



YHAU-CL/CH Single Effect Hot Water Absorption Chiller (Mod A)

496 ton to 1,488 ton, 1,744 kW to 5,232 kW



Parts Manual

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Contents

General safety guidelines.....	5
Safety symbols.....	5
Changeability of this document.....	6
Using the Parts Manual.....	6
Nomenclature.....	8
YHAU-CL/CH components overview.....	9
Process and instrumentation diagram.....	11
Unit components.....	14
Waterbox gasket.....	14
Control panel components.....	18
Pump and maintenance kits.....	26
Valves.....	32
Sensor and control switch.....	42
Other parts.....	50
Standard parts kit and tools kit.....	54
SC-EQ board installation kit.....	56

General safety guidelines

► **Important:** Read before proceeding.

This equipment is a relatively complicated apparatus. During rigging, installation, operation, maintenance, or service, individuals may be exposed to certain components or conditions including, but not limited to: heavy objects, refrigerants, materials under pressure, rotating components, and both high and low voltage. Each of these items has the potential, if misused or handled incorrectly, to cause bodily injury or death. It is the obligation and responsibility of rigging, installation, and operating or service personnel to identify and recognize these inherent hazards, protect themselves, and proceed safely in completing their tasks. Failure to comply with any of these requirements could result in serious damage to the equipment and the property in which it is situated, as well as severe personal injury or death to themselves and people at the site.

This document is intended for use by owner-authorized rigging, installation, and operating or service personnel. It is expected that these individuals possess independent training that will enable them to perform their assigned tasks correctly and safely. It is essential that, before performing any task on this equipment, this individual shall have read and understood the on-product labels, this document and any referenced materials. This individual shall also be familiar with and comply with all applicable industry and governmental standards and regulations pertaining to the task in question.

Safety symbols

The following symbols are used in this document to alert the reader to specific situations:

DANGER

Indicates a possible hazardous situation which will result in death or serious injury if proper care is not taken.

CAUTION

Identifies a hazard which could lead to damage to the machine, damage to other equipment or environmental pollution if proper care is not taken or instructions are not followed.

ⓘ **Note:** Highlights additional information useful to the technician in completing the work being performed correctly.

WARNING

External wiring, unless specified as an optional connection in the manufacturer's product line, is not to be connected inside the control cabinet. Devices such as relays, switches, transducers and controls and any external wiring must not be installed inside the micro panel. All wiring must be in accordance with Johnson Controls' published specifications and must be performed only by a qualified electrician. Johnson Controls will not be responsible for damage/problems resulting from improper connections to the controls or application of improper control signals. Failure to follow this warning will void the manufacturer's warranty and cause serious damage to property or personal injury.

Changeability of this document

In complying with Johnson Controls' policy for continuous product improvement, the information contained in this document is subject to change without notice. Johnson Controls makes no commitment to update or provide current information automatically to the manual or product owner. Updated manuals, if applicable, can be obtained by contacting the nearest Johnson Controls Service office or accessing the Johnson Controls Knowledge Exchange website at <https://docs.johnsoncontrols.com/chillers/>

The rigging, lifting, and operating or service personnel are responsible for verifying the applicability of these documents to the equipment. If there is any question regarding the applicability of these documents, rigging, lifting, and operating or service personnel should verify whether the equipment has been modified and if current literature is available from the owner of the equipment before performing any work on the chiller.

Using the Parts Manual

Johnson Controls has an assortment of replacement parts for Johnson Controls, YORK® and DS units.

This parts manual outlines Johnson Controls chiller replacement parts by using part numbers, descriptions, quantities, and images. To determine the correct replacement part, locate the item on the image figure and refer to the figure table with the parts list for part numbers, descriptions, and quantities.

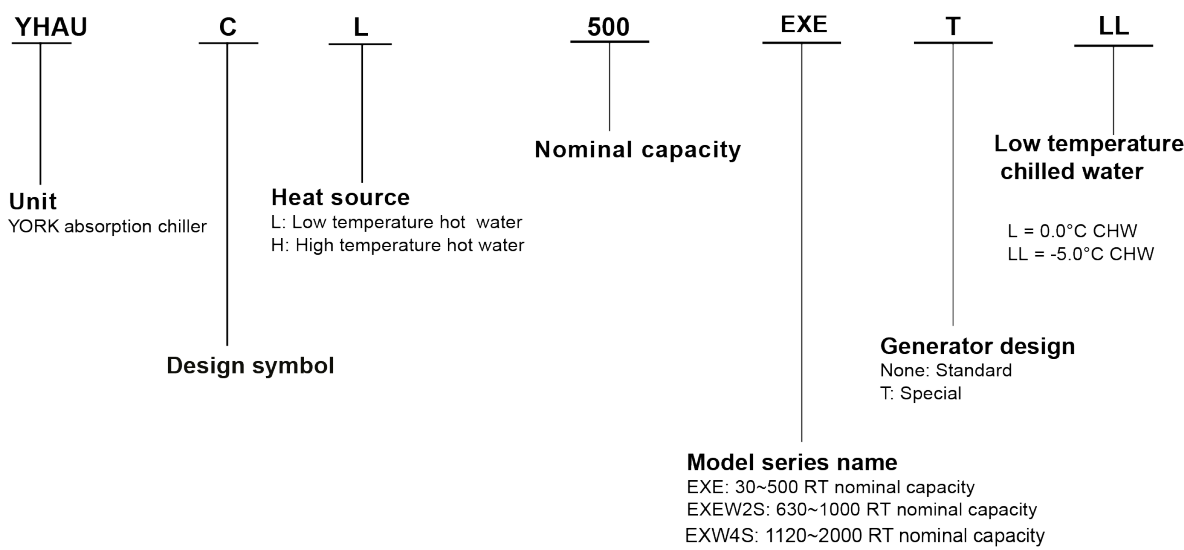
- ① **Note:** When requesting a quotation or placing an order, provide a unit model number, unit serial number, and part number. The model and serial numbers for the unit are located on the nameplate on the side of the control panel. Failure to provide this information may delay processing of your request.

Table 1: Contact details for replacement parts

Region	Contact details
North America	Chiller Parts Center Baltimore Telephone: +1 800 932 1701 Email: chillerparts@jci.com
	Chiller Parts Center Houston Telephone: +1 833 278 7991 Email: chillerpartsHouston@jci.com
	Chiller Parts Center NOLA Telephone: +1 833 283 3738 Email: chillerpartsNOLA@jci.com
	Chiller Parts Center Toronto Telephone: +1 905 488 3642 or +1 905 488 3641 Email: chillerpartstoronto@jci.com
	Equipment owners within the United States who maintain their own equipment Telephone: +1 800 482 2778 Email: cg-baltimore-parts-customer@jci.com
Europe and North America	For parts availability and ordering YORK HVAC Parts, use the following link: solutionnavigator.com
APAC	Applied APAC Parts Center Website: https://jcibeasia.my.salesforce.com/
Global PTS	Address: 5000 Renaissance Drive New Freedom, PA, USA 17349 Telephone: 1-717-771-6161 Email: bechillerspt-absorber@jci.com

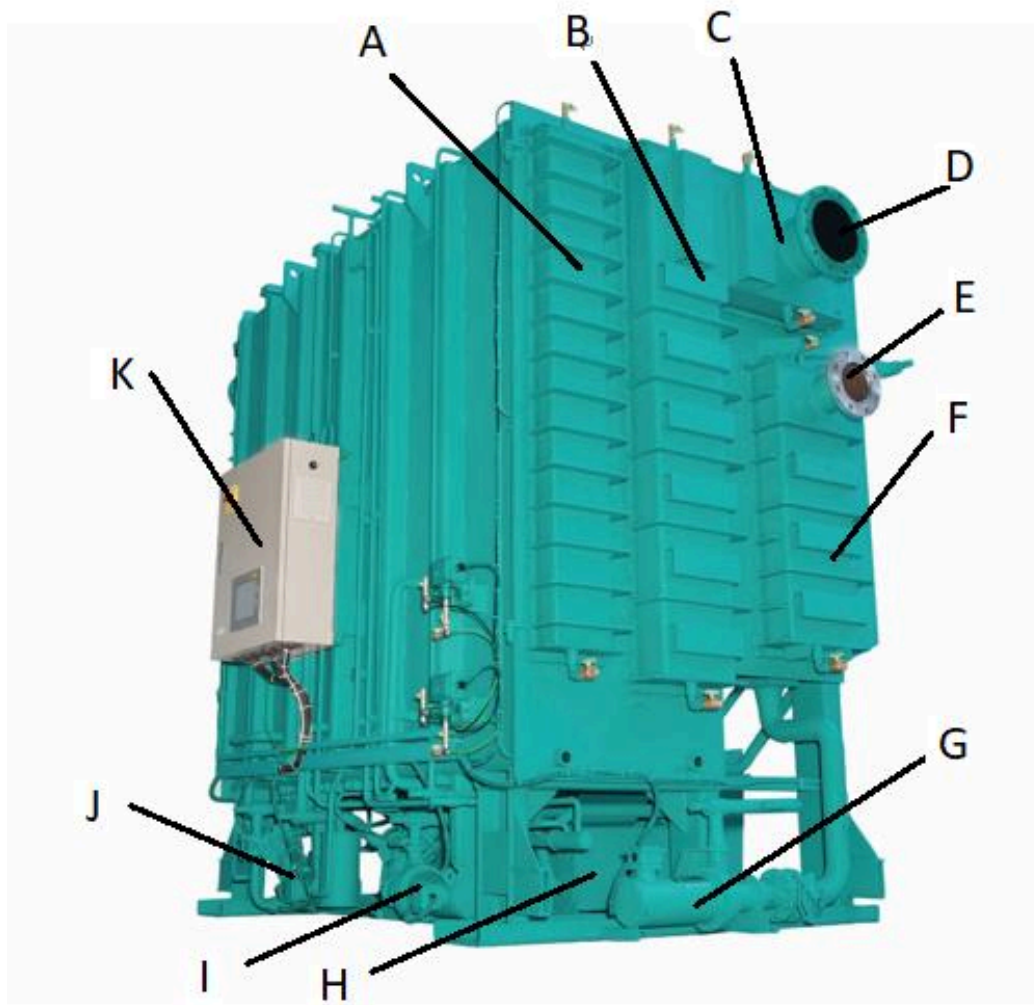
 **Note:** This manual does not include part numbers for tubes. If you need tubes or any other parts that are not in this manual, contact the global or local product technical support (PTS) department.

Nomenclature



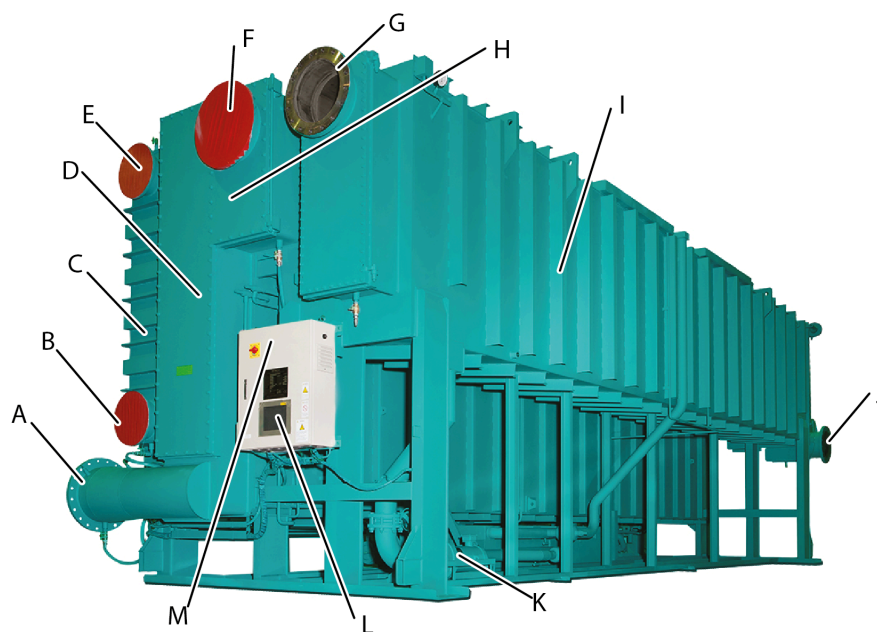
YHAU-CL/CH components overview

Figure 1: EXE series overview



Callout	Description
A	Evaporator
B	Absorber
C	Condenser
D	Cooling water outlet
E	Hot water outlet
F	Generator
G	Solution spray pump
H	Heat exchanger
I	Solution circulation pump
J	Refrigerant pump
K	Control panel

Figure 2: EXW series overview

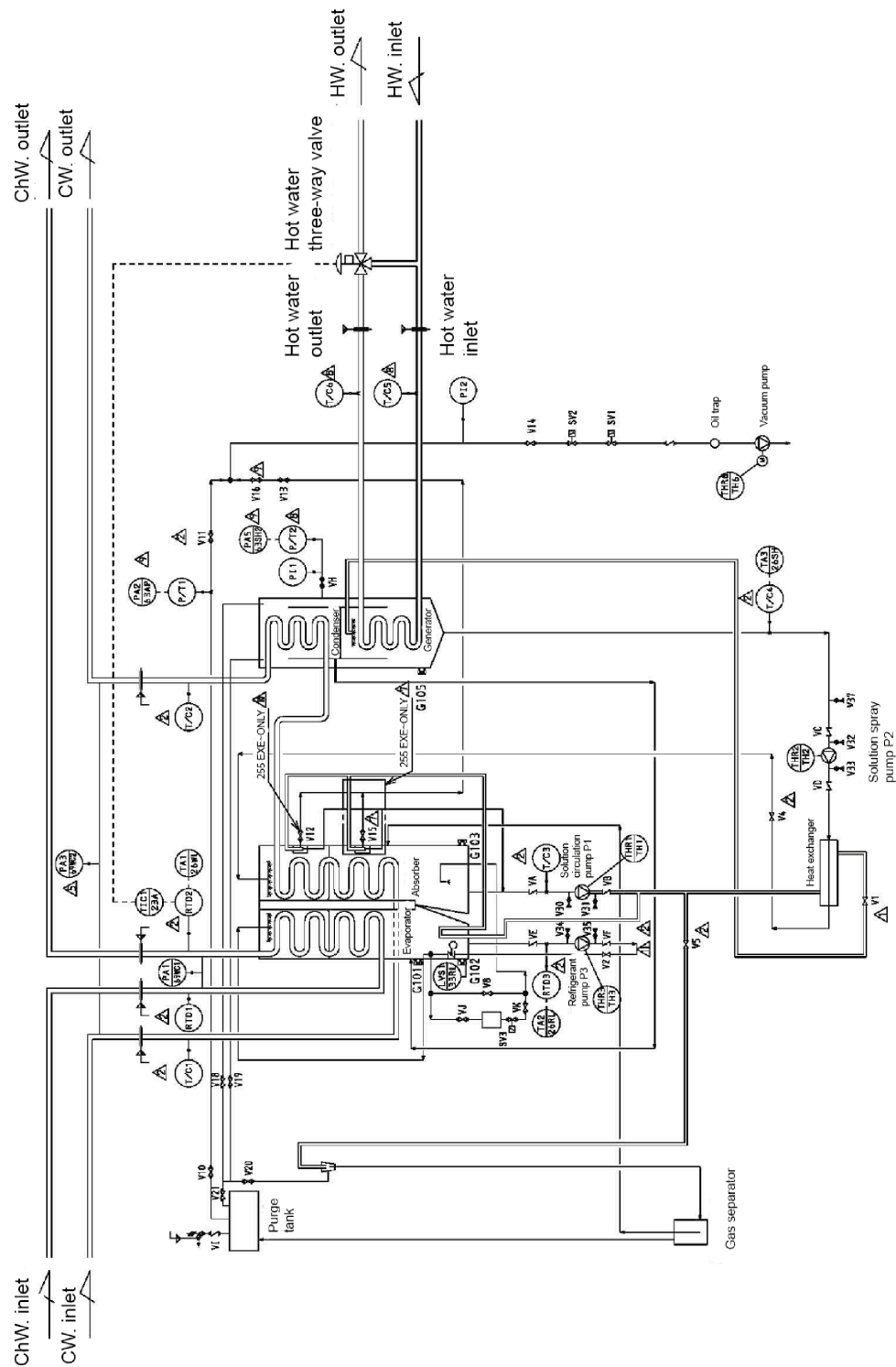


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Callout	Component
A	Cooling water inlet
B	Chilled water inlet
C	Evaporator
D	Absorber
E	Chilled water outlet
F	Cooling water outlet
G	Hot water outlet
H	Condenser
I	Generator
J	Hot water inlet
K	Solution pump
L	Display
M	Control panel

Process and instrumentation diagram

Figure 3: Process and instrumentation diagram



LD31882

Note: This process and instrumentation drawing is for reference only.

