

タイキン 海上コンテナ冷凍装置

DAIKIN

Marine type Container Refrigeration Unit

サービスガイド・パーツリスト Service manual・Parts list

Model

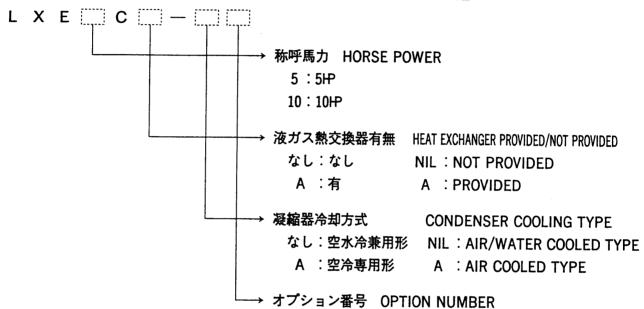
LXE 1 OCA-2

タイキン工業株式会社 DAIKIN INDUSTRIES, LTD.

TR97-20A

本書は標準機と異なる箇所のみ記載しておりますので、本書に記載なき事項は別途発行のサービスガイド(TR94-01)及びパーツリスト(TR94-03)を併せて参照下さい。 The parts which are different from that of the standard model only are described in this manual. Regarding the items which are not described in this manual, refer to Service Manual (TR94-02) and Parts List (TR94-03) as well.

機種名について NOMENCLATURE OF MODEL NAME



注) オプション番号の後に R がつく機種は、改造機で、特別な仕様が加えられていることを意味 します。

NOTE) 1. "R" GIVEN AFTER OPTION NUMBER STANDS FOR "REVISE" AND IT IS GIVEN FOR THE UNIT WHICH IS SPECIALLY MODIFIED.

機種と電子コントローラの組合せは下記の様になります。

The combination of models and electronic controllers is as follows.

機種名 M odel name	コントローラ Controller
LXE5C-1	DECOSIII
LXE5C-XX	DECOSIIIa
LXE10C(-A)	DECOSIII
LXE10CA(-A)	DECOSIIIa

機種名の中のXXは、LXE5C-1以外の20フィート用ユニットを示します。

[&]quot;XX" of model name indicates unit for 20 feet units excepting LXE5C-1.

掲載機種

このサービスガイドは、LXE10CA-2 の特長、機能、および取扱いについて(標準機と 異なる箇所のみ) 掲載しております。

機種名	LXE10ÇA- 2	LXE10CA-*	LXE10CA-A *
凝縮器冷却方式	空水冷兼用型 (水冷凝縮器付き)	空水冷兼用型 (水冷凝縮器付き)	空冷専用型
除湿機能有無 あり		な	L

機種名の中の"*"は"2"以外のオプション番号を示します。

Relevant models

This manual describes the features, functions, and operation of the container LXE10CA-2. (The items which are different from that of the standard products only are described in this manual.)

Model	LXE10CA- 2	LXE10CA-*	LXE10CA-A *
Condenser cooling type	Air/water cooled type	Air/water cooled type	Air cooled type
Dehumidity function	Some	None	

[&]quot;*" of model name indicates option number excepting "2".

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Safety Precautions

Before operating, inspecting or repairing, observe the following items.

A DANGER

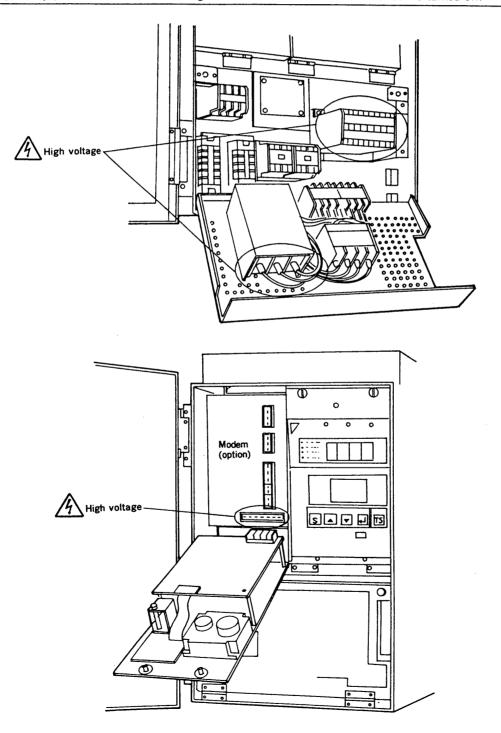
Before disconnecting the power plug, be sure to turn off the power supply.



Before inspecting the inside of the control box, be sure to turn off the main power supply.



*Because the high voltage remains applied to the voltage selector, the circuit breaker and the optionally provided modem even though the circuit breaker in the control box is turned off.

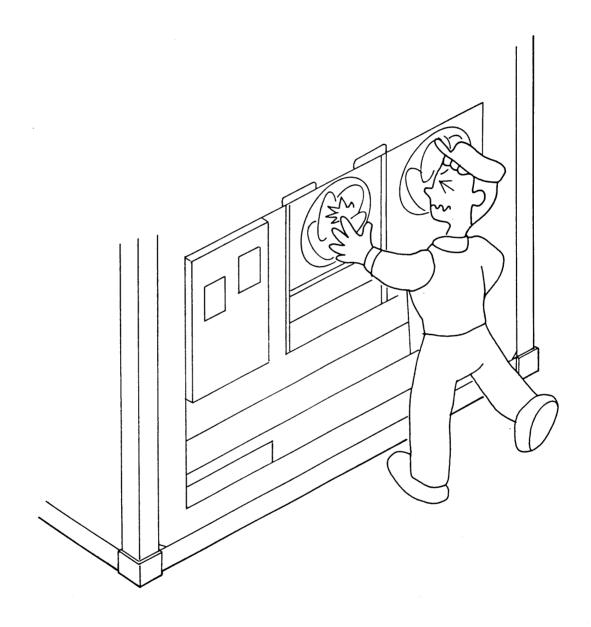


MARNING

Be sure not to touch the condenser fan(s) during electricity being applied.



Before removing condenser fan cover, turn of circuit breaker and desconnect power plug. Condenser fan may start/stop automatically for refrigerant high pressure control.



Chapter for operation and service work

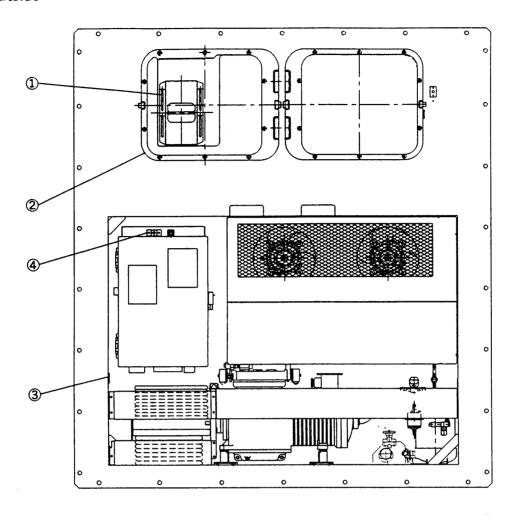
(The items which are different from that of the standard products only are described in this manual)

1. Main specifications

Item Specifications						
Condenser cooling syste	m	Air/water-cooled type				
Controller		DECOSIIIa DECOSIII a				
Power supply		AC 3-phase 200V 50Hz, 200V/220V/230V 60Hz 380V/400V/415V 50Hz, 440V/460V 60Hz (Dual voltage system with voltage selector) (Within $\pm 10\%$ of the voltage change breadth)				
Compressor		Semi-hermetic type compressor (Output: 5.5kW)				
Evaporator		Cross-finned coil type				
Air-cooled condenser		Cross-finned coil type				
Water-cooled condenser		Shell and coil type				
For condenser and evapor	orator fan	Propeller type directly driven by motor				
For condenser and evapor	orator fan motor	Three-phase squirrel-cage induction motor				
	System	Hot-gas defrost system				
Defrosting	Initiation	Timer or manual switch				
	Termimation	Piping temperature of the evaporator outlet detected by a thermister				
Refrigerant control		Thermostatic expansion valve				
Capacity control		Hot gas bypass control with modulating control valve Compressor cylinder unloader				
Dehumidity control		ON-OFF control with again heat heater (only chilled mode)				
Protective safe devices		Circuit breaker, PT/CT board (for over current protection and reverse divine). Compressor thermal protector, fan-motor thermal protector, high-pressure switch, fusible safety plug, fuse (10A)×5				
Refrigerant (charged amount)		HFC134a: 5.0 (kg)×11.0 (lbs)				
Refrigeration oil (charge	d amount)	CASTROL ICEMATIC SW46: 4.0 (2)				
Unit weight		Approx. 670 (kg)/ 1477 (lbs)				

