

F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FimResistFR
Oil-Prohr
MedPresFR
No Cu/
PTFE FRL
Outdrs FR
F.R.L
(Related)
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneur
AirBoost
SpdContr
Silncr
CheckV/
other
Jnt/tube
AirUnt
PresCompn
Mech/
ElecPresSW
ContactSW
AirSens
PresSW
Cool
AirFloSens/
Contr
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending



Refrigeration air dryer Xeroaqua (Air-cooling)

GT9000 Series

For direct air compressor connection, standard inlet air

● Applicable air compressor: 75, 90, 120, 150, 190, 240, 300, 380, 450 kW
JIS symbol



Specifications

Discontinued model

1 MPa = 10 bar

Model No.		GT9075	GT9090	GT9120	GT9150	GT9190	GT9240	GT9300	GT9380	GT9450
Applicable air compressor kW		75	90	120	150	190	240	300	380	450
Working range	Working fluid	Compressed air								
	Inlet air temperature °C	5 (41°F) to 60 (140°F)								
	Inlet air pressure MPa	0.1 (≈15 psi, 1 bar) to 0.98 (≈140 psi, 9.8 bar)						0.29 (≈42 psi) to 0.93 (≈130 psi)		
	Ambient temperature °C	2 (35.6°F) to 40 (104°F)								
Rating	Processing flow rate m³/min (ANR) 50/60 Hz (*2)	10.4/12.3	14.8/17.5	18.7/22.0	23.8/28.0	27.5/32.4	36.5/43.0	44.2/52.0	55.2/65.0	70.3/82.8
	Processing flow rate m³/min (Compressor intake condition) 50/60Hz (*3)	10.9/12.9	15.5/18.4	19.6/23.1	25.0/29.4	28.9/34.0	38.3/45.2	46.4/54.6	58.0/68.3	73.8/87.0
	Inlet air temperature °C	40 (104°F)								
	Inlet air pressure MPa	0.7 (≈100 psi, 7 bar)								
	Ambient temperature °C	32 (89.6°F)								
Perfm.	Outlet air pressure dew point °C	10 (50°F) (*4)								
Power supply		Three-phase 200/200, 220 VAC 50/60 Hz								
Electrical specifications	Power consumption kW 50/60Hz (*5)	2.2/2.6, 2.7	3.0/3.7, 3.7	2.9/3.8, 3.6	3.7/4.8, 4.7	4.8/6.0, 5.8	4.6/5.7, 5.6	5.9/6.8, 6.8	8.6/10.1, 10.0	9.3/11.2, 11.9
	Operating current A 50/60Hz (*5)	8.7/8.4, 8.5	11.0/12.0, 12.0	11.6/13.1, 12.6	14.7/16.3, 15.9	18.6/20.1, 18.8	17.9/19.2, 19.1	19.9/22.3, 21.2	26.4/29.4, 28.9	36.3/38.3, 38.2
	Starting current A 50/60Hz	43.8/39.1	83/77	83/77	98/91	135/135	135/135	83/77	98/91	135/135
Refrigerant		R-407C								
Air outlet/inlet piping bore size (*6)		Union Rc2		Flange 2 1/2B	Flange 3B		Flange 4B	Flange 5B		Flange 6B
Weight kg		146	237	258	372	374	555	790	870	970
Released heat kW 50/60Hz		6.9/8.2	9.8/11.6	10.8/12.8	14.1/16.5	17.8/21.0	18.8/22.1	20.8/24.5	26.7/31.3	33.0/39.0

*1: Outer panel: Quality cool white (Munsell No. 5GY7.5/0.5)

Base : Munsell No. N3.0

*2: ANR shows conditions of 20°C atmospheric pressure and relative humidity 65%.

*3: This is a value converted to the intake condition of the air compressor in an environment of 32°C with a relative humidity of 75%.

*4: Contact CKD for information on the dew point performance guarantee.

*5: The power consumption and operation current are both reference values under the rated conditions, and are not guaranteed.

*6: Flange is 10K flange.

How to order (air-cooling)

GT9 **075** - **G** - **AC380V**

Ⓐ Capacity category

Ⓑ Option
*1

Ⓒ Voltage
*2

Discontinued model

Code	Content
Ⓐ Capacity category	
075	75 kW
090	90 kW
120	120 kW
150	150 kW
190	190 kW
240	240 kW
300	300 kW
380	380 kW
450	450 kW

Ⓑ Option	
Blank	Standard products
G	Different voltage compatible
H2	SUS nameplate
H3	Simple export packaging
N1	Copper tube rust proof coating

Ⓒ Voltage	
200 VAC	
220 VAC (60Hz only standard)	
230 VAC	
240 VAC	
380 VAC	
400 VAC	
415 VAC	
440 VAC	
480 VAC	

⚠ Precautions for model No. selection

- *1: Indicate options in alphabetical order.
- *2: Specify the voltage for item Ⓒ even when the model is a standard product.
Example: GT9090-AC200V
- *3: Option H3 is packaged in plywood.
- *4: The instruction manual and nameplates are provided in Japanese and English.
However, the proof pressure certificate (GT9240 and higher) is available as Japanese text only. Contact CKD when an English version is required.
- *5: Contact CKD if a photo of the completed product is required.
- *6: Contact CKD to designate the color of the body panel.

Selection guide

(1) Temperature compensation coefficient

Inlet air temperature (°C)		35		40		45		50		55		60	
Pressure dew point (°C)		10	15	10	15	10	15	10	15	10	15	10	15
Ambient temperature (°C)	25	1.29	1.29	1.14	1.24	0.91	0.99	0.69	0.75	0.46	0.50	0.23	0.25
	30	1.25	1.29	1.04	1.13	0.83	0.91	0.62	0.68	0.42	0.45	0.21	0.23
	32	1.20	1.29	1.00	1.09	0.80	0.87	0.60	0.65	0.40	0.44	0.20	0.22
	35	1.13	1.23	0.94	1.02	0.75	0.82	0.56	0.61	0.38	0.41	0.19	0.20
	40	1.01	1.10	0.84	0.92	0.67	0.73	0.50	0.55	0.34	0.37	0.17	0.18

(2) Inlet air pressure coefficient

Inlet air pressure (MPa)	0.10	0.20	0.29	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.93	0.98
Coefficient	0.60	0.66	0.72	0.73	0.80	0.87	0.93	1.00	1.07	1.13	1.15	1.19

(3) Upper limit coefficient

Working cond (inlet press (MPa))	0.10	0.20	0.29	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.93	0.98
Coefficient	0.77	0.85	0.92	0.94	1.03	1.12	1.19	1.29	1.38	1.45	1.48	1.53

When determining the appropriate model from the standard processing air rate of each model No.

Standard processing air rate × (1) Temperature correction coefficient × (2) Inlet air pressure coefficient = Maximum processing air rate

*1: Select with conditions where the value of the product of each coefficient ((1)×(2)) does not exceed the upper limit coefficient of (3).

Conditions	Working conditions	Selecting conditions	Coefficient
Inlet air temperature	30 to 38°C	40°C	(1) 0.94
Pressure dew point	10°C	10°C	
Ambient temperature	25 to 33°C	35°C	
Inlet air pressure	0.55 to 0.75 MPa	0.5 MPa	(2) 0.87
Frequency	50 Hz	50 Hz	50 Hz

Substitute the above conditions in the above formula and determine the processing air rate in cases when GT9150 is used.

