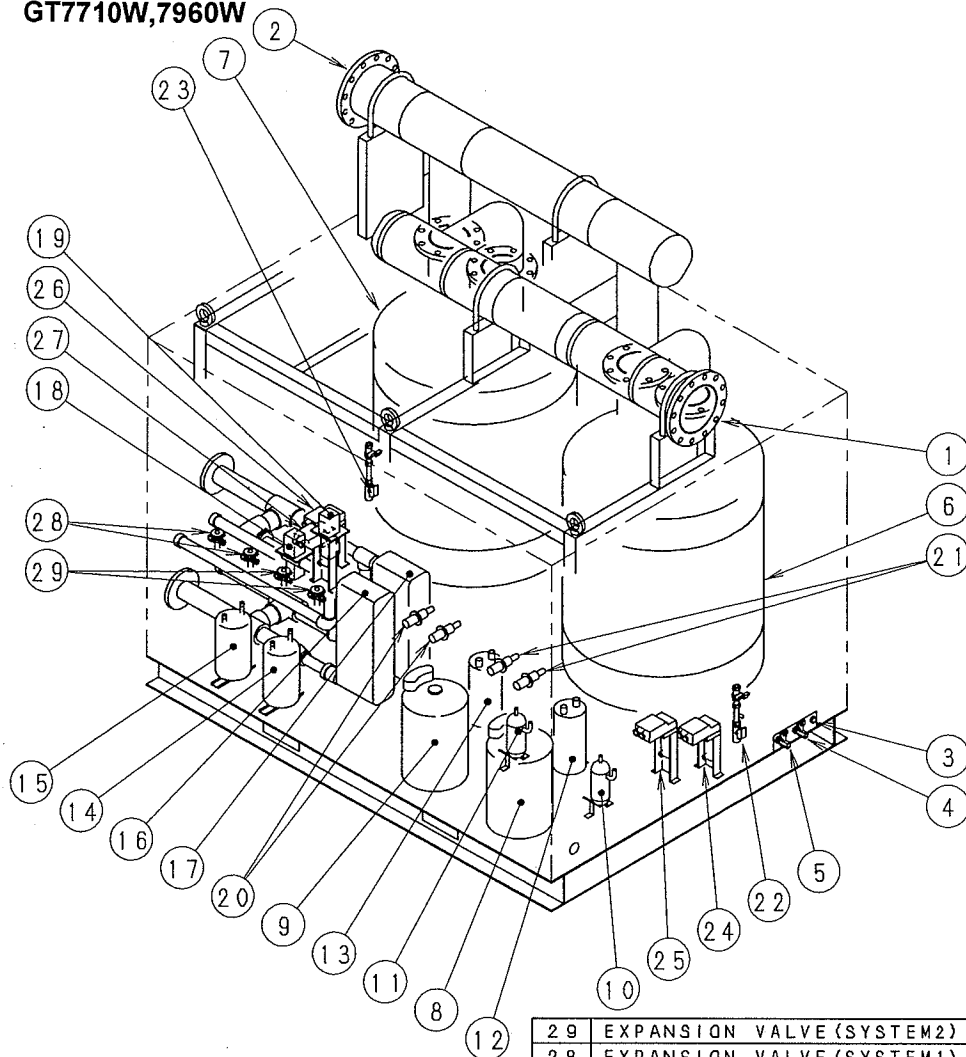


※ Air inlet and outlet

GT7300W : 4B 10K Flange
GT7400W,7480W: 6B 10K Flange

23	CONTROL BOX	1	
22	OIL SEPARATOR (SYSTEM2)	1	
21	OIL SEPARATOR (SYSTEM1)	1	
20	ACCUMULATOR (SYSTEM2)	1	
19	ACCUMULATOR (SYSTEM1)	1	
18	WATER LEVEL SENSOR	1	OVERFLOW
17	WATER LEVEL SENSOR	1	DRAIN OUTLET
16	HEAT EXCHANGER	1	
15	CONDENSER (SYSTEM2)	1	
14	CONDENSER (SYSTEM1)	1	
13	COMPRESSOR (SYSTEM2)	1	
12	COMPRESSOR (SYSTEM1)	1	
11	CAPACITY CONTROL VALVE (SYSTEM2)	1	
10	CAPACITY CONTROL VALVE (SYSTEM1)	1	
9	INLET FOR WASHING PORT (SYSTEM2)	1	
8	INLET FOR WASHING PORT (SYSTEM1)	1	
7	OUTLET FOR WASHING PORT	1	
6	COOLING WATER OUTLET	1	
5	COOLING WATER INLET	1	
4	MANUAL DRAIN OUTLET	1	Rc1/2
3	DRAIN OUTLET	1	Rc1/2
2	AIR OUTLET	1	
1	AIR INLET	1	
No.	PARTS	Q'TY	REMARK

5.2.4 GT7710W,7960W

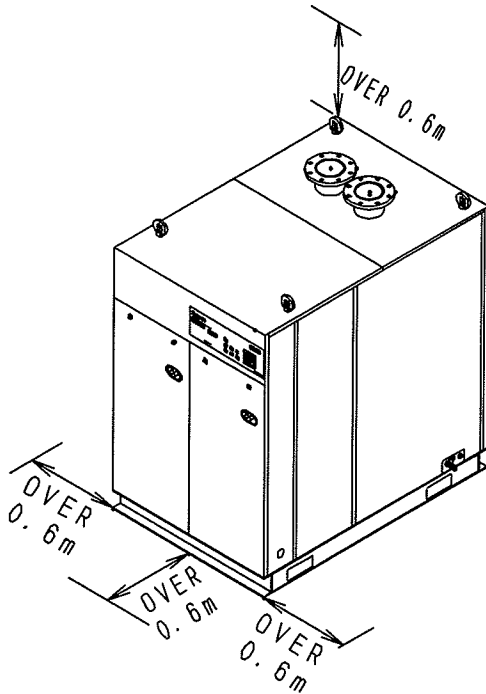


29	EXPANSION VALVE (SYSTEM2)	2	
28	EXPANSION VALVE (SYSTEM1)	2	
27	WATER LEVEL SENSOR	1	OVERFLOW S002
26	WATER LEVEL SENSOR	1	DRAIN OUTLET S001
25	WATER LEVEL SENSOR	1	OVERFLOW S004
24	WATER LEVEL SENSOR	1	DRAIN OUTLET S003
23	SOLENOID VALVE	1	DRAIN OUTLET YF01
22	SOLENOID VALVE	1	DRAIN OUTLET YF02
21	CAPACITY CONTROL VALVE (SYSTEM2)	2	
20	CAPACITY CONTROL VALVE (SYSTEM1)	2	
19	WATER REGULATING VALVE (SYSTEM2)	1	
18	WATER REGULATING VALVE (SYSTEM1)	1	
17	CONDENSER (SYSTEM2)	1	
16	CONDENSER (SYSTEM1)	1	
15	RECEIVER (SYSTEM2)	1	
14	RECEIVER (SYSTEM1)	1	
13	ACCUMULATOR (SYSTEM1)	1	
12	ACCUMULATOR (SYSTEM2)	1	
11	OIL SEPARATOR (SYSTEM1)	1	
10	OIL SEPARATOR (SYSTEM2)	1	
9	COMPRESSOR (SYSTEM1)	1	MO1
8	COMPRESSOR (SYSTEM2)	1	MO2
7	HEAT EXCHANGER (SYSTEM1)	1	
6	HEAT EXCHANGER (SYSTEM2)	1	
5	MANUAL DRAIN OUTLET (SYSTEM2)	1	Rc1/2
4	MANUAL DRAIN OUTLET (SYSTEM1)	1	Rc1/2
3	DRAIN OUTLET	1	Rc1/2
2	AIR OUTLET	1	BB 10K FLANGE
1	AIR INLET	1	BB 10K FLANGE
No.	PARTS	Q'TY	REMARK

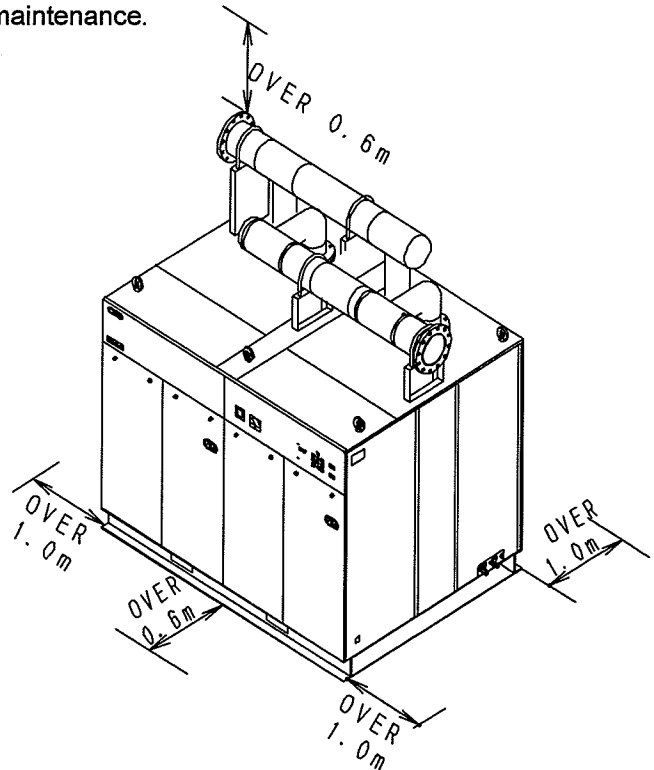


5.3 Installation features

- 1) Do not install the dryer outdoor or high humidity place.
*This product does not have waterproof structure.
Water or rain splashing, high humidity (=85% RH or over) could cause leak or fire to electrical systems.
- 2) Operating ambient temperature should be 2 to 45°C with no condensation.
*Drain freeze under the temperature of 2°C or below, and this could cause breakdown.
Operation under the temperature of 45°C or above could stop the operation abnormally or could shorten the service life of the product.
- 3) Install the dryer without direct sunlight, powder dust, heating elements, corrosive gas, explosive gas, inflammable gas or combustibles.
*Breakdown, explosion or ignition may result.
- 4) The installation floor should have a solid concrete foundation with level and flat surface.
*Weak or inclin foundation may cause noise and vibration.
- 5) Need to keep spaces as a following figure for maintenance.



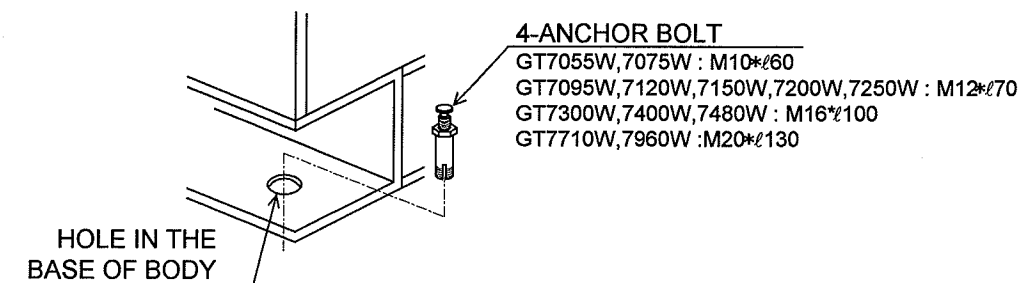
GT7055W,7075W,7095W,7120W,7150W
GT7200W,7250W,7300W,7400W,7480W



GT7710W,7960W

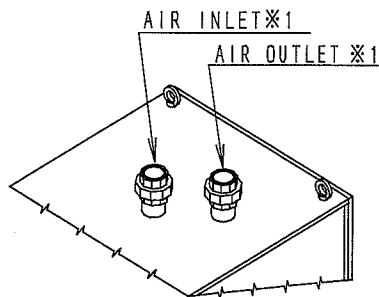
5.3 Fixixation

Fix the dryer body by anchor bolts to avoid the dryer falling due to earthquake or impact.

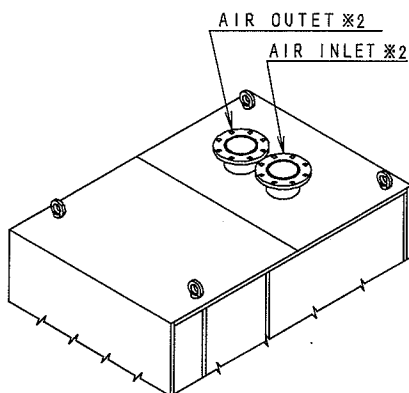


5.5 Air piping

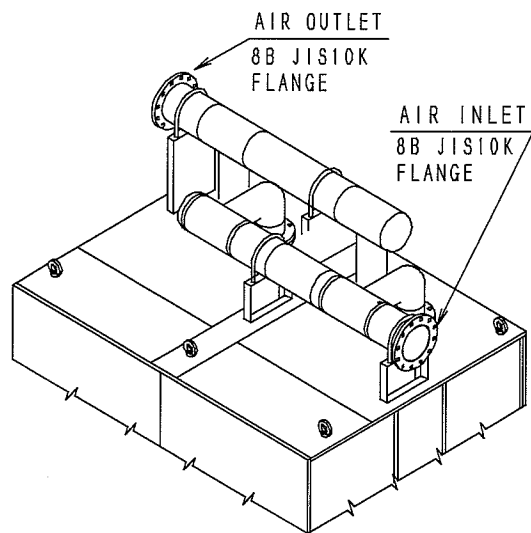
- 1) Confirm which is Air inlet or Air outlet before piping.



GT7055W, GT7075W, GT7095W
GT7120W, GT7150W, GT7200W
GT7250W



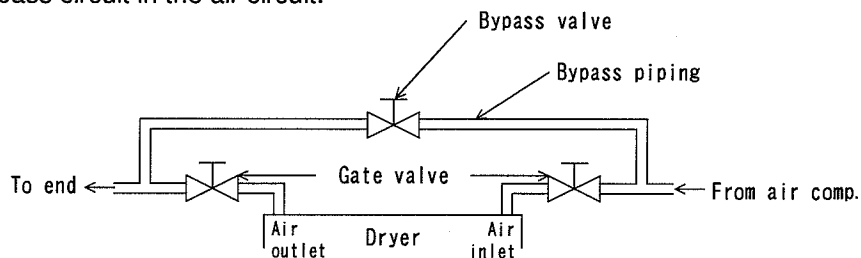
GT7300W, GT7400W GT7480W



GT7710W, GT7960W

※1 GT7055W,7075W	: Rc2 (UNION)	※2 GT7300W	: 4B 10K FLANGE
GT7095W,7120W	: 2 $\frac{1}{2}$ B 10K FLANGE	GT7400W,7480W	: 6B 10K FLANGE
GT7150W,7200W	: 3B 10K FLANGE		
GT7250W	: 4B 10K FLANGE		

- 2) Install a bypass circuit in the air circuit.