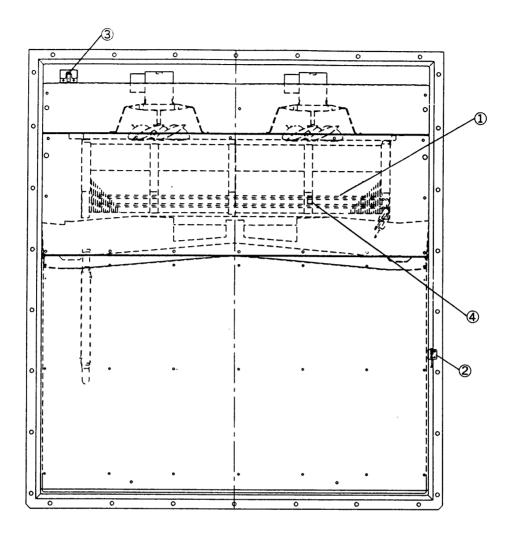
2. Name of components

2.1 Outside



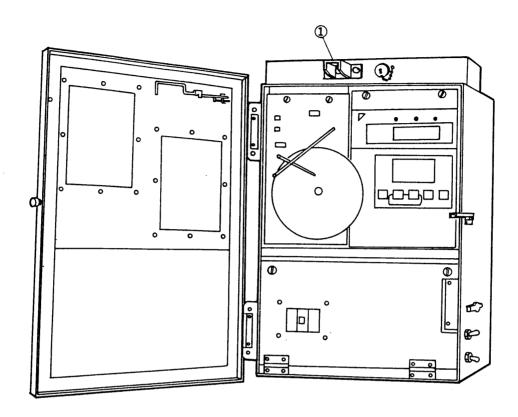
- ① Ventilator
- 2 Accesspanel
- ③ Thermometer check point { The thermometer is used to measure the internal supply air temperature and internal CO₂ concentration
- Dehumidification operation lamp

2.2 Inside

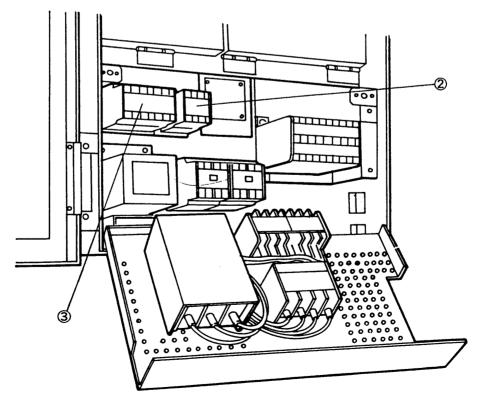


- ① Electric heater (For reheating)
- ② Supply sensor, and supply sensor for recorder (SS, RSS)
- 3 Humidity sensor
- 4 Electric heater thermostat

2.3 Control box



① Red



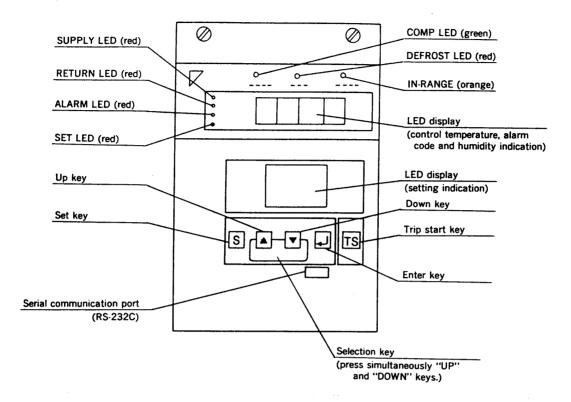
- ① Dehumidification operation lamp (DHuL)
- ② Electric heater contactor (EHC)
- 3 Phase sequence contactor (PCC1. 2)

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3. Operation

3.1 Basic operations procedure of electronic controller

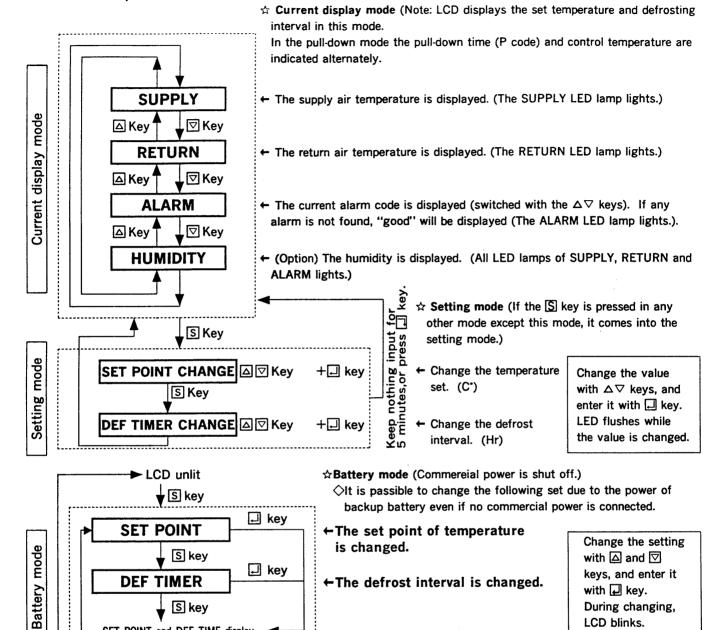
3.1.1 Indication panel





When SUPPLY, RETURN, ALARM lamps LED are turued on at the same time the display indicates Inside humidity on LED.

3.1.2 Panel operation





No input for 30 seconds

SET POINT and DEF TIME display S key

> If the ambient temperature is -20°C or lower, the battery mode will sometimes not activate since the performance of the back-up battery drops. Since this is not a trouble, connect the commercial power supply for setting.

LCD blinks.



Be sure to initialize after replacing the controller.



- Established humidity is fixed to 75% RH and not indicated.
- · Only inside humidity is indicated on LED.

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3.1.3 Dehumidity control setting

This unit is equipped with dehumidity control function. According to the cago loaded, it is necessary to turn dehumidity control ON/OFF.

Dehumidity control can be turned ON/OFF from the controller (DECOSIIIa) display panel.

Settings

Dehumidity control is turned ON/OFF from the "dHu" item in the Option function setting mode.

Dehumidity control function	"dHu" setting	Dehumidification operation lamp
To use	on (PROVIDED)	Lit
To not use	off (NOT PROVIDED)	Out



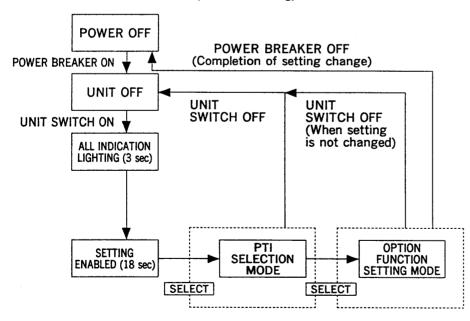
Always turn OFF the "dHu" item for all cagos except Flower bulb.



The dehumidification operation lamp does not light/go out in synch with the electric heater turning ON/OFF.

Panel opertion

- 1 If the unit switch is ON, turn it OFF.
- Turn ON the unit switch. After 3 seconds, LCD and LED light. After that within 18 seconds, press SELECT keys for 3 seconds or more.
- ③ Controler display PTI selection mode. Press <u>SELECT</u> keys for 3 seconds or more further. Controller display Option Function setting mode.
- 4 Press the S key twice. "dHu" will appear on the controller display. (For details, see the Option Function setting mode flow on the back of this page.)
- ⑤ Select "on" (provided) or "off" (not provided) with the △ and ▽ keys.
- 6 Press the key to fix the setting.
- Turn off circuit breaker without fail (To fix the setting)





After changing settings, if the unit is turned OFF from the unit switch without shutting OFF power from the circuit breaker first

- The controller will not recognize the new settings. The next time the unit is turned ON from the unit switch, the controller will automatically return to the setting mode and the last updated item. (The display and all the LEDs light up when control power is activated.)
- · After changing settings, always shut OFF power from the circuit breaker without fail.

Dehumidification control cannot be done by water cooled operation



If unit operate with water cooled operation on condition that "dHu" setting is "on" position, unit doesn't operate dehumidification control but normal control automatically



When the setting temperature is -3.0°C or below, "dHu" setting should be "off" position.

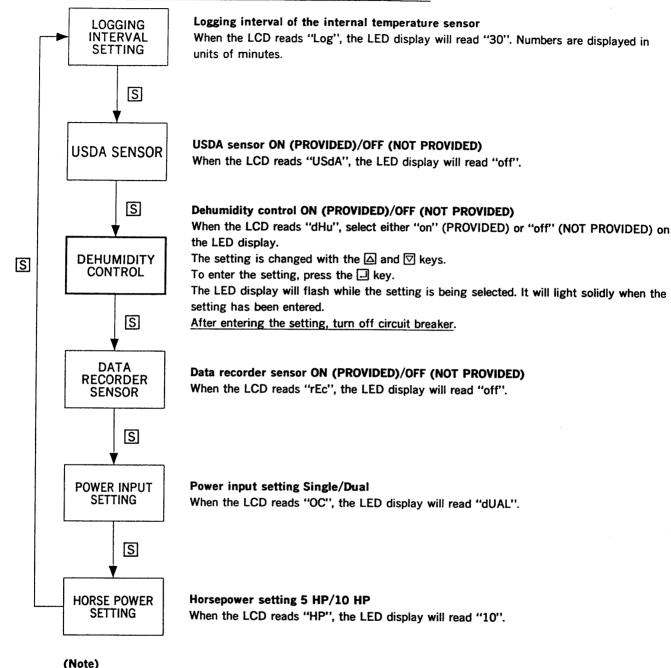
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Option function setting mode

The following data can be checked in the Option function setting mode.