Product of each coefficient

$$(1) \times (2) = 0.94 \times 0.87 = 0.81$$

As the (3) upper limit coefficient of 1.12, when the inlet air pressure of the working conditions is 0.5 MPa, is not exceeded, the max. processing air rate will be 23.8 (standard processing air rate) × 0.81 = 19.2 m³/min(ANR).

If the used air quantity is less than or equal to this value, select that model.

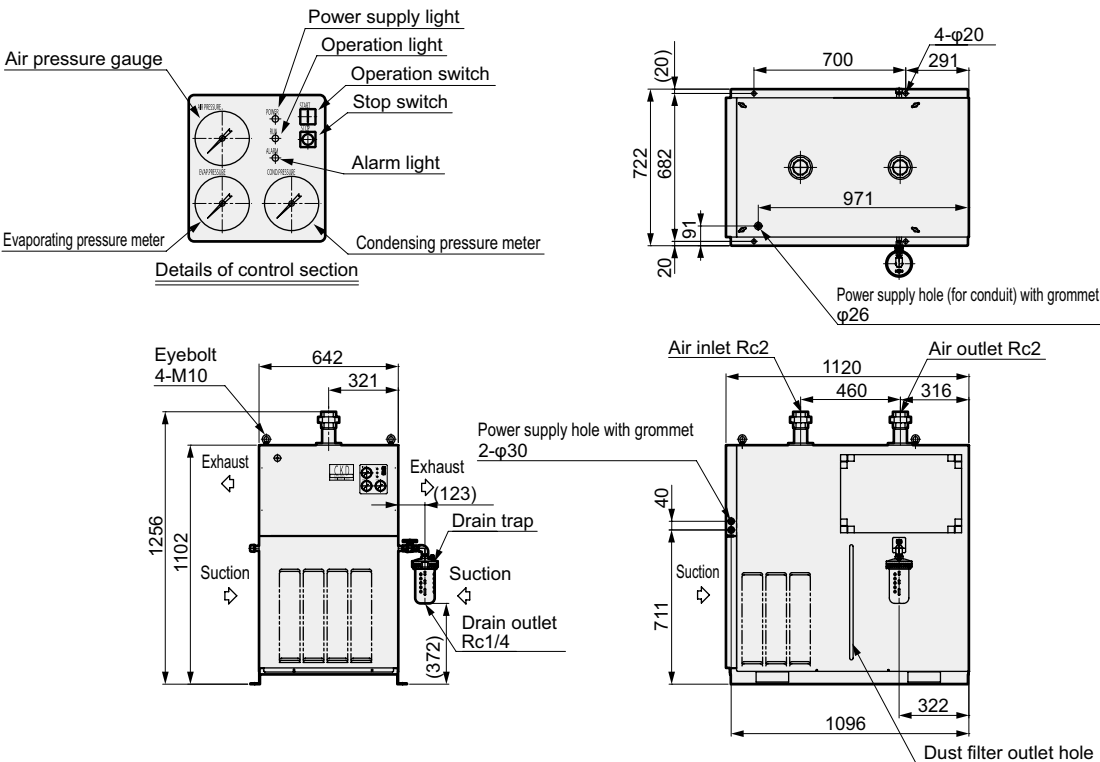
*2: For compatibility with pressure dew points of less than 10°C, contact CKD separately.

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Outdrs FR
F.R.L
(Related)
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
SpdContr
Silncr
CheckV/
other
Jnt/tube
AirUnt
PresCompn
Mech/
ElecPresSw
ContactSW
AirSens
PresSW
Cool
AirFloSens/
Contr
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending

GT9000 Series

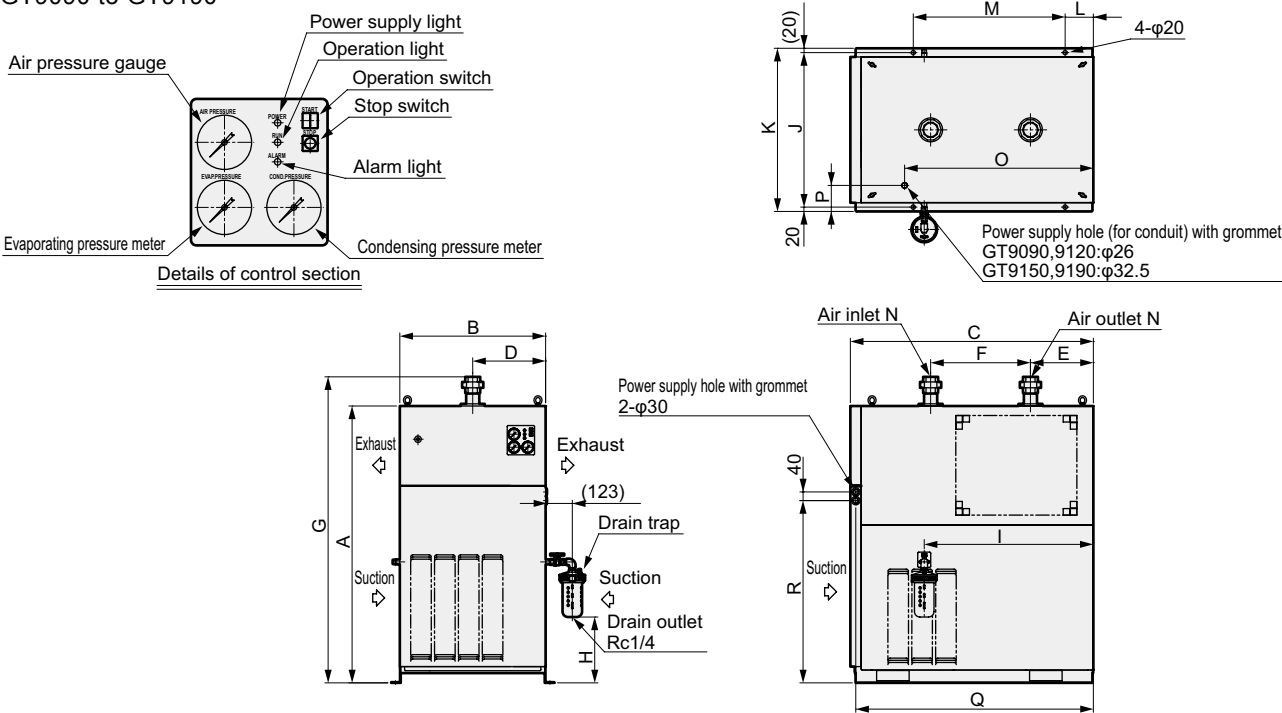
Dimensions

● GT9075



- *1: Installation of the drain trap can be selected to be on either the right or left side panel. The installation position will be symmetrical on both the right and left side panels.
*2: Select either the right or left panel for installation of the exhaust port of GT9075.