Table 2: Symbol list of process and instrumentation diagram

Symbol	Name	Use
VA	Shut-off valve	Shut-off valve for solution pump
VB	Shut-off valve	Shut-off valve for solution pump
VC	Shut-off valve	Shut-off valve for solution spray pump
VD	Shut-off valve	Shut-off valve for solution spray pump
VE	Shut-off valve	Shut-off valve for refrigerant pump
VF	Shut-off valve	Shut-off valve for refrigerant pump
VH	Shut-off valve	Shut-off valve for generator press gauge
VI	Shut-off valve	Shut-off valve for pressure release valve
VJ	Shut-off valve	Shut-off valve for refrigerant blow solenoid valve
VK	Shut-off valve	Shut-off valve for refrigerant blow solenoid valve
V1	Flow adjusting valve	For generator solution flow adjusting
V2	Flow adjusting valve	For refrigerant flow adjusting
V4	Flow adjusting valve	For absorber solution flow adjusting
V5	Sampling valve option	For ejector solution flow adjusting
V6	Flow adjusting valve	For ejector solution flow adjusting
V8	Blow valve	For refrigerant blow
V10	Purge valve	Shut-off valve for purge tank
V11	Purge valve (diaphragm)	Shut-off valve for purge tank
V12	Purge valve	Absorber direct purge valve
V13	Purge valve	Absorber direct purge valve
V14	Purge valve (diaphragm)	Purge shut off valve
V15	Purge valve	Absorber direct purge valve (255 EXE~ only)
V16	Purge valve (diaphragm)	Absorber direct purge valve
V18	Purge valve	Condenser purge valve
V19	Purge valve	Condenser purge valve
V20	Purge valve	Condenser purge valve
V21	Purge valve	Condenser direct purge valve
V30	Sampling valve	For solution sampling
V31	Sampling valve	For solution sampling
V32	Sampling valve	For solution sampling
V33	Sampling valve	For solution sampling
V34	Sampling valve	For refrigerant sampling
V35	Sampling valve	For refrigerant sampling
V37	Sampling valve	For solution sampling
SV1	Solenoid valve	Purge solenoid valve
SV2	Solenoid valve	Purge solenoid valve
SV4	Solenoid valve	Refrigerant blow solenoid valve
G101	Sight glass	Sight glass for refrigerant overflow
G102	Sight glass	Sight glass for evaporator tank
G103	Sight glass	Sight glass for absorber tank
G105	Sight glass	Sight glass for generator

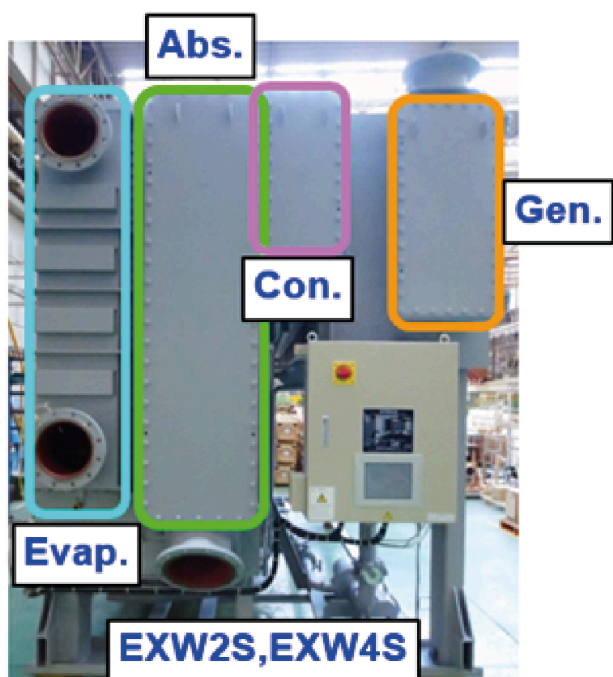
Table 3: Tag list of process and instrumentation diagram

Tag	Symbol	Item
RTD1		Chilled water inlet temperature
RTD2		Chilled water outlet temperature
RTD3		Refrigerant temperature
T/C1		Cooling water inlet temperature
T/C2		Cooling water outlet temperature
T/C3		Absorber solution temperature
T/C4		Generator solution temperature
T/C5		Hot water inlet temperature
T/C6		Hot water outlet temperature
TIC1	23A	Chilled water outlet temperature controller
P/T1		Purging tank pressure
P/T2		Generator pressure
TA1	26WL	Chilled water temperature switch
TA2	26RL	Refrigerant temperature switch
TA3	26SH	Solution temperature switch
THR1	TH1	Solution circulation pump thermal relay
THR2	TH2	Solution spray pump thermal relay
THR3	TH3	Refrigerant pump thermal relay
THR6	TH6	Purge pump thermal relay
PA1	69WC1	Chilled water pressure differential switch
PA2	63AP	Purge tank pressure switch
PA3	69WC2	Cooling water pressure differential switch
PA5	63SH2	Generator pressure switch
LVS1	33RL	Level switch for evaporator tank
PI1		Generator pressure gauge
PI2		Purge tank pressure gauge

Waterbox gasket

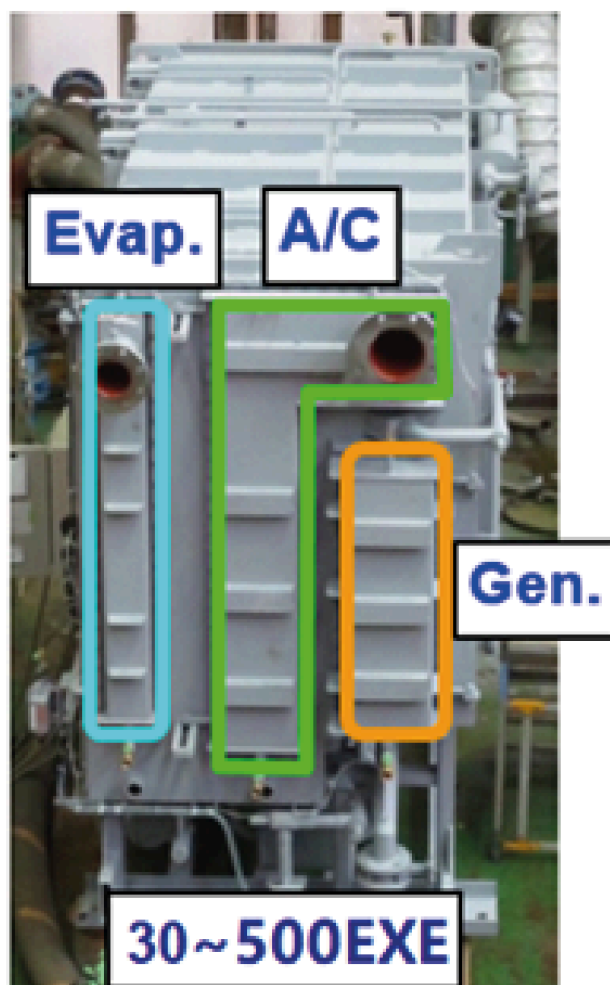
Description		Unit	30EXE(L)	40EXE (L)	50EXE (L)	65EXE (L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW2S(L)	700 EXW2S(L)	800 EXW2S(L)	900 EXW2S(L)	1000 EXW2S(L)	1120 EXW4S(L)	1250 EXW4S(L)	1400 EXW4S(L)	1500 EXW4S(L)	1600 EXW4S(L)	1680 EXW4S(L)	1800 EXW4S(L)	1900 EXW4S(L)	2000 EXW4S(L)
Part name	Part number		30EXE(L)	40EXE (L)	50EXE (L)	65EXE (L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW2S(L)	700 EXW2S(L)	800 EXW2S(L)	900 EXW2S(L)	1000 EXW2S(L)	1120 EXW4S(L)	1250 EXW4S(L)	1400 EXW4S(L)	1500 EXW4S(L)	1600 EXW4S(L)	1680 EXW4S(L)	1800 EXW4S(L)	1900 EXW4S(L)	2000 EXW4S(L)
Rope gasket A for hot waterbox	028W17640-013 1 Set = 10 m	Set	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Rope gasket B for hot waterbox	028W03242-000	m	6	6	6	6	9	9	9	9	9	13	13	13	13	12	12	12	12	12	14	14	14	16	16	16	16	16	
Note: 1. For the CL model, the standard water pressure of the hot waterbox is 10 bar. Use the compact waterbox and rope gasket A. 2. For the CL model, the optional pressure of the hot waterbox is 20 bar. Use the marine type water box. If the chiller order date is after May 2019, use rope gasket B. For chillers with marine type water boxes which were ordered before this date, use the sheet type gasket. Check with the engineering team on a case-by-case basis. 3. The CH model uses the special high temperature sheet gasket, which includes the partition gasket. Because the flow pass is according to order, check the parts number of the high temperature sheet gasket of hot waterbox with the engineering team on a case-by-case basis. 4. Rope gasket A is used for the partition gasket in the hot water box.																													
Rope gasket A for chilled waterbox	028W17640-013 1 Set = 10 m	Set	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Rope gasket B for chilled waterbox	028W03242-000	m	9	9	9	9	9	12	12	12	12	15	15	15	15	16	16	16	16	16	18	18	18	18	18	18	18	18	
Note: 1. The standard water pressure of the chilled waterbox is 10 bar. Use the compact waterbox and rope gasket A. 2. The optional pressure of the chilled waterbox is 20 bar. Use the marine type water box, or the optional marine type chilled waterbox for 10 bar. If the chiller order date is after May 2019, use rope gasket B. For chillers with marine type water boxes that were ordered before this date, use the sheet type gasket. Check with the engineering team on a case-by-case basis. 3. Rope gasket A is used for the partition gasket in chilled water box.																													
Sheet gasket for cooling waterbox	028W17803-002 for absorber	Pcs														2	2	2	2	2									
	028W17804-002 for condenser	Pcs														2	2	2	2	2									
	028W17805-002 for absorber	Pcs																			2	2	2	2	2	2	2	2	
	028W17806-002 For condenser	Pcs																			2	2	2	2	2	2	2	2	
Rope gasket A for cooling waterbox	028W17640-013 1 Set = 10 m	Set	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	4	4	
Rope Gasket B for cooling waterbox	028W03242-000	m	11	11	11	11	11	14	14	14	14	18	18	18	18	28	28	28	28	28	32	32	32	34	34	34	34	34	
Note: 1. The standard water pressure of the cooling waterbox is 10 bar. Use the compact waterbox for CL/CH500EXE(L). Use rope gasket A. 2. For chiller models above CL/CH630EXW2S with water pressure 10 bar, use the marine type water box. If the chiller order date is after May 2019, use the rope gasket B or use the optional marine type below CL/CH630EXW2S(L) with rope gasket B. Older chillers use the sheet type gasket according to the list. 3. The optional pressure for all models of cooling waterbox is 20 bar. Use the marine type water box. If the chiller order date is after May 2019, use rope gasket B. Older chillers use the sheet type gasket. To determine which gasket is needed, check with the Johnson Controls engineering team on a case-by-case basis. 4. Rope gasket A is also used for the partition gasket in the cooling water box.																													

Figure 4: Waterbox layout for models EXW2S and EXW4S



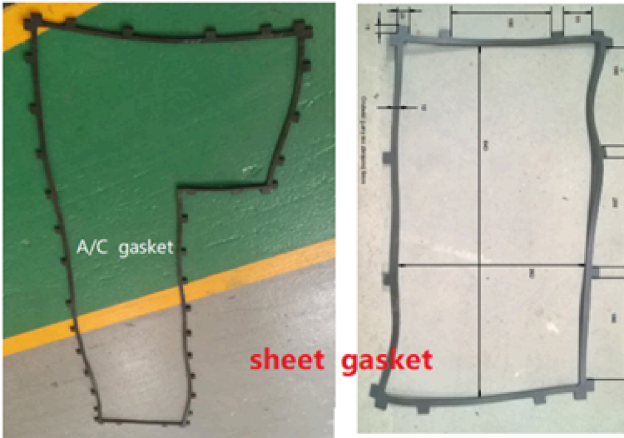
LD32002

Figure 5: Waterbox layout for models 30EXE to 500EXE



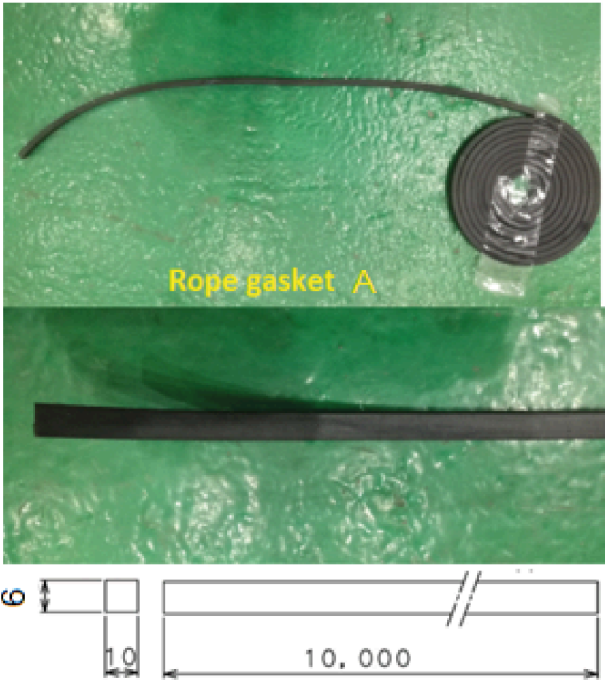
LD32003

Figure 6: Sheet gasket



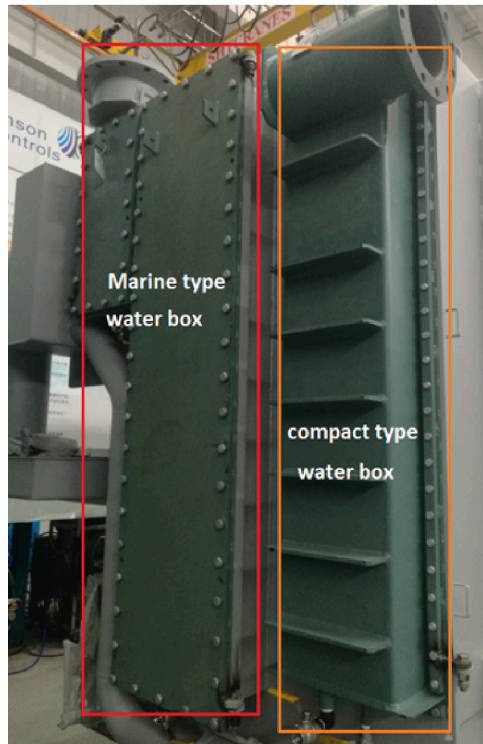
LD32

Figure 7: Rope gasket A



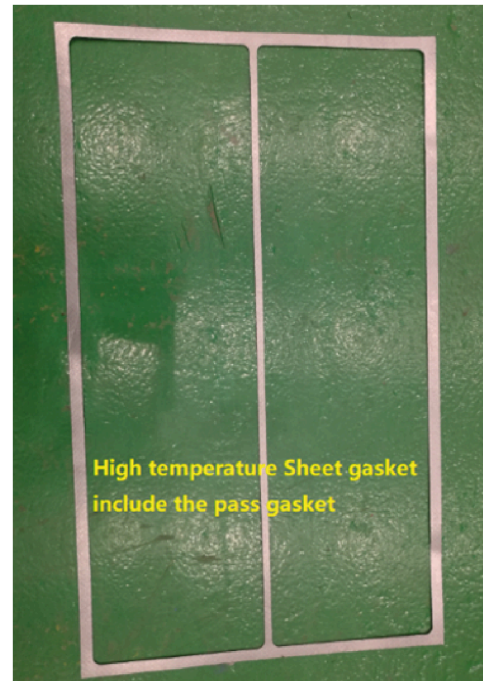
LD32183

Figure 8: Marine type waterbox and compact type waterbox



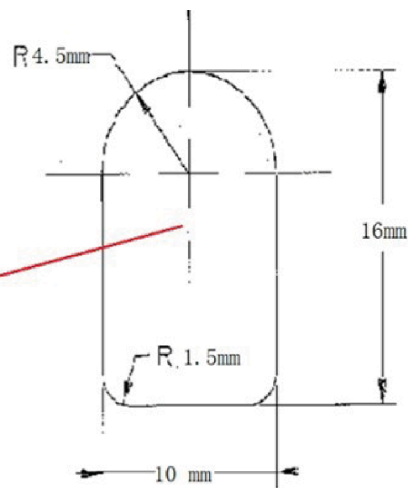
LD32184

Figure 9: High temperature sheet gasket (including the pass gasket)