Logging interval setting (15, 30 or 60min), USDA sensor (ON/OFF), Dehumidity control (ON/OFF), Data recorder sensor (ON/OFF), Power input setting (Single/Dual), Horsepower setting (5HP/10HP)

Set dehumidity control (PROVIDED/NOT PROVIDED) before operating the unit.

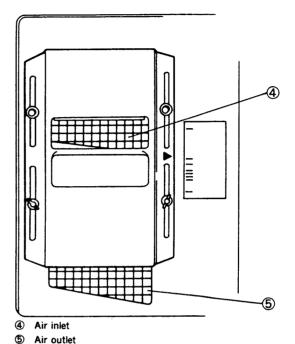


The factory setting is displayed all items except for dehumidity control.

3.2 Ventilator

Handling method

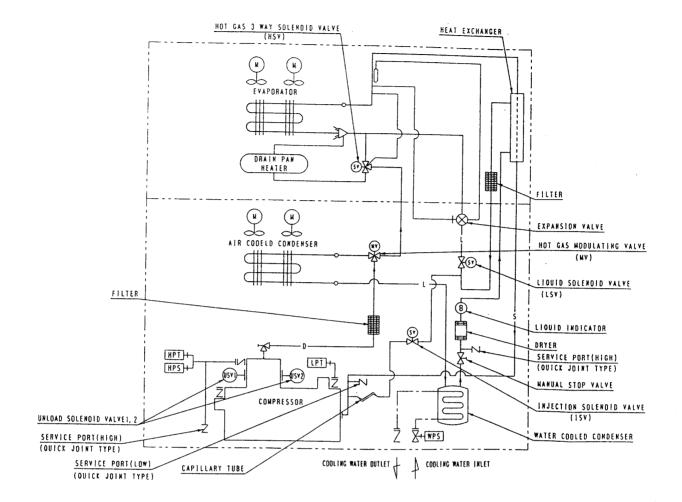
- 1) Unnecessary ventilation (Frozen mode) Set the handle to "CLOSE".
- 2) Necessary ventilation (chilled mode) Slide the handle upward.
 - * Set the arrow mark of the ventilator at the graduation on the scale to adjust the ventilation as desired according to the cargo.



- 1 Ventilator cover
- ② Handle
- 3 Nameplate

- **A**CAUTION
- Be sure to keep the ventilator closed during transportation of the frozen cargo.
- In case the cargo dosent need dehumidity control, be sure to set the scale under nomal open and adjust a ventilator.

4. Piping diagram



HPS	HIGH PRESSURE SWITCH	
HPT	HIGH PRESSURE TRANSDUCER	
LPT	LOW PRESSURE TRANSDUCER	
WPS	WATER PRESSURE SWITCH	

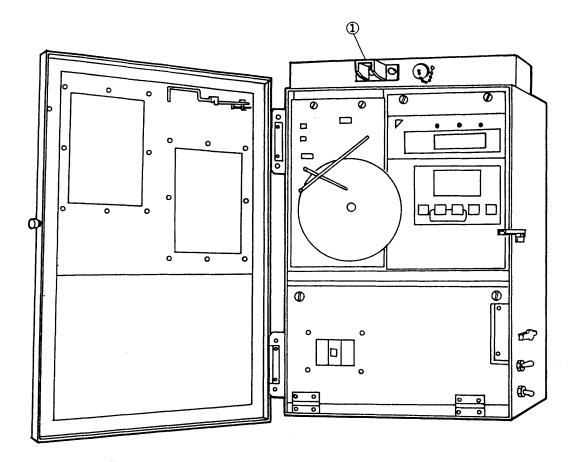
t	LIOUID PIPE
S	SUCTION PIPE
—— D ——	DISCHARGE PIPE
	FLANGE CONNECTION
	FLARE CONNECTION
	WATER PIPE

5. Dehumidity operation LAMP

Pilot lamps on the top of control box.

If shows dehumidity control is functional or not.

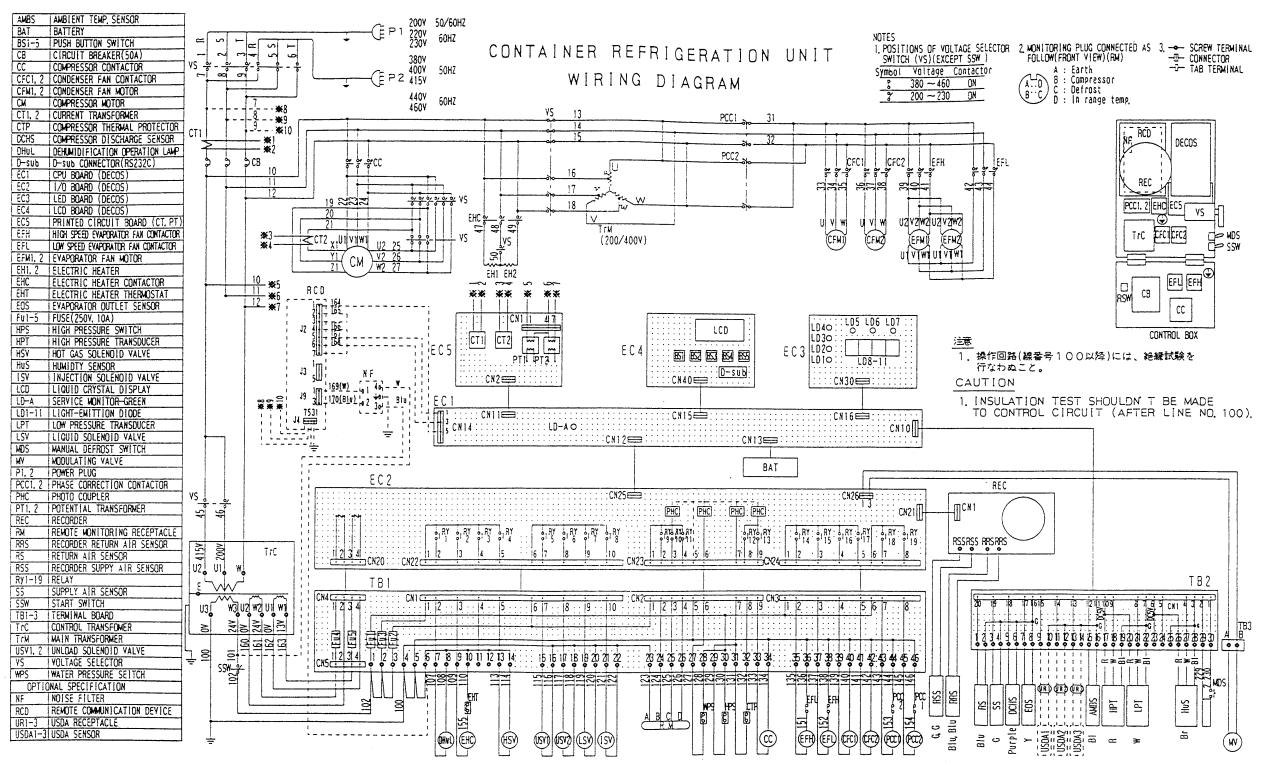
- · Lamps light······When extablished optional function mode of controller "dHu control is runs or not" is set "ON"
- · Lamps light out ······When extablished optional function mode of controller "dHu control is runs or not" is set "OFF"