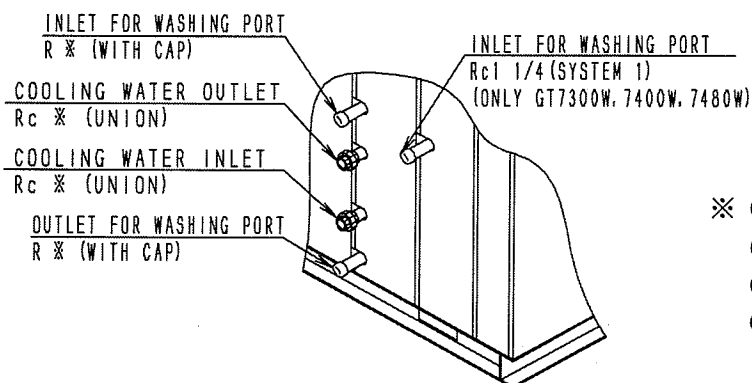


- Make sure that the weight of the piping is not directly exerted on the dryer.
- Make piping without transmitting vibration from the dryer operation on the dryer.
- Piping must be able to endure the operating pressure and temperature.
No air leakage is allowed from pipe connections.
- Use zinc plated steel pipe or stainless steel pipe.
- Make air flushing for pipes before piping to remove dusts.

5.6 Cooling water piping

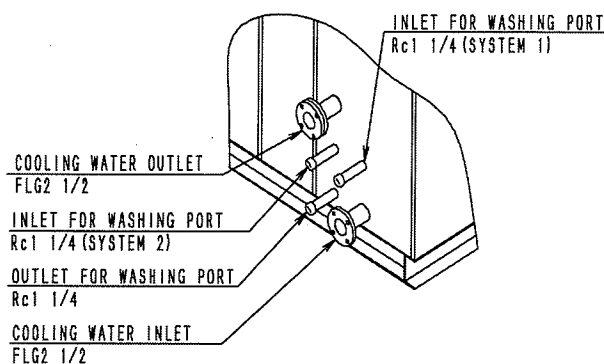
- 1) Confirm cooling water inlet and outlet locations before piping.

GT7055W,7075W,7095W,7120W,7150W,7200W,7250W,7300W,7400W,7480W



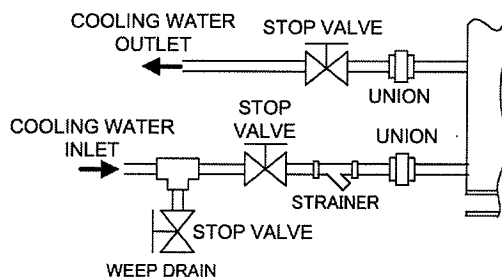
※ GT7055W,7075W : 3/4
GT7095W,7120W,7150W,
GT7200W,7250W,7300W,
GT7400W,7480W : 1 1/4

GT7710W,7960W



- 2) Install a drain port with stop valve on the cooling water inlet line.

COOLING WATER



- 3) Make sure that the weight of the piping is not directly exerted on the dryer.
- 4) Piping must be able to endure the operating pressure and temperature.
No water leakage is allowed from pipe connections.
- 5) Use zinc plated steel pipe or stainless steel pipe.
- 6) Make air flushing for pipes before piping to remove dusts.
- 7) If the ambient temperature of the dryer becomes 2°C or less during winter when the dryer is under suspension, keep warm the dryer with appropriate insulation.
- 8) Since the amount of cooling water shows the value in a rated operating condition, please secure twice (more than) as many amount of water as a rated value supposing the case when dirt and load of a condenser become large.
- 9) Please install a strainer in a cooling water inlet.
- 10) Follow the standards of water quality established by next page for coolant water and the supply.

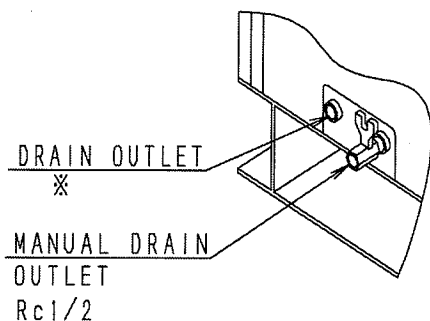
Water quality standard

Parameter	Chemical formula	Unit	Water quality standard
pH	—	pH(25°C)	6.5 to 8.2
Specific electric conductivity	—	mS/m(25°C){ μ S/cm(25°C)}	0.2 to 80{2 to 800}
Chloride ions	Cl ⁻	mg/ℓ (ppm)	200 or less
Sulphate ion	SO ₄ [—]	mg/ℓ (ppm)	100 or less
Alkalinity (pH4.8)	CaCO ₃	mg/ℓ (ppm)	100 or less
Total hardness	CaCO ₃	mg/ℓ (ppm)	200 or less
Calcium hardness	CaCO ₃	mg/ℓ (ppm)	150 or less
Silica	SiO ₂	mg/ℓ (ppm)	50 or less
Iron	Fe	mg/ℓ (ppm)	0.5 or less
Copper	Cu	mg/ℓ (ppm)	0.3 or less
Sulfid ion	S [—]	mg/ℓ (ppm)	No detecting
Ammonium ion	NH ₄ ⁺	mg/ℓ (ppm)	1.0 or less
Residual chlorine	Cl	mg/ℓ (ppm)	0.3 or less
Free carbon	CO ₂	mg/ℓ (ppm)	4.0 or less
Stability index	—		6.0 to 7.0
Mattoson ratio	HCO ₃ ⁻ /SO ₄ [—]		1.0 or more
Hydro carbon ion	HCO ₃ ⁻	mg/ℓ (ppm)	—
Oxygen content		mg/ℓ (ppm)	0.1 or less
Aluminum	Al	mg/ℓ (ppm)	0.2 or less
Manganese	Mn	mg/ℓ (ppm)	0.1 or less
Nitrate ion	NO ₃ ⁻	mg/ℓ (ppm)	100 or less
Sodium ion	Na ⁺	mg/ℓ (ppm)	20 or less
	PO ₄ [—]	mg/ℓ (ppm)	2.0 or less
	NH ₃	mg/ℓ (ppm)	0.5 or less
	Mn ⁺⁺	mg/ℓ (ppm)	10 or less
	H ₂ S	mg/ℓ (ppm)	0.05 or less
Residue on evaporation		mg/ℓ (ppm)	50 or less
Turbidity			2 degrees or less

- Do not use the cooling water containing the ingredient which may deposit in a condenser or cooling-water piping, and may precipitate, or an ingredient with corrosive.
- Use hard water after performing soft water-ized processing.

5.7 Drain piping

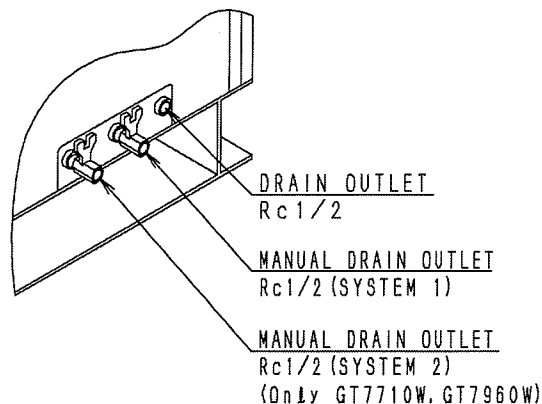
- 1) Confirm the drain outlet location before piping.



GT7055W, GT7075W, GT7095W
GT7120W, GT7150W, GT7200W
GT7250W

View-Bottom on the left side panel

※ GT7095W, 7120W, 7150W, 7200W, 7250W : Rc1/2
GT7055W, 7075W : Rc1/4



GT7300W, GT7400W, GT7480W
GT7710W, GT7960W

View-Bottom on the right side panel

- 2) The drain pipe end should be opened to atmosphere.
- 3) Drain may not be discharged due to back pressure if some pipes rise up from the drain port or the drain pipe is too long or narrow. The drain piping may have declivity for smooth drain flow.
- 4) Fix drain discharge tube firmly, because the tube shakes strongly when drain is discharged automatically by air pressure.
- 5) Drain must be treated if oil is mixed in it. Consult with industrial waste treatment companies about this treatment.
- 6) Please connect drain piping on the manual drain outlet. Please open the manual drain valve once or twice of about ten seconds a week, because contaminant that is accumulated in the pressure vessel need to be exhausted.

5.8 Electrical wiring

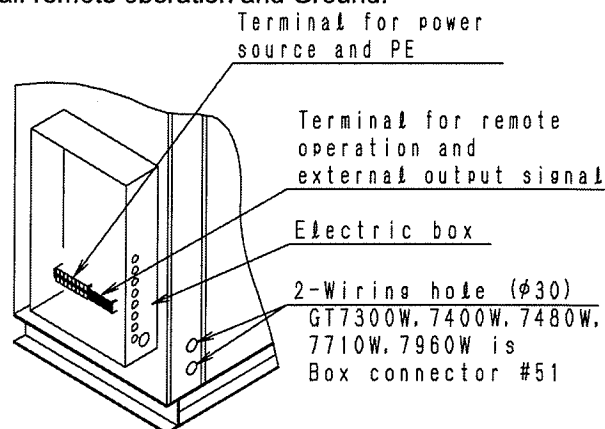
- 1) Supply voltage should be within $\pm 10\%$ of rated voltage.
3 phase / 180~220V AC 50Hz, 180~242V AC 60Hz
- 2) Have an earth leakage breaker with over-load protection that has 100mA sensitivity current on the power supply line.
- 3) Connection for power supply, external output signal, remote operation and Ground.



Insert a power cable, an output signal cable, a remote operation cable and a ground cable to wire each terminals firmly without looseness or coming off.

*Looseness or coming off wiring could causes of a fire.

*Do not wire the ground line to a water pipe, gas pipe, a lighting conductor. It should wire to a ground terminal.



・Recommended electrical wiring

Model #	Breaker capacity(A)	Cable size(mm ²)			
		Length 10m	Length 20m	Length 30m	Length 50m
GT7055W	10	2.0	3.5	5.5	8.0
GT7075W	15	3.5	5.5	5.5	8.0
GT7095W	15	3.5	8.0	8.0	14.0
GT7120W	20	3.5	8.0	8.0	14.0
GT7150W	30	8.0	14.0	22.0	22.0
GT7200W	30	14.0	14.0	22.0	30.0
GT7250W	30	14.0	14.0	22.0	30.0
GT7300W	40	14.0	14.0	22.0	30.0
GT7400W	40	22.0	22.0	22.0	38.0
GT7480W	50	22.0	22.0	30.0	60.0
GT7710W	75	38.0	38.0	60.0	100.0
GT7960W	100	60.0	60.0	60.0	100.0

・Recommended wire is type IV (600V vinyl insulated wire) at ambient temperature is 40 °C.

・Minimum power cable and ground cable sizes are shown by the cable size list as the above chart.

・Number of terminal and connect the wire

Model #	Terminal No.	Terminal size	Description	Type of contact	Mode	Capacity
—	L1	※	Power source	—	—	—
—	L2	※	Power source	—	—	—
—	L3	※	Power source	—	—	—
—	PE	※	Ground	—	—	—
GT7055W	D1-D2	M3	Remote start and stop	Input; non-voltage contact by a pulse input signal	Start at close Stop at open	—
GT7075W GT7095W GT7120W	D3-D4	M3	Operation signal	Output; non-voltage Contact (a-contact)	Close contact at operation	Contact capacity; AC125V/DC110V 2A,62.5VA,30W
GT7150W GT7200W GT7250W	D5-D6-D7	M3	Alarm signal	Output; non-voltage Contact (c-contact)	Close contact at (D5-D7) alarm	Contact capacity; AC125V/DC110V 2A,62.5VA,30W
	D8-D9-D10	M3	Abnormal dew point signal	Output; non-voltage Contact (c-contact)	Close contact at (D8-D10) dew point alarm	Contact capacity; AC125V/DC110V 2A,62.5VA,30W
GT7300W GT7400W GT7480W GT7710W GT7960W	D1-D2	M3	Remote start	Input; non-voltage contact by a pulse input signal	Start at momentary close contact	Minimum 0.5sec
	D3-D4	M3	Remote stop	Input; non-voltage contact by a pulse input signal	Stop at momentary close contact	Minimum 0.5sec
	D5-D6	M3	Operation signal	Output; non-voltage Contact (a-contact)	Close contact at operation	Contact capacity; AC125V/DC110V 2A,62.5VA,30W
	D7-D8	M3	Alarm signal	Output; non-voltage Contact (a-contact)	Close contact at abnormal condition	Contact capacity; AC125V/DC110V 2A,62.5VA,30W
	D9-D10	M3	Abnormal dew point signal	Output; non-voltage Contact (a-contact)	Close contact at abnormal dew point	Contact capacity; AC125V/DC110V 2A,62.5VA,30W
	D11-D12	M3	Drain over-flow signal	Output; non-voltage Contact (a-contact)	Close contact at drain over-flow	Contact capacity; AC125V/DC110V 2A,62.5VA,30W

※GT7055W,7075W : M3.5
 GT7095W,7120W : M4
 GT7150W,7200W,7250W,7300W : M5
 GT7400W,7480W,7710W : M6
 GT7960W : M8

6. Maintenance and check point

6.1 Items of maintenance and check point

Check following items for full performance and longer service life of the dryer.

Checking item	Contents		Checking cycle			
			Daily	Weekly	Monthly	6-Month
"RUN" lamp	"RUN" lamp is lighting.		X			
"DEW POINT" indicator	"DEW POINT" indicator lamp indicates in the green area.		X			
Refrigerant pressure	Before operation	Equivalent to the ambient temperature by HFC407C.		X		
	In operation	0.35~0.6MPa				
Refrigerant high pressure	Before operation	Equivalent to the ambient temperature by HFC407C.		X		
	During operation	1.1~1.9MPa				
Running signal	Check conduction between terminal number ※1 in operation.				X	
Drain switch	When you push "DRAIN" switch on the operation panel, drain is discharged properly.		X			
Condenser	No water scale is sticking in the condenser .			X		X
Refrigerant compressor	No abnormal noise is generated.		X			
Air leak	No air leaks.				X	

※1

D3-D4

GT7055W,7075W,7095W,7120W,7150W,7200W,7250W

D5-D6

GT7300W,7400W,7480W,7710W,7960W

6.2 Please connect drain piping on the manual drain outlet

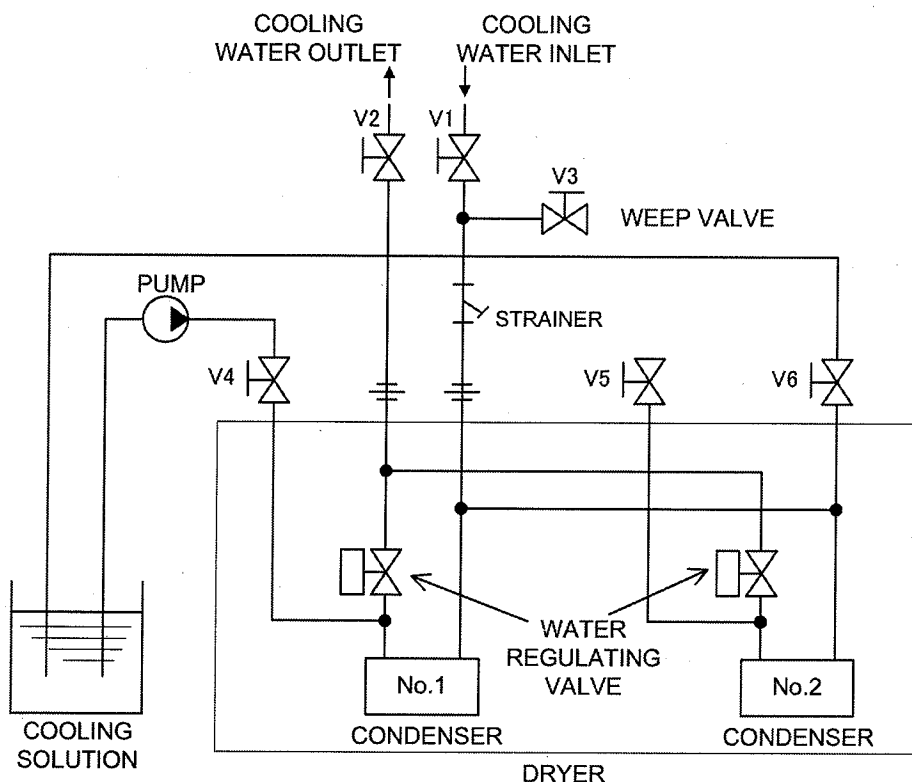
Please open the manual drain valve once or twice of about ten seconds a week, because contaminant that is accumulated in the pressure vessel need to be exhausted.