LD32185

Figure 10: Rope gasket B



Rope gasket B

LD32186

Control panel components

Table 5: Control panel components

Description																												
Part name	Part number	30EXE(L)	40EXE (L)	50EXE (L)	65EXE (L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW2S(L)	700 EXW2S(L)	800 EXW2S(L)	900 EXW2S(L)	1000 EXW2S(L)	1120 EXW4S(L)	1250 EXW4S(L)	1400 EXW4S(L)	1500 EXW4S(L)	1600 EXW4S(L)	1680 EXW4S(L)	1800 EXW4S(L)	1900 EXW4S(L)	2000 EXW4S(L)
	Model																											
Main circuit board (PLC)	025W48016-039	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	TC5-17A																											
Main circuit board (PLC)*	025W51073-001	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	TC5-17B																											
Harness kit for TC5-17B to replace TC5-17A *	371W09686-002																											
① Note: *The Toshiba PLC main circuit Board TC5-17A has been phased out since April 2021. Use TC5-17B. However, because the size and shape of connect pins is different, use the harness kit 371W09686-002 to facilitate the replacement.																												
Touch panel (TP)	025W48016-129	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	PFXGP4501TADW																											
Touch panel (TP) for twin type	025W48016-135																											
	PFXGP4501TAD																											
TP-LD communication cable for twin	025W48016-335																											
	CA6-USB232-01																											
Touch panel (TP) for marine type	025W48016-369																											
	PFXSP5700TPD																											
Touch panel box module for marine type	025W48016-370																											
	PFXSP5B10																											
CPU module for or marine chiller expiration *	025W48016-371																											
	Q12PHCPU																											
CPU module for marine chiller new*	025W43786-701																											
	Q13UDPVCPU																											
CPU module for or heat pump expiration*	025W48016-242																											
	Q06PHCPU																											
CPU module for or heat pump new *	025W51239-900																											
	Q06UDPVCPU																											
Hub module*	025W47002-004																											
	1783-US5T																											
PLC base board R for heat pump or marine type	025W48016-247																											
	Q38B																											
Power supply module for heat pump or marine type	025W48016-241																											
	Q63P																											
Digital input module for heat pump or marine	025W48016-243																											
	QX40																											
Digital output module for heat pump or marine	025W48016-244																											
	QY10																											
① Note: * 1. The Mitsubishi CPU has been phased out since September 30 2020. Use the new type CPU when replacing the CPU. 2. The CPU for heat pump Q06PHCPU is replaced by Q06UDPVCPU. The CPU for the marine chiller Q12PHCPU is replaced by Q13UDPVCPU. 3. If the unit has the Modbus TCP communication, install the additional hub module 1783-US5T1783-US5T. 4. When replacing the new type CPU, download the new program. Check with the local PTS before replacement.																												
Auxiliary relay (PWX)	025W48016-131	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	MY4N-GS																											
Timer (PWT)	025W48016-033	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	H3Y-2(5sec)																											
Power supply (24 VDC) (PSU1)	025W48016-037	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	RS-75-24																											
Circuit protector (CP1)	024W33919-732	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	S202-C2																											

Table 5: Control panel components

Description																												
Part name	Part number	30EXE(L)	40EXE (L)	50EXE (L)	65EXE (L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW25(L)	700 EXW25(L)	800 EXW25(L)	900 EXW25(L)	1000 EXW25(L)	1120 EXW45(L)	1250 EXW45(L)	1400 EXW45(L)	1500 EXW45(L)	1600 EXW45(L)	1680 EXW45(L)	1800 EXW45(L)	1900 EXW45(L)	2000 EXW45(L)
	Model																											
Circuit breaker (MCB1) for GB and CE	025W48016-120	1	1	1	1	1	1																					
	XT1N 160 TMF20																											
	025W48016-121							1	1	1	1	1	1	1														
	XT1N 160 TMD32																											
	025W48016-122														1	1	1	1	1									
	XT1N 160 TMD40																											
	025W48016-151																			1	1	1	1	1	1			
	XT1N 160 TMD50																											
025W48016-123																												
XT1N 160 TMD63																									1	1	1	
Circuit breaker (MCB1) for UL 208V-60Hz	024W33919-774	1	1	1	1	1	1																					
	XT1N 125 TMF 30-500																											
	024W33919-773							1	1																			
	XT1N 125 TMF 35-500																											
	024W33919-769									1	1																	
	XT1N 125 TMF 45-500																											
	024W33919-792											1	1	1														
	XT1N 125 TMF 50-500																											
	024W33919-794														1	1												
	XT1N 125 TMF 70-700																											
	024W33919-766																	1	1	1								
	XT1N 125 TMF 80-800																											
	024W33919-796																											
	XT1N 125 TMF 110-1100																			1	1	1	1	1	1			
	024W33919-798																											
	XT3N 225 TMF 150-1500																									1	1	1
Circuit breaker (MCB1) for UL 460V-60Hz	024W33919-789	1	1	1	1	1	1	1	1																			
	XT1N 125 TMF 15-500									1	1																	
	024W33919-790																											
	XT1N 125 TMF 20-500																											
	024W33919-791											1	1	1														
	XT1N 125 TMF 25-500																											
	024W33919-774														1	1												
	XT1N 125 TMF 30-500																											
	024W33919-773																	1	1	1								
	XT1N 125 TMF 35-500																											
	024W33919-792																											
	XT1N 125 TMF 50-500																			1	1	1	1	1	1			
024W33919-794																												
XT1N 125 TMF 70-700																									1	1	1	
Circuit breaker handle	025W48016-125	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Circuit breaker (MCB2)	024W33919-529	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	S202-C3																											
Transformer (T1)	025W48016-130	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	JBK3-500VA																											

Table 5: Control panel components

Description		30EXE(L)	40EXE (L)	50EXE (L)	65EXE (L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW25(L)	700 EXW25(L)	800 EXW25(L)	900 EXW25(L)	1000 EXW25(L)	1120 EXW45(L)	1250 EXW45(L)	1400 EXW45(L)	1500 EXW45(L)	1600 EXW45(L)	1680 EXW45(L)	1800 EXW45(L)	1900 EXW45(L)	2000 EXW45(L)	
Part name	Part number Model																												
Transformer (T1) for UL	025W43823-870	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	50031-120																												
Transformer (T2) for UL	025W43823-871	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	50120-1224																												
Magnet switch, (MC1, MC2, MC3, MC6) for GB and CE	024W33857-353	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	
	AX09-30-10-80																												
	024W33857-355																												
	AX18-30-10-80												1	1	1	1	1	1	1	1	1	1	1	1					
	024W33857-356																												
	AX25-30-10-80																				1	1	1	1	1	1	1	1	1
	024W33857-358																												
AX40-30-10-80																										1	1	1	
Magnet switch MC1, MC2, MC3, MC6 for UL 208V-60Hz	024W33857-451	4	4	4	4	4	4	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1
	AF09-30-10-13																												
	024W33857-453																												
	AF16-30-10-13								1	1	1	2	2	2	2	1	1	1	1	1									
	024W33857-454																				1	1	1	1	1				
	AF26-30-10-13																												
	024W33857-452															1	1	1	1										
	AF30-30-10-13																												
	024W33857-457																												
	AF52-30-10-13																				1	1	1	1	1	1	1	1	1
	024W33857-458																										1	1	1
AF65-30-10-13																													
Magnet switch MC1, MC2, MC3, MC6 for UL 460V-60Hz	024W33857-451	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2
	AF09-30-10-13																												
	024W33857-450																												
	AF12-30-10-13																				1	1	1	1	1	1			
	024W33857-453															1	1	1	1										
	AF16-30-10-13																												
	024W33857-454																				1	1	1	1	1	1	1	1	
	AF26-30-10-13																												
024W33857-452																										1	1	1	
AF30-30-10-13																										1	1	1	
Thermal relay (TH1, TH2, TH3, TH6) for GB and CE	025W48016-065	1	1	1	1	1	1	1	1																				
	TA25DU-1.4M																												
	025W48016-064																												
	TA25DU-1.8M																												
	025W44341-346	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	TA25DU-2.4M																												
	025W48016-128	2	2	2	2	2	2	1	1																				
	TA25DU-4.0M																												
	025W48207-038																												
	TA25DU-5.0M																					1	1	1	1	1			
	025W48016-127																												
	TA25DU-6.5M									1	1	2	2	1	1														
	025W48207-039																												
	TA25DU-8.5M													1	1	1	1	1	1	1							1	1	1
	024W33860-061																												
	TA25DU-14M																					1	1	1	1	1			
	024W33860-077																												

Table 5: Control panel components

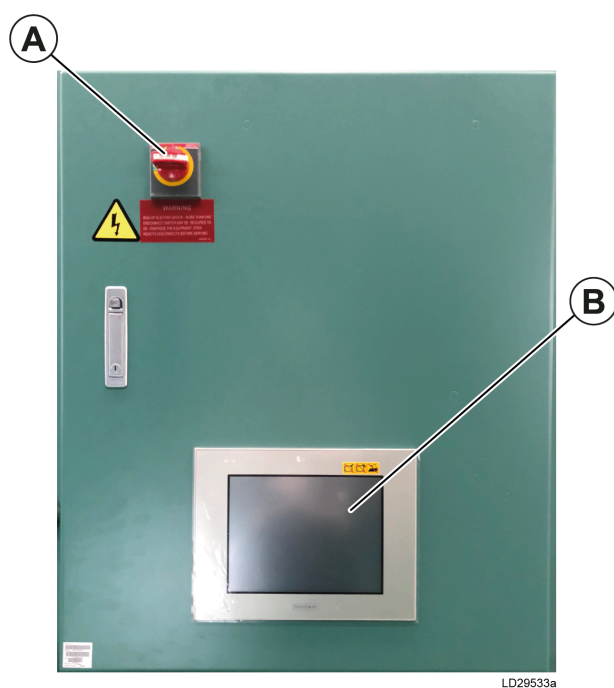
Description																													
Part name	Part number	30EXE(L)	40EXE (L)	50EXE (L)	65EXE (L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW25(L)	700 EXW25(L)	800 EXW25(L)	900 EXW25(L)	1000 EXW25(L)	1120 EXW45(L)	1250 EXW45(L)	1400 EXW45(L)	1500 EXW45(L)	1600 EXW45(L)	1680 EXW45(L)	1800 EXW45(L)	1900 EXW45(L)	2000 EXW45(L)	
	Model																												
Motor starter MMS1, MMS2, MMS3, MMS6 for UL 208V-60Hz	024W33919-760																												
	MS132-4.0-HKF1-11	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	024W33919-748																												
	MS132-6.3-HKF1-11	2	2	2	2	2	2	1	1																				
	024W33919-802																												
	MS132-10-HKF1-11																	1	1	1	1	1	1	1	1				
	024W33919-746																		1	1	1	1	1						
	MS132-16-HKF1-11								1	1	2	2	2	2	2	1	1	1	1	1							1	1	1
	024W33919-803																												
	MS132-20-HKF1-11																			1	1	1	1	1	1				
	024W33919-759																												
	MS132-32-HKF1-11																	1	1	1	1	1							
	024W33919-804																												
	MS165-42-HKF1-11																				1	1	1	1	1	1	1	1	1
Motor starter MMS1, MMS2, MMS3, MMS6 for UL 460V-60Hz	024W33919-749																												
	MS132-1.6-HKF1-11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1												
	024W33919-750																												
	MS132-2.5-HKF1-11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	024W33919-760																												
	MS132-4.0-HKF1-11	2	2	2	2	2	2	1	1									1	1	1	1	1	1	1	1				
	024W33919-748																												
	MS132-6.3-HKF1-11								1	1	2	2	1	1	1	1	1	1	1	1							1	1	1
	024W33919-802																												
	MS132-10-HKF1-11												1	1	1														
	024W33919-746																												
	MS132-16-HKF1-11																	1	1	1	1	1							
	024W33919-803																												
	MS132-20-HKF1-11																				1	1	1	1	1	1	1	1	
	024W33919-767																												
	MS132-25-HKF1-11																										1	1	1
Noise filter (NF0) for CE	025W48016-055	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	CW7N-60A-R																												
Noise filter (NF1)	025W48016-038	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	RSAN-2006D																												
56-Pin connector 1	025W48016-068 FCN-360C056-8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
56-Pin connector 2	025W48016-069	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	FCN-361J056-AU																												
Buzzer (BZ)	025W48016-071 CB1-620B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Fan (FAN) UL	025W48016-057 ACi 4400 HH-504	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Fan (FAN) GB/CE	025W48016-056																												
	4656Z																												
Fan-protector (FAN)	025W48016-134	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	FU-8812B																												

Table 5: Control panel components

Description																												
Part name	Part number	30XE(L)	40XE (L)	50XE (L)	65XE (L)	80XE(L)	100XE(L)	130XE(L)	160XE(L)	200XE(L)	255XE(L)	320XE(L)	400XE(L)	500XE(L)	630 EXW2S(L)	700 EXW2S(L)	800 EXW2S(L)	900 EXW2S(L)	1000 EXW2S(L)	1120 EXW4S(L)	1250 EXW4S(L)	1400 EXW4S(L)	1500 EXW4S(L)	1600 EXW4S(L)	1680 EXW4S(L)	1800 EXW4S(L)	1900 EXW4S(L)	2000 EXW4S(L)
	Model																											
Fan-filter	025W48016-136	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	FU-9803A																											
Battery for main circuit board	025W51225-000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	CR2032																											
Battery for main touch panel	025W51226-000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	PFXZCBBT1																											
Signal conditioner	025W48016-255																											
	MS3704-A-AAA MTT																											

① **Note:** The electrical parts are for IP42.