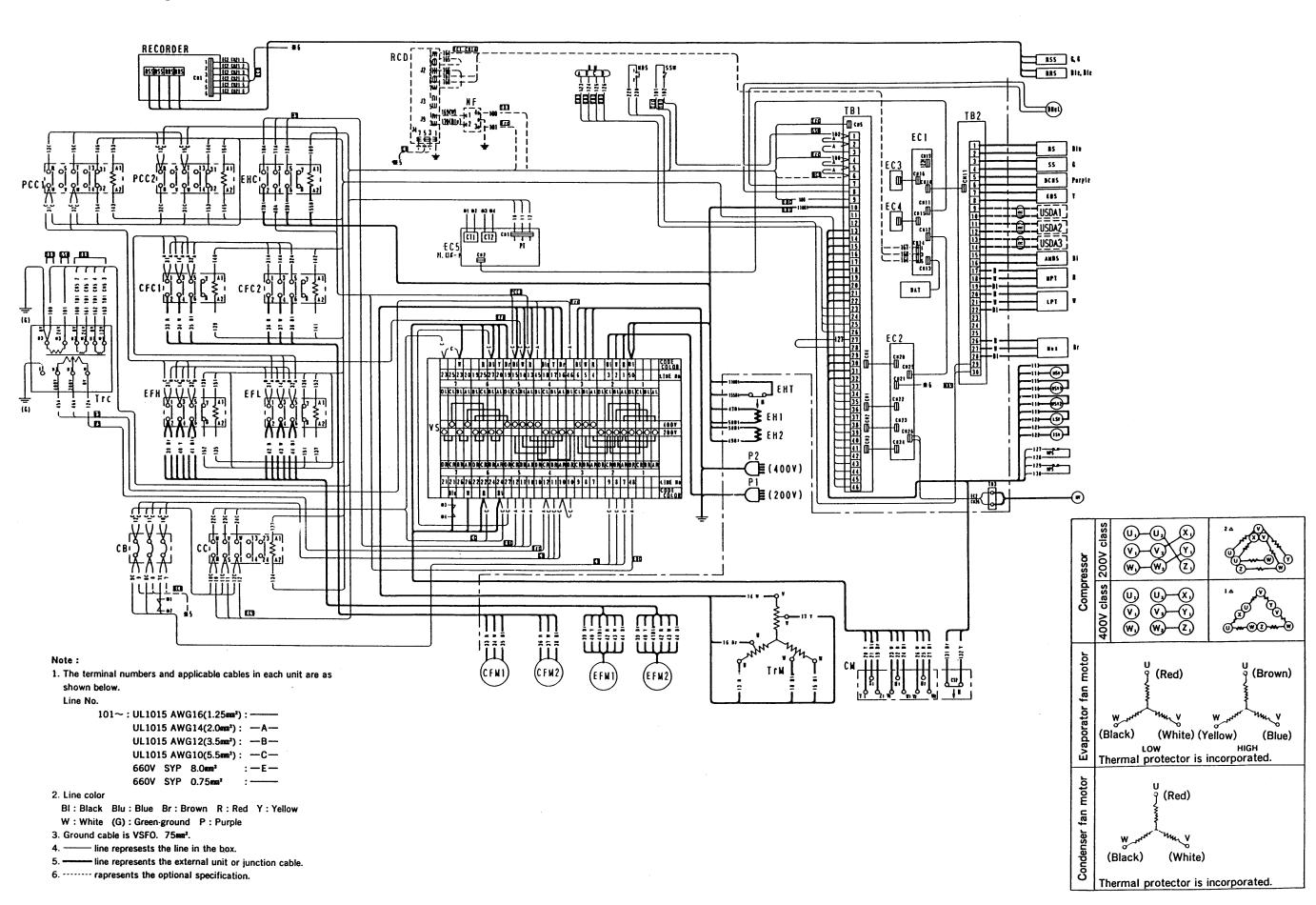
① Dehumidification operation lamp (DHuL) (Red)

6. Electric wiring diagram

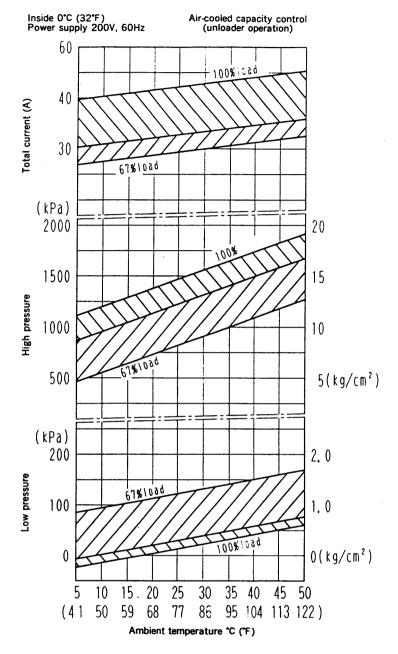
6.1 Schematic wiring diagram



6.2 Actual wiring diagram



7. Operation pressure and running current



	Item	Unit	Amperage
1	Condenser fan motor running current (2 mortors)	Α	1.7 (AC400V)
2	Evaporator fan motor	Α	High speed 3.2 (AC400V)
	running current (2 mortors)	Α	Low speed 0.9 (AC400V)
3	Electric heater	Α	10
3	running current (2 heaters)	Α	1.9

8. Dehumidity operation

The dehumidity control is explained in this item.

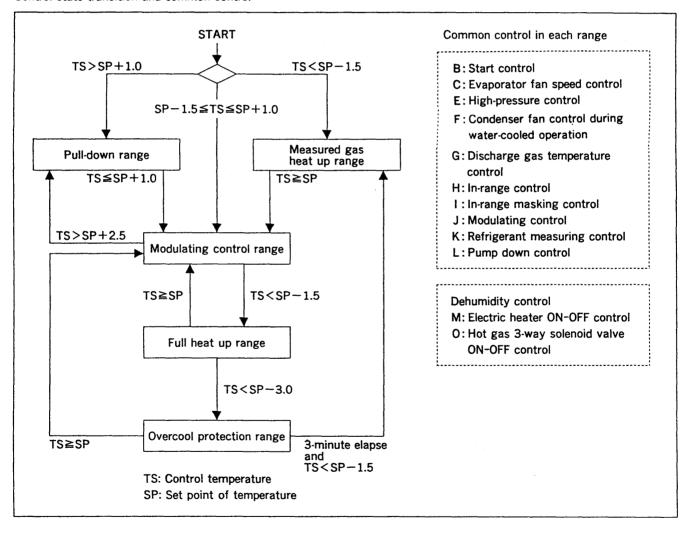
For the other temperature control refer to standard service manual.

This unit is equipped with dehumidity control function.

Dehumidity control can be turned ON/OFF from the controller (DECOSIIIa) display panel.

Dehumidity control setting	Temperature control	Dehumidity control
OFF	Normal control	Without dehumidity control
ON	Normal control	In chilled mode the following modes are automatically switched Mode 1: Full cool (100% load) + Electric heater OFF Mode 2: 67% unload control + Electric heater OFF Mode 3: 67% unload control + Electric heater ON

Control state transition and common control



Operation of magnetic contactor and solenoid valve

	Component name		Pull-down	Modulating control	Full heat up	Overcool protection	Measured gas heat up
0.5	Compressor	CC	0	0	0	×	0
Magnetic contactor	Evaporator fan. High speed	EFH	0	0	0	0	0
ag	Evaporator fan. Low speed	EFL	×	×	×	×	×
2 0	Condenser fan	CF	Δ	Δ	Δ	×	Δ
valve	Liquid solenoid valve	LSV	C	0	0	×	×
\ \ \ \ \ \ \	Injection solenoid valve	ISV	Δ	Δ	×	×	Δ
ig	Hot-gas 3-way solenoid valve	HSV	×	0	×	×	0
Solenoid	Unload solenoid valve 1	USV1	Δ	Δ	0	×	×
So	Unload solenoid valve 2	USV2	×	×	×	×	×
	Opening, modulating valve	MV	0%	0.1~99.9%	100%	0%	100%

Note) O: Energized X: Deenergized A: Depending on the control

Dehumidity control

	Control nome	Control content		Operat	ion mode	
	Control name	Control name Control content		Chilled	Partiol frozen	Defrost
М	Electric heater ON-OFF control	The electric heater is operated on and off to control the innied cumidity		* O		
N	Unload control	According to the reguired cooling capacity the compressor load rate is controlled. Load rate: 100%-67%		0		
0	Hot gas 3 way solenoid valve ON-OFF control	When the in-range lomp is turnedon, Hot gas 3 way solenoid valve is ON to improve the dehumidity performance		* O		

[★] Only in the modulating control range.

M: Electric heater ON-OFF control

The electric heater is operated in the following condition at modulating control range only.

(The electric heater willbe in operation if)

① Container relative humidity is above 75%RH and control temperature is below set point.

(The electric heater will not be in operation if)

- ① Container relative humidity is below 60%RH.
- 2 Control temperature is out-range.
- 3 Control temperature is above setpoint +0.5°C for 15 minutes or more.

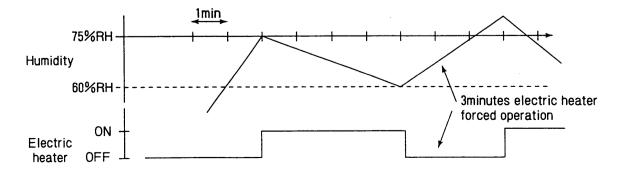
Note) Once the electric heater is turned OFF by the trigger of @3 above, the electric heater is not turned ON in any conditions.

Here, if one of the following conditions is satisfied;

- the power supply is reset.
- the set point temp is changed.
- the defrosting operation is inctiated.

and then if @ above is satisfied, the electric heater is turned ON.