● GT9090 to GT9190



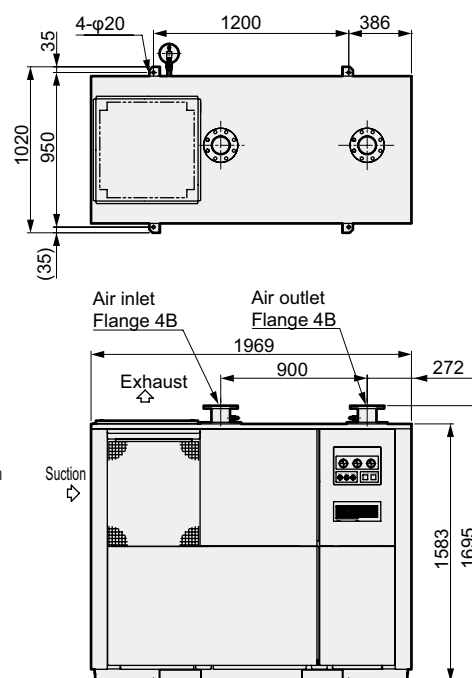
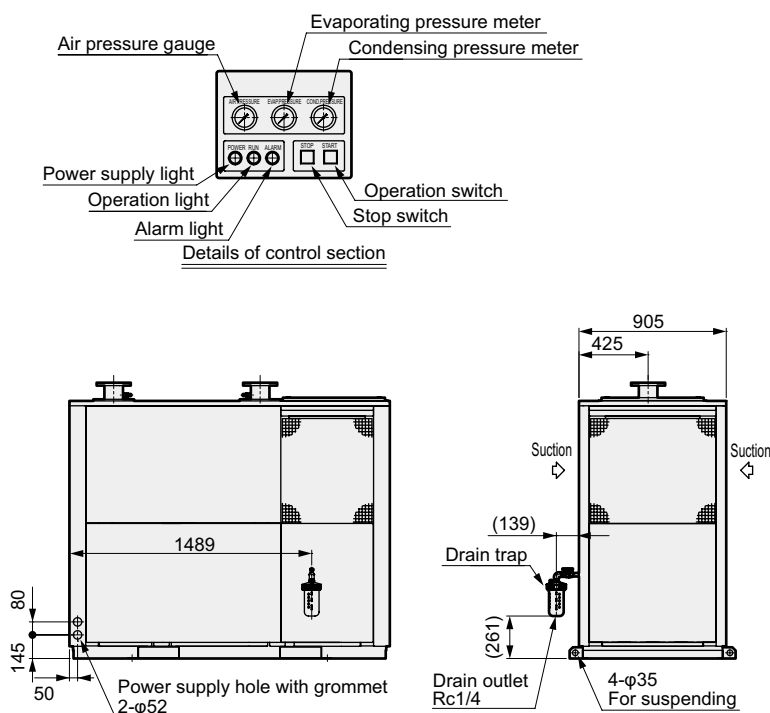
- *1: Installation of the exhaust port can be selected to be on either the right or left side panel.
*2: Installation of the drain trap can be selected to be on either the right or left side panel. The installation position will be symmetrical on both the right and left side panels.
*3: It is not equipped with a dust filter.

Model No.	A	B	C	D	E	F	G	H	I	J	K
GT9090	1276	672	1120	336	290	460	1411	(303)	780	712	752
GT9120	1276	672	1260	336	403	655	1375	(221)	295	712	752
GT9150	1332	950	1290	475	296	720	1432	(221)	260	990	1030
GT9190	1332	950	1290	475	226	860	1432	(221)	260	990	1030

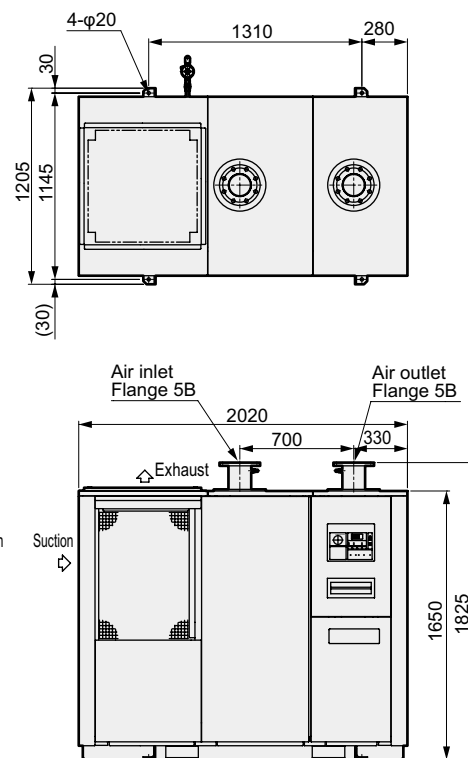
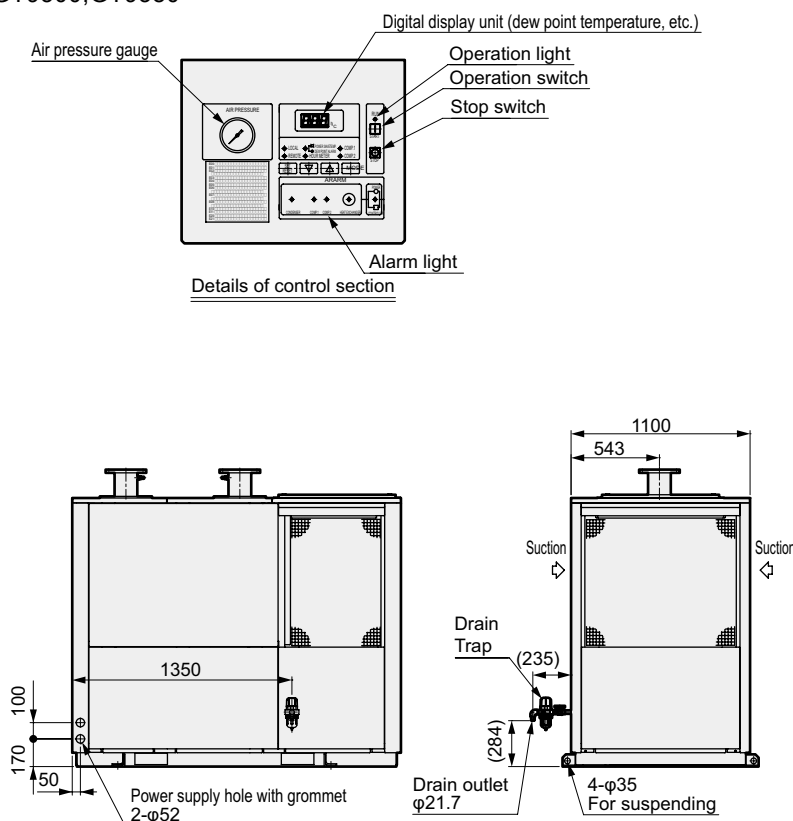
Model No.	L	M	N	O	P	Q	R
GT9090	130	700	Union Rc2	870	120	1095	840
GT9120	214	935	Flange 2 1/2B	1010	120	1235	840
GT9150	245	935	Flange 3B	990	116	1265	896
GT9190	245	935	Flange 3B	990	116	1265	896

Dimensions

● GT9240



● GT9300,GT9380



*1: The dew point display value is a guide, and is not the actual dew point.
To measure the actual dew point, measure the secondary side air with a dew point gauge.