Figure 11: Control panel cover



LD29533a

Callout	Component
A	Brake handle
B	10.4 in. color touch panel

Figure 12: Interior control panel for CE

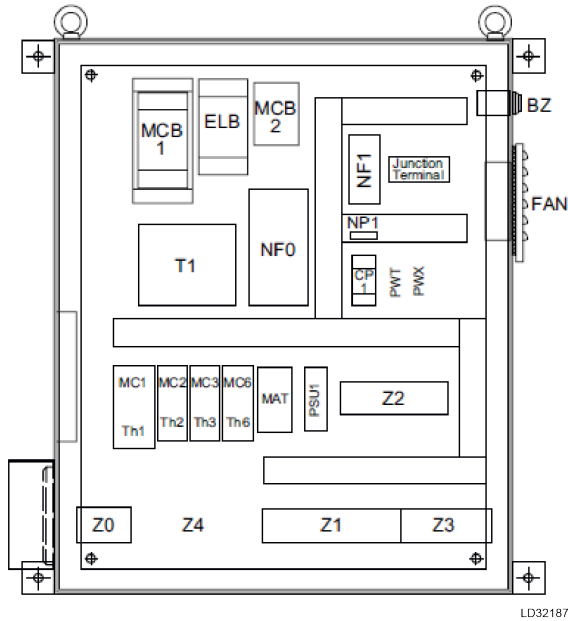


Figure 13: Interior control panel for GB

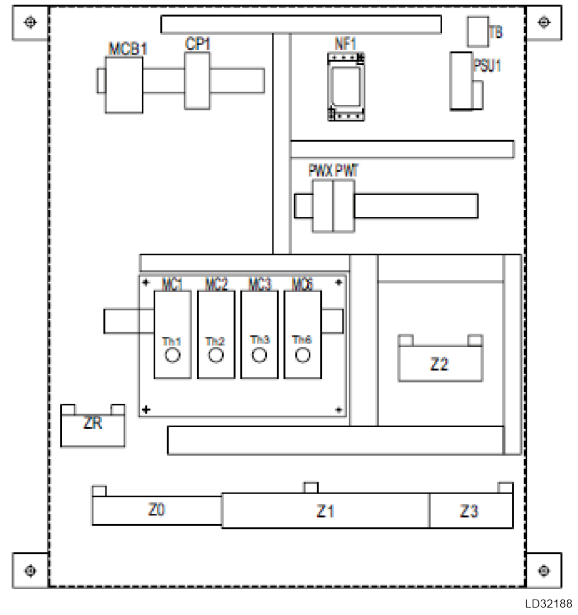


Figure 14: Reference layout of internal control panel

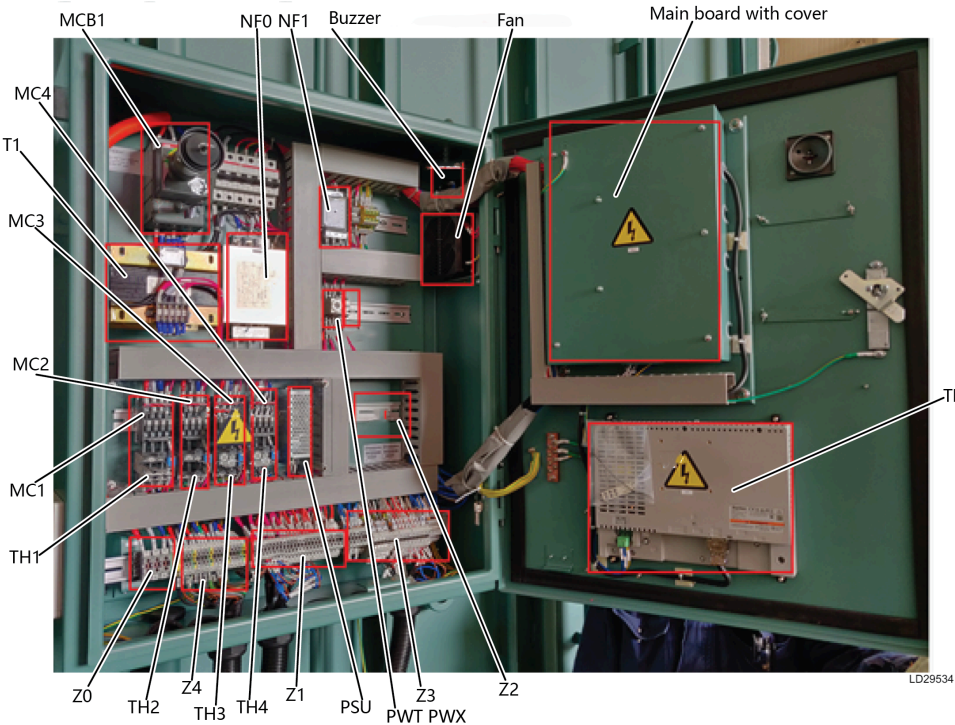


Figure 15: Main board battery

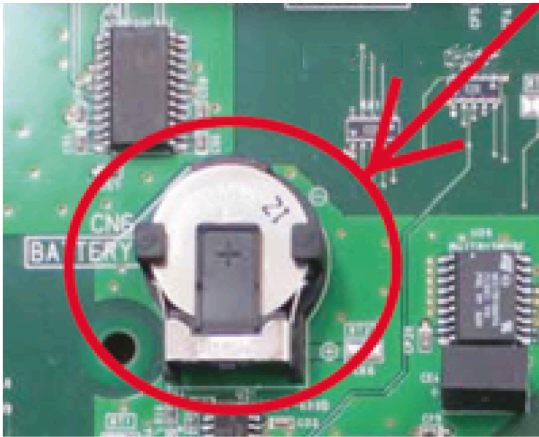
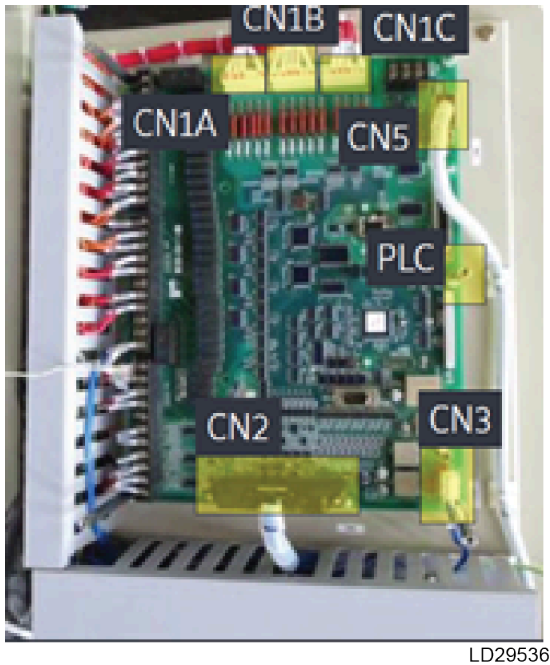


Figure 16: Battery for touch screen



Figure 17: PLC board



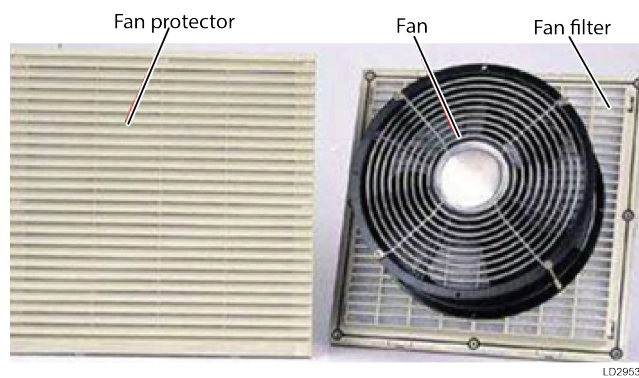
LD29536

Figure 18: Signal conditioner



LD32189

Figure 19: Fan, fan protector, and fan filter



LD29535

Pump and maintenance kits

Table 6: Pump and maintenance kits

Description																												
Part name	Part number	30EXE(L)	40EXE (L)	50EXE (L)	65EXE (L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW2S(L)	700 EXW2S(L)	800 EXW2S(L)	900 EXW2S(L)	1000 EXW2S(L)	1120 EXW4S(L)	1250 EXW4S(L)	1400 EXW4S(L)	1500 EXW4S(L)	1600 EXW4S(L)	1680 EXW4S(L)	1800 EXW4S(L)	1900 EXW4S(L)	2000 EXW4S(L)
	Model																											
Solution circulation pump (AC380-415/50Hz)	026W50009-001																											
	NP50-30B2/115 H4-B-3	1	1	1	1	1	1																					
	026W50010-001																											
	NP80-40B/212H 4-F-4							1	1	1	1																	
	026W49986-001													1	1	1												
	NP100-50B/213 H4-F-3												1	1	1													
	026W50365-001															1	1	1	1	1								
	NP100-60C/312 H4-F-6															1	1	1	1	1								
	026W49914-001																											
	NP125-80E/421 H4-F-2																			1	1	1	1	1	1			
026W51260-046																												
	NP150-100F/52 1H4-F-1																									1	1	1
Solution circulation pump (AC380-400V/60Hz)	026W51260-007																											
	NP50-30B2/115 H4-A-3	1	1	1	1	1	1																					
	026W51260-013																											
	NP80-40B/212H 4-E-4							1	1	1	1																	
	026W51260-020													1	1	1												
	NP100-50B/213 H4-E-3												1	1	1													
	026W50365-004															1	1	1	1	1								
	NP100-60C/312 H4-E-6															1	1	1	1	1								
	026W51260-036																											
	NP125-80E/421 H4-E-2																			1	1	1	1	1	1			
026W51260-047																												
	NP150-100F/52 1H4-E-1																									1	1	1
Solution circulation pump (AC460V/60Hz))	026W51260-009																											
	NP50-30B2/115 H4-A-3	1	1	1	1	1	1																					
	026W51260-015																											
	NP80-40B/212H 4-E-4							1	1	1	1																	
	026W51260-022																											
	NP100-50B/213 H4-E-3											1	1	1														
	026W51230-000																											
	NP100-60C/312 H4-E-6														1	1	1	1	1									
	026W51260-038																											
	NP125-80E/421 H4-E-2																			1	1	1	1	1	1			
026W51260-049																												
	NP150-100F/52 1H4-E-1																									1	1	1

Table 6: Pump and maintenance kits

Description																												
Part name	Part number	30EXE(L)	40EXE (L)	50EXE (L)	65EXE (L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW2S(L)	700 EXW2S(L)	800 EXW2S(L)	900 EXW2S(L)	1000 EXW2S(L)	1120 EXW4S(L)	1250 EXW4S(L)	1400 EXW4S(L)	1500 EXW4S(L)	1600 EXW4S(L)	1680 EXW4S(L)	1800 EXW4S(L)	1900 EXW4S(L)	2000 EXW4S(L)
	Model																											
Solution spray pump (AC380-415V/50Hz)	026W50008-001 NP50-30B2/115 H4-B-4	1	1	1	1	1	1	1	1																			
	026W49987-001 NP100-50B/212 H4-F-8									1	1	1	1	1														
	026W50369-000 NP100-50D/321 H4-F-3														1	1	1	1	1									
	026W49915-001 NP125-80D/322 H4-F-3																			1	1	1	1	1	1			
	026W50420-000 NP150-100E/42 1H4-F-1																									1	1	1
Solution spray pump (AC380-400V/60Hz)	026W51260-052 NP50-30B2/115 H4-A-4	1	1	1	1	1	1	1	1																			
	026W51260-063 NP100-50B/212 H4-E-8									1	1	1	1	1														
	026W51260-066 NP100-50D/321 H4-E-3														1	1	1	1	1									
	026W51260-072 NP125-80D/322 H4-E-3																			1	1	1	1	1	1			
	026W51260-077 NP150-100E/42 1H4-E-1																									1	1	1
Solution spray pump (AC460V/60Hz)	026W51260-054 NP50-30B2/115 H4-A-4	1	1	1	1	1	1	1	1																			
	026W51260-065 NP100-50B/212 H4-E-8									1	1	1	1	1														
	026W51260-068 NP100-50D/321 H4-E-3														1	1	1	1	1									
	026W51260-074 NP125-80D/322 H4-E-3																			1	1	1	1	1	1			
	026W51260-079 NP150-100E/42 1H4-E-1																									1	1	1
Refrigerant pump (AC380-415V/50Hz)	026W50006-001 NP40-20A2/121 H4-B-6	1	1	1	1	1	1	1	1																			
	026W49988-001 NP50-30C2/122 H4-B-5									1	1	1	1	1														
	026W50344-001 NP65-40C/122H 4-B-9														1	1												
	026W50370-000 NP100-50A/115 H4-B-1																1	1	1									
	026W49916-001 NP100-50C/222 H4-F-5																											
	026W50418-001 NP125-80D/321 H4-F-1																									1	1	1

Table 6: Pump and maintenance kits

Description																														
Part name	Part number	30EXE(L)	40EXE (L)	50EXE (L)	65EXE (L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW25(L)	700 EXW25(L)	800 EXW25(L)	900 EXW25(L)	1000 EXW25(L)	1120 EXW45(L)	1250 EXW45(L)	1400 EXW45(L)	1500 EXW45(L)	1600 EXW45(L)	1680 EXW45(L)	1800 EXW45(L)	1900 EXW45(L)	2000 EXW45(L)		
	Model																													
Refrigerant pump (AC380-400V/60Hz)	026W51260-085 NP40-20A2/121 H4-A-6	1	1	1	1	1	1	1	1																					
	026W51260-089 NP50-30C2/122 H4-A-5									1	1	1	1	1																
	026W51260-097 NP65-40C/122H 4-A-9														1	1														
	026W51260-099 NP100-50A/115 H4-A-1																1	1	1											
	026W51260-105 NP100-50C/222 H4-E-5																			1	1	1	1	1	1					
	026W51260-110 NP125-80D/321 H4-E-1																										1	1	1	
	Refrigerant pump (AC460V/60Hz)	026W51260-087 NP40-20A2/121 H4-A-6	1	1	1	1	1	1	1	1																				
		026W51260-091 NP50-30C2/122 H4-A-5									1	1	1	1	1															
		026W50671-000 NP65-40C/122H 4-A-9														1	1													
		026W51260-101 NP100-50A/115 H4-A-1																1	1	1										
026W51260-107 NP100-50C/222 H4-E-5																				1	1	1	1	1	1					
026W51260-112 NP125-80D/321 H4-E-1																											1	1	1	
Maintenance parts kit for solution circulation pump		Can replace the whole pump	N/A	N/A	N/A	N/A	N/A	N/A																						
		NP50-30B2/115																												
		026W51221-002 NP80-40B/212							1	1	1	1																		
		026W51221-003 NP100-50B/213											1	1	1															
	026W51221-004 NP100-60C/312														1	1	1	1	1											
	026W51221-005 NP125-80E/421																			1	1	1	1	1	1					
	026W51221-006 NP150-100F/52 1																									1	1	1		
	Maintenance parts kit for solution spray pump	Can replace the whole pump	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																				
		NP50-30B2/115																												
026W51222-003 NP100-50B/212										1	1	1	1	1																
026W51222-004 NP100-50D/321															1	1	1	1	1											
026W51222-005 NP125-80D/322																				1	1	1	1	1	1					
026W51222-006 NP150-100E/42 1																											1	1	1	