When the electric heater is ON, it is forcibly ON for 3 minutes (3 minutes electric heater forced operation). When it is OFF, it is forcibly OFF for 3 minutes.



N: Unload control

The unload control in the chilled mode executed in the modulating control range alone. The compressor load rate is changed to 100% or 67% load automatically.

Load rate	Control state	Condition of changing leadrate
67%	Pull-down range	TS>10°C
100%	Pull-down range	TS≦10°C
100%→67%	Modulating control range	TS≦SP
67%→100%	Modulating control range	Refer to Case1, 2 on next page

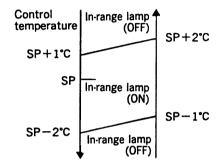
TS: control temperature

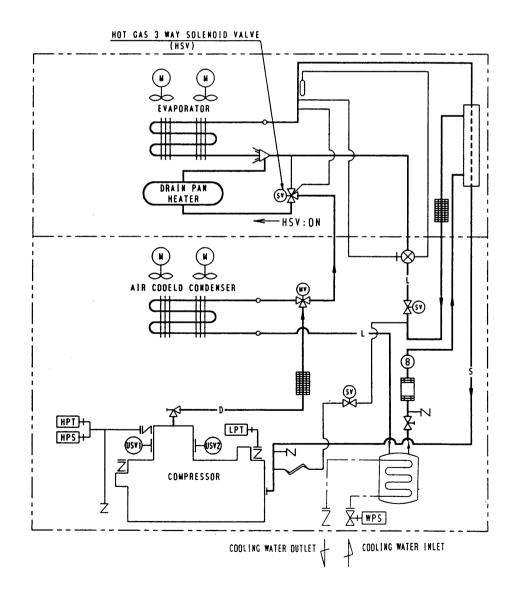
SP: set point

O: Hot gas 3 way solenoid valve ON-OFF control

When the in-range lamp is turned on, Hot gas 3 way solenoid valve is ON to improve the dehumidity performance.

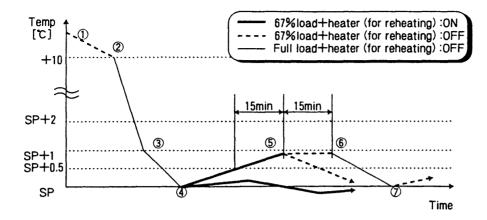
When it becomes out-range, Hot gas 3 way solenoid valve is OFF.





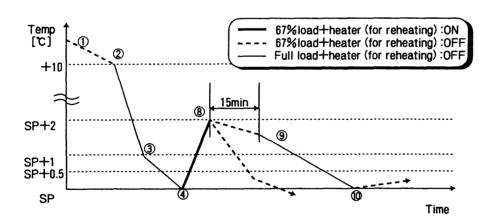
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Control CASE 1



- ① The compressor is operated at 67% load in pull-down range when the control temperature is above +10°C.
- The compressor is operated at full load when the control temperature is below +10°C. (In full load of compressor, the electric heater for reheating is always OFF.)
- When the control temperature is in-range, modulating control starts. At the sametime, Hot gas 3 way solemid valve (HSV) is ON to improve the dehumidity performance. (HSV is coupled with the in-range operation)
- 4 When the control temperature reaches set point, load rate of compessor is changed from 67% to full load and the electric heater is ON. (In case container relative humidity is above 75%RH.)
- When the compressor runs at 67% load, and when the control temperature exceeds SP+0.5°C for 15 min, the electric heater is turned OFF.
 - The electric heater is not turned ON unless the defrosting operation is initiated.
- 6 If the control temperature does not drop to SP+0.5°C or lower within 15 min after the heater stops, the compressor runs at full load.
- When the control temperature reaches set point with the compressor being operated at full load, the load rate is changed to 67% load. (The heater keeps being OFF until next defrost operation...State of (5))

CASE 2



- ® When the control temperature is above SP+2°C with the compressor operated at 67% load, the heater is OFF.
- 9 The compressor is operated at full load at the some as 6.
- When the control temperature reaches set point, load rate of the compressor is changed from full load to 67% at the same as ⑦. (The heater keeps being OFF until next defrost operation...State of ®)

9. Set values of functional and protective devices

Device name	Functio	Activation	Set value	Detection method	Symbol
Electronic	Humidity	OFF	60%RH	Humidity	Llus
controller	setting	ON	75%RH	sensor	Hus
	Prevention of	OFF	71℃	Electric heater	F. 17
Electric heater	over heating	ON	49°C	thermo.	EHT

10. Electronic Controller

10.1 Operation procedure

Refer to the standard manual TR94-01 (Japanese)/TR94-02 (English) about display mode, because this mode is the same method as the existing controller.

But this controller differs from existing it in the following specifications.

- ① Do not display the control humidity set at the current display mode and the battery mode (In this unit, the control humidity is set by 75% RH)
- ② If dehumidity control is turned OFF, it is possible to operate as the normal unit (Refer to 3.1.3 Dehumidity control setting about setting method.)

10.2 Back-up correspondence for humidity sensor abnormality

The unit has normal control function when dehumidity control is turned OFF. Then the unit is operated normally is no relation to normal/abnormal of the following devices.

Abnormality concer	mada	Back-up content			
Abnormality sensor	mode	Item		Control content	
Humidity sensor		When the control temperature (TS) is below set point (SP) during modulating control range, the electric heater is forciby ON.			
			OFF	The electric heater is forciby OFF at the following conditions. • If it is changed from in-range to out-range • If TS is above spt 0.5°C for 15 minutes	
		PF, F, DF	Norma	I operation	
Electric heater thermostat	EHT	All modes	Continuous operation		

C : Chilled operation, PF : Partial frozen operation, F : Frozen operation, DF : Defrost operation

10.3 Replacement and initialization

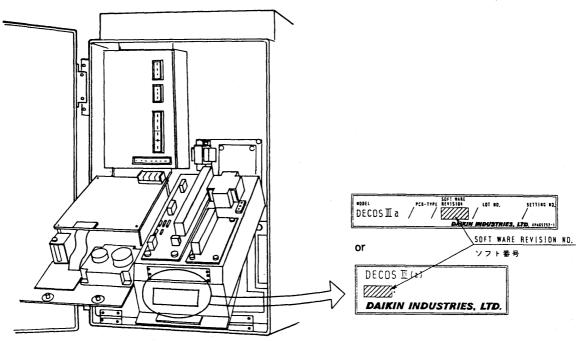
Refer to the standard manual TR94-01 (Japanese)/TR94-02 (English) about replacement procedure and initial setting of the controller.



When installing the new controller, be sure to replace the latest new one (Soft ware revision no, "013 or more")

3 types of the controller for spare parts are delivered to the field

When installing the new controller, always replace the latest one (Soft ware revision no, "013 or more")



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Controller for spare parts	DECOSIII	DECOSIIIa	DECOSIIIa
Soft ware revision no	~006	007~012	013~
Initialsetting • Method	From the dip switches	From the control panel	From the control panel
• Reference manual	Standar manual (TR94-01, TR94-02)	Supplement/Explanation of setting (TR96-04, TR96-05)	Same as left This manual
Dehumidity control function	Not provided	Provided	Provided
Dehumidity control setting	-	Variable	75% RH (fixative)
 Unload control in chilled mode 	67-33% Automatic changeability	Same as left	100-67% Automatic changeability
 Electric heater control correspondence for humidity sensor abnormality 		Forciby OFF	ON-OFF control by back-up function
Interchangeability	Not interchangeable	Not interchangeable	Interchangeable
Incase mounting old version controller			
• Transporting the flower bulb	×	△ Note1	0
 Transporting the all commodity except the flowe bulb 	0	0	0

Note1 The emergency dehumidity control is possible in the following procedure.

- · Change the controller. (Always replace the proper controller after the transportion.)
- Initial setting

Select "on" on LED while the LCD indicates "HUS" and "ATO" in the option function setting mode.

Select "off" on LED while the LCD indicates "FLb" in the option condition setting mode.

To fix the selection, press the \square key.

Refer to the supplement (TR96-04, TR96-05) about other procedure.

After changing settings, always shut OFF power from the circuit breaker without fail.

In this case, the dehumidification operation lamp does not light when the unit is operating.

- · Set the set point and the defrost interval.
- Set the set point of humidity at 75% RH

The electric heater is on when the container relative humidity is above the 75% RH (set point)

It is off during in-range when the container relative humidity is below the 60% RH (set point – 15% RH)

• In case the control temperature does not reach the in-range. Adjust the ventilation (Closed) until being the in-range. (Watch the unit all the time)

11. PTI

Container refrigeration unit inspection card

DAJKIN INDUSTRIES, LTD.