6.3 Cleaning of condenser

If the condenser is contaminated with water scale, the temperature difference between inlet and outlet cooling water becomes small and the refrigerant high pressure getting higher than normal.
If this phenomenon occur, clean the inside of condenser.



Neglect of cleaning of condenser will cause machine trouble.



Clean up procedure

- 1) Shut down the dryer.
- 2) Install the cleaning circuit as above.
- 3) Open the stop valve V3 to discharge remaining water from the water circuit.
After water has been discharged completely, close the stop valve V3.
- 4) Close the stop valves V1 and V2.
- 5) Open the stop valve V4 and V6, then cleaning the water circuit.
After wash the water cooling pipe line, close manual valve "V4". Subsequently open manual valve "V5", then wash the other line.
Select cleaning solution suitable for cleaning of water scale.
Parts of these condensers are made by copper. Thus, use cleaning liquid that does not corrode copper.
- 6) After cleaning the condensers, drain the cleaning solution, sufficiently. Then, wash the condenser by water well.
Besides, wash the water cooling pipe line by water one side each.
- 7) Close the stop valves V4, V5 and V6 and takes the cleaning circuit out from the water circuit.
- 8) Open the stop valves V1, and V2.
- 9) Pass the cooling water into the circuit and restart the dryer operation.

6.4 Consumables and maintenance parts

(Note: pcs/set is use quantity per 1 set of these devices.)

●Consumables

(The parts which will be exchanged if the state exhausting was checked periodically and it has exhausted.)

Inspect the following parts periodically, and exchange it based on Exchange judgment standard.

Parts name	pcs/set	Inspection frequency	Exchange judgment standard※
Fuse	1	Each time	When being cut off.

※ Be careful that it is not a guarantee value since the operation time (years) indicated changes with operating conditions (ambient temperature, installation environment, etc.). Years are a standard at the time of considering as 12 hours/day (Japan Electrical Manufacturer's Association (JEMA)) x 300 days of operating ratios.

※ We recommend you to keep a fuse as spare parts.

●Periodic maintenance parts (The main parts for which exchange is needed with a use situation)

Check the following parts periodically and exchange them based on standard exchange time.

Parts name	pcs /set	How to exchange	Standard exchange time ※
Compressor	Note(a)	B	20,000 hours (6 years)
Main body of solenoid valve	Note(b)	B	20,000 hours (6 years)
Coil of solenoid valve	Note(b)	A	20,000 hours (6 years)
Electromagnetic switch (For compressor)	Note(a)	A	20,000 hours (6 years)
Solenoid valve	Note(c)	A	20,000 hours (6 years)

※ Keep in mind that it is not a guarantee value since the operation time (years) indicated above changes with operating conditions (ambient temperature, installation environment, etc.). Years are a standard at the time of considering as 12 hours/day (Japan Electrical Manufacturers' Association (JEMA)) x 300 days of operating ratios. Moreover, since time for the rate of failure in the case where you use it above this time to increase is shown, although it is not necessary to necessarily exchange, this exchange time is exchanged when the case where there are abnormalities at the time of check, and preventive maintenance are performed

•How to exchange

A : Those who have the knowledge and experience of piping, electricity, etc. Need to perform exchange of parts.

(When there are not these knowledge and experiences, ask our company or a special contractor.)

B : Before part exchange, refrigerant recovery is required. Moreover, since technical knowledge is needed for exchange work, ask our company or a special contractor.

Note(a) : 1 pcs/set (GT7055W, 7075W, GT7095W, 7120W, 7150W, 7200W, 7250W)
2 pcs/set (GT7300W, 7400W, 7480W, 7710W, 7960W)

Note(b) : 2 pcs/set (GT7150W, 7200W, 7250W) Other models are intact.

Note(c) : 1 pcs/set (GT7055W, 7075W, GT7095W, 7120W, 7150W, 7200W, 7250W, GT7300W, 7400W)
2 pcs/set (GT7710W, 7960W)

6.5 Trouble shooting

Condition		Causes	Measures	
"DEW POINT" lamp does not turn on		Power supply did not turn on.	Turn on the power supply.	
		Main switch did not turn on.	Turn on the main switch.	
		Fuse was failed	FU01	Replace the transformer(TC01).
			FU02	Replace the fuse.
			FU03	Replace the fuse.
			FU04	Replace the transformer(TC02).
		Different power supply phase pattern.	Adjust the phase	
Main control board (SA01) was failed.	Replace the main control board.			
"RUN" lamp does not turn on when the push "START" button.		GT7055W,7075W,7095W,7120W,7150W,7200W,7250W		
		Local-Remote change over switch (SA05) was set at "REMOTE".	Set "LOCAL" on the Local-Remote change over switch.	
		Main control board(SA01) was failed.	Replace the main control board.	
		Start switch(SB01) was failed.	Replace the main control board.	
		GT7300W,7400W,7480W,7710W,7960W		
		Local-Remote change over switch (SA06) was set at "REMOTE".	Set "LOCAL" on the Local-Remote change over switch.	
		Start switch (SA07,08) was set at "OFF".	Set "ON" on the start switch.	
		Run lamp (HL07,08) bulb was failed.	Replace the run lamp bulb.	
		Start switch (SB01) was failed.	Replace the start switch.	
		Dew point is abnormal	Yellow lamp (High temp. side of "DEW POINT" lamp) is turned on.	Refer to "*" mark in water comes out when the dryer is running.
	Dew point sensor(RT01) was short-circuited.		Replace the dew point sensor.	
Yellow lamp (Low temp. side of "DEW POINT" lamp) is turned on.	Ambient temp. was low.		Adjust the temp.(2°C or higher)	
	Inlet air temp. was low.		Adjust the temp.(5°C or higher)	
	Dew point sensor(RT01) was burned out.		Replace the dew point sensor.	
Water comes out when the dryer is running	Dew point is normal, but water comes out to the end of piping	The pipe temp. coming out from the dryer was lower than the dew point.	Insulate the pipe from ambient temp.	
		By-pass circuit is open.	Close the by-pass circuit.	
		Too much flow rate.	Reduce the flow (Less than rated condition.)	
		Low inlet air pressure.	Increase the air pressure.	
		Solenoid valve(YV01) for drain discharge was failed.	Open the manual drain valve	Replace the solenoid valve.
		Drain piping is clogged.		Take apart and clean the drain pipe.
		Too much drain capacity.		Watch drain do not flow in the dryer.
		Drain sensor (SQ01) is broke down.		Replace the drain sensor.
	"DEW POINT" lamp is on, and water comes out to the end of piping.(*)	Over spec the load.	· Reduce the inlet cooling water temp. · Increase the inlet cooling water flow rate. · Reduce the inlet air temp. · Reduce the inlet air temp. · Increase the air press. · Reduce the flow.	
		· High inlet cooling water temp.		
		· Low inlet cooling water flow rate.		
		· Low inlet cooling water press.		
		· High inlet air temp.		
		· Low inlet air press.		
		· Too much flow rate.		
Low or high power supply voltage.	Adjust the voltage.			
GT7150W,7200W,7250W				
Operation mode select switch (SA05) was set at "HALF".	Set "FULL" on the operation mode select switch.			
GT7300W,7400W,7480W,7710W,7960W				
	Start switch (SA07,08) was set at "OFF".	Set "ON" on the start switch.		

Condition		Causes		Measures		
The dryer suddenly stops.	"ALARM" lamp turns on.	Some safety devices were turning on. · Refrigerant gas leakage. · Over spec the load.		Remove causes of problems and reset · Repair the parts leaking gas and refill refrigerant. · Refer the P15 * mark.		
	All the lamps turn off, and the dryer stops.	Power supply was turned off.		Turn on the power supply.		
		Low or high power supply voltage.		Adjust the voltage.		
		Fuse was failed	FU01	Replace the transformer.(TC01)		
			FU02	Replace the fuse.		
			FU03,FU05	Replace the fuse.		
	FU04,FU06		Replace the tranceformer (TC02).			
"RUN" lamp is turns on when the dryer stops.	Momentary power failure.		Wait until the dryer is restarted by automatically. (Reactivate the dryer immediately after power recovery, if instantaneous power failure is less than 0.5 seconds. Also, reactivate the dryer 3 minutes later after power recovery, if instantaneous power failure is less than 2 seconds.)			
"RUN" lamp is turns off, and the dryer stops.	Power failure is occurred more than two seconds.		Please restart after three minutes or more. (Do not operate while 5 minutes after stop this dryre, because the restart prevention circuit is operated.)			
Pressure drop before/after the dryer is too large.		Stopper valves before/after the dryer is closed.		Fully open the valves.		
		Treated flow rate is too large.		Lower the flow rate.		
		Congelation in the dryer.		· Increase ambient temp. · Increase the inlet air temp.		
Drain on pressurized air is exhausted continuously from the drain solenoid valve.		Solenoid valve for drain discharge was failed.		Take apart for clean or replace the solenoid valve.		
		Inlet air temp. sensor was burned out.		Replace the inlet air temp. sensor.		
"DRAIN ALARM" lamp(HL09) is turns on, and "DRAIN OVER-FLOW" signal is output.		GT7300W,7400W,7480W,7710W,7960W				
		Drain discharge circuit was failed or drain pipe is choked up.		Open the manual drain valve	Take apart for clean or replace the solenoid valve.	
		Inlet air temp. sensor was short-circuited.			Exchange the inlet air temp. senser.	

6.6 Long term keeping

If the dryer is not used long term, keep the dryer with the following procedure.

- 1) Close the stop valves before/after the dryer.
- 2) Open the manual drain valve, because contaminant that is accumulated in the pressure vessel need to be exhausted.
- 3) Turn off the power supply and main switch.
- 4) Discharge the remaining water from the water circuit refer to the procedure of 6.3 Cleaning of condenser.
- 5) Put a sheet over the dryer for keeping.

Keep the dryer in a place where environment is the same as the operating specification.

- 6) When the dryer is started again, inspect the dryer parts and start it as the instruction in this manual.

6.7 After sale service

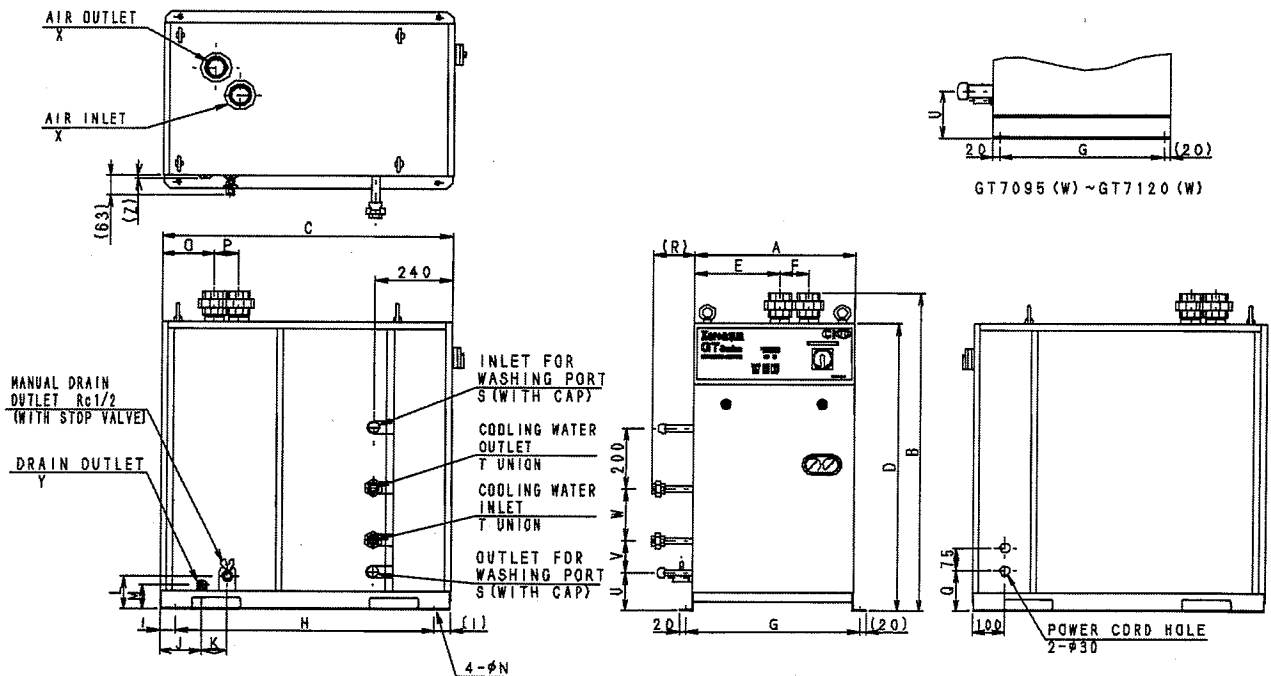
- 1) Contact your store, distributor or CKD you purchased this dryer to request repair services.
- 2) Provide the following information when requesting the repair service.
 - *model number of the dryer.
 - *serial number
 - *date of installation
 - *name of the store where you purchased the dryer
 - *conditions of the dryer
- 3) We will repair your dryer even after the warranty period expires onerously. We will supply parts for seven years after production of your dryer is terminated except special orders.