Table 6: Pump and maintenance kits

Description																													
Part name	Part number	30EXE(L)	40EXE (L)	50EXE (L)	65EXE (L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW2S(L)	700 EXW2S(L)	800 EXW2S(L)	900 EXW2S(L)	1000 EXW2S(L)	1120 EXW4S(L)	1250 EXW4S(L)	1400 EXW4S(L)	1500 EXW4S(L)	1600 EXW4S(L)	1680 EXW4S(L)	1800 EXW4S(L)	1900 EXW4S(L)	2000 EXW4S(L)	
	Model																												
Maintenance parts kit for refrigerant pump	Can replace the whole pump	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A																				
	NP40-20A2/121																												
	Can replace the whole pump									N/A	N/A	N/A	N/A	N/A															
	NP50-30C2/122																												
	026W51223-003														1	1													
	NP65-40C/122																												
	026W51223-004																1	1	1										
	NP100-50A/115																												
	026W51223-005																				1	1	1	1	1	1			
	NP100-50C/222																												
026W51223-006																													
NP125-80D/321																										1	1	1	
Gasket kit for solution circulation pump	093W76652-001	1	1	1	1	1	1																						
	NP50-30B2/115																												
	093W76652-002							1	1	1	1																		
	NP80-40B/212																												
	093W76652-002											1	1	1															
	NP100-50B/213																												
	093W76652-003														1	1	1	1	1										
	NP100-60C/312																												
	093W76652-004																				1	1	1	1	1	1			
	NP125-80E/421																												
093W76652-005																										1	1	1	
NP150-100F/521																													
Gasket kit for solution spray pump	093W76652-001	1	1	1	1	1	1	1	1																				
	NP50-30B2/115																												
	093W76652-002									1	1	1	1	1															
	NP100-50B/212																												
	093W76652-006														1	1	1	1	1										
	NP100-50D/321																												
	093W76652-006																			1	1	1	1	1	1				
	NP125-80D/322																												
093W76652-004																									1	1			
NP150-100E/421																													
Gasket kit for refrigerant pump	093W76652-001	1	1	1	1	1	1	1	1																				
	NP40-20A2/121																												
	093W76652-007									1	1	1	1	1															
	NP50-30C2/122																												
	093W76652-008														1	1													
	NP65-40C/122																												
	093W76652-009																	1	1	1									
	NP100-50A/115																												
	093W76652-010																				1	1	1	1	1	1			
	NP100-50C/222																												
093W76652-006																										1	1	1	
NP125-80D/321																													
Vacuum pump (AC380~415V/50Hz; 400~460V/60Hz)	026W49989-000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	PVD-N360-1																												
Vacuum pump (AC200/220 50Hz/60Hz)	026W50677-001	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	PVD-N360-1																												
Maintenance parts kit for vacuum pump	026W50889-000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	PVD-N360-1																												
Vacuum pump V-belt	026W50890-000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	PVD-N360-1																												

① **Note:**

- The maintenance parts kit is suitable for various power supply pumps. The vacuum pump maintenance parts kit is for indoor and outdoor vacuum pumps.
- The pump maintenance kit is not available for models NP40 and NP50. If you require a replacement, buy the whole pump.

Figure 20: Solution and refrigerant pumps



LD32190

Callout	Component
A	Refrigerant pump
B	Solution circulation pump
C	Solution spray pump

Figure 21: Vacuum pump



LD32191

Table 7: Maintenance parts kit for solution and refrigerant pump

Part number	Part list
026W51221-002	Front bearing
	Rear bearing
	Front shaft sleeve
	Rear shaft sleeve
	Front thrust collar
	Rear thrust collar
	Sealing gasket for casing
	Sealing gasket for rear bearing housing
	Lock washer for front end of shaft

Note: The parts are different depending on the pump model. The adjust washer is not currently available.

Table 8: Maintenance parts kit for vacuum pump

Part number	Part list
026W50889-000	Oil seal
	Deep groove ball bearing 1
	Deep groove ball bearing 2
	Oil level gauge
	First blade spring
	Second blade spring
	Exhaust valve plate
	Exhaust valve plate spring
	Composite seal gasket
	Gas ballast valve gasket
	O-ring for PVD-N360
	V-belt

Valves

Table 9: Valve components

Description																													
Part name	Part number	30EXE(L)	40EXE(L)	50EXE(L)	65EXE(L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW2S(L)	700 EXW2S(L)	800 EXW2S(L)	900 EXW2S(L)	1000 EXW2S(L)	1120 EXW4S(L)	1250 EXW4S(L)	1400 EXW4S(L)	1500 EXW4S(L)	1600 EXW4S(L)	1680 EXW4S(L)	1800 EXW4S(L)	1900 EXW4S(L)	2000 EXW4S(L)	
	Model																												
Diaphragm valve (15A)	022W13281-001	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Diaphragm for diaphragm valve (15A)	028W18178-000	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Diaphragm valve haimen (15A)*	022W13807-001	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Diaphragm for diaphragm valve Haimen (15A) *	022W13807-101	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
V11: purge valve from purging tank																													
V14: main purging valve																													
V16: purging valve from absorber																													
V21: purging valve from condenser (directly purging)																													
❶ Note: *Chillers ordered after December 2019 use the Haimen diaphragm valve. The original diaphragm valve and diaphragm gasket are no longer available. When replacing the diaphragm valve, use the Haimen valve.																													
Solenoid valve for purge line and ref. blowing line (AC200)	025W48003-002	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	AB41-04-8-D-3M (AC220V)																												
Solenoid valve for purge line and ref. blowing line (AC110) for UL	025W48003-001	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	AB41-04-8-D-3M (AC110V)																												
Solenoid valve for water purge (AC220)	025W47996-000																												
	ADK11-15X1605																												
Solenoid valve for purge line and ref. blowing line UL AC24 IP65	025W51242-003																												
	AB41-04-8-D-3I (24VDC)																												
Check valve for purge line	022W13235-000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Check valve for purge line China	022W13235-101																												
SV1: vacuum purging solenoid valve SV2: vacuum purging solenoid valve SV3: refrigerant blowing solenoid valve																													
❶ Note: For orders made after November 2020, the check valve must be replaced with the localized type.																													
Sampling valve	022W13372-000	6	7	6	6	6	6	6	6	5	7	7	7	7	9	9	8	8	8	8	8	8	8	8	10	10	10	10	10
O-ring for sampling valve P21	028W18176-000	6	7	6	6	6	6	6	6	5	7	7	7	7	9	9	8	8	8	8	8	8	8	8	10	10	10	10	10

Table 9: Valve components

Description		30EXE(L)	40EXE(L)	50EXE(L)	65EXE(L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW2S(L)	700 EXW2S(L)	800 EXW2S(L)	900 EXW2S(L)	1000 EXW2S(L)	1120 EXW4S(L)	1250 EXW4S(L)	1400 EXW4S(L)	1500 EXW4S(L)	1600 EXW4S(L)	1680 EXW4S(L)	1800 EXW4S(L)	1900 EXW4S(L)	2000 EXW4S(L)
Part name	Part number																											
	Model																											
O-ring for adjusting and sampling valve P16	028W18177-000																											
		24	25	24	24	24	24	20	20	17	21	21	21	21	19	19	18	18	18	23	21	21	21	23	23	23	23	
V30: solution sampling valve before the solution circulation pump																												
V31: solution sampling valve after solution circulation pump																												
V32: solution sampling valve before solution spray pump																												
V33: solution sampling valve after solution spray pump																												
V34: refrigerant sampling valve before the refrigerant pump																												
V35: refrigerant sampling valve after the refrigerant pump																												
V37: solution sampling valve after the generator																												
Pressure release valve for GB	322W13373-001																											
	SAFTY-V/10A 0.8bar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Pressure release valve for CE	022W14372-000																											
	SAFTY-V/10A 0.48bar																											
Oseco rupture disk for UL (1.5in.) 12 psig	026W51293-000																											
	PL15-124-A	1	1	1	1	1	1	1	1	1	1	1	1															
Oseco rupture disk for UL (2in.) 12 psig	026W51295-000																											
	PL02-125-A													1	1	1	1	1	1	1	1							
Oseco rupture disk for UL (3in.) 12 psig	026W51297-000																											
	PLR03-126-A																					1	1	1	1	1	1	
Huali rupture disk kits (DN80) for GB UL 12 psig	326W50681-102	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
Huali rupture disk kits (DN50) for GB UL 12 psig	326W50681-202																						1	1	1	1	1	
Huali rupture disk kits (DN80) for CE 7 psig	393W73906-000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Huali rupture disk (DN80) 7psig CE	026W50860-101	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	YF80-0.048-121A																											
Huali rupture disk (DN50) 12 psig GB UL	026W50861-201	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
	YF50-0.083-121A																											

Table 9: Valve components

Description																													
Part name	Part number	30EXE(L)	40EXE(L)	50EXE(L)	65EXE(L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW25(L)	700 EXW25(L)	800 EXW25(L)	900 EXW25(L)	1000 EXW25(L)	1120 EXW45(L)	1250 EXW45(L)	1400 EXW45(L)	1500 EXW45(L)	1600 EXW45(L)	1680 EXW45(L)	1800 EXW45(L)	1900 EXW45(L)	2000 EXW45(L)	
	Model																												
Hualirupture disk (DN80) 12 psig GB UL	026W50861-101																												
	YF80-0.083-121A																					1	1	1	1	1	1	1	
BS&Brupture disc (DN50) 0.4 barg	026W51936-000																												
	AVV 2in.																												
- The pressure release valve is located on the purging tank as standard for GB and CE. - As of September 2021, the pressure release valve used for CE is 022W14372-000. - The rupture disc assessor is located on the generator shell side. For chillers ordered from August 2019, use the 12 psig rupture disc for UL. - Since October 2020, the Oseco rupture disc kit has been replaced by the Hualirupture disc kit. When replacing the rupture disc, you must also replace the disc kit. - The BS&B 0.4 barg rupture disc is used for special projects only.																													
Air vent valve for water box	022W13246-002																												
	BALL-V/10A	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
Position: on the top of the front and back water box.																													
Drain valve for water box	022W13246-004																												
	BALL-V/20A	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
Position: on the bottom of the front and back water box.																													
Float valve for refrigerant tank	322W13803-000	1	1	1	1	1	1	1	1	1	1	1	1	1															
	REF-FLOAT/32A																												
	022W13382-000														1	1	1												
	REF-FLOAT/50A																												
	322W13896-000																	1	1	1	1	1	1	1	1	1	1	1	
	REF-FLOAT/65A																												
	322W13898-000																												
	REF-FLOAT/65A*																	1	1	1	1	1	1	1	1	1	1	1	
Position: in the refrigerant tank.* Use for the Module 2 unit of twin type chiller or if the chiller has a similar layout to Module 2.																													
Globe valve	022W13370-002											1	2	3	2	2	2	2	1										
	V/50A 20#																												
	022W13370-003														1				1	1	1	1	1	1	1				
	V/65A 20#																												
	022W13370-004															1	1	1	1	1	1	1	1	1	1	1	1	1	
	V/80A 20#																												
Copper packing for globe valve (40A)	021W35469-001																												
		1	2	2	2	2	2	6	6	7	7	4	4	3	2	2	2	2	2										
Copper packing for globe valve (65A)	021W35469-002																												
												1	2	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	
Adjusting valve	022W13371-001	11	11	11	11	11	11	11	11	13	13	13	13	13	4	4	4	4	4	8	6	6	6	6	6	6	6	6	
	V/15A SUS304																												
	022W13371-002	7	7	7	7	7	7	3	3	1	1	1	1	1	6	6	6	6	6	7	7	7	7	7	7	7	7	7	
	V/25A SUS304																												
	022W13371-003	1	2	2	2	2	2	6	6	7	7	4	4	3	2	2	2	2	2										
	V/40A SUS304																												
VH: shut off valve for generator pressure gauge		V4: for absorber solution flow adjusting														V13: absorber purge valve													
VI: shut off valve for pressure release valve		V5: for ejector solution flow adjusting														V15: lower absorber direct purge valve													
VJ: shut off valve for Ref. blowing solenoid valve		V6: for ejector solution flow adjusting														V18: condenser direct purge valve													
VK: shut off valve for Ref. blowing solenoid valve		V8: for refrigerant blow														V19: condenser purge valve													
V1: for generator solution flow adjusting		V10: shout off valve for purge tank														V20: condenser purge valve													
V2: for refrigerant flow adjusting		V12: upper absorber direct purge valve																											

Table 9: Valve components

Description																													
Part name	Part number	30XE(L)	40XE(L)	50XE(L)	65XE(L)	80XE(L)	100XE(L)	130XE(L)	160XE(L)	200XE(L)	255XE(L)	320XE(L)	400XE(L)	500XE(L)	630 EXW2S(L)	700 EXW2S(L)	800 EXW2S(L)	900 EXW2S(L)	1000 EXW2S(L)	1120 EXW4S(L)	1250 EXW4S(L)	1400 EXW4S(L)	1500 EXW4S(L)	1600 EXW4S(L)	1680 EXW4S(L)	1800 EXW4S(L)	1900 EXW4S(L)	2000 EXW4S(L)	
	Model																												
Butterfly valve (option)	022W13280-010 700G-1T (50A)	3	3	3	3	2	2	1	1	2	2	3	3	3	1	1	1	1	1										
	022W13280-011 700G-1T (65A)					1	1	1	1						3	1				1	1	1	1	1	1	1	1	1	
	022W13280-012 700G-1T (80A)							1	1	2	2	1	1	1	2	2	2	2	2										
	022W13280-013 700G-1T (100A)											1	1	1	2	2	3	3	3	3	3	3	3	3	3	3	3	3	
	022W13280-015 700G-1T (125A)																			2	2	2	2	2	2	2	2	2	
VA: butterfly valve before the solution circulation pump																													
VB: butterfly valve after the solution circulation pump																													
VC: butterfly valve before the solution spray pump																													
VD: butterfly valve after the solution spray pump																													
VE: butterfly valve before the refrigerant pump																													
VF: butterfly valve after the refrigerant pump																													

Note: The quantity of globe valves, adjusting valves, and butterfly valves varies according to the chiller order. When placing the order, measure the size of these valves.