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(標準品と異なる部品のみ記載)

Chapter for Parts List

(The parts which are different from that of the standard products only are described in this parts list)

パーツリスト使用上の注意

このパーツリストはダイキン海上コンテナ冷凍装置の部品を集録してあります。パーツリスト 使用にあたっては、必ず次の注意事項をご一読の上使用していただくようお願いいたします。

- 1. 部品のご注文の際は機種名、部品番号、および部品名、形式を必ずご指定ください。なお、部品番号欄が空白になっている部品は、図面番号で指示願います。
- 2.掲載部品の範囲は、あくまでも現地にて分解修理できるところまで記載しております。 一部部品につき納期のかかるものおよびセット単位となるものもありますので、お近くのダイキンパーツセンター又はサービスステーションに相談願います。

ORDERING INSTRUCTIONS

The parts list contains the parts of the DAIKIN Marine Type Container Refrigeration Units.

Carefully read the following cautions before using the list.

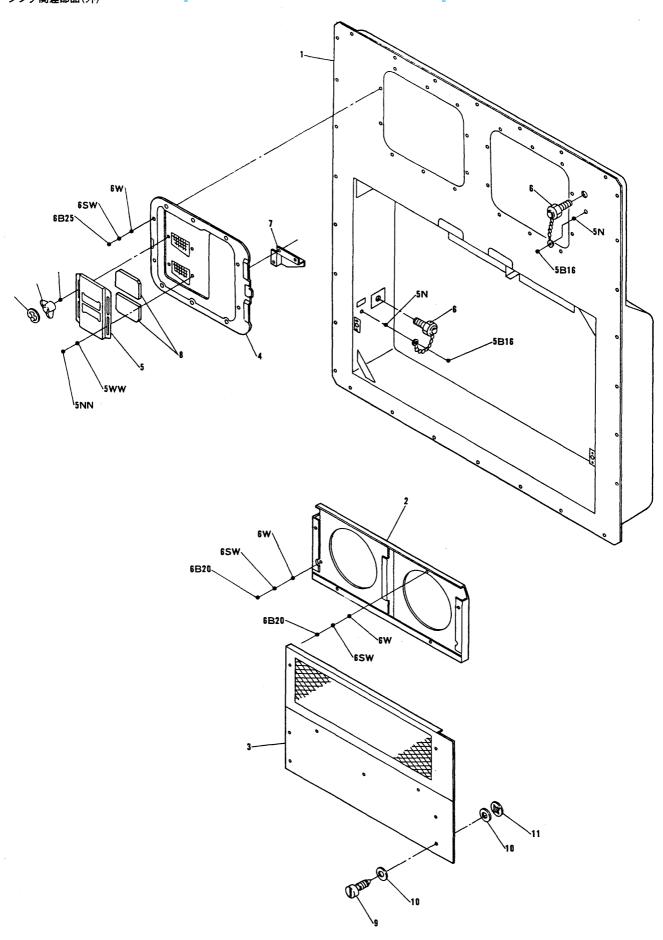
- 1. When ordering the parts, be sure to describe Model No., Name of part and type.
 - When ordering the parts No. are not shown in the PARTS NO. column, be sure to describe DWG.NO..
- 2. The parts shown in the list are replacement or repairing on the spot only. Certain parts require a long time of delivery or are assembled in a set, so it is advisable to contact with the nearest DAIKIN PARTS CENTRE.



注意 湿度センサーは約3年で交換することを推奨します。



CAUTION It is recommended to replace the humidity sensor every 3 years.



Note: Regarding to "•" of this figure, refer to "List of bolts and nuts" of the end of this book.

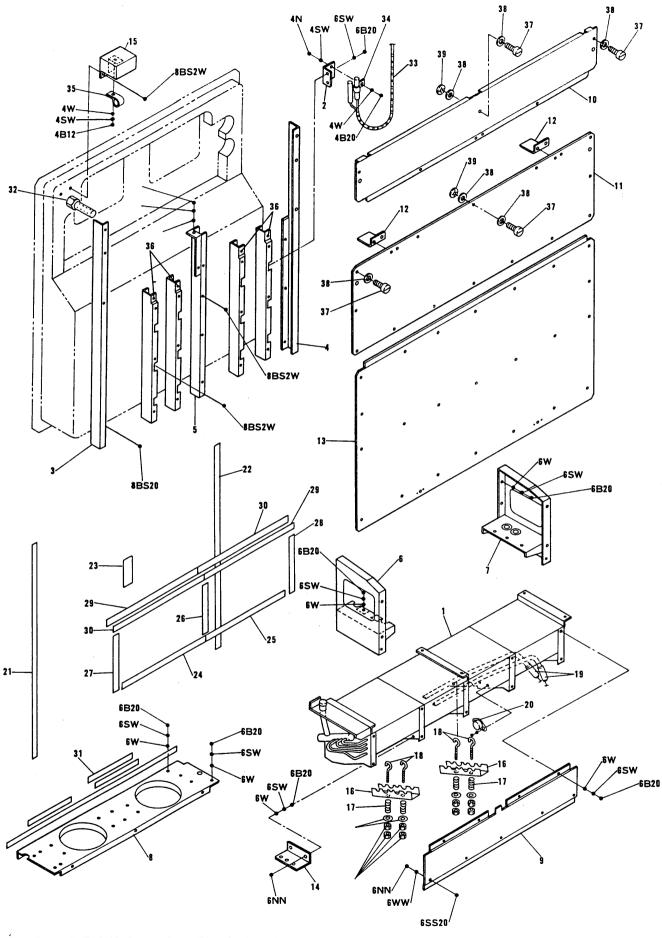
Parts relatived with the casing (outside

ケーシング関連部品(外)

NO. PARTS NO.		PARTS NAME	部 品 名 称	DWG. NO.	TYPE SPECIFICATION	QTY/UNIT	REMARKS
符号	部品番号	FANTS WAME	10 pp pp 70	図面番号	形式 仕 様	1台当り所要数	備考
l		Casing frame assy	ケーシングフレーム組立品	2PA65392-1		1	
2		Fan guid (Condenser fan)	ファンガイト(庫外)	3P000106-1		1	
3		Front panel, air cooled condenser	凝縮器前板	3P000123-1		1	
4		Access panel with ventilator	換気口付サービス扉組立品	2P001839-1		1	**************************************
5		Ventilation cover	蓋口浸熱	3P001835-1		1	
6	351327	Plastic plug	温度計挿入口用ポルト	R4717723-1		2	
7		Partition plate	動圧防止板	3P001837-1		1	
8		Packing, ventilator cover	換気口蓋パッキン	4P001834-1		2	
9	860011	Speed bolt	スピードポルト	R4714824-1	M6×26	9	
10	860005	Plain washer, speed bolt	スピードポルト座金	R4713334	t1×φ18×φ6.5	18	
11	840002	Washer, bolt retainer	脱落防止ワッシャー	R4718607-6	t0.8× ø 12	9	
12		Wing nut	蝶ナット	4SK06111-5	M5	4	
13		Ring stopper	E型止メ輪	4SA15401-5	M5	2	
			,				

[•] When ordering the parts whose No. are not shown in the PARTS NO. column, be sure to describe DWG. NO..

●部品番号欄が空白になっている部品は、図面番号で指示願います。



Note: Regarding to "•" of this figure, refer to "List of bolts and nuts" of the end of this book.

Parts related with the casing (inside) ケーシング関連部品(内)

NO.	PARTS NO.	PARTS NAME	部 品 名 称	DWG. NO.	TYPE SPECIFIC	ATION	QTY/UNIT	REMA	ARKS
符号	部品番号	PARIS NAME	部 的 位 例	図面番号	形式 仕	様	1 台当り所要数	備	考
1		Evaporator 蒸	熱器	2PA61774-1	CRB-LXE10CA		1		
2		Set plate, supply sensor 吹	出温度センサー取付板	4P002017-1			1		
3		Side stay (left)	イドステー(左)	3PA65245-1			1		
4		Side stay (right)	イドステー(右)	3PA65245-2			1		
5		Stay (center) 中		3PA65243-1			1		
6		Casing frame, evavorator (left) 蒸	発器枠(左)	2PA65249-1			1		
7		Casing frame, evavorator (right) 蒸	発器枠(右)	2PA65248-1			1		
8		Fan guide assy (Evaporator fan)	アンガイド組立品	3PA65244-1			1		
9		Reinforce plate, evaporator 基	発器補強板 発器補強板	2PA65251-1			1		
10		Rear plate (upper)	板(上)	2PA65250-1			1		
11		Rear plate (middle)	板(中)	2P000138-1			1		
12		stopper	—————————————————————————————————————	4P000150-1			2		
13		Rear plate (lower)	板(下)	2PA65313-1			1		
14		Fitting plate, piping hot gas 本	ットガス配管固定板	4P000003-1			1		
15		Mounting plate, RH sensor	H センサ固定板	4P000182·1			1		
16		Heater fixture E	ータ固定具	4P000204-1			2		
17		Coil spring, electric heater	イルバネ(電気ヒータ)	4P000211-1			4		
18		Set metal, heater use	一夕取付金具	4P000208-1			4		
19		Electric heater	気ヒータ	R3459001-5	220V, 1KW		2		
20		Electric heater thermostat 過	熱防止サーモ	R3320571-3	ST-5B 71/49		1		
21		Seal packing, side duct	ールパッキン(サイドダクト)	3PA65318-1			1		
22		Seal packing, side duct	ールパッキン(サイドダクト)	3PA65318-2			1		
23		Seal packing, center stay	ールパッキン(中央ステー)	4PA65323-1		_	1		
24		Seal packing, rear panel lower	ールパッキン(裏板下)	3PA65320-1			1		
25		Cour published, roas passes	ールパッキン(裏板下)	3PA65320-2			1		
26		Seal packing, center stay~rear panel (中	ールパッキン P央ステー〜裏板中央)	4PA65326-1			1		
27		Seal packing, side duct left	ールパッキン トイドダクト左)	4PA65321-1			1		
28		Seal packing, side duct right	ールパッキン ナイドダクト右)	4PA65321-2			1		

[•] When ordering the parts whose No. are not shown in the PARTS NO. column, be sure to describe DWG. NO..