7. Specifications

Model number			GT7055W-AC200V	GT7075W-AC200V	GT7095W-AC200V	GT7120W-AC200V	GT7150W-AC200V	GT7200W-AC200V	GT7250W-AC200V	GT7300W-AC200V	GT7400W-AC200V	GT7480W-AC200V	GT7710W-AC200V	GT7960W-AC200V
Description														
Using condition	Media		Compressed air											
	Inlet air temp.	℃	5～60											
	Inlet air pressure	MPa	0.2～1.0											
	Ambient temp.	℃	2～45											
	Cooling water press.	MPa	0.2～0.98											
Rated conditions	Air flow rate	m ³ /min ANR	10/11	13.4/14.7	17/19.8	21/24.7	26/31	34/39.5	41/48.5	50/59.5	70/82.5	82/96.5	123/145	164/193
	Inlet air temp.	℃	40											
	Inlet air press.	MPa	0.7											
Performance	Air outlet dew point	℃	10											
	Press. Drop	MPa	0.0096/ 0.0116	0.0107/ 0.0129	0.0052/ 0.0071	0.008/ 0.011	0.009/ 0.013	0.014/ 0.019	0.011/ 0.015	0.011/ 0.015	0.0084/ 0.012	0.012/ 0.016	0.007/ 0.009	0.012/ 0.016
	Cooling water press. drop	MPa	0.019/ 0.023	0.013/ 0.016	0.012/ 0.016	0.019/ 0.025	0.028/ 0.039	0.030/ 0.040	0.032/ 0.045	0.028/ 0.038	0.032/ 0.044	0.036/ 0.050	0.070/ 0.086	0.050/ 0.069
Electric characteristics	Electric power		3 phase AC200V 50Hz, AC200V-220V 60Hz											
	Power consumption	kW	1.11/1.37	1.28/1.60	1.8/2.3	2.1/2.5	2.9/3.5	3.6/4.4	4.2/5.2	5.8/7.0	7.2/8.8	8.4/10.4	13.2/16.0	18.4/22.0
	Operation current	A	4.0/4.4	4.7/5.0	6.4/7.3	8.0/8.8	11.0/11.7	14.0/14.2	16.2/16.5	22.0/23.4	28.0/28.4	32.4/33.0	50.0/51.4	69/70
	Starting current	A	27.5/26.5	46/42	45/42	55/50	93/88	115/108	133/122	104/100	129/122	149/139	310/282	340/298
Refrigerant			R407C											
Piping size of air inlet and outlet			Rc2 (Union)		2 ¹ / ₂ B 10K Flange		3B 10K Flange		4B 10K Flange		6B 10K Flange		8B 10K Flange	
Piping size of drain outlet (main & manual)			Rc1/2,Rc1/4		2-Rc1/2									
Mass	kg		120	150	200	200	320	360	480	710	960	980	1900	2000

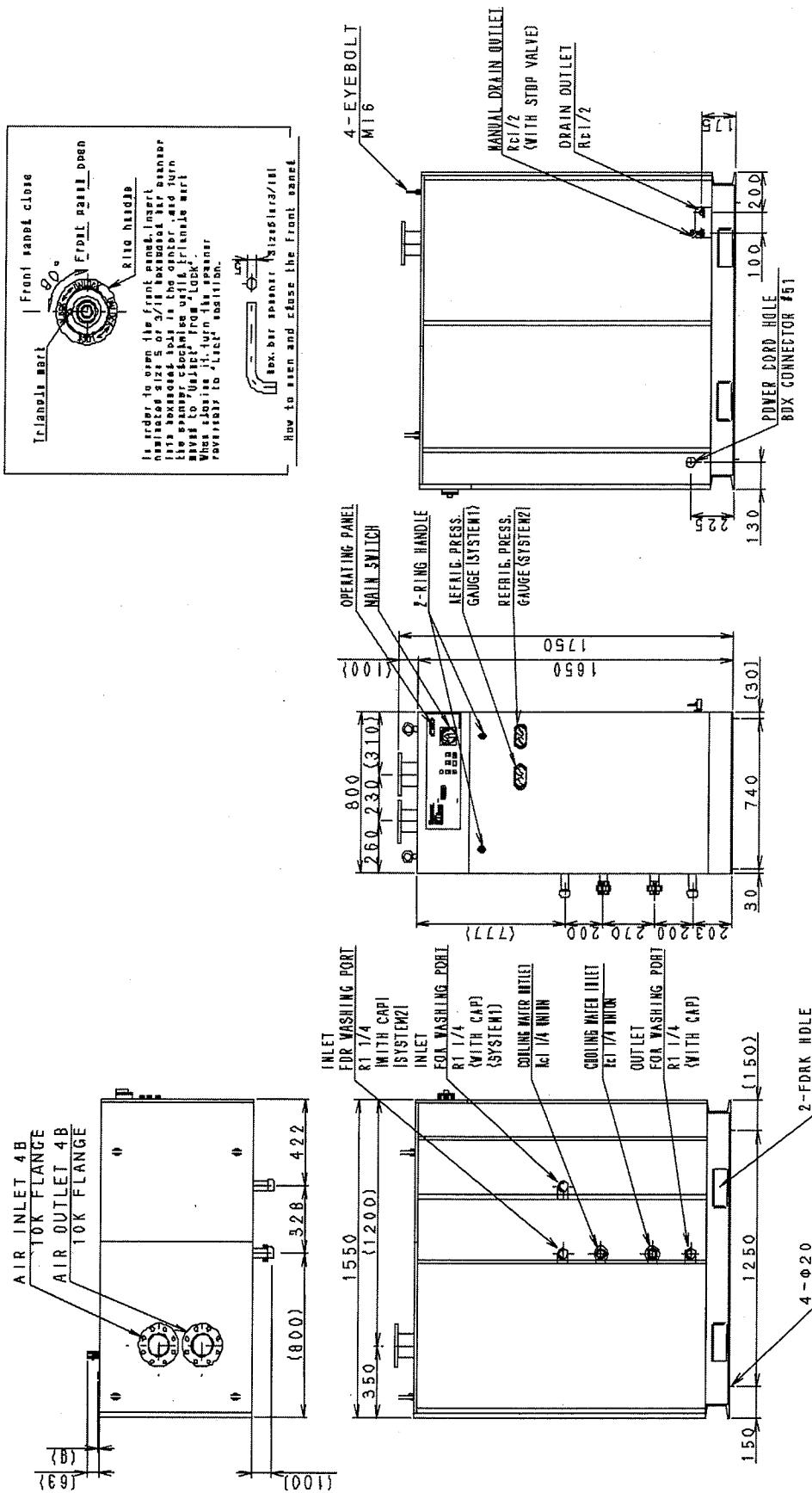
8. Outline drawing

8.1. GT7055W,7075W,7095W,7120W,7150W,7200W,7250W

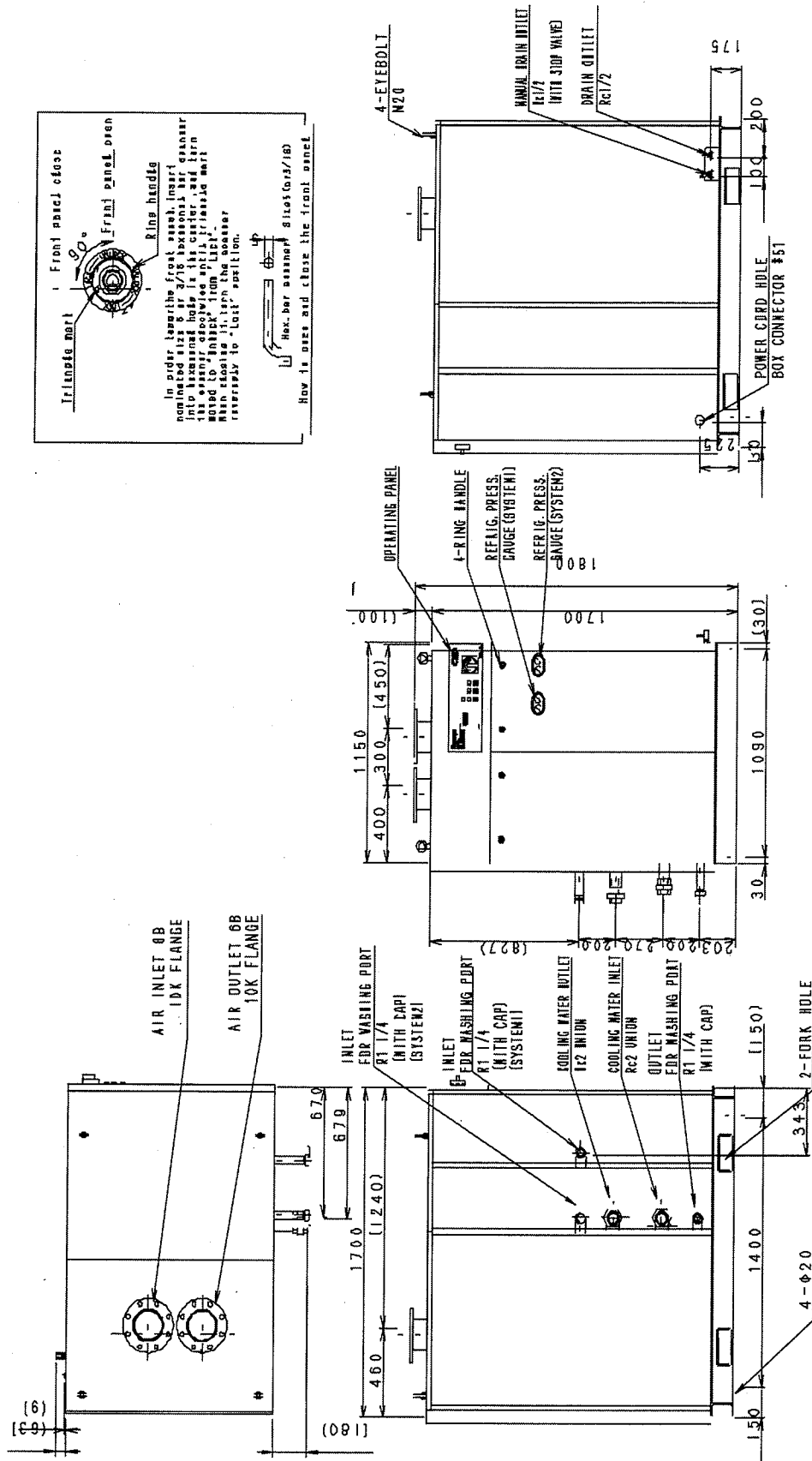


Mark Model#	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
GT7055W	500	1050	900	950	265	90	540	800	50	130	80	110	81	φ 13	162	76	135	100	R ¹ / ₂	R ¹ / ₂	126	105	173	Rc2 Union	Rc1/4	-5
GT7075W	500	1080	1000	980	235	90	540	900	50	130	80	110	81	φ 13	182	76	135	100	R ³ / ₄	R ³ / ₄	126	105	173	Rc2 Union	Rc1/4	-5
GT7095W	550	1175	1100	1100	240	160	510	950	75	150	100	125	125	φ 15	215	90	150	100	R ¹ / ₄	R ¹ / ₄	153	200	270	2 1/2" B Flange	Rc1/2	9
GT7120W	550	1175	1100	1100	240	160	510	950	75	150	100	125	125	φ 15	215	90	150	100	R ¹ / ₄	R ¹ / ₄	153	200	270	2 1/2" B Flange	Rc1/2	9
GT7150W	650	1375	1200	1300	300	140	610	1000	100	150	100	125	125	φ 15	230	140	150	100	R ¹ / ₄	R ¹ / ₄	153	200	270	3B Flange	Rc1/2	9
GT7200W	700	1375	1200	1300	330	140	660	1000	100	150	100	125	125	φ 15	230	140	150	100	R ¹ / ₄	R ¹ / ₄	153	200	270	3B Flange	Rc1/2	9
GT7250W	750	1600	1300	1500	292	156	710	1100	100	200	100	125	125	φ 15	242	156	150	100	R ¹ / ₄	R ¹ / ₄	153	200	270	4B Flange	Rc1/2	9