Figure 22: Diaphragm valve and diaphragm gasket

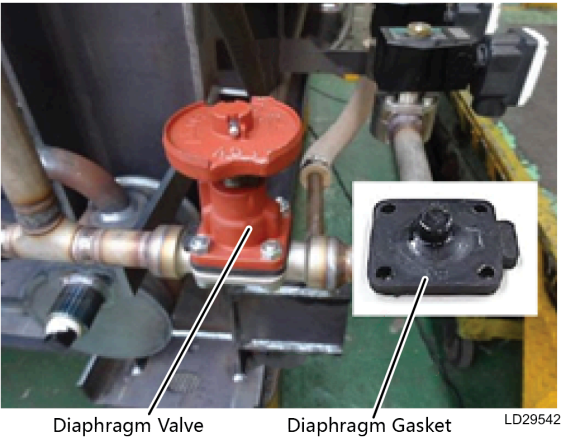


Figure 23: Check valve



Figure 24: Solenoid valve for purge and blow



Figure 25: Sampling valve

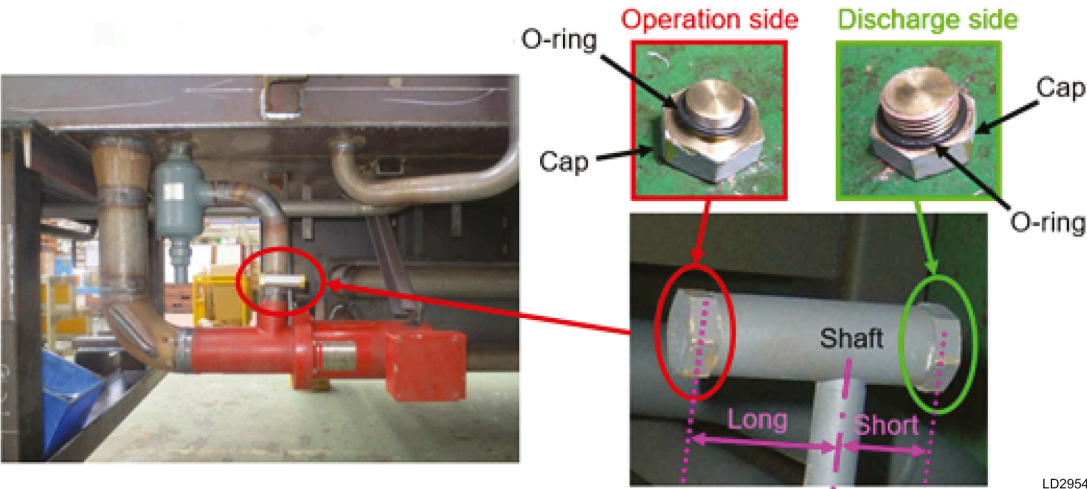
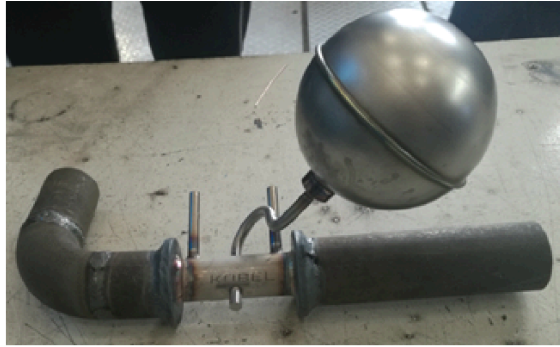


Figure 26: Oseco rupture disc kit



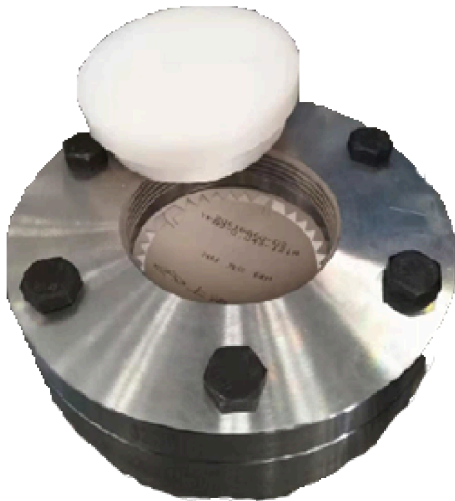
LD29547

Figure 27: Refrigerant water float ball valve



LD29548

Figure 28: Huali rupture disc kit



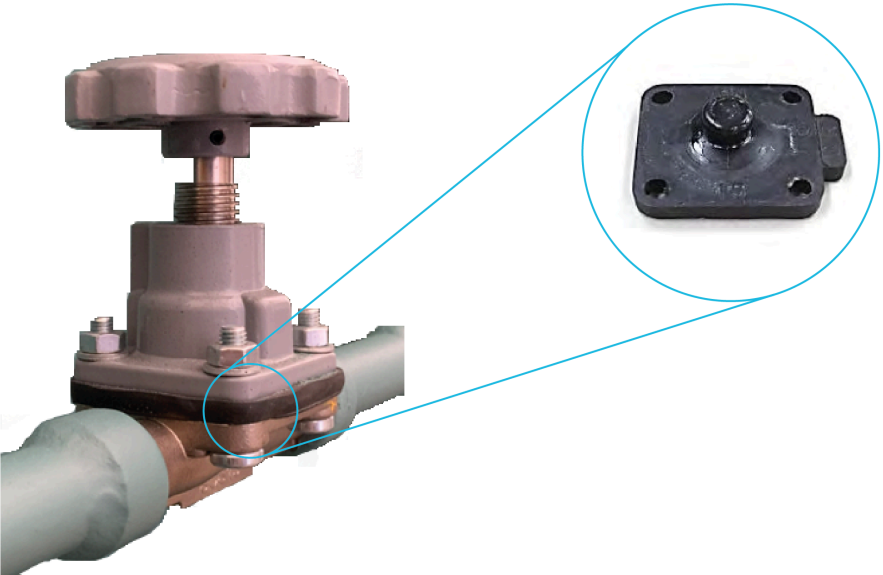
LD31291

Figure 29: Huali rupture disc



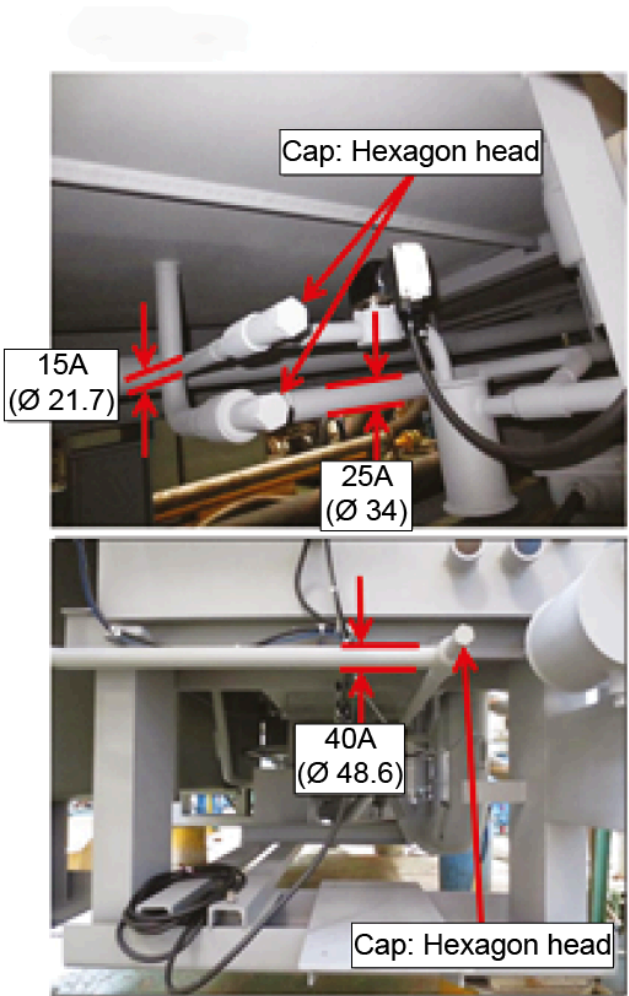
LD31582

Figure 30: Haimen diaphragm valve and gasket



LD31554

Figure 31: Adjusting valve



LD29549

Table 10: Adjusting valve part number and model

Valve name	Part number	Valve model
Adjusting valve	022W13371-001	V-15A
	022W13371-002	V-25A
	022W13371-003	V-40A

Figure 32: Glove valve

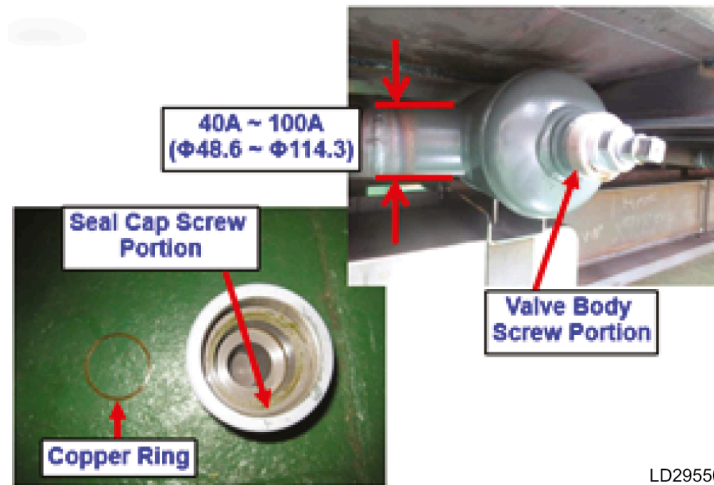


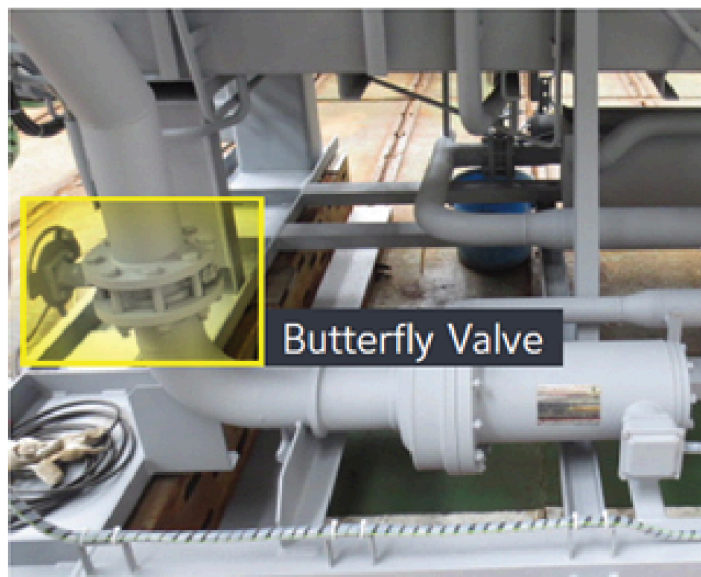
Table 11: Globe valve part number and model

Valve name	Part number	Valve model
Globe valve	022W13370-002	V-50A
	022W13370-003	V-65A
	022W13370-004	V-80A
	022W13370-005	V-100A

Table 12: Valve diameter sizes

Unit	15A	25A	40A	50A	65A	80A	100A	125A	150A
mm	21.7	34	48.6	60	76	89	114	140	165

Figure 33: Butterfly valve



LD29551

Table 13: Butterfly valve part number and model

Valve name	Part number	Valve model
Butterfly valve (option)	022W13280-010	V-50A
	022W13280-011	V-65A
	022W13280-012	V-80A
	022W13280-013	V-100A
	022W13280-015	V-150A

Figure 34: Air vent and water drain valve

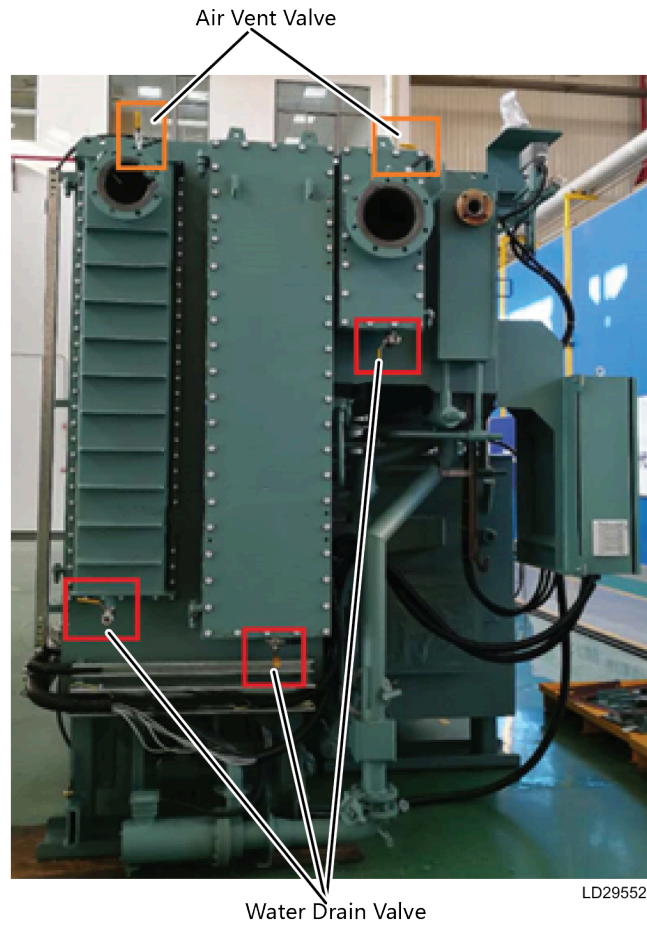
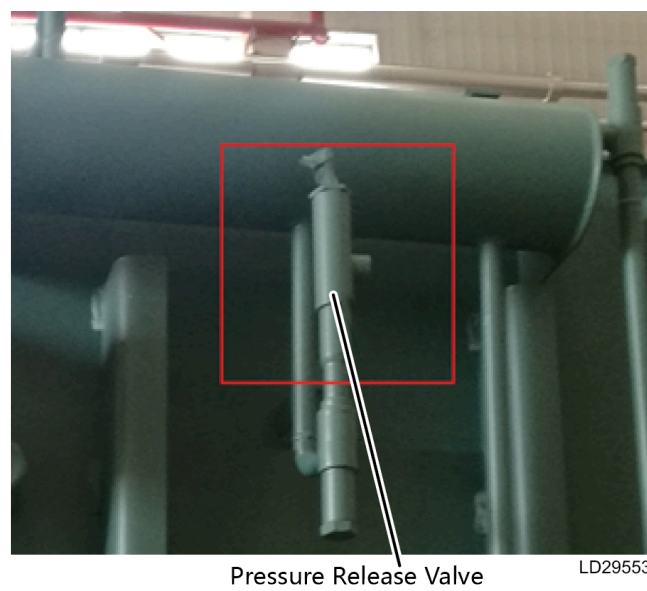


Figure 35: Pressure release valve



Sensor and control switch

Table 14: Sensor and control switch

Description																													
Part name	Part number	30EXE(L)	40EXE (L)	50EXE (L)	65EXE (L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW2S(L)	700 EXW2S(L)	800 EXW2S(L)	900 EXW2S(L)	1000 EXW2S(L)	1120 EXW4S(L)	1250 EXW4S(L)	1400 EXW4S(L)	1500 EXW4S(L)	1600 EXW4S(L)	1680 EXW4S(L)	1800 EXW4S(L)	1900 EXW4S(L)	2000 EXW4S(L)	
	Model																												
Resistance temp. sensor (RTD-1,RTD-2)	025W47992-001	2	2	2	2	2	2	2	2	2	2	2	2	2															
	WZPKT-2906A (10m)																												
	025W48061-002														1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	WZPKT-2906A (15m)																												
	025W48061-006																												
WZPKT-2906A (17m)															1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Resistance temp. sensor (RTD-3)	025W47994-001	1	1	1	1	1	1	1	1	1	1	1	1	1															
	WZPKT-1906 (7m)																												
	025W47994-003																												
	WZPKT-1906 (15m)																												
Thermocouple (T/ C1, T/C2, T/C5, T/ C6)	025W47997-015										3	3	3	3															
	WRNT-106A (12m)																												
	025W47997-001	4	4	4	4	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	WRNT-106A (10m)																												
	025W48063-016																												
WRNT-106A (17m)															3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Thermocouple (T/ C3, T/C4)	025W47999-012	1	1	1	1	1	1	1	1	1	1	1	1	1															
	WRNT-106 (12m)																												
	025W47999-008																												
	WRNT-106 (7m)	1	1	1	1	1	1	1	1	1	1	1	1	1															
	025W47999-011																												
	WRNT-106 (10m)																												
	025W47999-010															1	1	1	1	1	1	1	1	1	1	1	1	1	1
WRNT-106 (17m)																													
First resistance temp. sensor with connector, well, and cable * (RTD-1,RTD-2)	025W51243-001	2	2	2	2	2	2	2	2	2	2	2	2	2															
	FST600-103X (short) (12m)																												
	025W51243-003														1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	FST600-103X (long) (12m)																												
	025W51243-002																												
	FST600-103X (short) (20m)																												
025W51243-004														1	1	1	1	1	1	1	1	1	1	1	1	1	1		
FST600-103X (long) (20m)																													
First resistance temp. sensor with connector, well and cable * (RTD-3)	025W51244-002	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	FST600-103A(short) (20m)																												
First resistance temp. sensor with connector *	025W51243-010	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y															
	FST600-103X (short)																												
	025W51243-011														Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	FST600-103X (long)																												
First thermocouple with connector, well, and cable* (T/C1, T/C2, T/C5, T/C6)	025W51245-001	4	4	4	4	4	4	4	4	4	4	4	4	4															
	FST600-102K (short) (12m)																												
	025W51245-003														1	1	1												
	FST600-102K (long) (12m)																												
	025W51245-002																												
	FST600-102K(short) (20m)																												
	025W51245-004															3	3	3	4	4	4	4	4	4	4	4	4	4	4
FST600-102K (long) (20m)																													