●部品番号欄が空白になっている部品は、図面番号で指示願います。

Parts related with the casing (inside)

ケーシング関連部品(内)

NO.	PARTS NO.	PARTS NAME	部 品 名 称	DWG. NO.	TYPE	SPECIFICATION	QTY/UNIT	REMARKS	
符号	部品番号	PARTS NAME	即 加 加 加	図面番号	形式	仕 様	1 台当り所要数	備	考
29		Seal packing, rear panel upper	/ールパッキン(裏板上)	3PA65340-2	1		2		
30		Seal packing, rear panel upper	/ールパッキン(裏板上)	3PA65340-1			2		
31		Seal packing, fan guide	ィールパッキン(ファンガイド)	3PA51210-4			1		
32	306645	Cover, thermometer 漏	度計保護カバー	4PA19070-1			2		
33		Spiral tube	、パイラルチューブ	4PA30613-4			1		
34		Clamp band, sensor	ř 止金	NE41015-2			1		
35		Clamp band, sensor 管	T 止金	NE41015-3			1		
36	860015	Universal nut	在ナット	R4713188-1	М6		2		
37	860030S	Speed bolt Z	スピードポルト	R4714824-2	M6×29		19		
38	860005	Plain washer, speed bolt	くピードポルト座金	R4713334			33		
39	840002	Washer, preventing bolt from dropping 肪	落防止ワッシャー	R4718607-6			2		
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[•] When ordering the parts whose No. are not shown in the PARTS NO. column, be sure to describe DWG. NO..

Parts related with the casing (inside) ケーシング関連部品(内)

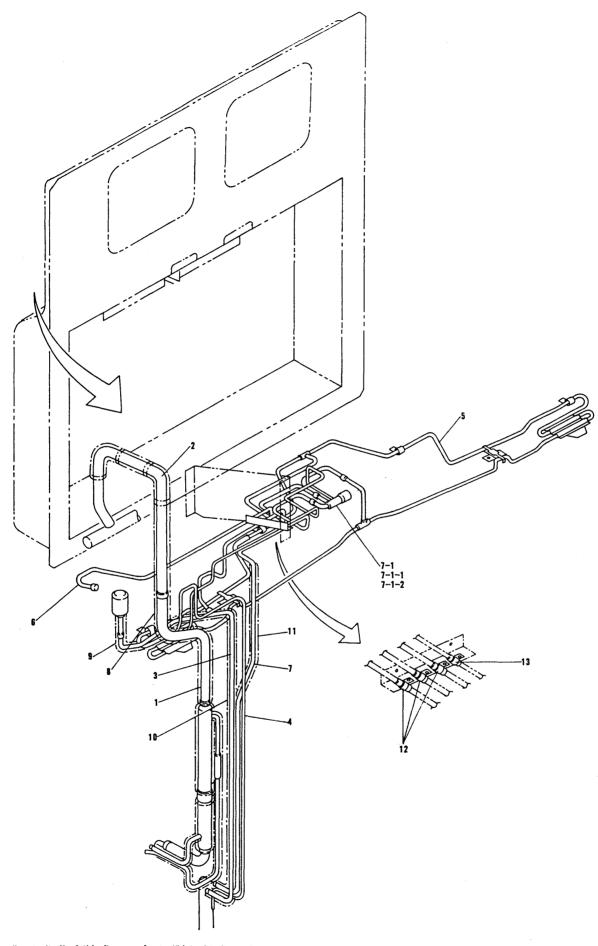
NO.	PARTS NO.	PARTS NAME	部 品 名 称	DWG. NO.	TYPE	SPECIFI	CATION	QTY/UNIT	REMA	ARKS
符号	部品番号	PARTS NAME	HP NO 15 175	図面番号	形式	仕	様	1 台当り所要数	備	考
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[•] When ordering the parts whose No. are not shown in the PARTS NO. column, be sure to describe DWG. NO..

●部品番号欄が空白になっている部品は、図面番号で指示願います。

(TR97-01)

Parts related with piping https://daikin-p.ru 配管関連部品



Note: Regarding to "ullet" of this figure, refer to "List of bolts and nuts" of the end of this book.

Parts related with piping 配管関連部品

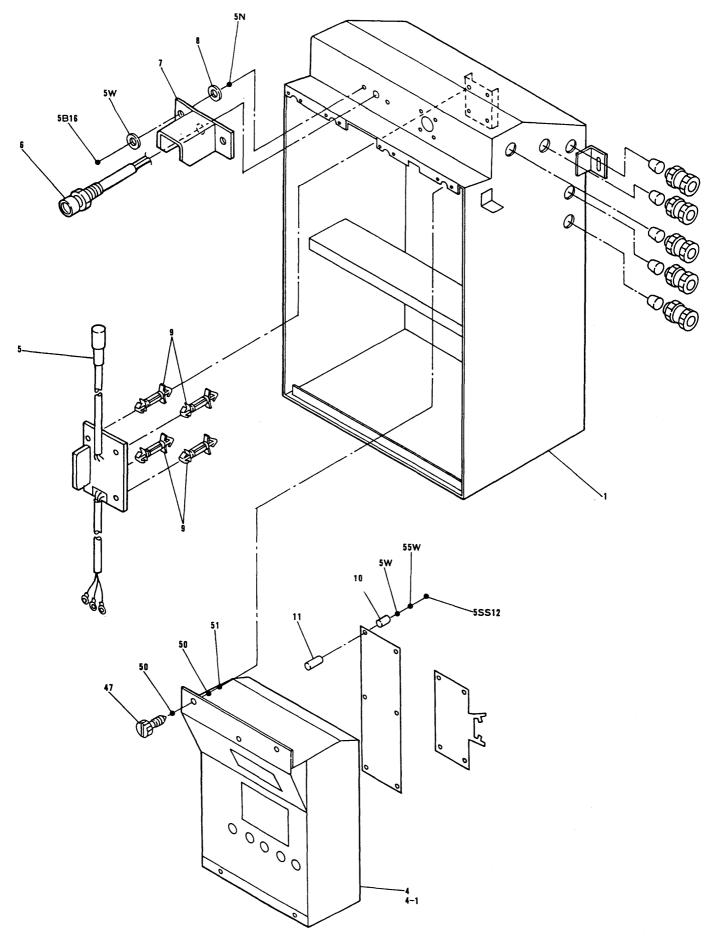
NO.	PARTS NO.	PARTS NAME	部品名称	DWG. NO.	TYPE	SPECIFI	CATION	QTY/UNIT	REMA	ARKS
符号	部品番号	FARTS NAME	即由有外	図面番号	形式	仕	様	1台当り所要数	備	考
1		Heat exchanger ass'y	液ガス熱交組立品	3P002383-1				1		
2		Piping, evaporator outlet	ヘッダー出口連絡管	4PA65425-1				1	7175	
3		Liquid pipe ass'y	液配管組立品	3PA65421-1				1		
4		Equalizer pipe (Expansion valve)	均圧配管	3PA65427-1				1		
5		Piping, drain pan heater	ドレンパンヒータ組立品	2PA65399-1				1		***
6		Connection pipe	連絡配管	3PA65401-1				1		
7		Piping, hot gas	三方電磁弁配管	3PA65420-1				1		
7-1	0598622	Three way solenoid valve (HSV)	三方電磁弁(HSV)	3PA11792-4	DHV-804-D	XF		1		
7-1-1	0598639	Coil, three way solenoid valve	三方電磁弁コイル	3PA11792-4-KA				1		
7-1-2	295075	Body, three way solenoid valve	三方電磁弁本体	3PA11792-4-Ki				1	782	
8		Thermal insulation	防露筒	3P003998-1				1		
9		Thermal insulation	防露簡	4PA65404-1				1	·	
10		Thermal insulation	防露筒	4PA65406-1				1		
11		Thermal insulation	防露筒	3PA65416-1				1		
12		Clamp band	管止金	NE31016-54				3		
13		Clamp band	管止金	NE31016-70				1		
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[•] When ordering the parts whose No. are not shown in the PARTS NO. column, be sure to describe DWG. NO..