8.2. GT7300W

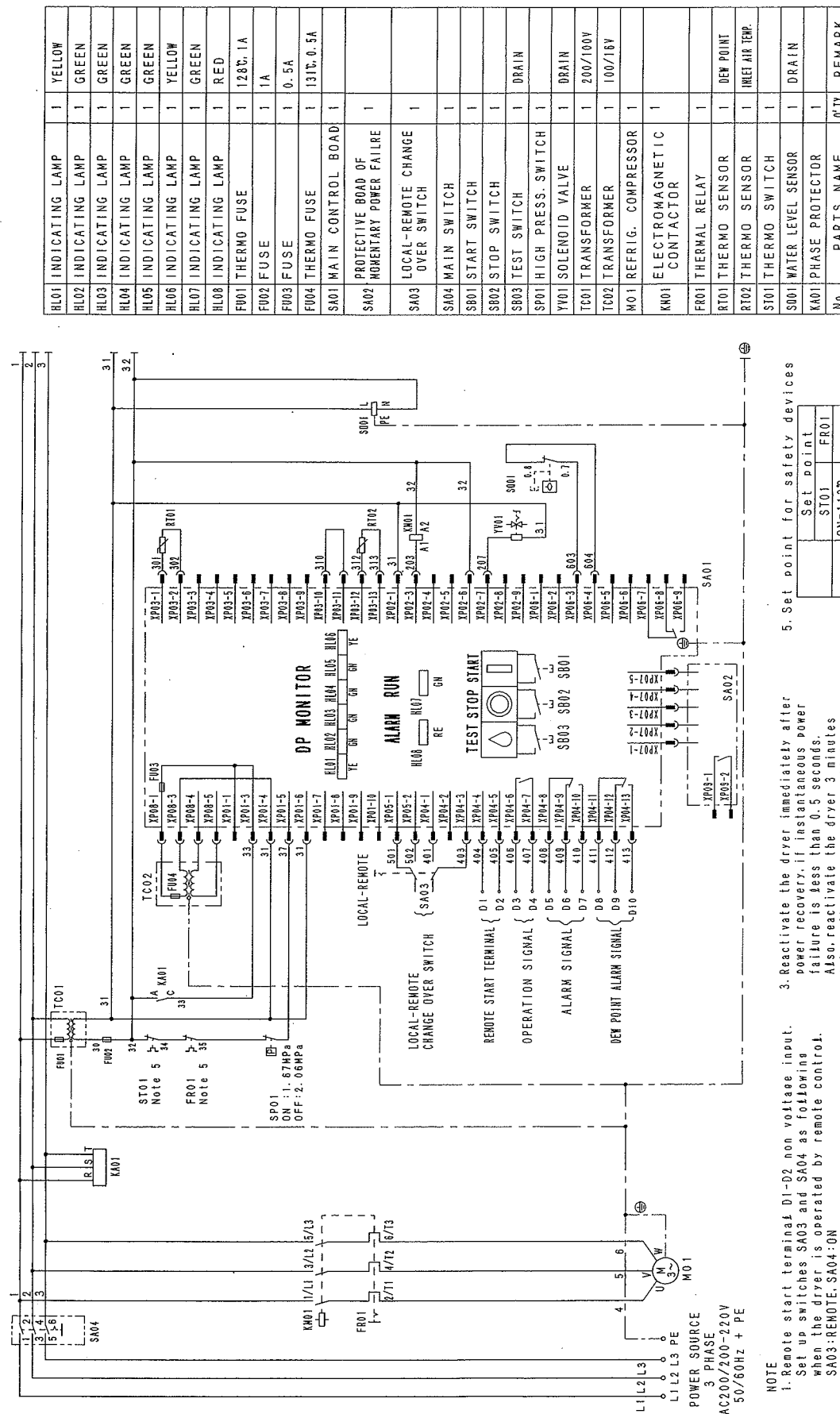


8.3. GT7400W,7480W



9. Electrical circuit diagram

9.1. GT7055W,7075W,7095W,7120W



5. Set point for safety devices

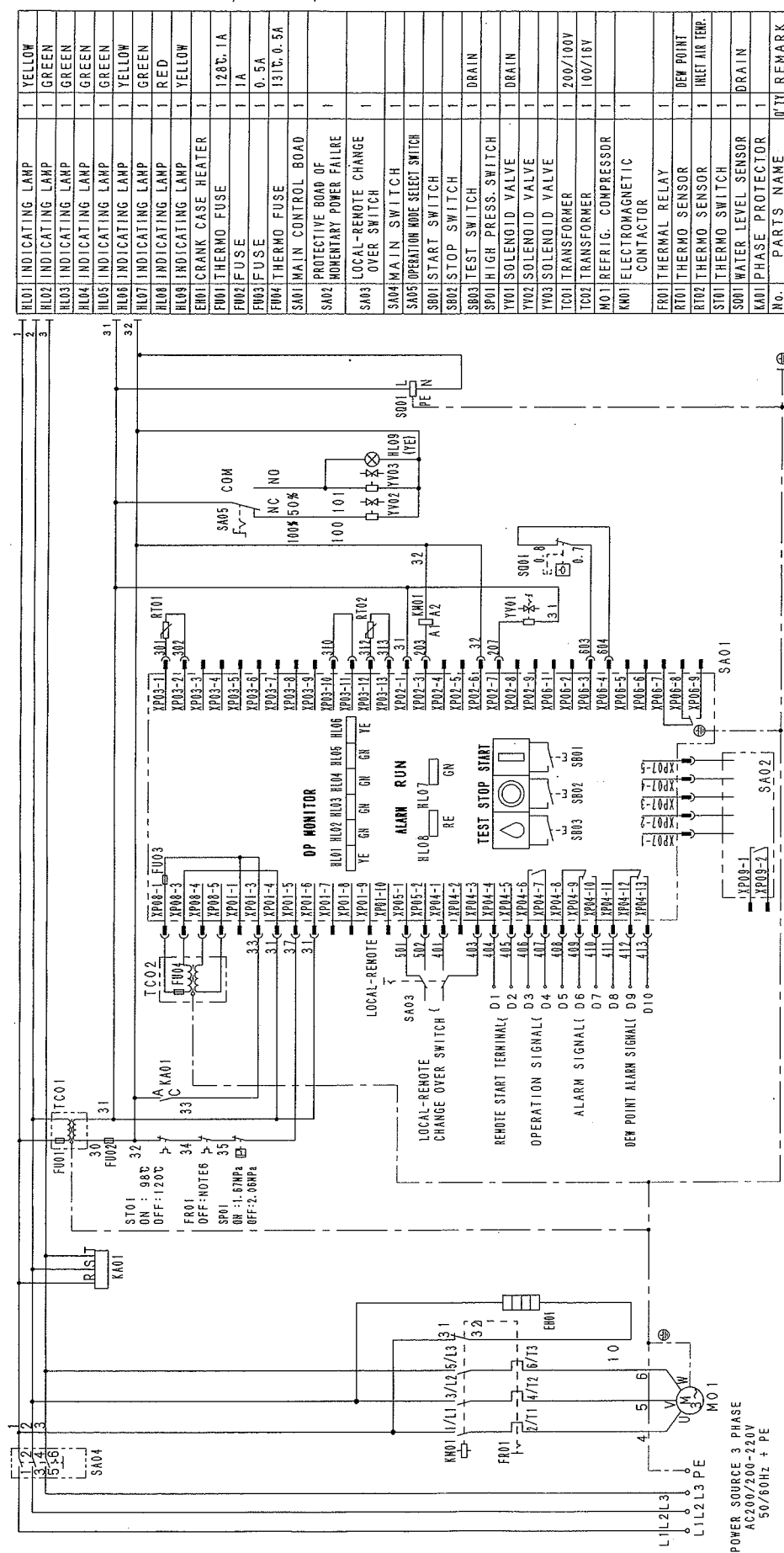
	Set point
ST01	FR01
GT7055W	ON=113°C OFF=135°C OFF=9A
GT7075W	ON=85°C OFF=115°C OFF=12A
GT7095W	ON=85°C OFF=115°C OFF=14A
GT7120W	

3. Reactivate the dryer immediately after power recovery, if instantaneous power failure is less than 0.5 seconds. Also, reactivate the dryer 3 minutes later after power recovery, if instantaneous power failure is less than 2 seconds.
4. Do not operate white 5 minutes after stop this circuit, because the restart prevention circuit is operated.

NOTE
1. Remote start terminal D1-D2 non voltage input. Set up switches SA03 and SA04 as following when the dryer is operated by remote control. SA03: REMOTE, SA04: ON

2. Operation signal is non voltage a-c contact. alarm, dew point alarm signal are non-voltage c-contact. (Operation: 03-04 close, Alarm: 05-07 close, Dew point alarm: 08-010 close)
Contact capacity: 125VAC/110VDC, 2A, 62.5VA, 30W

9.2. GT7150W,7200W,7250W



NOTE

1. Remote start terminal DI-D2 non voltage input.
Set up switches SA03 and SA04 as following
when the driver is operated by remote control.
SA03: REMOTE; SA04: ON
- Relay ┌───○01
└───○02
2. Operation signal is non voltage a-contact, a-
alarm, dew point alarm signal are non-voltage
c-contact. (Operation: 03-04 close. Alarm: 05-07
close. Dew point alarm: 08-010 close)
Contact capacity: 125VAC/10VDC; 2A; 62-5VA; 30W

3. Reactivate the dryer immediately after power recovery, if instantaneous power

failure is less than 0.5 seconds. Also, reactivate the dryer 3 minutes later after power recovery, if instantaneous power failure is less than 2 seconds.

power failure is less than 2 seconds.

4. Do not operate while 5 minutes after stop this dryer, because the restart prevention circuit is operated.

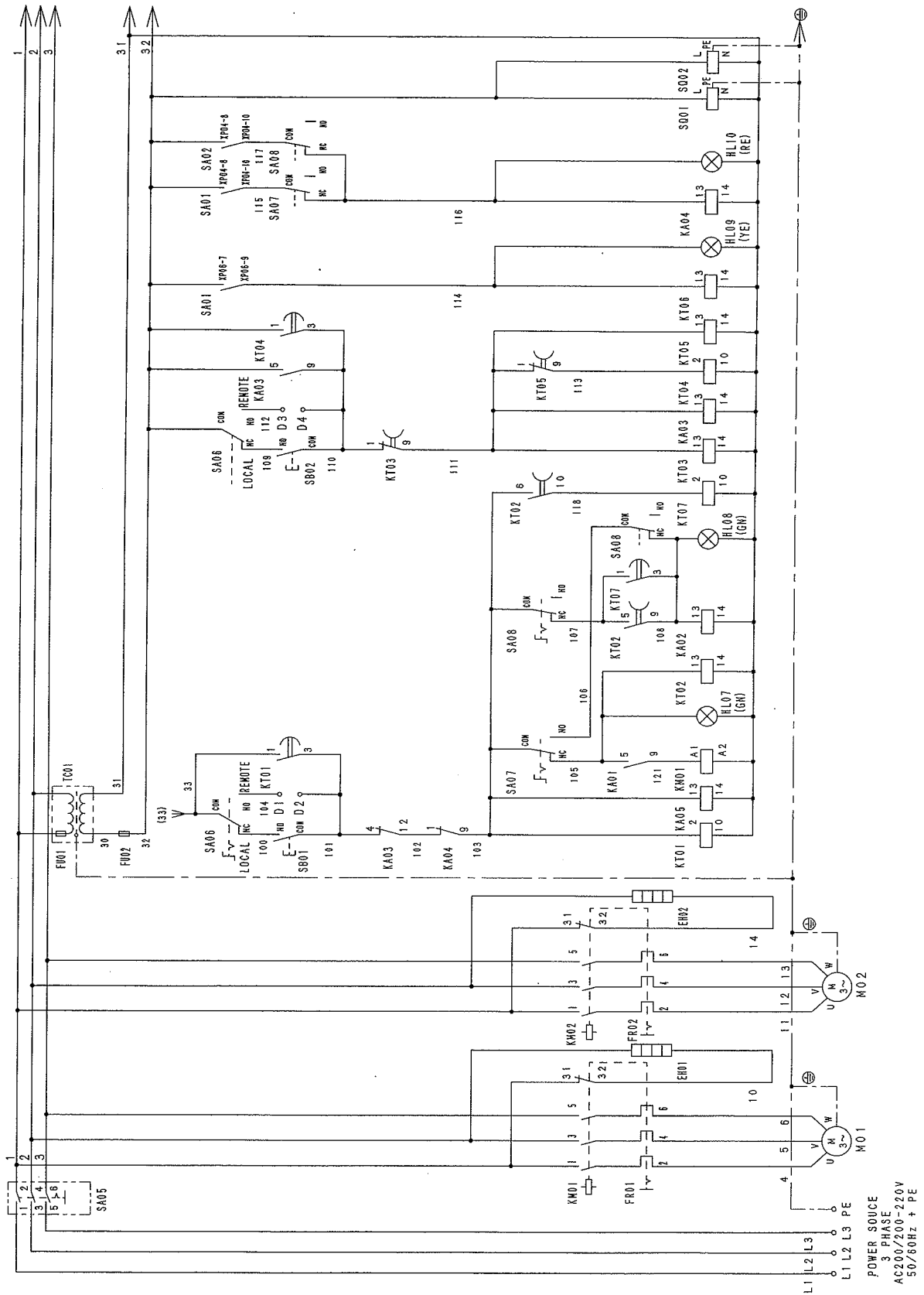
5. Do not turn off main power supply and main switch while the dryer is stop, because crank case need to be heated by electric heater.

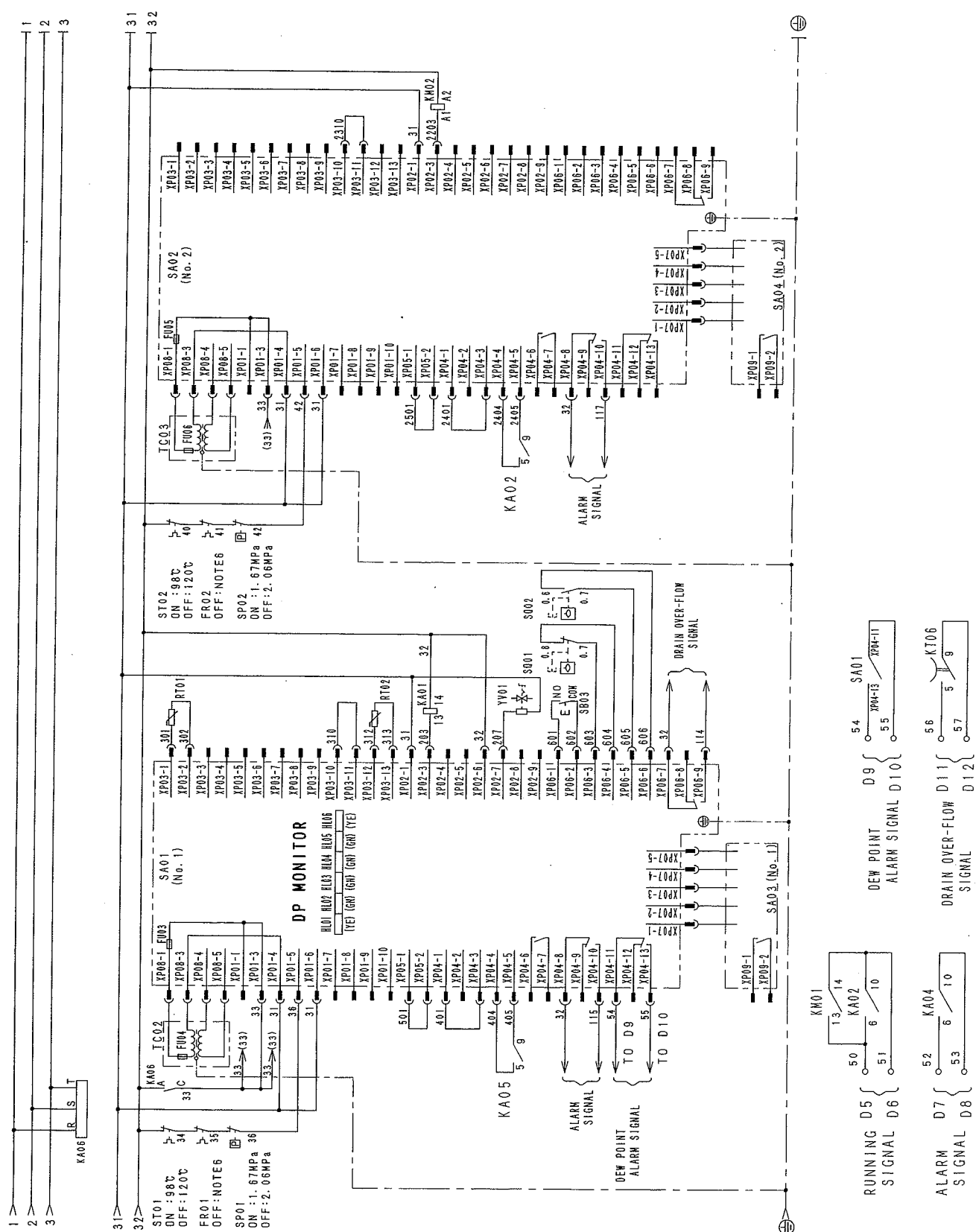
6. Set point for thermal relay. (FR01)

Model No.	Set point
	FR01
GT7150W	22A
GT7200W	27.5A
GT7250W	34A

RL01	INDICATING LAMP	1	YELLOW
RL02	INDICATING LAMP	1	GREEN
RL03	INDICATING LAMP	1	GREEN
RL04	INDICATING LAMP	1	GREEN
RL05	INDICATING LAMP	1	GREEN
RL06	INDICATING LAMP	1	YELLOW
RL07	INDICATING LAMP	1	GREEN
RL08	INDICATING LAMP	1	RED
RL09	INDICATING LAMP	1	YELLOW
EH01	CRANK CASE HEATER	1	
FW01	THERMO FUSE	1	128°C. 1A
FW02	FUSE	1	1A
FW03	FUSE	1	0.5A
FW04	THERMO FUSE	1	131°C. 0.5A
SA01	MAIN CONTROL BOARD	1	
SA02	PROTECTIVE BOARD OF MOMENTARY POWER FAILURE	1	
SA03	LOCAL-REMOTE CHANGE OVER SWITCH	1	
SA04	MAIN SWITCH	1	
SA05	OPERATION MODE SELECT SWITCH	1	
SB01	START SWITCH	1	
SB02	STOP SWITCH	1	
SB03	TEST SWITCH	1	DRAIN
SP01	HIGH PRESS. SWITCH	1	
YV01	SOLENOID VALVE	1	DRAIN
YV02	SOLENOID VALVE	1	
YV03	SOLENOID VALVE	1	
TC01	TRANSFORMER	1	200/100V
TC02	TRANSFORMER	1	100/16V
MO1	REFRIG. COMPRESSOR	1	
KM01	ELECTROMAGNETIC CONTACTOR	1	
FR01	THERMAL RELAY	1	
RT01	THERMO SENSOR	1	DEW POINT
RT02	THERMO SENSOR	1	INLET AIR TEMP.
ST01	THERMO SWITCH	1	
SW01	WATER LEVEL SENSOR	1	DRAIN
K001	PHASE PROTECTOR	1	
No.	PARTS NAME	QTY	REMARK