Table 14: Sensor and control switch

Description																												
Part name	Part number	30EXE(L)	40EXE (L)	50EXE (L)	65EXE (L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW25(L)	700 EXW25(L)	800 EXW25(L)	900 EXW25(L)	1000 EXW25(L)	1120 EXW45(L)	1250 EXW45(L)	1400 EXW45(L)	1500 EXW45(L)	1600 EXW45(L)	1680 EXW45(L)	1800 EXW45(L)	1900 EXW45(L)	2000 EXW45(L)
	Model																											
First thermocouple with connector and cable*(T/C3, T/C4)	025W51246-002																											
	FST600-102X (20m)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
First thermocouple with connector *(T/C1, T/C2, T/C5, T/C6)	025W51245-011	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y														
	FST600-102K (short)																											
	025W51245-012																											
	FST600-102K (long)														Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
First thermocouple with connector *(T/C3, T/C4)	025W51246-011																											
	FST600-102X																											
1. * The first brand temperature sensor which has the wire connector is now used to replace original temperature sensor. You only need to replace the temperature sensor and not the cable. Use 025W51243-010 or 025W51243-011 for the resistance temperature sensor, and 025W51245-011 or 025W51245-012, 025W51246-011 for the thermocouple. 2. The sensor has the long and short type (RTD-1, RTD-2, T/C1, T/C2, T/C5, T/C6) according to the size of chilled water, cooling water, and hot water pipe. Check the specification. 3. When using the new brand temperature sensor to replace the original temperature, replace the sensor with the cable the first time, then replace the sensor with the connector in future.																												
Armored thermocouple IP65 First	025W50985-001																											
	WRNKT-50985K L100																											
	025W50985-002																											
	WRNKT-50985K L120																											
	025W50985-003																											
	WRNKT-50985K L150																											
	025W50985-004																											
	WRNKT-50985K L200																											
Armored resistance temp. sensor IP65 First	025W50985-005																											
	WRNKT-50985K L250																											
	025W50986-001																											
	WZPKT-50986 L100																											
	025W50986-002																											
	WZPKT-50986 L120																											
	025W50986-003																											
	WZPKT-50986 L150																											
025W50986-004																												
WZPKT-50986 L200																												
025W50986-005																												
WZPKT-50986 L250																												
Note: 1. The armored type thermocouple and resistance temperature sensor are used only for IP65 and SQ projects. 2. The sensor length selection is determined by the pipe size and the design. Confirm the model during the purchase.																												
Pressure sensor (PT1, PT2)	025W47983-000	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	PA-838-102A-10-064																											
First pressure sensor* (PT1, PT2)	025W51239-002	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	FST800-501A																											
Cable with connector for first pressure sensor	025W51209-999																											
	2m cable with connector																											
Note: 1. * The first pressure sensor with the connector replaces the original pressure sensor. When you replace the sensor, just connect the wire of the connector. You do not need to connect the cable again. 2. When replacing the original sensor for the first time, buy the sensor 025W51239-002 and the cable with connector 025W51209-999. Connect the cable with the existing cable, then can use the connector to connect to the pressure sensor directly.																												
Level switch (33RL)	024W39631-000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	KS3-1S-10593																											
Level switch (33RL) new	025W51239-024																											
	GYW-07-57																											
The level switch is localized. Use the 025W51239-024 to replace 024W39631-000.																												

Table 14: Sensor and control switch

Description																													
Part name	Part number	30EXE(L)	40EXE (L)	50EXE (L)	65EXE (L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW25(L)	700 EXW25(L)	800 EXW25(L)	900 EXW25(L)	1000 EXW25(L)	1120 EXW45(L)	1250 EXW45(L)	1400 EXW45(L)	1500 EXW45(L)	1600 EXW45(L)	1680 EXW45(L)	1800 EXW45(L)	1900 EXW45(L)	2000 EXW45(L)	
	Model																												
Differential pressure relay (69WC1, 69WC2 option)	024W39662-002																												
	WFS10006BA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Density meter for low chilled water supply type chiller	025W51047-002																												
	Proline Promass I 300																												

Figure 36: Pressure differential switch



LD29561

Figure 37: Pressure sensor



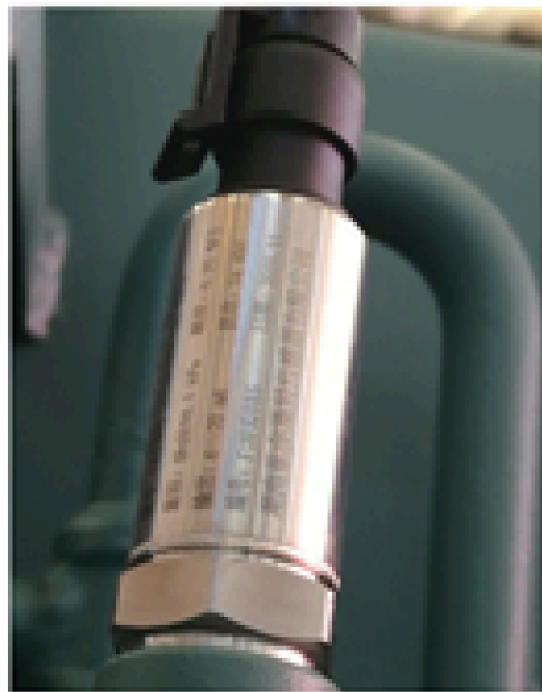
LD29559

Figure 38: Level switch



LD29581

Figure 39: First pressure sensor

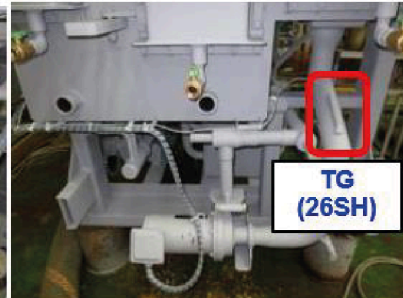
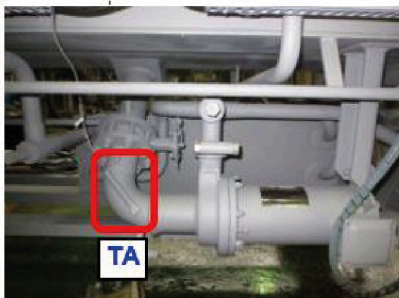
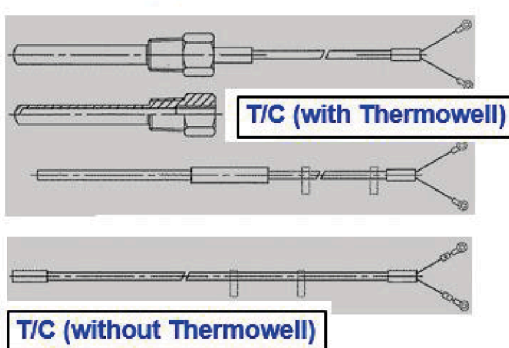
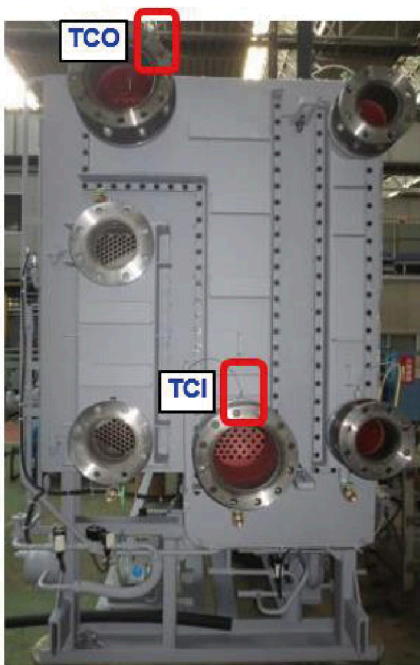


LD31299

Figure 40: Density meter for low chilled water supply type chiller



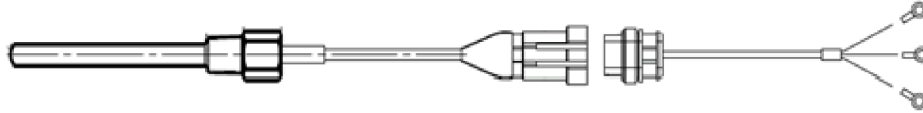
LD31570



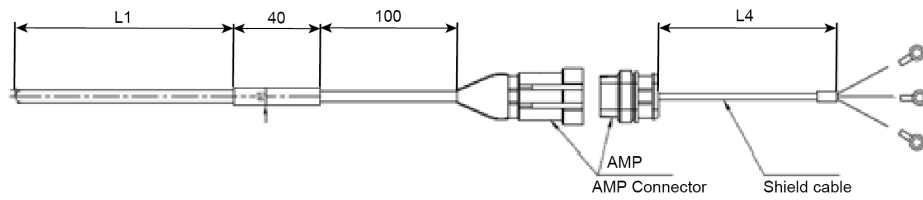
LD32381

Figure 41: First resistance temperature sensor for RTD1, RTD2, and RTD3

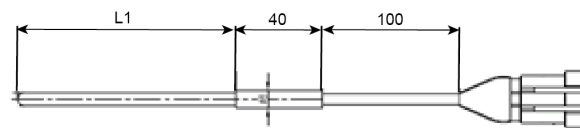
Temperature sensor with connector, well and cable for RTD-1 RTD-2



Temperature sensor with connector and cable for RTD-3



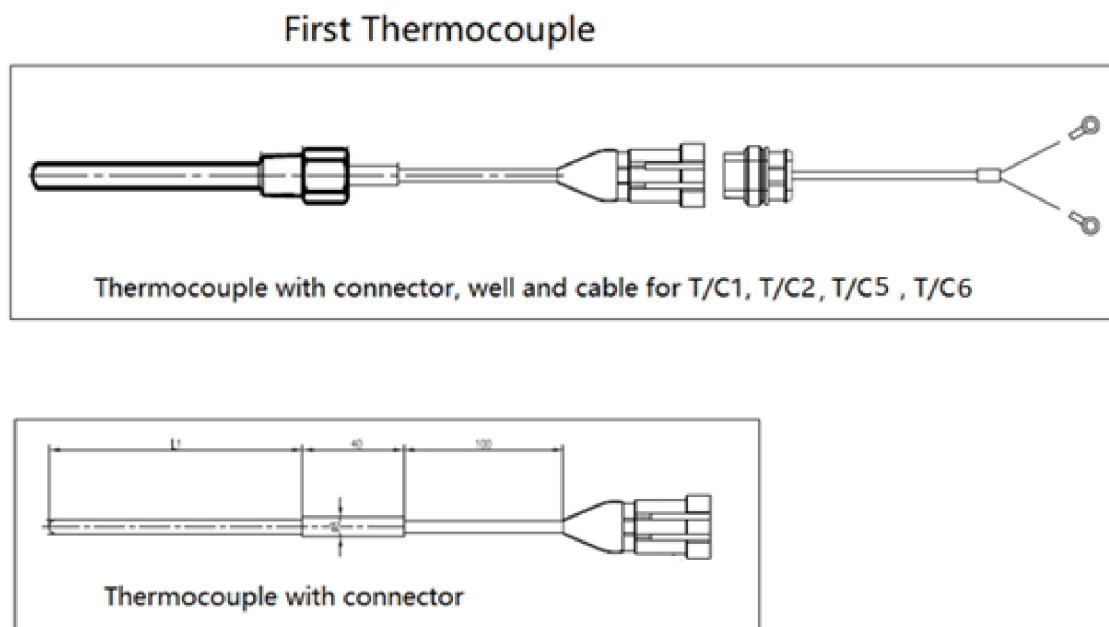
Temperature sensor with connector



LD31294

- ① **Note:** The cable lengths are as follows:
- L1 = 80 mm (short) L1 = 180 mm (long)
 - L4 = 5 m or 7 m depending on the type

Figure 42: First thermocouple for T/C1, T/C2, T/C5, and T/C6



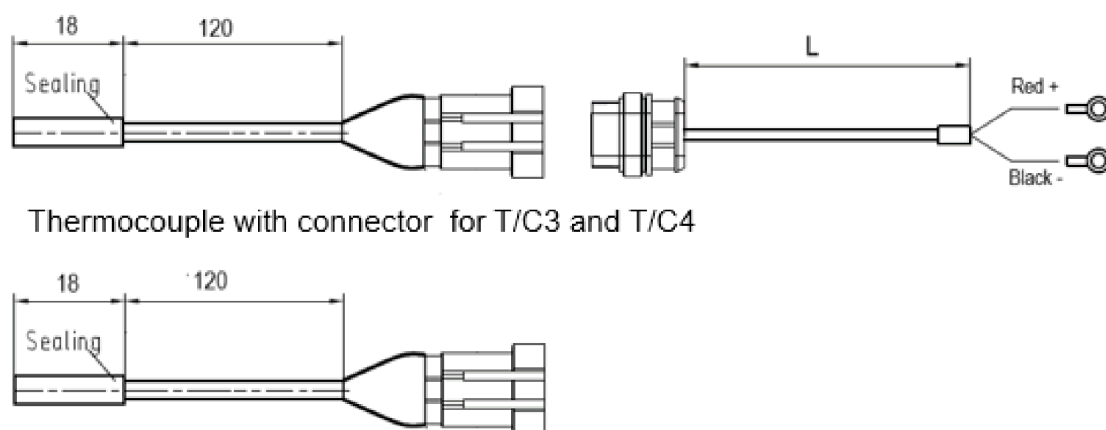
LD32018

① **Note:**

1. L1= 80mm (short)
L1= 180mm (long)
2. L4 is the cable length.

Figure 43: First thermocouple for T/C3 and T/C4 (mm)

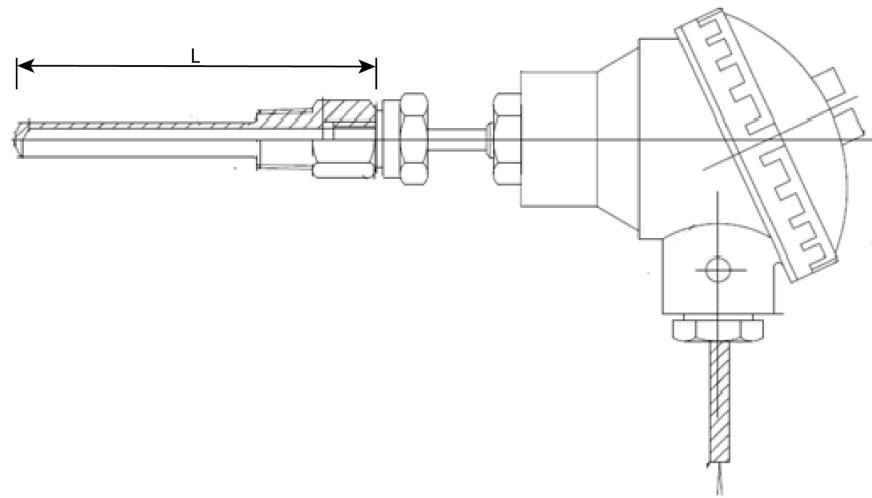
Thermocouple with connector and cable for T/C3 and T/C4



LD32012

① **Note:** L= 2000mm.

Figure 44: Armored type thermocouple IP65

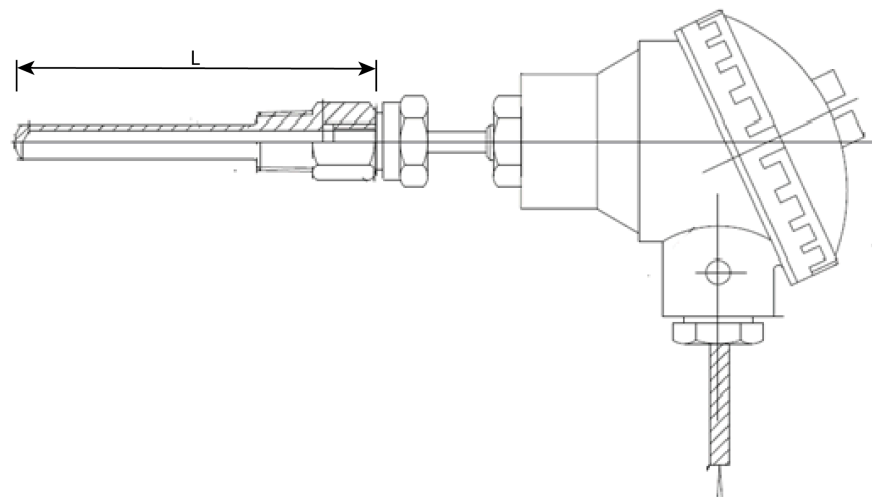


LD31297

Table 15: Part numbers and sizes of Armored type thermocouples

Part number	Length (mm)	Pipe size
025W50985-001	100	DN65-80
025W50985-002	120	DN100-125
025W50985-003	150	DN150-200
025W50985-004	200	DN250-300
025W50985-005	250	DN350-450

Figure 45: Armored type resistance temperature sensor IP65



LD31297

Table 16: Part numbers and sizes of armored type thermocouples

Part number	Length (mm)	Pipe size
025W50986-001	100	DN65-80
025W50986-002	120	DN100-125
025W50986-003	150	DN150-200
025W50986-004	200	DN250-300
025W50986-005	250	DN350-450

Other parts

Table 17: Other parts

Description																													
Part name	Part number	30EXE(L)	40EXE(L)	50EXE(L)	65EXE(L)	80EXE(L)	100EXE(L)	130EXE(L)	160EXE(L)	200EXE(L)	255EXE(L)	320EXE(L)	400EXE(L)	500EXE(L)	630 EXW25(L)	700 EXW25(L)	800 EXW25(L)	900 EXW25(L)	1000 EXW25(L)	1120 EXW45(L)	1250 EXW45(L)	1400 EXW45(L)	1500 EXW45(L)	1600 EXW45(L)	1680 EXW45(L)	1800 EXW45(L)	1900 EXW45(L)	2000 EXW45(L)	
	Model																												
Compound gauge for generator -0.1MPa~0.2MPa	022W13350-002																												
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Vacuum gauge for purge line -0.1MPa~0MPa	022W13350-003																												
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Vacuum gauge for purge line -0.1MPa~0.15MPa	022W13350-005																												
Combined type sight glass DN70	392W71221-000																												
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Sight glass single type DN52.5	026W50407-000																												
① Note: The two type sight glasses are of the welding type. The single type is specifically used for the generator. Confirm which type is needed before replacing.																													
Rubber hose for purge line	022W13899-001																												
Paint for water box A	013W03621-000																												
Paint for water box B	013W03620-000																												
Water box paint thinner	013W03481-000																												
Surface paint (base)	013W04022-000																												
Surface paint (cure)	013W04023-000																												
Vacuum pump oil	028W17656-000																												
	ULVOIL R-7																												
LiBr solution 320kg/ barrel	011W01078-000																												
	55% 200L																												
LiBr solution 100kg/ barrel	011W01083-001																												
	55% 60L																												
Lithium molybdate solution	011W01077-000																												
Lithium nitrate solution	011W01076-000																												
Octyl alcohol	011W01070-000																												

① Note:

- The surface paint is Munsell 4.65G 4.50/2.85 and does not have the standard ROL color code. The factory can send the Color Standard Panel, and the paint company can make the surface paint according to this color standard panel.

- Because export from China is forbidden, when you want to purchase vacuum pump oil, lithium molybdate, lithium nitrate and octyl alcohol, contact Johnson Controls.

Figure 46: Compound gauge



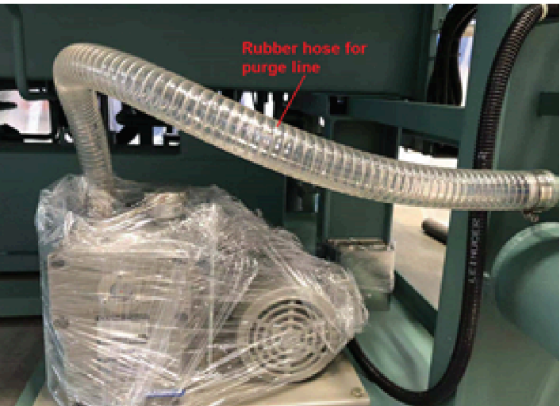
LD31561

Figure 47: Purge vacuum gauge



LD31560

Figure 48: Rubber hose for purge line



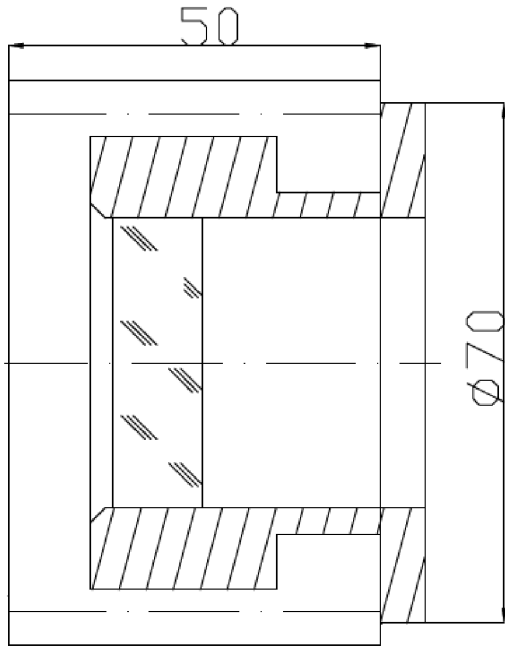
LD29569

Figure 49: Color standard panel



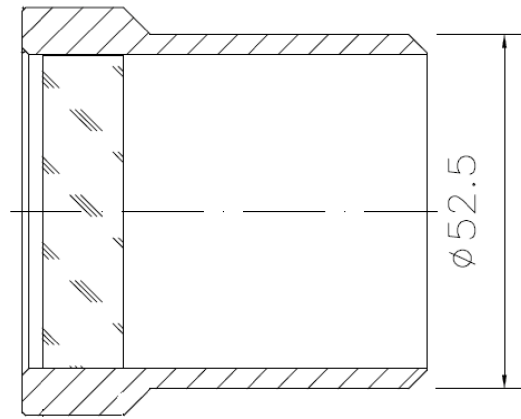
LD29570

Figure 50: Combined sight glass



LD32383

Figure 51: Single type sight glass



LD32382

Standard parts kit and tools kit

Table 18: Tools kit

Name	Part number	Part list	Description	Unit	Quantity
Tools kit	393W21036-000	PP measuring cylinder	(B class) -250 ml 650941	Pcs	2
		Glass thermometer	H441 range 5°C to 135°C (41°F to 275°F)	Pcs	2
		Glass thermometer	E520R 0°C to 80°C (32°F to 176°F)	Pcs	2
		Density meter	14 pcs package	set	1
		Allen-key	8 mm, 20	Pcs	1
		Spanner	8#	Pcs	1
		Sampler	250 ml	Pcs	1
		Sampling joint for sampling valve		Pcs	1
		Sampling joint for purge line		Pcs	1
		Sampling hose	ID = 8 mm, OD = 18 mm, L = 1,500 mm	Pcs	2
		Suitcase for tools kit		Pcs	1

Figure 52: Tools kit



LD31319

Table 19: Parts kit

Name	Part number	Part list	Part model	Unit	Qt.
Parts kit	393W21037-000	Thermocouple	FST600-102K with thermo-well, joint and 12 m cable	Pcs	1
		Resistance temperature sensor	FST600-103X with thermo-well, joint and 12 m cable	Pcs	1
		Pressure sensor	FST800-501A	Pcs	1
		Cable with connector for pressure sensor	L= 2m	Pcs	1
		Differential pressure switch	WFS10	Pcs	1
		O-ring gasket of sampling valve	P-21 (Extract Side)	Pcs	10
		O-ring for adjusting valve (15A-40A)	P-16 (Operate Side)	Pcs	10
		Diaphragm gasket for purging vale	Haimen valve	Pcs	1
		Vacuum pump belt		Pcs	1
		Suitcase for parts kit		Pcs	1

Figure 53: Parts kit

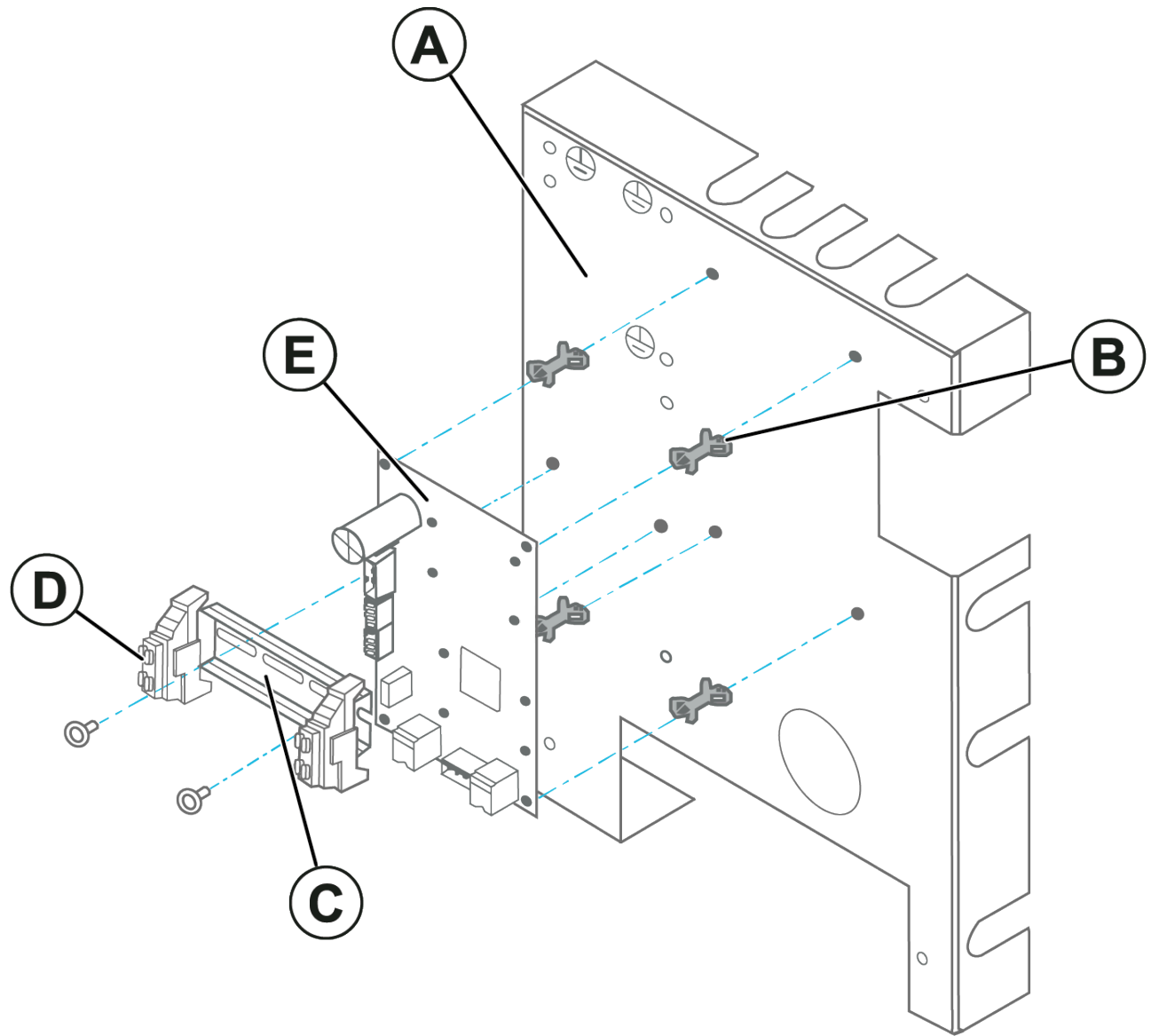


LD31320

ⓘ **Note:** This part manual does not include the tubes part number for each model. If you need the tubes or other parts which are not in the part manual, inform the PTS department.

SC-EQ board installation kit

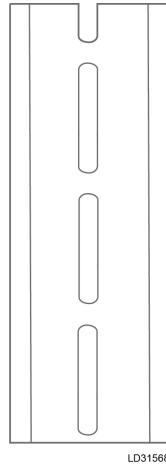
Figure 54: SC-EQ installation kits



LD31581

Callout	Component part number	Component part name
A	—	PLC cover
B	025W43782-023	PCB support
C	025W43770-915	Rail
D	025W42501-040	End stop
E	031-03610-000	SC-EQ board

Figure 55: Rail



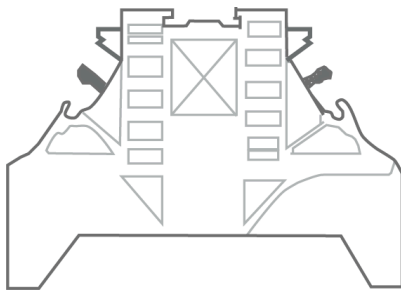
LD31568

Figure 56: PCB support



LD31569

Figure 57: End stop



LD31583

Figure 58: Screw



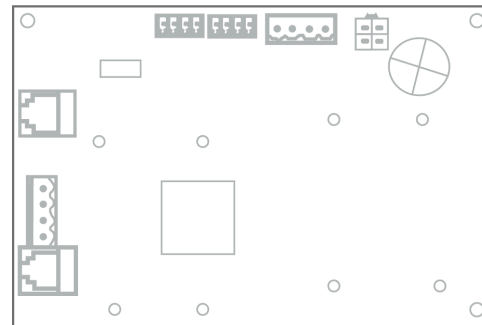
LD31584

Figure 59: Harness SC-EQ



LD31585

Figure 60: SC-EQ board



LD31586

Table 20: Part numbers for components of SC-EQ installation kit

Name	Part number	Part list	Part model	Part number	Qt.
SC-EQ installation kit	371W09489-701	PCB support	CS-0813 KSS	025W43782-023	4
		Rail	DIN35 AL L=110	025W43770-915	1
		End stop	E/UK Phoenix	025W42501-040	2
		Screw thread tapping pan	ST3.5XL=9.5 mm	021W33846-007	2
		SC-EQ board		031-03610-000	1
		Harness SC-EQ		393W34586-801	1