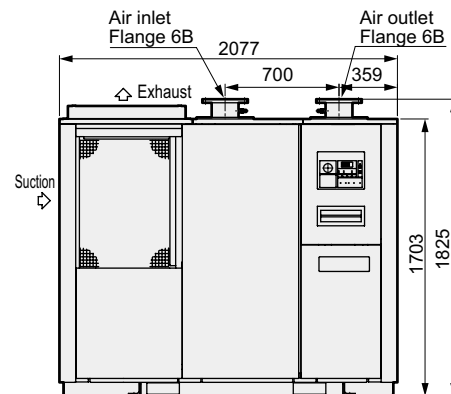
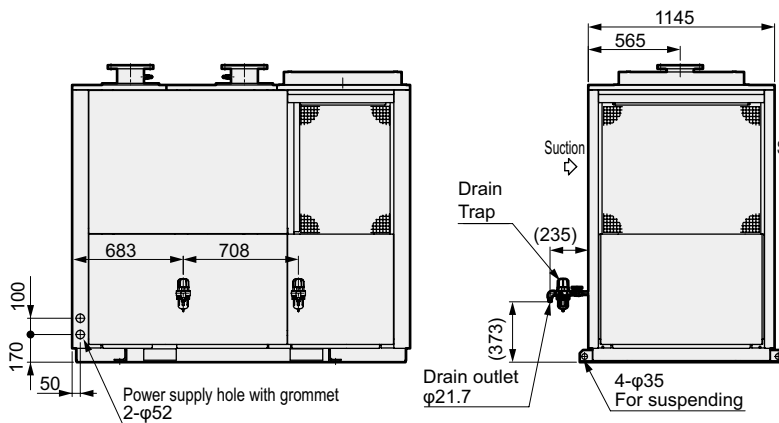
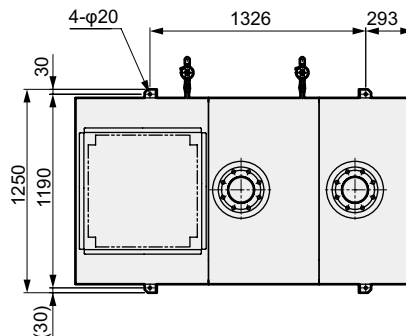
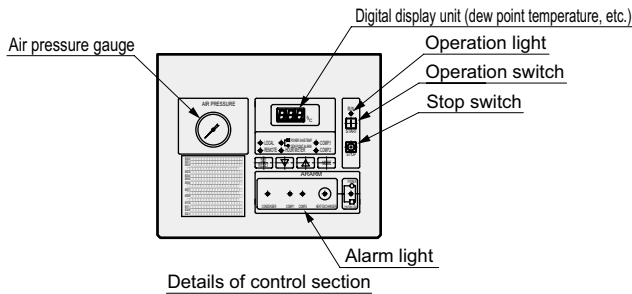
F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FimResistFR
Oil-ProhR
MedPresFR
No Cu/ PTFE FRL
Outdrs FR
F.R.L (Related)
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneur
AirBoost
SpdContr
Silncr
CheckV/ other
Jnt/tube
AirUnt
PrecsCompn
Mech/ ElecPresSw
ContactSW
AirSens
PresSW Cool
AirFloSens/ Contr
WaterRtSens
TotAirSys (Total Air)
TotAirSys (Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

GT9000 Series

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F (Filtr)
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L (Lub)
PresSW
Shutoff
SlowStart
FImResistFR
Oil-ProhR
MedPresFR
No Cu/ PTFE FRL
Outdrs FR
F.R.L (Related)
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneur
AirBoost
SpdContr
Silncr
CheckV/ other
Jnt/tube
AirUnt
PresCompn
Mech/ ElecPresSw
ContactSW
AirSens
PresSW Cool
AirFloSens/ Contr
WaterRtSens
TotAirSys (Total Air)
TotAirSys (Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

Dimensions

● GT9450



*1: The dew point display value is a guide, and is not the actual dew point.
To measure the actual dew point, measure the secondary side air with a dew point gauge.

MEMO

F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FimResistFR
Oil-ProhR
MedPresFR
No Cu/ PTFE FRL
Outdrs FR
F.R.L (Related)
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
SpdContr
Silncr
CheckV/ other
Jnt/tube
AirUnt
PrecsCompn
Mech/ ElecPresSw
ContactSW
AirSens
PresSW Cool
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HiPolymDry
MainFiltr
Dischrg etc
Ending

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ContactSW
AirSens
PresSW
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AirFloSens/
Contr
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending



Refrigeration air dryer Xeroaqua (Water-cooling)

GT9000W Series

For direct air compressor connection, standard inlet air

● Applicable air compressor: 75, 90, 120, 150, 190, 240, 300, 380, 450 kW

JIS symbol



Specifications

Discontinued model

1 MPa = 10 bar

Model No.		GT9075W	GT9090W	GT9120W	GT9150W	GT9190W	GT9240W	GT9300W	GT9380W	GT9450W
Applicable air compressor kW		75	90	120	150	190	240	300	380	450
Working range	Working fluid	Compressed air								
	Inlet air temperature °C	5 (41°F) to 60 (140°F)								
	Inlet air pressure MPa	0.1 (≈15 psi, 1 bar) to 0.98 (≈140 psi, 9.8 bar)						0.29 (≈42 psi) to 0.93 (≈140 psi)		
	Cooling water inlet pressure MPa	0.2 (≈29 psi, 2 bar) to 0.74 (≈110 psi, 7.4 bar)								
	Ambient temperature °C	2 (35.6°F) to 45 (113°F)								
Rating	Processing flow rate m³/min (ANR) 50/60Hz (*2)	11.0/13.0	15.5/18.3	20.4/24.0	25.5/30.0	29.8/35.1	39.9/47.0	48.4/57.0	60.3/71.0	79.0/93.0
	Processing flow rate m³/min (Compressor intake condition) 50/60Hz (*3)	11.5/13.6	16.3/19.2	21.4/25.2	26.8/31.5	31.3/36.9	41.9/49.4	50.8/59.9	63.3/74.6	83.0/97.7
	Inlet air temperature °C	40 (104°F)								
	Inlet air pressure MPa	0.7 (≈100 psi, 7 bar)								
	Cooling water inlet temperature °C	32 (89.6°F)								
	Cooling water volume m³/h 50/60Hz	1.5/1.7	2.4/2.8	2.5/2.9	2.7/3.0	3.0/3.2	3.6/3.8	3.4/4.0	4.3/5.0	6.0/7.1
	Ambient temperature °C	32 (89.6°F)								
Perfm.	Outlet air pressure dew point °C	10 (50°F) (*4)								
Power supply		Three-phase 200/200, 220 VAC 50/60 Hz								
Electrical specifications	Power consumption kW 50/60Hz (*5)	1.8/2.0, 2.1	2.4/2.9, 2.8	2.1/2.6, 2.5	3.1/3.8, 3.7	4.2/5.3, 5.5	5.5/4.4, 4.3	5.1/5.7, 5.7	6.5/7.6, 7.5	8.5/9.0, 8.9
	Operating current A 50/60Hz (*5)	7.9/6.9, 7.0	9.0/9.6, 9.1	8.6/9.4, 8.9	11.9/12.8, 12.1	15.8/16.8, 16.5	14.8/15.0, 14.9	17.6/18.9, 18.4	22.5/25.0, 24.5	29.6/32.0, 31.4
	Starting current A 50/60Hz	43.8/39.1	83/77	83/77	98/91	135/135	135/135	83/77	98/91	135/135
Refrigerant		R-407C								
Air outlet/inlet piping bore size (*6)		Union Rc2		Flange 2 1/2B	Flange 3B		Flange 4B	Flange 5B		Flange 6B
Weight kg		148	215	238	346	346	532	790	870	940

*1: Outer panel: Quality cool white (Munsell No. 5GY7.5/0.5)
Base: Munsell No. N3.0

*2: ANR shows conditions of 20°C atmospheric pressure and relative humidity 65%.

*3: This is a value converted to the intake condition of the air compressor in an environment of 32°C with a relative humidity of 75%.

*4: Contact CKD for information on the dew point performance guarantee.

*5: The power consumption and operation current are both reference values under the rated conditions, and are not guaranteed.

*6: Flange is 10K flange.