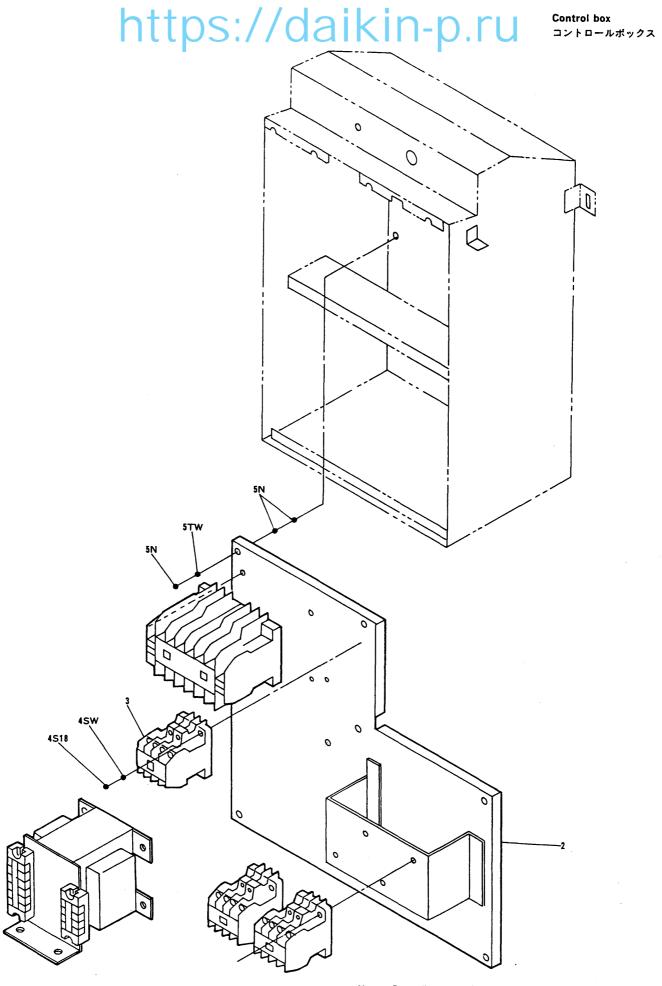
●部品番号欄が空白になっている部品は、図面番号で指示験います。

Control box コントロールボックス

https://daikin-p.ru



Note: Regarding to "•" of this figure, refer to "List of bolts and nuts" of the end of this book.



Note: Regarding to "•" of this figure, refer to "List of bolts and nuts" of the end of this book.

Control box

コントロールポックス

NO.	PARTS NO.	PARTS NAME	部品名称	DWG. NO.	TYPE	SPECIFICATION	QTY/UNIT	REMA	MARKS	
符号	部品番号	FARTS NAME	A) DO 12 17/1	図面番号	形式	仕 様	1台当り所要数	備	考	
1		Body, control box	コントロールポックス本体	2P000127-2			1			
2		Set plate, control devices	機器取付板	3P000110-1			1	<u> </u>		
3	617584	Magnetic contactor (EHC)	電磁接触器(EHC)	3PA10849-3	CLK15H31	·P4L	1			
4		Electronic controller	コントローラ	3PA51159-4	DECOSIIIa		1			
4-1		CPU board	CPU 基板	2PA61456-4	EC4549-5		1		-	
5		RH sensor	RH センサー	3PA61738-1	RHU-600A	-D1	1			
6		Indication lamp (red)	表示ランプ(赤)	R4421207-1	HLFRZ-24E	3-R	1			
7		Indication lamp cover	ランプカパー	4P003317-1			1			
8		Seal washer	シールワッシャー	4PA21941-5	M5		2			
9		Locking card spacer	ロッキングカードスペーサ	4P000347-1			4			
10		Support bush	ワンタッチカラーブッシュ	Mi49531-11	NB-400 (B	lack)	10			
11		Support bush	ワンタッチカラーブッシュ	Mi49531-13	NB-410 (B	lack)	10			
12		Cable gland	電線グランド	3PA37599-9	SCL-22A		3			
13		Rubber bush	ゴムブ ッシュ	4PA43267-3			1			
14		Rubber bush	ゴムブッシュ	4PA43267-2			1			
15		Rubber bush	ゴムブッシュ	4PA43267-1			1			
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[•] When ordering the parts whose No. are not shown in the PARTS NO. column, be sure to describe DWG. NO..

Control box

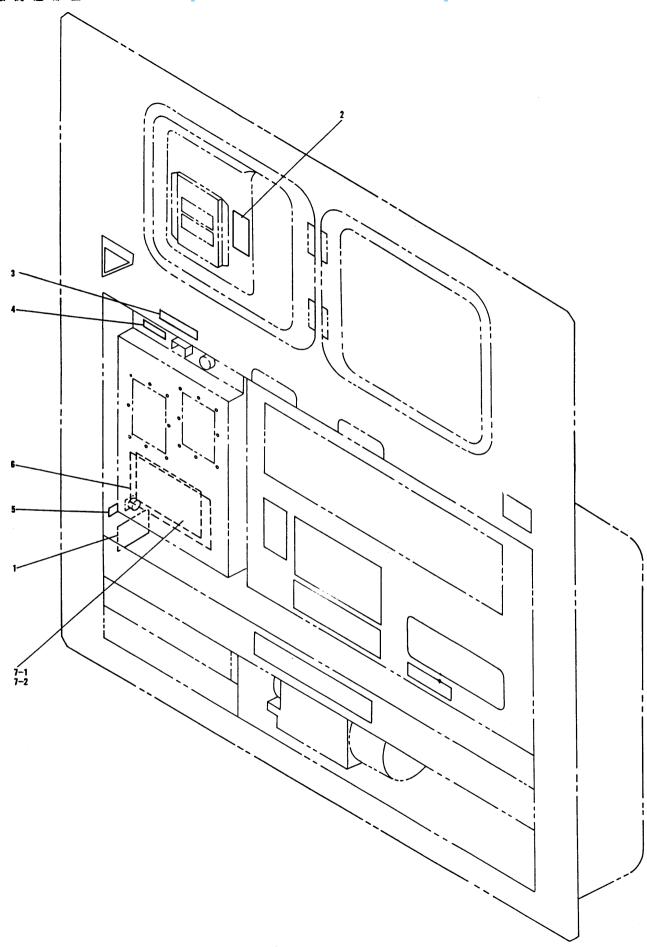
コントロールポックス

NO.	PARTS NO.	DADTO NAME	部 品 名 称	DWG. NO.	TYPE SPECIF	ICATION	QTY/UNIT	REMA	RKS
符号	部品番号	PARTS NAME	即 品 七 柳	図面番号	形式 仕	橔	1 台当り所要数	備	考
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[•] When ordering the parts whose No. are not shown in the PARTS NO. column, be sure to describe DWG. NO..

●部品書号欄が空白になっている部品は、図面書号で指示願います。

(TR97-01)



Note: Regarding to "●" of this figure, refer to "List of bolts and nuts" of the end of this book.

Parts related with the name plate 銘 板 関 連 部 品

NO.	PARTS NO.	RTS NO. PARTS NAME	部 品 名 称	DWG. NO.	TYPE	SPECIFIC	ATION	QTY/UNIT	REMA	ARKS
符号	部品番号	PARTS NAME	HP 100 123 177	図面番号	形式	仕	様	1 台当り所要数	備	考
1		Name plate, refrigeration unit date	機械的板	3PA62761-2				1		
2		Name plate, ventilator	換気口銘板	4P003630-1				1		
3		Name plate, Humidity sensor is equipped	湿度センサ銘板	4P012797				1		
4		Name plate, Dehumidification lamp	除湿運転ランプ銘板	4P003360-1				1		
5		Name plate, thermo meter check point	サーモチェックポイント銘板	4PA12330-3				1		
6		Name plate, wiring diagram	電気配線図銘板	2D002732-1				1		
7-1		Instruction card (Japanese)	インストラクションカード (日本語)	3P006362-1				1		
7-2		Instruction card (English)	インストラクションカード (英語)	3P006365-1				1		
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[•] When ordering the parts whose No. are not shown in the PARTS NO. column, be sure to describe DWG. NO..

●部品番号欄が空白になっている部品は、図面番号で指示願います。

Parts related with the name plate

銘板関連部品

NO.	PARTS NO.	DADTO MANE	## D # *4	DWG. NO.	TYPE	SPECIFI	CATION	QTY/UNIT	REMA	RKS
牙号。	部品番号	PARTS NAME	部品名称	図面番号	形式	仕	橔	1 台当り所要数	備	考
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[•] When ordering the parts whose No. are not shown in the PARTS NO. column, be sure to describe DWG. NO..