9.3. GT7300W,7400W,7480W





NOTE

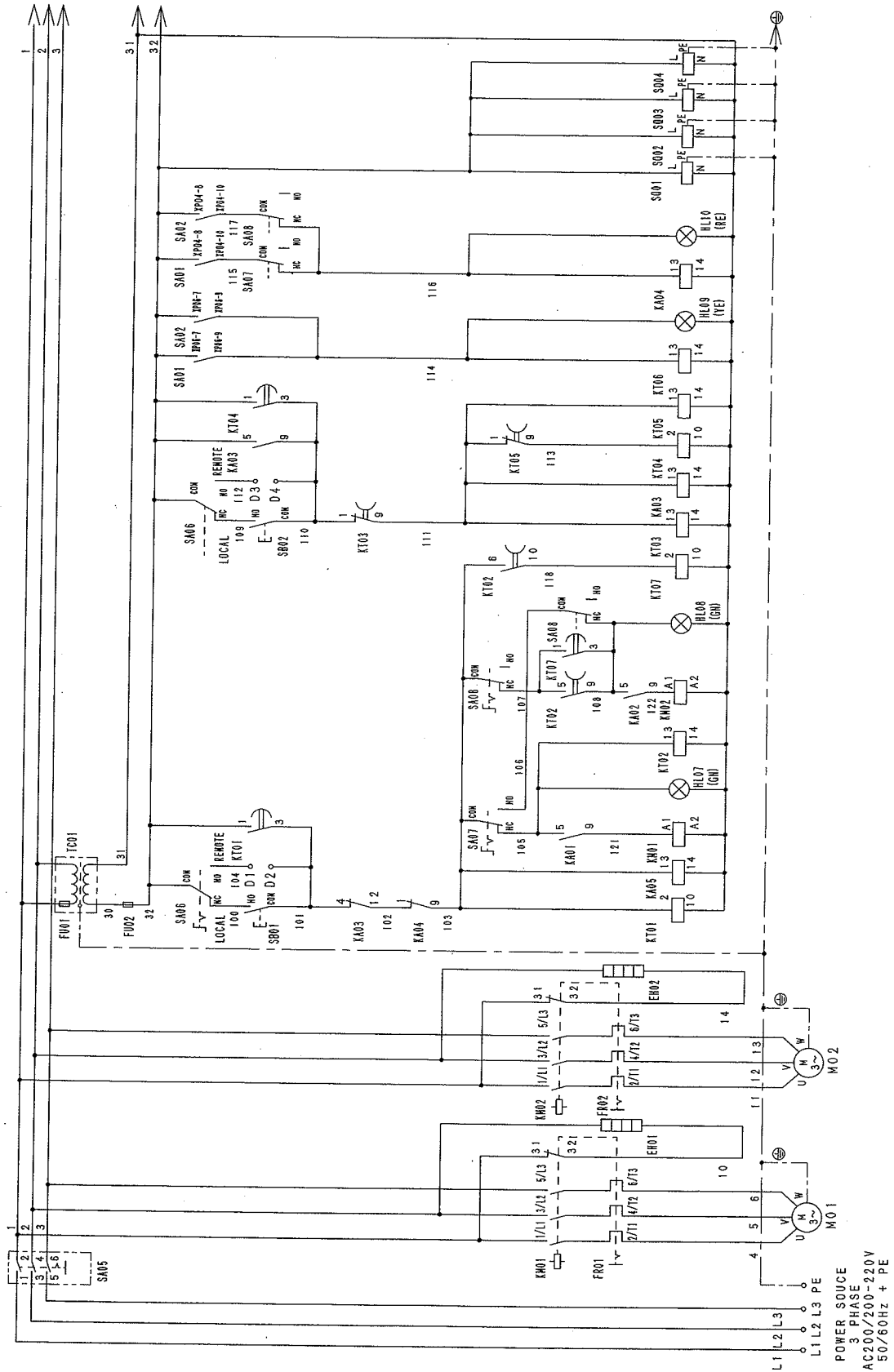
1. Remote start terminal D1-D2 and remote stop terminal D3-D4 are momentary no-voltage input. Set up switches SA05 and SA06 as following when the dryer is operated by remote control.
SA05:ON, SA06:REMOTE
2. Operation signal, alarm, dew point alarm and drain over flow signal are non-voltage a-contact. (Operation: D5-D6 close, Alarm: D7-D8 close, Dew point alarm: D9-D10 close, Drain over flow: D11-D12 close.)
Contact capacity: 125VAC/110VDC, 2A, 62.5VA, 30W
3. Reactivate the dryer immediately after power recovery, if instantaneous power failure is less than 0.5 seconds. Also, reactivate the dryer 3 minutes later after power recovery, if instantaneous power failure is less than 2 seconds.
4. Do not operate while 5 minutes after stop this dryer, because the restart prevention circuit is operated.
5. Do not turn off main power supply and main switch while the dryer is stop, because crank case need to be heated by electric heater.
6. Set point for safety devices

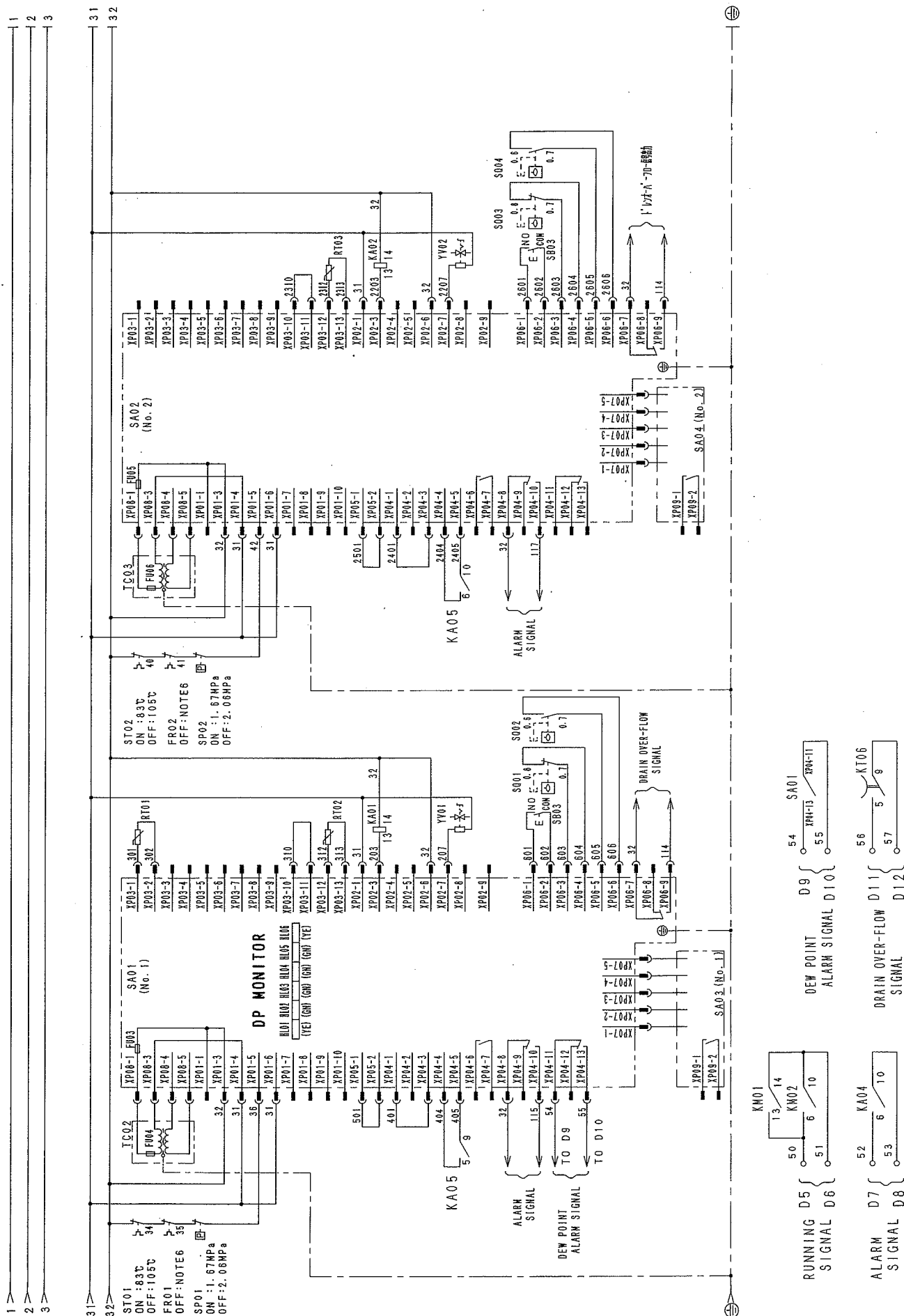


	Set point
	FR01.02
GT7300W	OFF:22A
GT7400W	OFF:27.5A
GT7480W	OFF:34A

No.	PARTS NAME	Q'TY	REMARK
KT04	TIMER (OFF DELAY)	1	3sec
KT03	TIMER (ON DELAY)	1	5min
KT02.05.06	TIMER (ON DELAY)	EACH	5sec
KT01.07	TIMER (OFF DELAY)	EACH	2sec
KA06	PHASE PROTECTOR	1	
KA01-05	AUXILIARY RELAY	EACH	
YV01	SOLENOID VALVE	1	
SB03	TEST SWITCH	1	DRAIN
SB02	STOP SWITCH	1	
SB01	START SWITCH	1	
SP01.02	HIGH PRESS. SWITCH	EACH	
ST01.02	INTERNAL THERMO SWITCH	EACH	
SA08	No. 2 START/STOP SWITCH	1	
SA07	No. 1 START/STOP SWITCH	1	
SA06	LOCAL-REMOTE CHANGE OVER SWITCH	1	
SA05	MAIN SWITCH	1	
SA03.04	PROTECTIVE BOARD OF MOMENTARY POWER FAILURE	EACH	
SA01.02	MAIN CONTROL BOARD	EACH	
HL10	INDICATING LAMP (ALARM)	1	RED
HL09	INDICATING LAMP (OVER FLOW)	1	YELLOW
HL07.08	INDICATING LAMP (RUNNING)	EACH	GREEN
HL06	INDICATING LAMP (DEW POINT)	1	YELLOW
HL02~5	INDICATING LAMP (DEW POINT)	EACH	GREEN
HL01	INDICATING LAMP (DEW POINT)	1	YELLOW
RT02	THERMO SENSOR (AIR INLET TEMP.)	1	
RT01	THERMO SENSOR (DEW POINT)	1	
FU04.06	THERMO FUSE	EACH	128℃, 0.5A
FU03.05	FUSE	EACH	0.5A
FU02	FUSE	1	2A
FU01	THERMO FUSE	1	131℃, 2A
SQ02	WATER LEVEL SENSOR	1	OVER FLOW
SQ01	WATER LEVEL SENSOR	1	DRAIN
TC02.03	TRANSFORMER	EACH	100/16V
TC01	TRANSFORMER	1	200/100V
EH01.02	CRANKCASE HEATER	EACH	
FR01.02	THERMAL RELAY	EACH	
KH01.02	ELECTROMAGNETIC CONDUCTOR	EACH	
MO1.02	COMPRESSOR MOTOR	EACH	

9.4. GT7710W,7960W





NOTE

1. Remote start terminal D1-D2 and remote stop terminal D3-D4 are momentary no-voltage input. Set up switches SA05 and SA06 as following when the dryer is operated by remote control.
SA05:ON, SA06:REMOTE
2. Operation signal, alarm, dew point alarm and drain over flow signal are non-voltage a-contact.
(Operation:D5-D6 close, Alarm:D7-D8 close, Dew point alarm:D9-D10 close, Drain over flow:D11-D12 close.)
Contact capacity:125VAC/110VDC, 2A, 62.5VA, 30W
3. Reactivate the dryer immediately after power recovery, if instantaneous power failure is less than 0.5 seconds.
Also, reactivate the dryer 3 minutes later after power recovery, if instantaneous power failure is less than 2 seconds.
4. Do not operate while 5 minutes after stop this dryer, because the restart prevention circuit is operated.
5. Do not turn off main power supply and main switch while the dryer is stop, because crank case need to be heated by electric heater.
6. Set point for safety devices

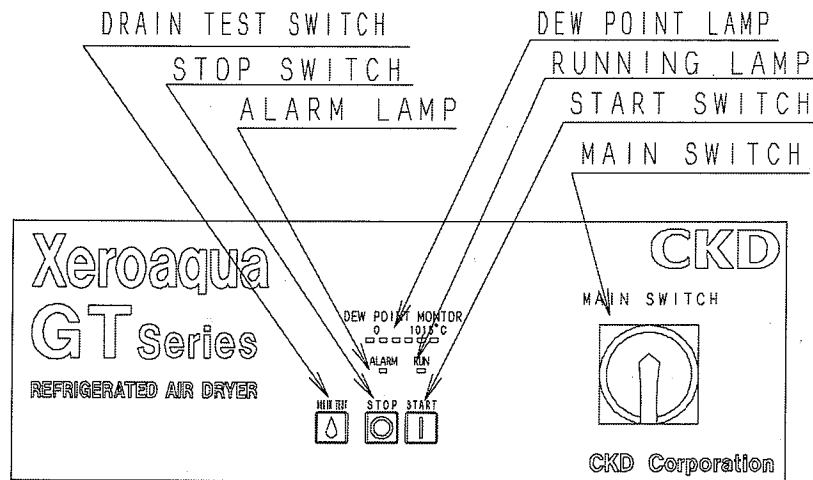


	Set point
	FR01.02
GT7710W	OFF:46A
GT7960W	OFF:62A

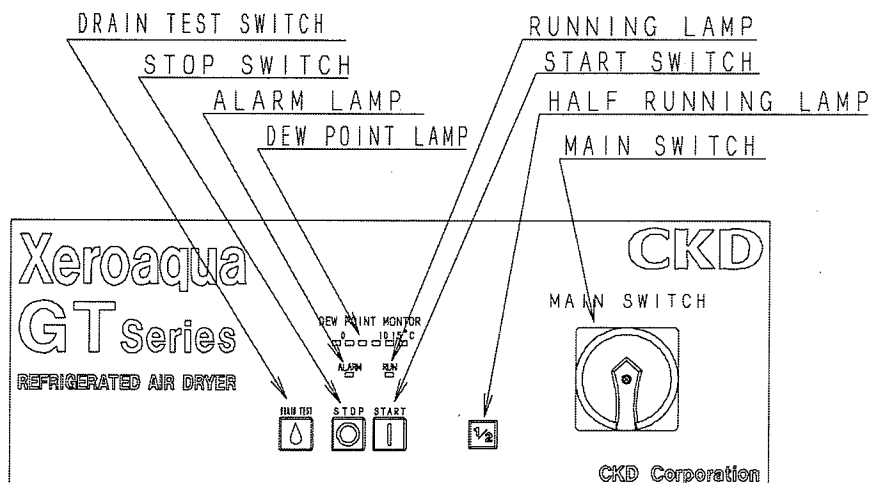
KT04	TIMER (OFF DELAY)	1	3sec
KT03	TIMER (ON DELAY)	1	5min
KT02.05.06	TIMER (ON DELAY)	EACH	5sec
KT01.07	TIMER (OFF DELAY)	EACH	2sec
KA06	PHASE PROTECTOR	1	
KA01~05	AUXILIARY RELAY	EACH	
YV01.02	SOLENOID VALVE	EACH	
SB03	TEST SWITCH	1	DRAIN
SB02	STOP SWITCH	1	
SB01	START SWITCH	1	
SP01.02	HIGH PRESS. SWITCH	EACH	
ST01.02	INTERNAL THERMO SWITCH	EACH	
SA08	No.2 START/STOP SWITCH	1	
SA07	No.1 START/STOP SWITCH	1	
SA06	LOCAL-REMOTE CHANGE OVER SWITCH	1	
SA05	MAIN SWITCH	1	
SA03.04	PROTECTIVE BOAD OF MOMENTARY POWER FAILURE	EACH	
SA01.02	MAIN CONTROL BOAD	EACH	
HL10	INDICATING LAMP (ALARM)	1	RED
HL09	INDICATING LAMP (OVER FLOW)	1	YELLOW
HL07.08	INDICATING LAMP (RUNNING)	EACH	GREEN
HL06	INDICATING LAMP (DEW POINT)	1	YELLOW
HL02~5	INDICATING LAMP (DEW POINT)	EACH	GREEN
HL01	INDICATING LAMP (DEW POINT)	1	YELLOW
RT02	THERMO SENSOR (AIR INLET TEMP.)	1	
RT01	THERMO SENSOR (DEW POINT)	1	
FU04.06	THERMO FUSE	EACH	128°C, 0.5A
FU03.05	FUSE	EACH	0.5A
FU02	FUSE	1	2A
FU01	THERMO FUSE	1	131°C, 2A
SB02.04	WATER LEVEL SENSOR	EACH	OVER FLOW
SB01.03	WATER LEVEL SENSOR	EACH	DRAIN
TC02.03	TRANSFORMER	EACH	100/16V
TC01	TRANSFORMER	1	200/100V
EH01.02	CRANKCASE HEATER	EACH	
FR01.02	THERMAL RELAY	EACH	
KN01.02	ELECTROMAGNETIC CONDUCTOR	EACH	
MO1.02	COMPRESSOR MOTOR	EACH	
No.	PARTS NAME	Q'TY	REMARK

10. Operating panel

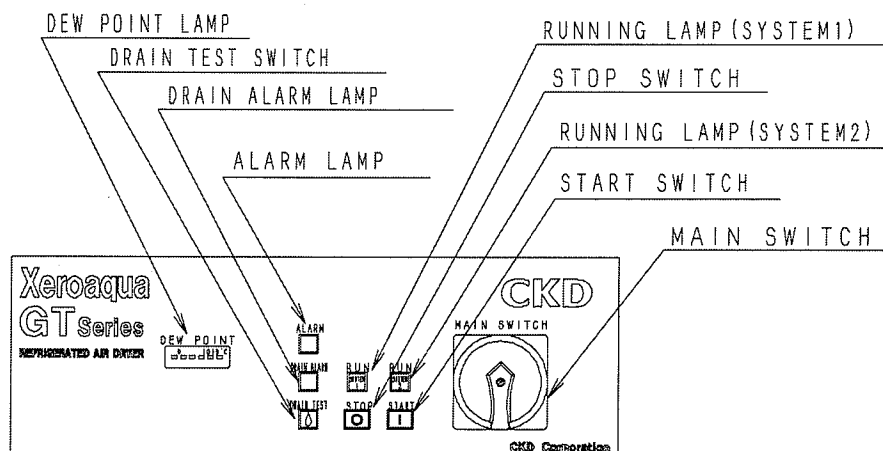
10.1 GT7055W,7075W,7095W,7120W



10.2 GT7150W,7200W,7250W

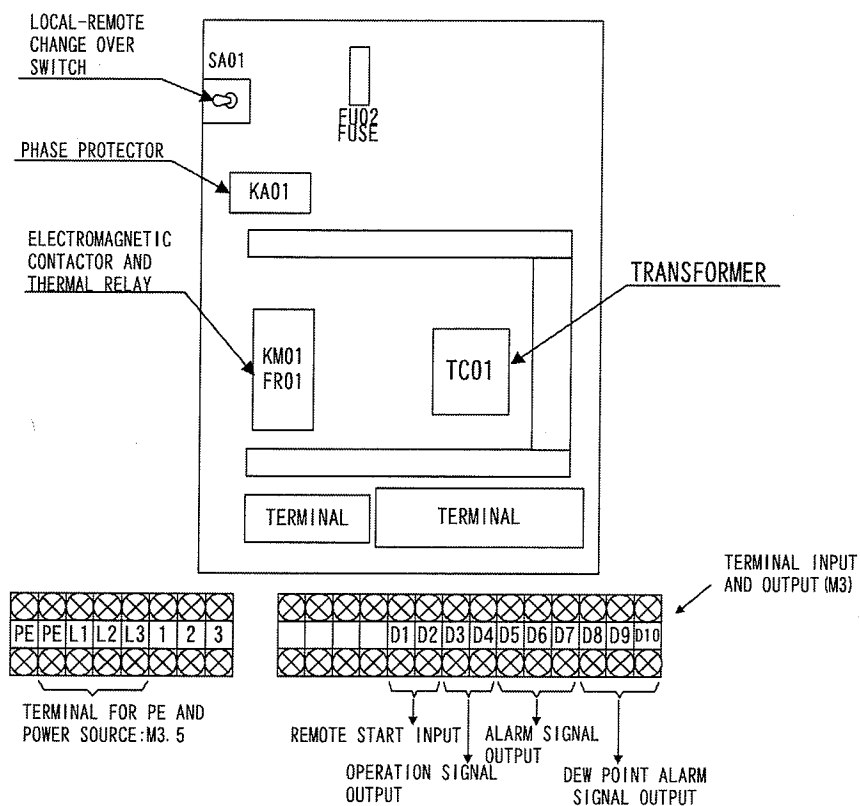


10.3 GT7300W,7400W,7480W,7710W,7960W

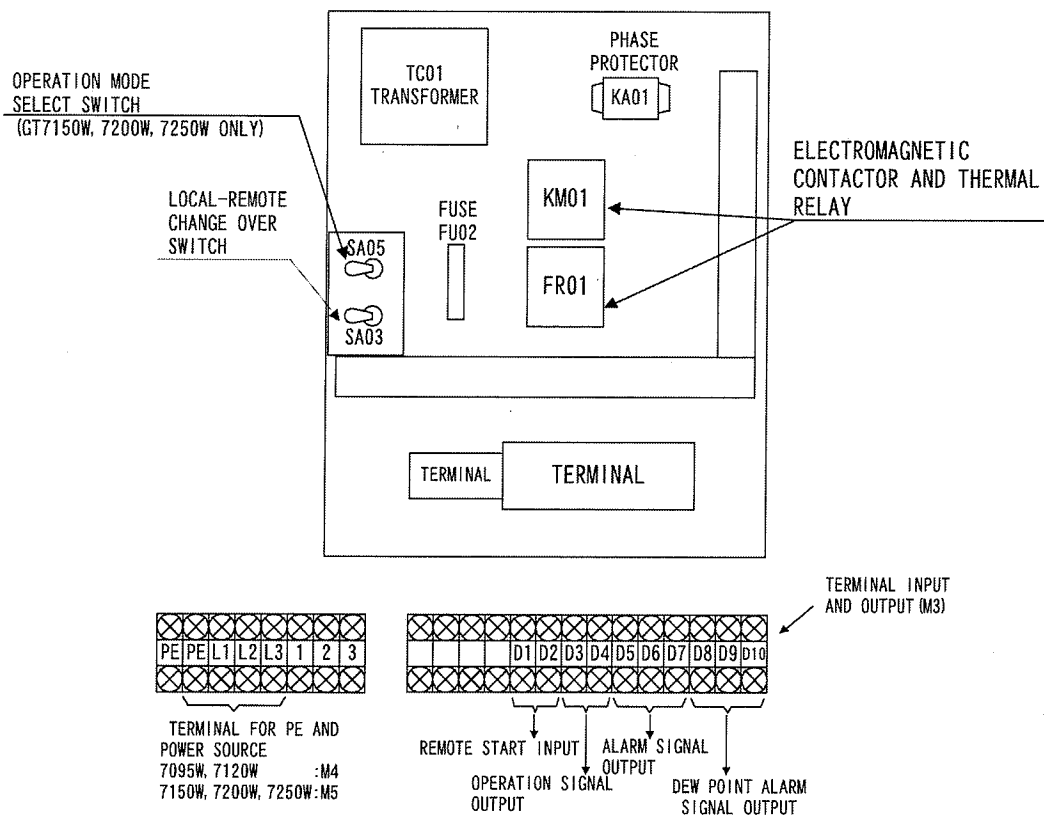


11. Electric box

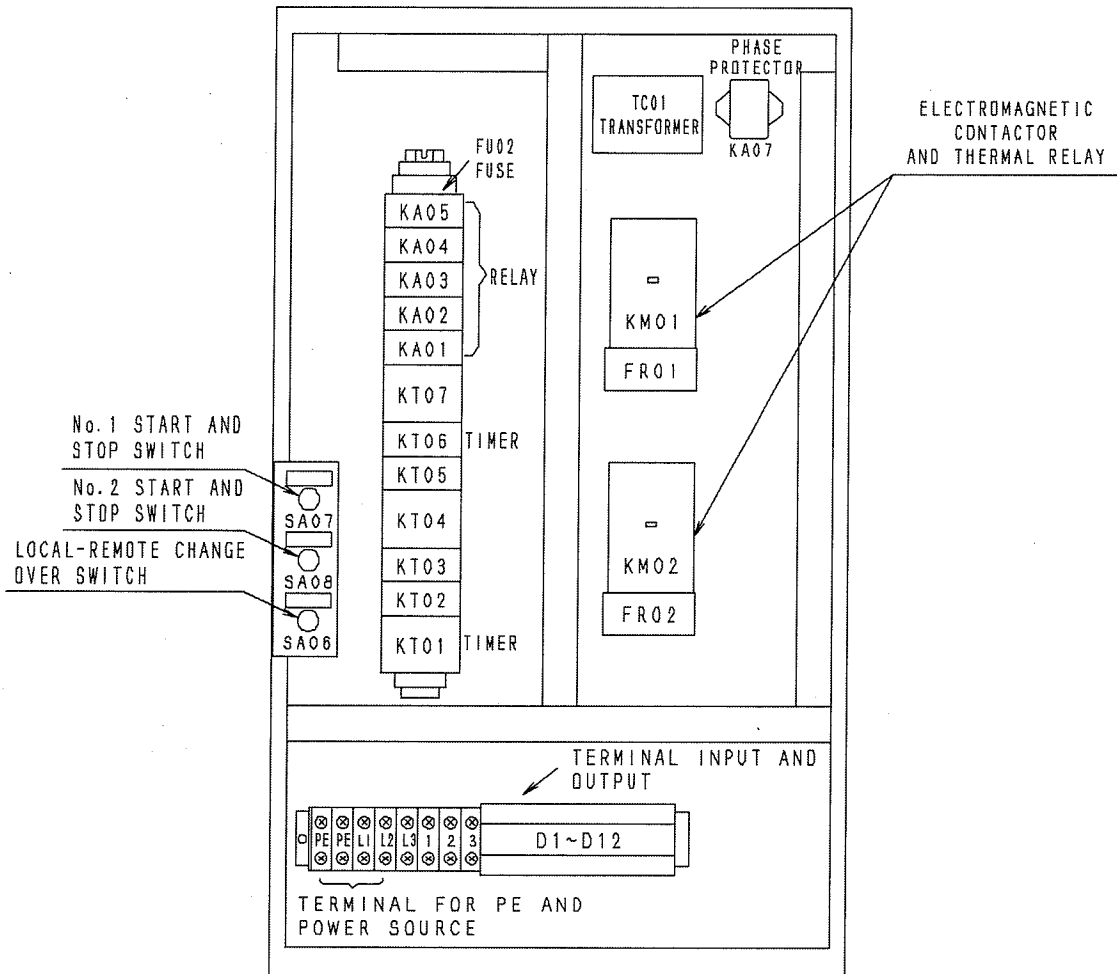
11.1 GT7055W,7075W



11.2 GT7095W,7120W,7150W,7200W,7250W

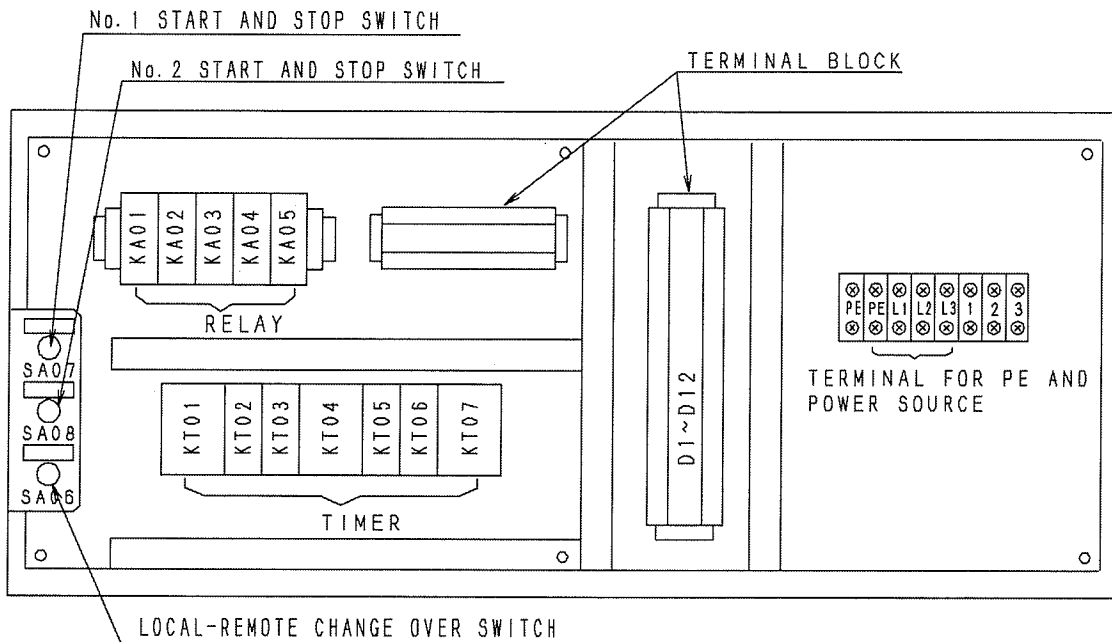


11.3 GT7300W,7400W,7480W

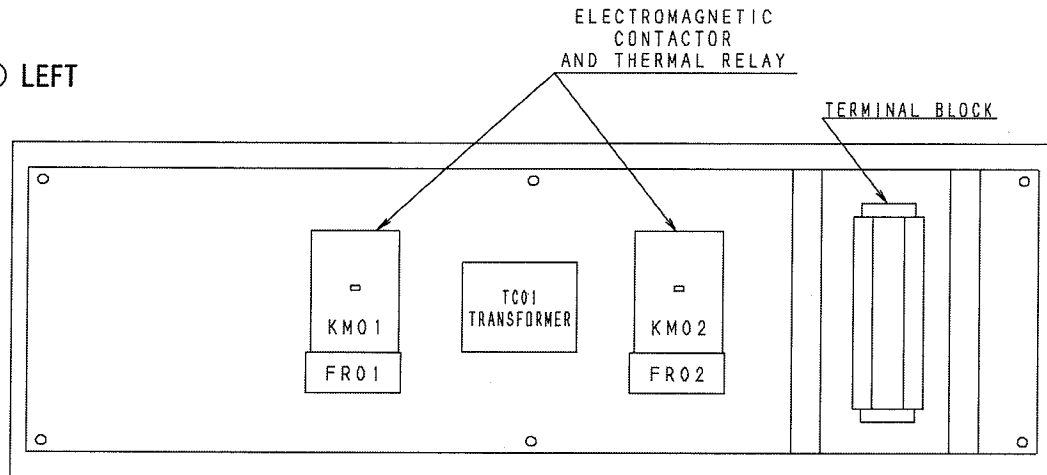


11.4 GT7710W,7960W

① RIGHT

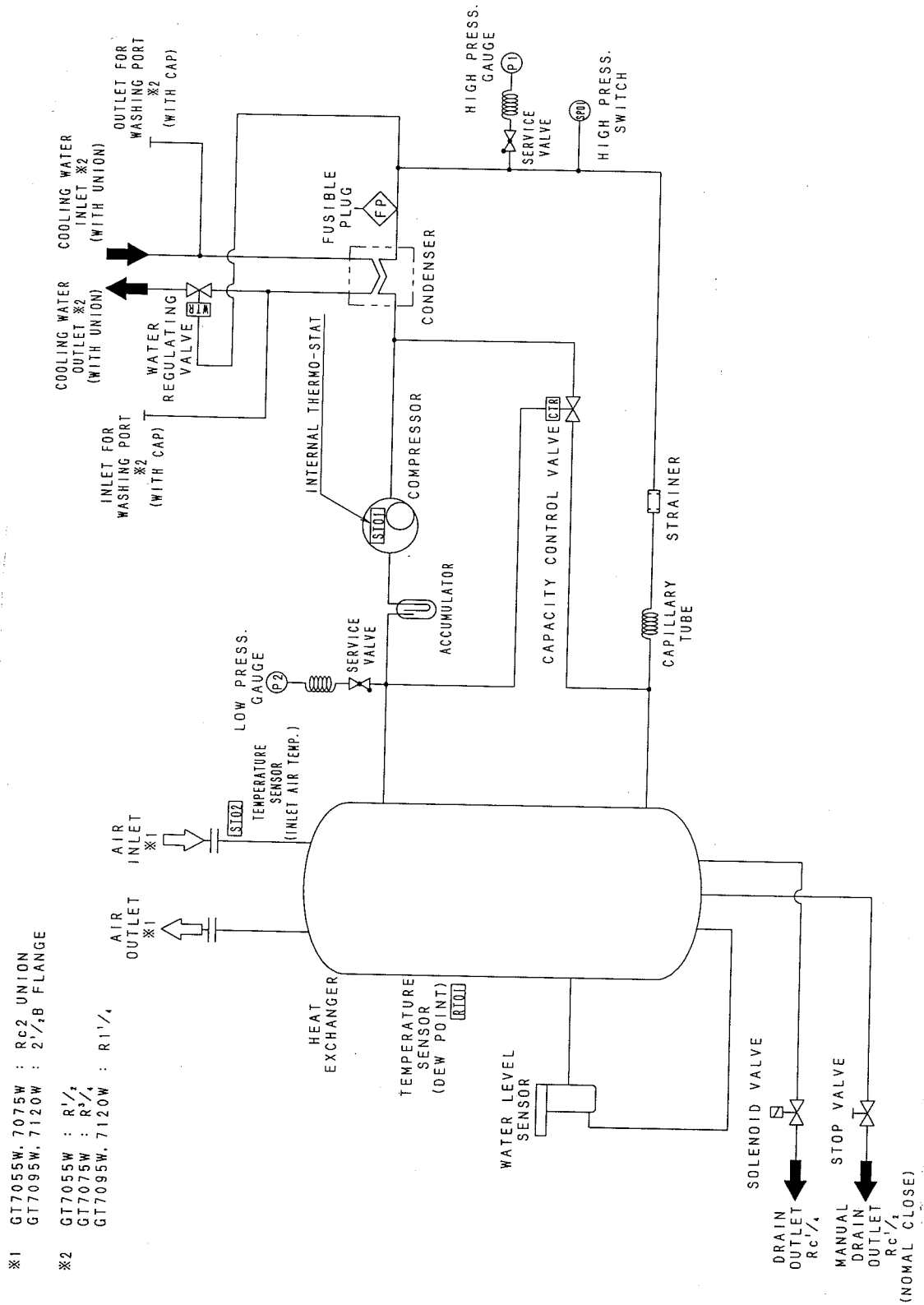


② LEFT

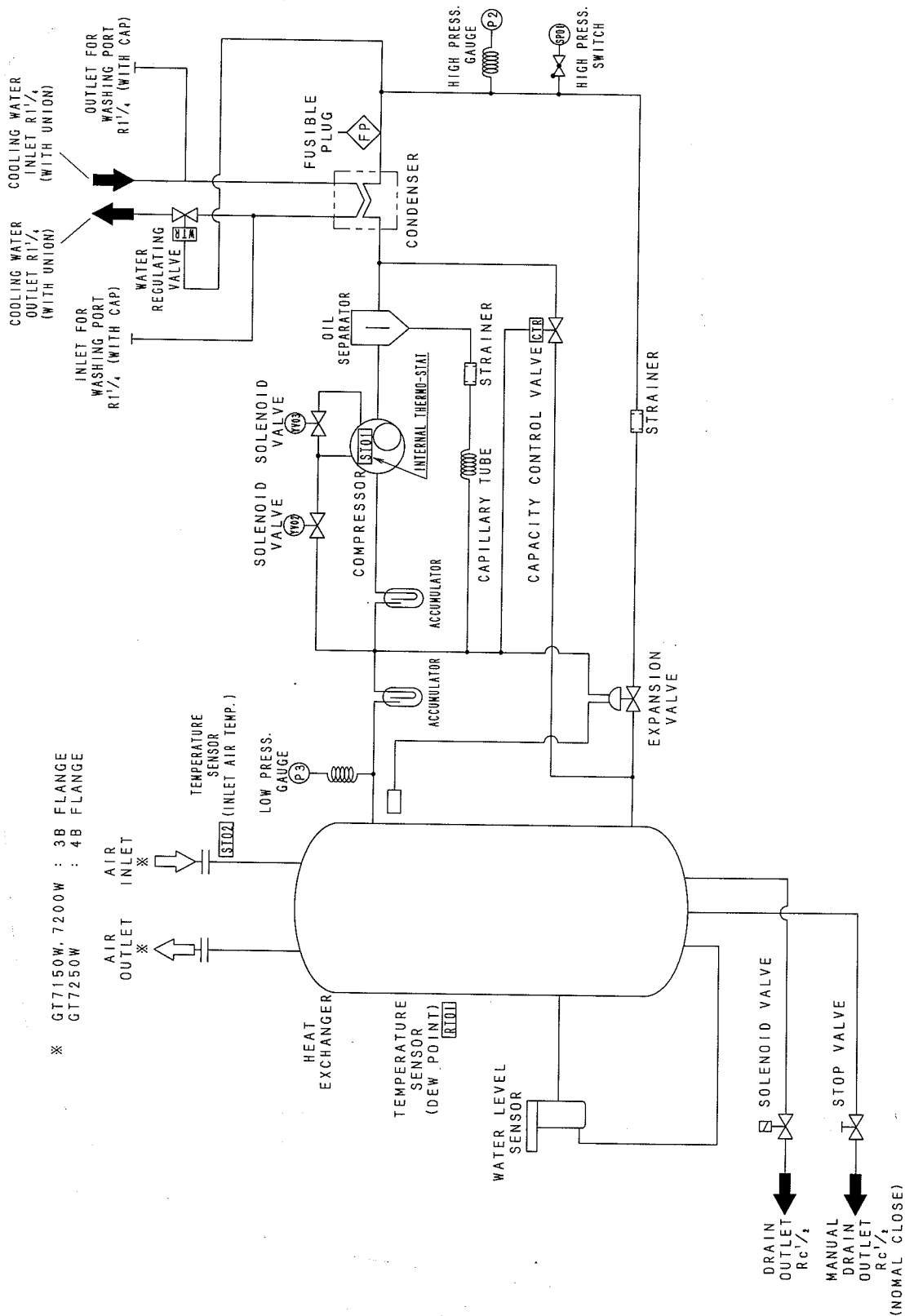


12. Flow chart

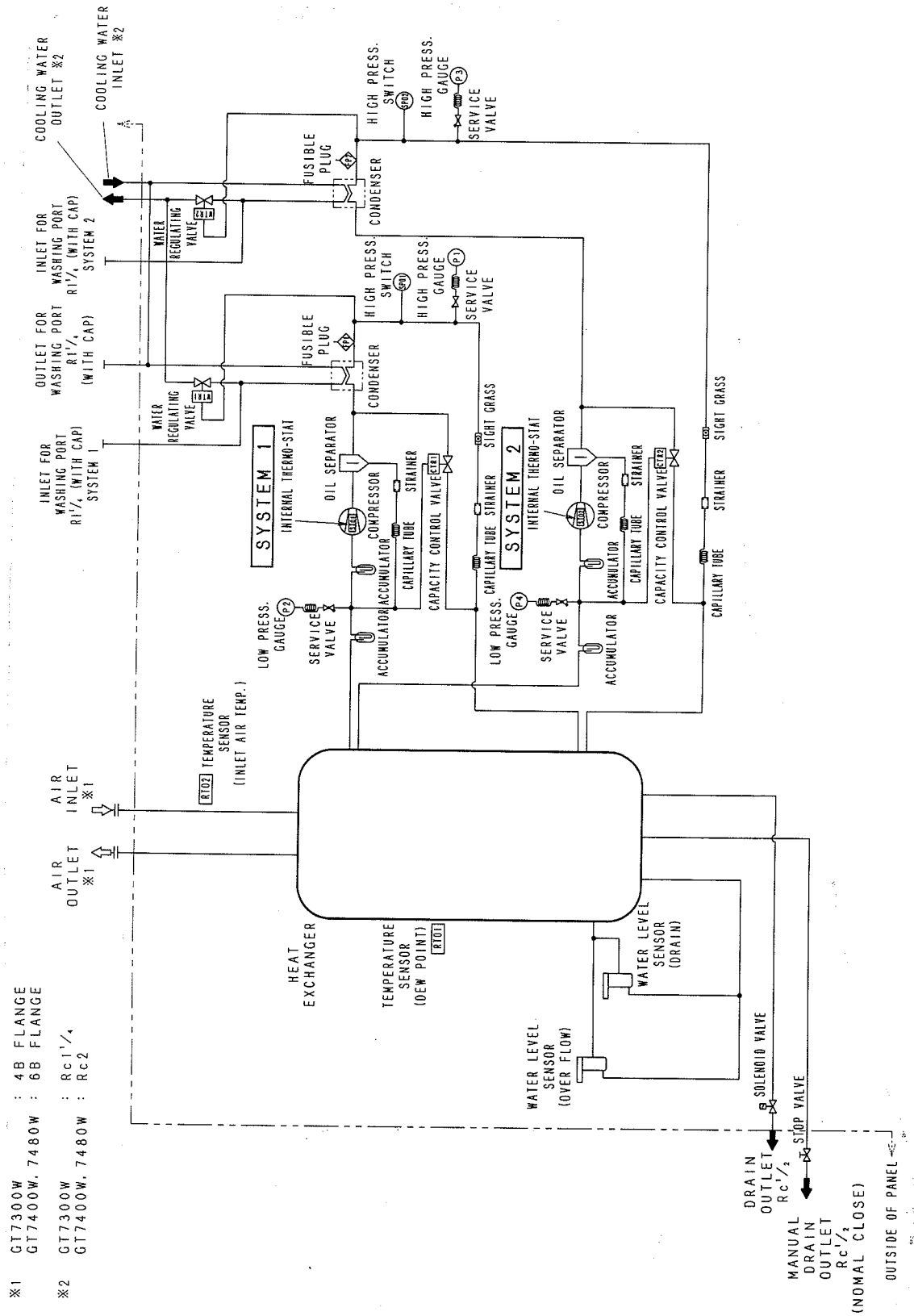
12.1 GT7055W, 7075W, 7095W, 7120W



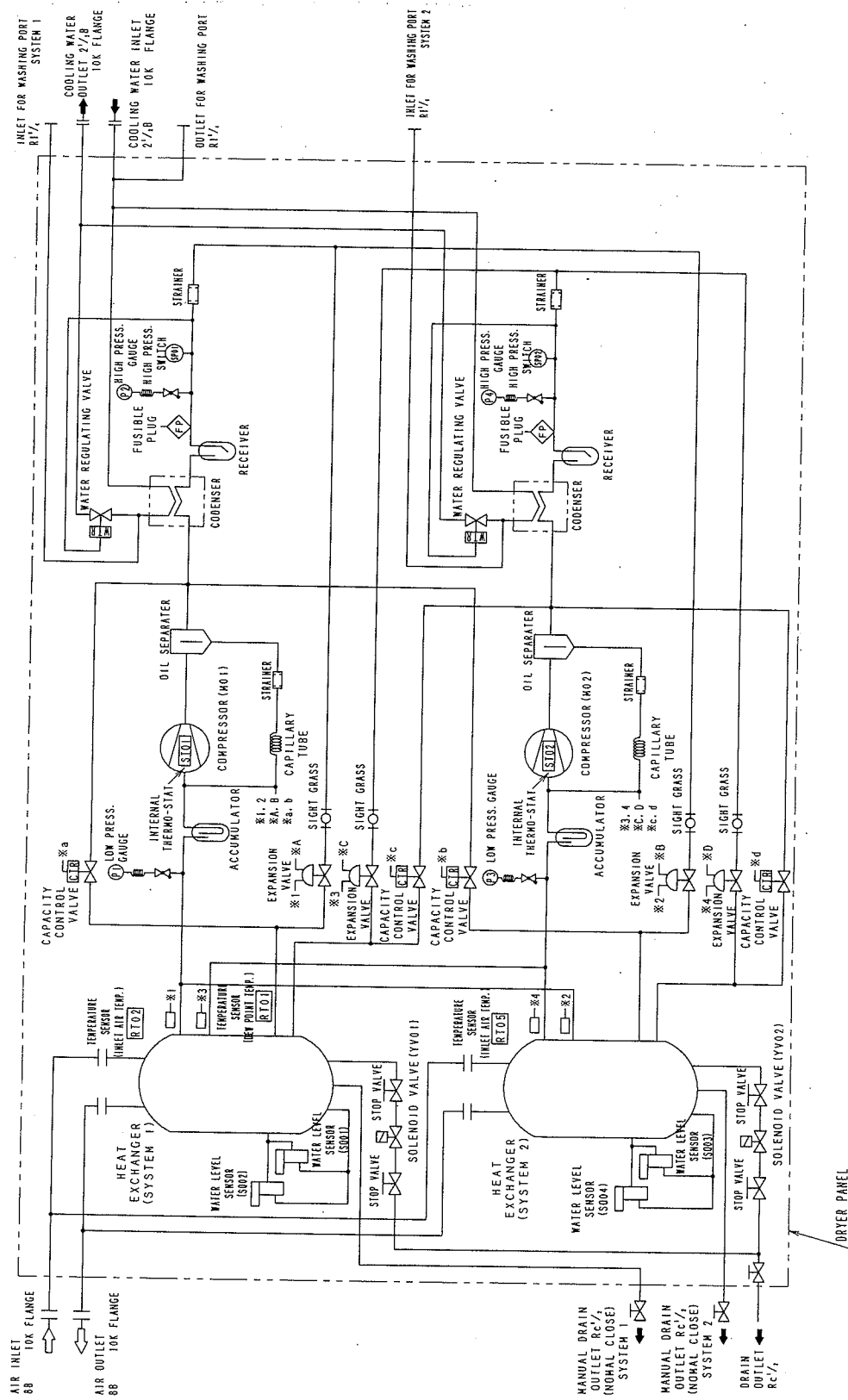
12.2 GT7150W,7200W,7250W



12.3 GT7300W, 7400W, 7480W



12.4 GT7710W,7960W



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●豊田営業所

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