How to order (water-cooling)

GT9 **075** W - **G** - **AC380V**

A Capacity category

B Option
*1

C Voltage
*2

Discontinued model

Code	Content
A Capacity category	
075	75 kW
090	90 kW
120	120 kW
150	150 kW
190	190 kW
240	240 kW
300	300 kW
380	380 kW
450	450 kW
B Option	
Blank	Standard products
G	Different voltage compatible
H2	SUS nameplate
H3	Simple export packaging
N1	Copper tube rust proof coating
C Voltage	
200 VAC	
220 VAC (60Hz only standard)	
230 VAC	
240 VAC	
380 VAC	
400 VAC	
415 VAC	
440 VAC	
480 VAC	

⚠ Precautions for model No. selection

- *1: Indicate options in alphabetical order.
- *2: Specify the voltage for item **C** even when the model is a standard product.
Example: GT9090W-AC200V
- *3: Option H3 is packaged in plywood.
- *4: The instruction manual and nameplates are provided in Japanese and English.
However, the proof pressure certificate (GT9240W and higher) is available as Japanese text only. Contact CKD when an English version is required.
- *5: Contact CKD if a photo of the completed product is required.
- *6: Contact CKD to designate the color of the body panel.

Selection guide

(1) Temperature compensation coefficient

Inlet air temperature (°C)	35		40		45	
Pressure dew point (°C)	10	15	10	15	10	15
Coefficient	1.20	1.29	1.00	1.09	0.80	0.87
Inlet air temperature (°C)	50		55		60	
Pressure dew point (°C)	10	15	10	15	10	15
Coefficient	0.60	0.65	0.40	0.44	0.20	0.22

(2) Inlet air pressure coefficient

Inlet air pressure (MPa)	0.10	0.20	0.29	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.93	0.98
Coefficient	0.60	0.66	0.72	0.73	0.80	0.87	0.93	1.00	1.07	1.13	1.15	1.19

(3) Upper limit coefficient

Working cond (inlet press (MPa))	0.10	0.20	0.29	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.93	0.98
Coefficient	0.77	0.85	0.92	0.94	1.03	1.12	1.19	1.29	1.38	1.45	1.48	1.53

When determining the appropriate model from the standard processing air rate of each model No.

Standard processing air rate × (1) Temperature correction coefficient × (2) Inlet air pressure coefficient = Maximum processing air rate

*1: Select with conditions where the value of the product of each coefficient ((1)×(2)) does not exceed the upper limit coefficient of (3).

Conditions	Working conditions	Selecting conditions	Coefficient
Inlet air temperature	30 to 33°C	35°C	(1) 1.20
Pressure dew point	10°C	10°C	
Inlet air pressure	0.55 to 0.75 MPa	0.5 MPa	(2) 0.87
Frequency	50 Hz	50 Hz	50 Hz

Substitute the above conditions in the above formula and determine the processing air rate in cases when GT9150W is used.

Product of each coefficient

(1) × (2) = 1.20 × 0.87 = 1.04

As the (3) upper limit coefficient of 1.12, when the inlet air pressure of the working conditions is 0.5 MPa, is not exceeded, the max. processing air rate will be 25.5 (standard processing air rate) × 1.04 = 26.5 m³/min(ANR).

If the used air quantity is less than or equal to this value, select that model.

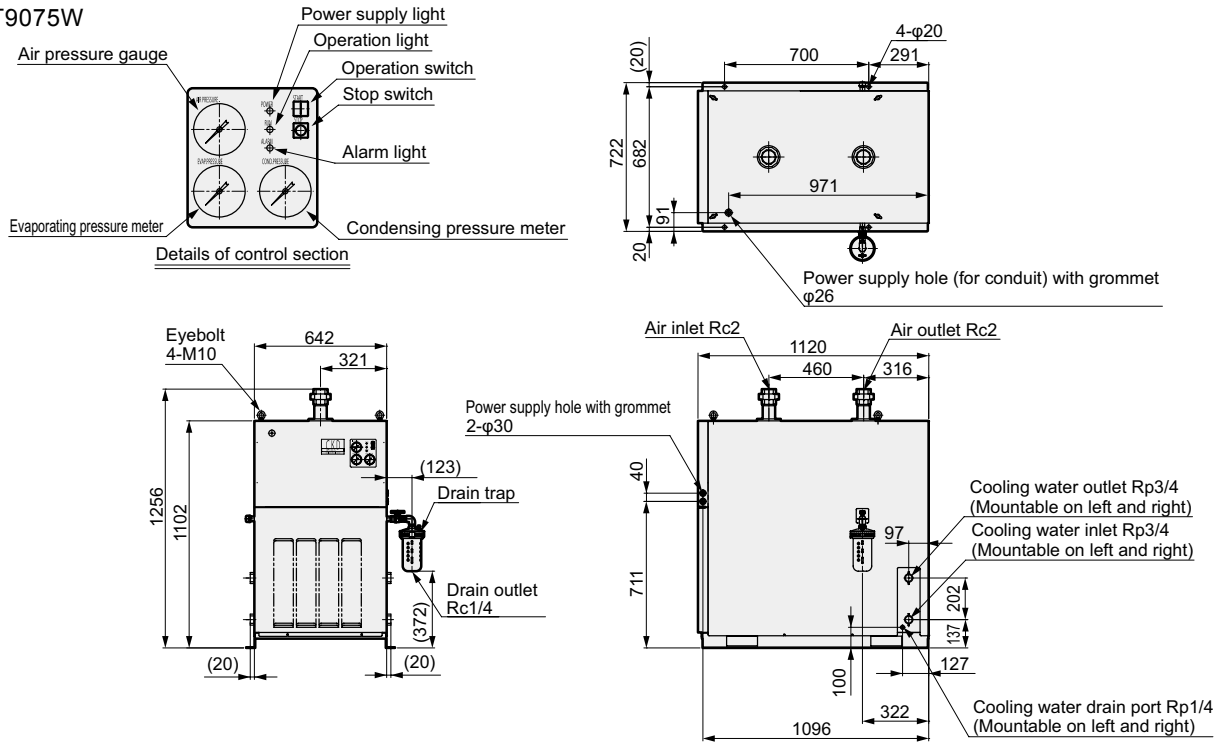
*2: For compatibility with pressure dew points of less than 10°C, contact CKD separately.

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F.R.L
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PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
SpdContr
Silncr
CheckV/
other
Jnt/tube
AirUnt
PrecsCompn
Mech/
ElecPresSw
ContactSW
AirSens
PresSW
Cool
AirFloSens/
Contr
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending

GT9000W Series

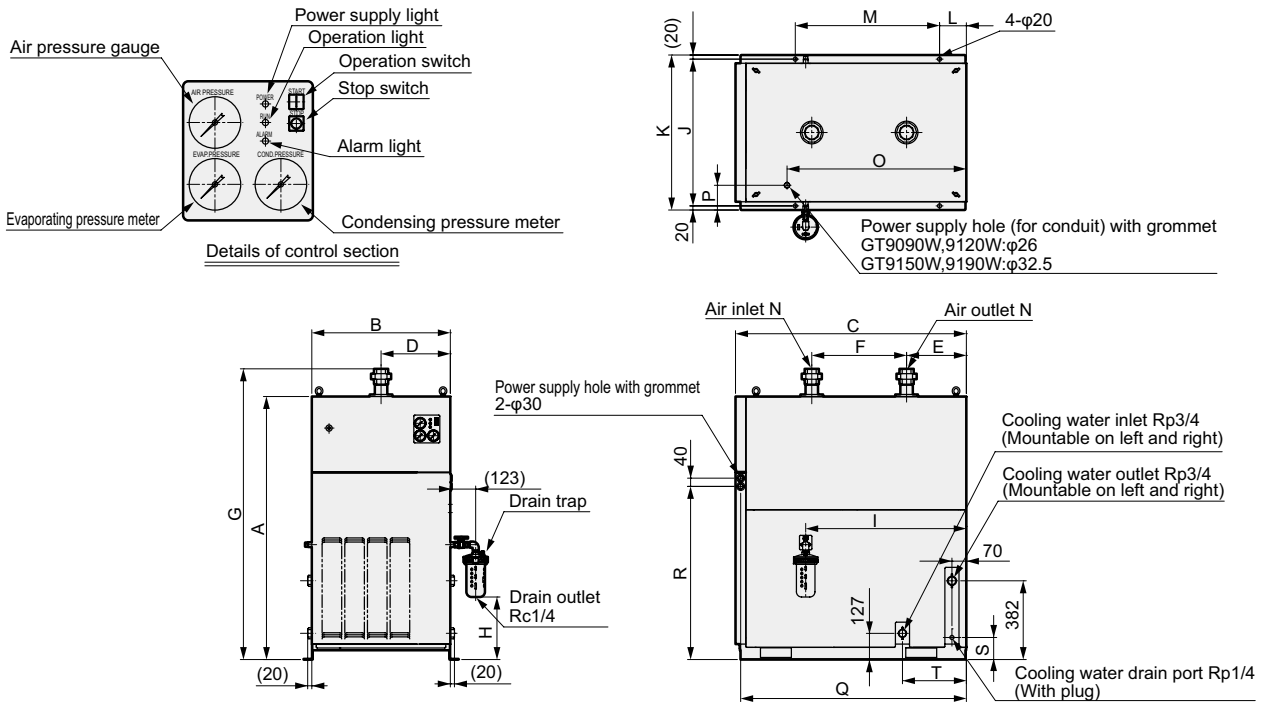
Dimensions

● GT9075W



- *1: Installation of the drain trap can be selected to be on either the right or left side panel. The installation position will be symmetrical on both the right and left side panels.
 *2: Select either the right or left panel for installation of the cooling water piping of GT9075W. The installation position will be symmetrical on both the right and left side panels.

● GT9090W to GT9190W



- *1: Select either the right or left panel for installation of the cooling water piping.
 *2: Installation of the drain trap can be selected to be on either the right or left side panel.

Model No.	A	B	C	D	E	F	G	H	I	J	K
GT9090W	1276	672	1120	336	290	460	1411	(303)	780	712	752
GT9120W	1276	672	1260	336	403	655	1375	(221)	295	712	752
GT9150W	1332	950	1290	475	296	720	1432	(221)	260	990	1030
GT9190W	1332	950	1290	475	226	860	1432	(221)	260	990	1030

Model No.	L	M	N	O	P	Q	R	S	T
GT9090W	130	700	Union Rc2	870	120	1095	840	107	310
GT9120W	214	935	Flange 2 1/2B	1010	120	1235	840	107	445
GT9150W	245	935	Flange 3B	990	116	1265	896	95	475
GT9190W	245	935	Flange 3B	990	116	1265	896	95	475

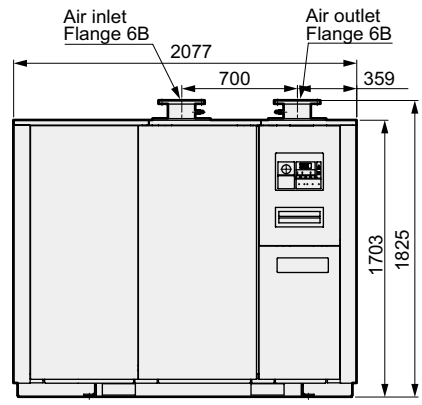
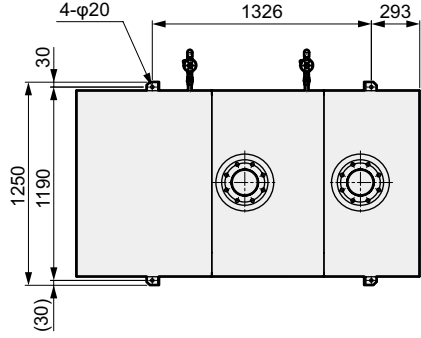
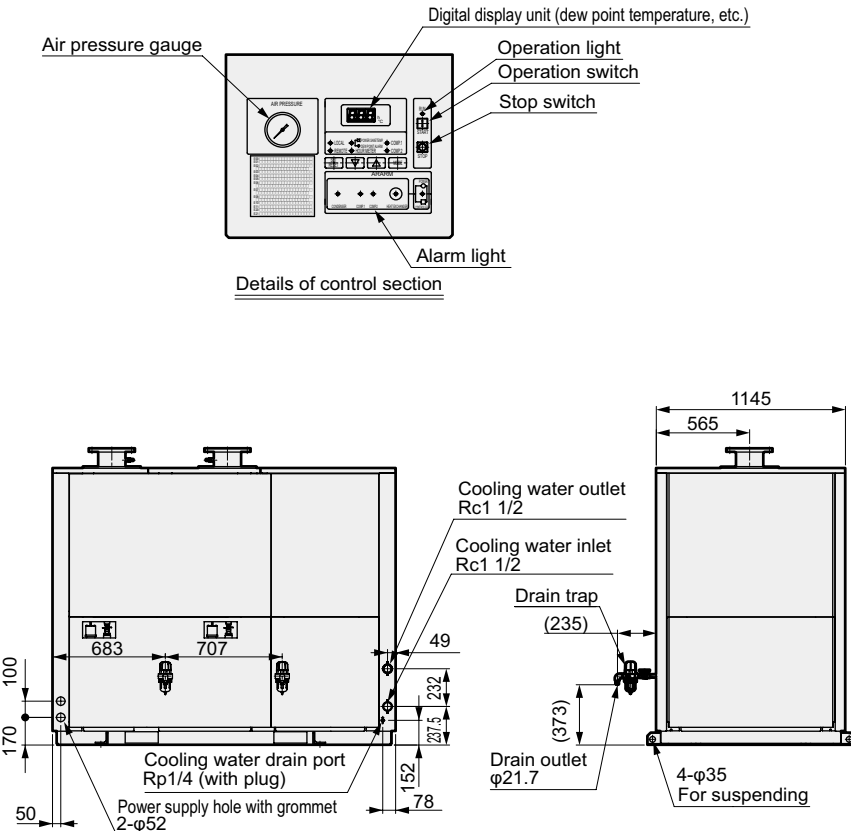
F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FimResistFR
Oil-ProhR
MedPresFR
No Cu/ PTFE FRL
Outdrs FR
F.R.L (Related)
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
SpdContr
SiIncr
CheckV/ other
Jnt/tube
AirUnt
PrecsCompn
Mech/ ElecPresSw
ContactSW
AirSens
PresSW Cool
AirFloSens/ Contr
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

GT9000W Series

F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FimResistFR
Oil-ProhR
MedPresFR
No Cu/ PTFE FRL
Outdrs FR
F.R.L (Related)
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneur
AirBoost
SpdContr
Silncr
CheckV/ other
Jnt/tube
AirUnt
PresCompn
Mech/ ElecPresSw
ContactSW
AirSens
PresSW Cool
AirFloSens/ Contr
WaterRtSens
TotAirSys (Total Air)
TotAirSys (Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

Dimensions

● GT9450W



*1: The dew point display value is a guide, and is not the actual dew point.
To measure the actual dew point, measure the secondary side air with a dew point gauge.

MEMO

F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FimResistFR
Oil-ProhR
MedPresFR
No Cu/ PTFE FRL
Outdrs FR
F.R.L (Related)
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
SpdContr
Silncr
CheckV/ other
Jnt/tube
AirUnt
PrecsCompn
Mech/ ElecPresSw
ContactSW
AirSens
PresSW Cool
AirFloSens/ Contr
WaterRtSens
TotAirSys (Total Air)
TotAirSys (Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FimResistFR
Oil-ProhR
MedPresFR
No Cu/
PTFE FRL
Outdrs FR
F.R.L
(Related)
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
SpdContr
Silncr
CheckV/
other
Jnt/tube
AirUnt
PresCompn
Mech/
ElecPresSw
ContactSW
AirSens
PresSW
Cool
AirFloSens/
Contr
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending



Refrigeration air dryer Xeroaqua (Inverter controlled water-cooling)

GT9000WV2 Series

For direct air compressor connection, standard inlet air

● Applicable air compressor: 710, 960 kW

JIS symbol



Specifications

Model No.		GT9710WV2	GT9960WV2
Applicable air compressor		710	960
Working range	Working fluid	Compressed air	
	Inlet air temperature °C	5 (41°F) to 60 (140°F)	
	Inlet air pressure MPa	0.1 (≈15 psi, 1 bar) to 0.93 (≈130 psi, 9.3 bar)	
	Cooling water inlet pressure MPa	0.2 (≈29 psi, 2 bar) to 0.74 (≈110 psi, 7.4 bar)	
	Ambient temperature °C	2 (35.6°F) to 50 (122°F)	
Rating	Processing flow rate m³/min (ANR) 50/60Hz (*2)	139.1	184.2
	Processing flow rate m³/min (Compressor intake condition) 50/60Hz (*3)	146.1	193.4
	Inlet air temperature °C	40 (104°F)	
	Inlet air pressure MPa	0.7 (≈100 psi, 7 bar)	
	Cooling water inlet temperature °C	32 (89.6°F)	
	Cooling water volume m³/h 50/60Hz	10.7	14.2
	Ambient temperature °C	32 (89.6°F)	
	Outlet air pressure dew point °C	10 (50°F) (*4)	
	Outlet air pressure dew point switching range °C	10 (50°F) to 18 (64.4°F) (Manual setting/outside temperature linkage switching function equipped)	
	Power supply	Three-phase 200/200, 220 VAC 50/60 Hz (*5)	
Elec	Power consumption kW 50/60Hz (*6)	14.8	19.6
Spec	Operating current A 50/60Hz (*6)	49.0	68.6
Refrigerant		R-407C	
Air outlet/inlet piping bore size (*7)		Flange 8B	
Weight kg		1330	2200

*1: Outer panel : Quality cool white (Munsell No. 5GY7.5/0.5)
Base : Munsell No. N3.0

*2: ANR shows conditions of 20°C atmospheric pressure and relative humidity 65%.

*3: This is a value converted to the intake condition of the air compressor in an environment of 32°C with a relative humidity of 75%.

*4: Contact CKD for information on the dew point performance guarantee.

*5: Make sure that the imbalance between phases of the power supply voltage is within ±2%.

*6: The power consumption and operation current are both reference values under the rated conditions, and are not guaranteed.

*7: Flange is 10K flange.

How to order (inverter controlled water-cooling)

GT9 **710** WV2- **G** - **AC380V**

A Capacity category

B Option
*1

C Voltage
*2

⚠ Precautions for model No. selection

- *1: Indicate options in alphabetical order.
- *2: Specify the voltage for Item **C** even when the model is a standard product.
Example: GT9710WV-AC200V
- *3: Option H3 is packaged in plywood.
- *4: The instruction manual and nameplates are provided in Japanese and English.
However, the proof pressure certificate is available as Japanese text only. Contact CKD when an English version is required.
- *5: Contact CKD if a photo of the completed product is required.
- *6: Contact CKD to designate the color of the body panel.

Code	Content
A Capacity category	
710	710 kW
960	960 kW
B Option	
Blank	Standard products
G	Different voltage compatible
H2	SUS nameplate
H3	Simple export packaging
N1	Copper tube rust proof coating
C Voltage	
200 VAC	
220 VAC (60Hz only standard)	
230 VAC	
240 VAC	
380 VAC	
400 VAC	
415 VAC	
440 VAC	
480 VAC	

Selection guide

(1) Temperature compensation coefficient

Inlet air temperature (°C)	35		40		45	
Pressure dew point (°C)	10	18	10	18	10	18
Coefficient	1.20	1.20	1.00	1.20	0.80	0.96
Inlet air temperature (°C)	50		55		60	
Pressure dew point (°C)	10	18	10	18	10	18
Coefficient	0.60	0.72	0.40	0.48	0.20	0.24

(2) Inlet air pressure coefficient

Inlet air pressure (MPa)	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.93
Coefficient	0.60	0.66	0.73	0.80	0.87	0.93	1.00	1.07	1.13	1.15

(3) Upper limit coefficient

Working cond (inlet press (MPa))	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.93
Coefficient	0.72	0.79	0.87	0.96	1.04	1.11	1.20	1.28	1.35	1.38

When determining the appropriate model from the standard processing air rate of each model No.

Standard processing air rate × (1) Temperature correction coefficient × (2) Inlet air pressure coefficient = Maximum processing air rate

*1: Select with conditions where the value of the product of each coefficient ((1)×(2)) does not exceed the upper limit coefficient of (3).

Conditions	Working conditions	Selecting conditions	Coefficient
Inlet air temperature	38 to 43°C	45°C	(1) 0.80
Pressure dew point	15°C	10°C	
Inlet air pressure	0.55 to 0.75 MPa	0.5 MPa	(2) 0.87
Frequency	50 Hz	50 Hz	50 Hz

Substitute the above conditions in the above formula and determine the quantity of handling air in cases when GT9710WV is used.

Product of each coefficient

$$(1) \times (2) = 0.80 \times 0.87 = 0.69$$

As the (3) upper limit coefficient of 1.04, when the inlet air pressure of the working conditions is 0.5 MPa, is not exceeded, the max. processing air rate will be 139.1 (standard processing air rate) × 0.69 = 95.9 m³/min(ANR).

If the used air quantity is less than or equal to this value, select that model.

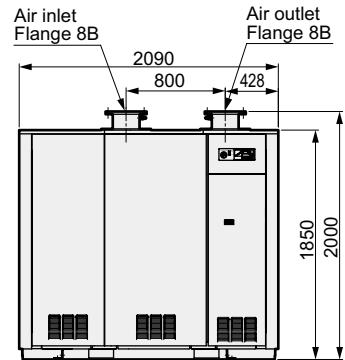
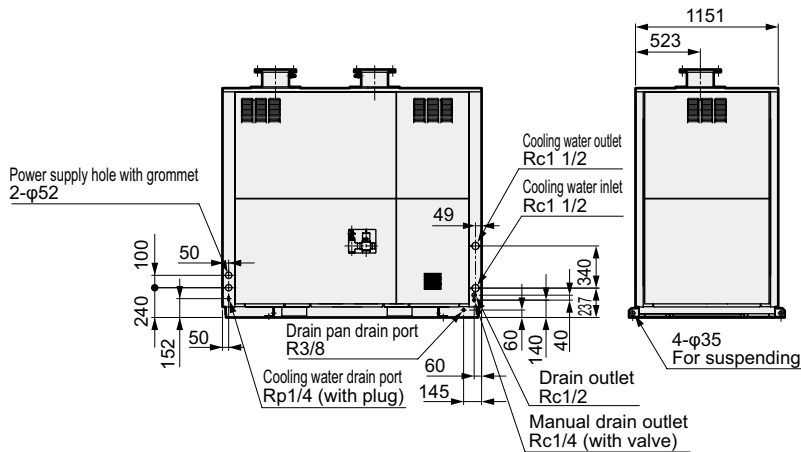
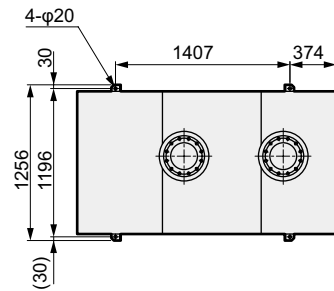
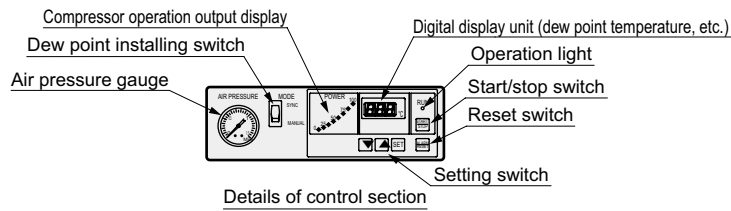
F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FimResistFR
Oil-ProhR
MedPresFR
No Cu/
PTFE FRL
Outdrs FR
F.R.L
(Related)
CompFRL
LgFRL
PrescR
VacF/R
Clean FR
ElecPneur
AirBoost
SpdContr
Silncr
CheckV/
other
Jnt/tube
AirUnt
PresCompn
Mech/
ElecPresSw
ContactSW
AirSens
PresSW
Cool
AirFloSens/
Contr
WaterRtSens
TotAirSys
(Total Air)
TotAirSys
(Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending

GT9000WV2 Series

F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FimResistFR
Oil-ProhR
MedPresFR
No Cu/
PTFE FRL
Outdrs FR
F.R.L
(Related)
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneur
AirBoost
SpdContr
Silncr
CheckV/
other
Jnt/tube
AirUnt
PresCompn
Mech/
ElecPresSw
ContactSW
AirSens
PresSW
Cool
AirFloSens/
Contr
WaterRtSens
TotAirSys
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RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg
etc
Ending

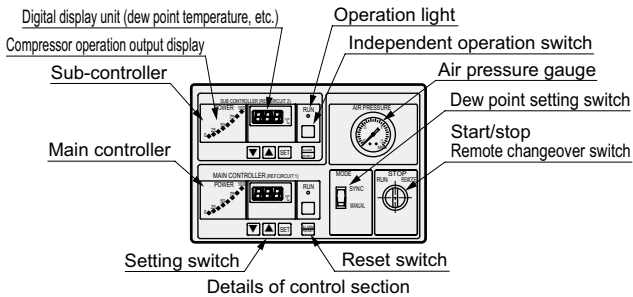
Dimensions

● GT9710WV2

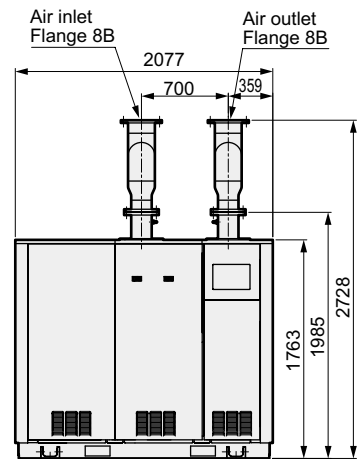
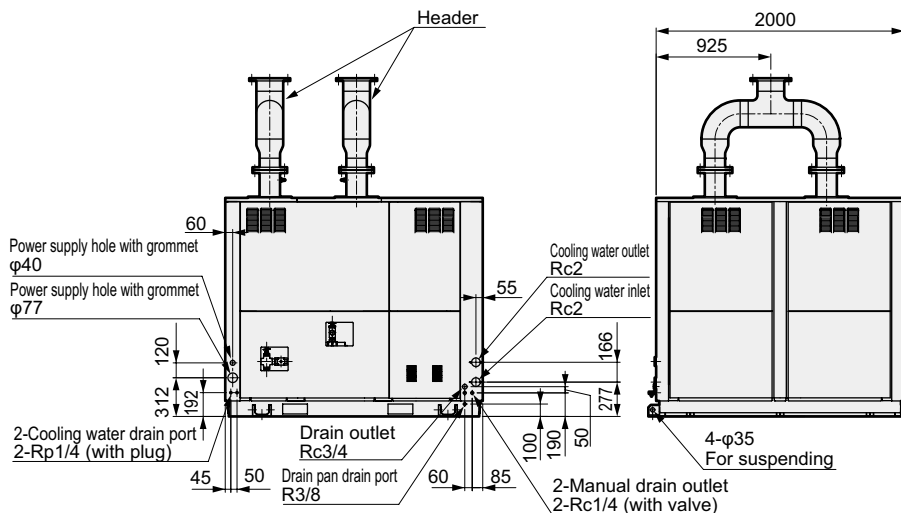
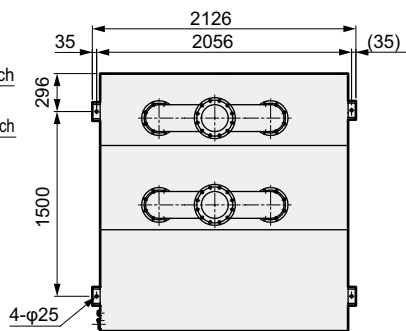


*1: The dew point display value is a guide, and is not the actual dew point.
To measure the actual dew point, measure the secondary side air with a dew point gauge.

● GT9960WV2



Note 1: Display contents of the main controller and sub-controller are the same.

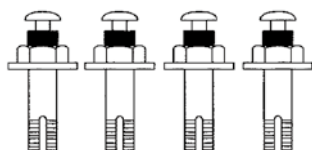


*2: The bolts and nuts for installation of the header and gasket are attached products.

*3: The dew point display value is a guide, and is not the actual dew point.
To measure the actual dew point, measure the secondary side air with a dew point gauge.

Accessory (sold separately)

■ Foundation bolt



Core rod implant foundation bolts: Set of 4, made of stainless steel

Compatible model		No.	RD-QFL-436465	RD-QFL-436466
		Size	M16×L100	M20×L130
GT9075	GT9075W		○	
GT9090	GT9090W		○	
GT9120	GT9120W		○	
GT9150	GT9150W		○	
GT9190	GT9190W		○	
GT9240	GT9240W		○	
GT9300	GT9300W		○	
GT9380	GT9380W		○	
GT9450	GT9450W		○	
	GT9710WV2		○	
	GT9960WV2			○

■ Companion flange

Set of insert welded flanges, hexagon head bolts, nuts, and gasket

Compatible model		No.	RD-KFL-436467	RD-KFL-436468	RD-KFL-436469	RD-KFL-436470	RD-KFL-436471	RD-KFL-436472
		Size	Flange 2 1/2B	Flange 3B	Flange 4B	Flange 5B	Flange 6B	Flange 8B
GT9120	GT9120W		○					
GT9150	GT9150W			○				
GT9190	GT9190W			○				
GT9240	GT9240W				○			
GT9300	GT9300W					○		
GT9380	GT9380W					○		
GT9450	GT9450W						○	
	GT9710WV2							○
	GT9960WV2							○

F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FimResistFR
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MedPresFR
No Cu/ PTFE FRL
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F.R.L (Related)
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AirBoost
SpdContr
Silncr
CheckV/ other
Jnt/tube
AirUnt
PrecsCompn
Mech/ ElecPresSw
ContactSW
AirSens
PresSW Cool
AirFloSens/ Contr
WaterRtSens
TotAirSys (Total Air)
TotAirSys (Gamma)
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending