	V2 AIR COOLED SPLIT COMMERCIAL CONDENSING UNIT
INSTALLATION, TECHNICAL, MAINTENANCE	IOM NO: T-CU01-APR24-7

**Reciprocating Condensing unit
for medium temperature application**

DRM Codes	DMSS Codes
JEHBCU0150M1	LRMRS0150AXV1
JEHBCU0150M3	LRMRS0150AXY1
JEHBCU0225M1	LRMRS0225AXV1
JEHBCU0225M3	LRMRS0225AXY1
JEHBCU0300M1	LRMRS0300AXV1
JEHBCU0300M3	LRMRS0300AXY1
JEHBCU0400M3	LRMRS0400AXY1
JEHBCU0500M3	LRMRS0500AXY1
JEHBCU0600M3	LRMRS0600AXY1
JEHBCU0675M3	LRMRS0675AXY1
JEHBCU0825M3	LRMRS0825AXY1
JEHBCU1000M3	LRMRS1000AXY1

**Scroll Condensing unit
for medium temperature application**

DRM Codes	DMSS Codes
JEHBSCU0200M1	LRMSS0200AXV1
JEHBSCU0200M3	LRMSS0200AXY1
JEHBSCU0250M1	LRMSS0250AXV1
JEHBSCU0250M3	LRMSS0250AXY1
JEHBSCU0300M1	LRMSS0300AXV1
JEHBSCU0300M3	LRMSS0300AXY1
JEHBSCU0350M1	LRMSS0350AXV1
JEHBSCU0350M3	LRMSS0350AXY1
JEHBSCU0400M1	LRMSS0400AXV1
JEHBSCU0400M3	LRMSS0400AXY1
JEHBSCU0500M3	LRMSS0500AXY1
JEHBSCU0600M3	LRMSS0600AXY1
JEHBSCU0680M3	LRMSS0680AXY1
JEHBSCU0800M3	LRMSS0800AXY1
JEHBSCU1000M3	LRMSS1000AXY1

**Reciprocating Condensing unit
for low temperature application**

DRM Codes	DMSS Codes
JEHBCU0175L1	LRLRS0175AXV1
JEHBCU0175L3	LRLRS0175AXY1
JEHBCU0225L1	LRLRS0225AXV1
JEHBCU0225L3	LRLRS0225AXY1
JEHBCU0350L3	LRLRS0350AXY1
JEHBCU0400L3	LRLRS0400AXY1
JEHBCU0725L3	LRLRS0725AXY1

**Scroll Condensing unit
for low temperature application**

DRM Codes	DMSS Codes
JEHBSCU0200L3	LRLSS0200AXY1
JEHBSCU0300L3	LRLSS0300AXY1
JEHBSCU0400L3	LRLSS0400AXY1
JEHBSCU0500L3	LRLSS0500AXY1
JEHBSCU0600L3	LRLSS0600AXY1
JEHSCU0750CL3	LRLSFS0750BXY1
JEHSCU0951CL3 EVI	LRLVFS0951BXY1

Scan below QR code to download latest manual from

Website: <https://drm.daikinmalaysia.com/download/>



IMPORTANT!

READ BEFORE PROCEEDING!

GENERAL SAFETY GUIDELINES

This guideline is intended for users to ensure safe installation, operation, and maintenance of DAIKIN condensing units. This guideline is not intended to replace the system expertise available from the system manufacturers.

This equipment is a relatively complicated apparatus. During installation, operation, maintenance or service, individuals may be exposed to certain components or conditions including, but not limited to refrigerants, materials under pressure, rotating components, and both high and low voltage. Each of these items has the potential, if misused or handled improperly, to cause bodily injury or death. It is the obligation and responsibility of operating/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 operating/service personnel. It is expected that these individuals possess independent training that will enable them to perform their assigned tasks properly and safely. It is essential that, prior to performing any task on this equipment, this individual shall have read and understood this document and any referenced materials. This individual shall also be familiar with and comply with all applicable 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:



WARNING

Warning! Risk of serious injury or death to person!



NOTICE

Notice! Risk of damage to equipment!



CAUTION

Caution! Danger which can lead to serious damages!

DISPOSAL

At the end of the system's useful life, a suitably qualified engineer or serviceman should decommission it. The refrigerant and lubricant are classed as hazardous waste and as such must be reclaimed and disposed of in the correct manner. The system components to be disposed or recycled as appropriate in the correct manner.

CHANGEABILITY OF THIS DOCUMENT

In complying with Daikin' policy for continuous product improvement, the information contained in this document is subject to change without notice. Daikin makes no commitment to update or provide current information automatically to the manual owner. Updated manuals, if applicable, can be obtained by contacting the nearest Daikin Service office.

Operating/service personnel maintain responsibility for the applicability of these documents to the equipment. If there is any question regarding the applicability of these documents, the technician should verify whether the equipment has been modified and if current literature is available from the owner of the equipment prior to performing any work on the equipment.

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1. Nomenclature

L	R	M	S	S	0	1	5	0	A	X	Y	1
1	2	3	4	5	6	7	8	9	10	11	12	13

Digit	Description
1	L – Daikin low temperature air conditioner
2	R – Outdoor Unit
3 & 4	LR – Low Temp. Reciprocating; MR – Medium Temp. Reciprocating LS – Low Temp. Scroll MS – Medium Temp. Scroll LSF – Low Temp. Scroll with Fan Speed Controller LVF – Low Temp. Scroll Vapor Injection with Fan Speed Controller
5	Refrigerant, S – R404A
6,7, 8 & 9	Compressor horse power, 0150 – 1.5HP
10	A – First revision B – Second revision
11	X - Produced by Daikin Refrigeration Malaysia
12 & 13	Power supply: V1 – 1ph/50Hz/220~240V; Y1 – 3ph/50Hz/380~415V

2. Standard Product Configuration

- Hermetic scroll or reliable reciprocating type compressors
- IP54 rated control panel
- Magnetic contactor (Note: except single phase medium temperature application condensing unit).
- External shut off valves for quick installation and easy access and maintenance.
- Weather proof housing made of epoxy coated steel
- Corrugated aluminium fin and inner groove hairpin condenser
- Liquid receiver is sized to accumulate refrigerant amount up to 25m piping length for reciprocating models and 50m piping length for scroll models during pump down.
- Oil separator and non-return valve for low temperature models
- Sight glass and flare type filter drier
- Dual pressure switch to protect compressor
- Designed for zero ozone depletion potential (ODP=0) refrigerant R404A (available for all range condensing units) or R134a (available for medium temperature application condensing units).
- The condensing unit is fully factory tested and is filled with holding nitrogen ~bar.

3. Specifications

General Medium Temperature Application

MODEL		Electrical Data		Compressor						Fan Motors	
		Power Input	Type	Swept volume (m³/h)	Oil type	Oil Charge (cm³)	Operating Current (A)*	MCC** (A)	LRC (A)	No.	FLC (A)
DRM Codes	DMSS Codes										
JEHBCU-0150-M-1	LRMRS0150AXV1	230V/1~/50Hz	MTZ18-5VM	5.26	Polyester oil (160PZ)	950	6.6	10	40	1	0.6
JEHBCU-0150-M-3	LRMRS0150AXY1	400V/3~/50Hz	MTZ18-4VM	5.26		950	2.7	5	20	1	0.6
JEHBCU-0225-M-1	LRMRS0225AXV1	230V/1~/50Hz	MTZ28-5VM	8.36		950	11	20	51	1	0.6
JEHBCU-0225-M-3	LRMRS0225AXY1	400V/3~/50Hz	MTZ28-4VM	8.36		950	4	7.5	23	1	0.6
JEHBCU-0300-M-1	LRMRS0300AXV1	230V/1~/50Hz	MTZ36-5VM	10.52		950	15.2	22	60	1	0.6
JEHBCU-0300-M-3	LRMRS0300AXY1	400V/3~/50Hz	MTZ36-4VM	10.52		950	4.9	9	30	1	0.6
JEHBCU-0400-M-3	LRMRS0400AXY1	400V/3~/50Hz	MTZ50-4VM	14.9		1800	6.5	12	47	1	1.1
JEHBCU-0500-M-3	LRMRS0500AXY1	400V/3~/50Hz	MTZ64-4VM	18.74		1800	8.3	13.5	64	1	1.1
JEHBCU-0600-M-3	LRMRS0600AXY1	400V/3~/50Hz	MTZ72-4VM	21.04		1800	8.7	17.5	80	1	1.1
JEHBCU-0675-M-3	LRMRS0675AXY1	400V/3~/50Hz	MTZ80-4VM	23.63		1800	10.3	18.5	80	1	1.1
JEHBCU-0825-M-3	LRMRS0825AXY1	400V/3~/50Hz	MTZ100-4VM	29.8	Emkarate RL32-3MAF & Mobil Arctic 22CC	3900	12.4	22	90	2	1.2
JEHBCU-1000-M-3	LRMRS1000AXY1	400V/3~/50Hz	MTZ125-4VM	37.49		3900	14.3	27	105	2	1.2
JEHBSU-0200-M1	LRMSS0200AXV1	230V/1~/50Hz	ZB15KQE-PFJ	5.9		1240	7.7	18.5	58	1	0.6
JEHBSU-0200-M3	LRMSS0200AXY1	400V/3~/50Hz	ZB15KQE-TFD	5.9		1240	3.1	7.0	26	1	0.6
JEHBSU-0250-M1	LRMSS0250AXV1	230V/1~/50Hz	ZB19KQE-PFJ	6.8		1300	9.6	20.5	61	1	0.6
JEHBSU-0250-M3	LRMSS0250AXY1	400V/3~/50Hz	ZB19KQE-TFD	6.8		1360	4.1	7.0	32	1	0.6
JEHBSU-0300-M1	LRMSS0300AXV1	230V/1~/50Hz	ZB21KQE-PFJ	8.6		1450	12.6	21.5	82	1	0.6
JEHBSU-0300-M3	LRMSS0300AXY1	400V/3~/50Hz	ZB21KQE-TFD	8.6		1450	5.0	10.3	40	1	0.6
JEHBSU-0350-M1	LRMSS0350AXV1	230V/1~/50Hz	ZB26KQE-PFJ	9.9		1500	13.9	25.0	97	1	1.1
JEHBSU-0350-M3	LRMSS0350AXY1	400V/3~/50Hz	ZB26KQE-TFD	9.9		1500	5.5	9.0	46	1	1.1
JEHBSU-0400-M1	LRMSS0400AXV1	230V/1~/50Hz	ZB29KQE-PFJ	11.4	Mobil Arctic 22CC	1360	15.6	28.0	114	1	1.1
JEHBSU-0400-M3	LRMSS0400AXY1	400V/3~/50Hz	ZB29KQE-TFD	11.4		1360	7.0	11.0	50	1	1.1
JEHBSU-0500-M3	LRMSS0500AXY1	400V/3~/50Hz	ZB38KQE-TFD	14.4		2070	9.4	13.5	66	1	1.1
JEHBSU-0600-M3	LRMSS0600AXY1	400V/3~/50Hz	ZB45KQE-TFD	17.1		1890	9.7	14.2	74	1	1.1
JEHBSU-0680-M3	LRMSS0680AXY1	400V/3~/50Hz	ZB48KQE-TFD	18.8		1800	9.9	19.1	101	1	1.1
JEHBSU-0800-M3	LRMSS0800AXY1	400V/3~/50Hz	ZB58KQE-TFD	22.1		2500	12.4	23.0	95	2	1.2
JEHBSU-1000-M3	LRMSS1000AXY1	400V/3~/50Hz	ZB76KQE-TFD	29.1		3200	16.8	28.0	118	2	1.2

MODEL		Coil Volume (Litre)	Condenser Airflow (m³/h)	Receiver volume (Litre)	Connection		Dimensions			Weight (kg)	Sound pressure dB(A) at 10m***
DRM Codes	DMSS Codes				Suction (inch)	Liquid (inch)	Width (mm)	Depth (mm)	Height (mm)		
JEHBCU-0150-M-1	LRMRS0150AXV1	1.5	3040	4.6	1/2	3/8	1109	478	649	77	38
JEHBCU-0150-M-3	LRMRS0150AXY1	1.5	3040	4.6	1/2	3/8	1109	478	649	77	38
JEHBCU-0225-M-1	LRMRS0225AXV1	3.1	2620	4.6	1/2	3/8	1109	478	649	84	39
JEHBCU-0225-M-3	LRMRS0225AXY1	3.1	2620	4.6	1/2	3/8	1109	478	649	84	39
JEHBCU-0300-M-1	LRMRS0300AXV1	3.1	2620	4.6	5/8	3/8	1109	478	649	84	40
JEHBCU-0300-M-3	LRMRS0300AXY1	3.1	2620	4.6	5/8	3/8	1109	478	649	84	40
JEHBCU-0400-M-3	LRMRS0400AXY1	4.7	6050	7.6	7/8	1/2	1335	529	884	116	40
JEHBCU-0500-M-3	LRMRS0500AXY1	4.7	6050	7.6	7/8	1/2	1335	529	884	116	42
JEHBCU-0600-M-3	LRMRS0600AXY1	7.6	5180	7.6	7/8	1/2	1335	529	884	122	45
JEHBCU-0675-M-3	LRMRS0675AXY1	7.6	5180	7.6	1 1/8	1/2	1335	529	884	122	45
JEHBCU-0825-M-3	LRMRS0825AXY1	6.9	6770	14	1 1/8	1/2	1258	590	1436	200	43
JEHBCU-1000-M-3	LRMRS1000AXY1	6.9	6770	14	1 1/8	1/2	1258	590	1436	200	43
JEHBSU-0200-M1	LRMSS0200AXV1	3.1	2620	4.6	3/4	3/8	1109	478	649	83	37
JEHBSU-0200-M3	LRMSS0200AXY1	3.1	2620	4.6	3/4	3/8	1109	478	649	83	37
JEHBSU-0250-M1	LRMSS0250AXV1	3.1	2620	4.6	3/4	3/8	1109	478	649	85	37
JEHBSU-0250-M3	LRMSS0250AXY1	3.1	2620	4.6	3/4	3/8	1109	478	649	85	37
JEHBSU-0300-M1	LRMSS0300AXV1	3.1	2620	4.6	3/4	3/8	1109	478	649	87	39
JEHBSU-0300-M3	LRMSS0300AXY1	3.1	2620	4.6	3/4	3/8	1109	478	649	87	39
JEHBSU-0350-M1	LRMSS0350AXV1	4.7	6050	7.6	3/4	1/2	1335	529	884	109	38
JEHBSU-0350-M3	LRMSS0350AXY1	4.7	6050	7.6	3/4	1/2	1335	529	884	109	38
JEHBSU-0400-M1	LRMSS0400AXV1	4.7	6050	7.6	7/8	1/2	1335	529	884	116	37
JEHBSU-0400-M3	LRMSS0400AXY1	4.7	6050	7.6	7/8	1/2	1335	529	884	116	37
JEHBSU-0500-M3	LRMSS0500AXY1	4.7	6050	7.6	7/8	1/2	1335	529	884	121	38
JEHBSU-0600-M3	LRMSS0600AXY1	7.6	5180	7.6	7/8	1/2	1335	529	884	123	43
JEHBSU-0680-M3	LRMSS0680AXY1	7.6	5180	7.6	7/8	1/2	1335	529	884	124	43
JEHBSU-0800-M3	LRMSS0800AXY1	6.9	6770	14	1 1/8	1/2	1261	594	1435	200	47
JEHBSU-1000-M3	LRMSS1000AXY1	6.9	6770	14	1 3/8	1/2	1261	594	1435	200	47

* Refer to condition: Evaporation temperature = -10°C, Outside ambient temperature = 32°C (Medium temperature application, R404A)

** MCC= Maximum Continuous Current

*** Sound Pressure Level measured in an anechoic room at (-10/+32°C) MT conditions. Alternative conditions may produce different results

General Low Temperature Application

MODEL		Electrical Data	Compressor							Fan Motor	
DRM Codes	DMSS Codes	Power Input	Type	Swept volume (m ³ /h)	Oil type	Oil Charge (cm ³)	Operating Current (A)*	MCC** (A)	LRC (A)	No.	FLC (A)
JEHBCU-0175-L-1	LRLRS0175AXV1	230V/1~/50Hz	NTZ48-5VM	8.3	Polyester oil (175Z)	950	5.9	11	37	1	0.6
JEHBCU-0175-L-3	LRLRS0175AXY1	400V/3~/50Hz	NTZ48-4VM	8.3		950	2.6	4.8	16	1	0.6
JEHBCU-0225-L-1	LRLRS0225AXV1	230V/1~/50Hz	NTZ68-5VM	11.8		950	10.8	17	53	1	0.6
JEHBCU-0225-L-3	LRLRS0225AXY1	400V/3~/50Hz	NTZ68-4VM	11.8		950	4.1	8.4	25	1	0.6
JEHBCU-0350-L-3	LRLRS0350AXY1	400V/3~/50Hz	NTZ96-4VM	16.7	Polyester oil (160Z)	1800	4.3	10.1	32	1	1.1
JEHBCU-0400-L-3	LRLRS0400AXY1	400V/3~/50Hz	NTZ136-4VM	23.7		1800	7.5	14.3	51	1	1.1
JEHBCU-0725-L-3	LRLRS0725AXY1	400V/3~/50Hz	NTZ215-4VM	37.4		3900	9.8	22.3	74	2	1.2
JEHBCU-0825-L-3	LRLRS0825AXY1	400V/3~/50Hz	NTZ271-4VM	47.1		3900	12.8	27	96	2	1.2
JEHBCU-0200-L3	LRLSS0200AXY1	400V/3~/50Hz	ZF06KQE-TFD	5.9	Emkarate RL32-3MAF & Mobil Arctic 22CC	1300	2.9	6.0	26	1	0.6
JEHBCU-0300-L3	LRLSS0300AXY1	400V/3~/50Hz	ZF09KQE-TFD	8.0		1500	4.8	6.5	40	1	0.6
JEHBCU-0400-L3	LRLSS0400AXY1	400V/3~/50Hz	ZF13KQE-TFD	11.8		1900	5.2	10.0	52	1	1.1
JEHBCU-0500-L3	LRLSS0500AXY1	400V/3~/50Hz	ZF15KQE-TFD	14.5		1900	6.8	12.0	64	1	1.1
JEHBCU-0600-L3	LRLSS0600AXY1	400V/3~/50Hz	ZF18KQE-TFD	17.1		1900	7.2	12.5	74	1	1.1
JEHSCU0750CL3	LRLSFS0750BXY1	400V/3~/50Hz	ZF25KSE-TFD	21.4		1900	6.9	16.6	102	2	1.2
JEHSCU0951CL3 EVI	LRLVFS0951BXY1	400V/3~/50Hz	ZFI26KQE-TFD	17.1		1900	7.3	13.0	74	2	1.2

MODEL		Coil Volume (Litre)	Condenser Airflow (m ³ /h)	Receiver volume (Litre)	Connection		Dimensions			Weight (kg)	Sound pressure dB(A) at 10m***
DRM Codes	DMSS Codes				Suction (inch)	Liquid (inch)	Width (mm)	Depth (mm)	Height (mm)		
JEHBCU-0175-L-1	LRLRS0175AXV1	1.5	3040	4.6	5/8	3/8	1109	478	649	81	38
JEHBCU-0175-L-3	LRLRS0175AXY1	1.5	3040	4.6	5/8	3/8	1109	478	649	81	38
JEHBCU-0225-L-1	LRLRS0225AXV1	3.1	2620	4.6	5/8	3/8	1109	478	649	87	39
JEHBCU-0225-L-3	LRLRS0225AXY1	3.1	2620	4.6	5/8	3/8	1109	478	649	87	39
JEHBCU-0350-L-3	LRLRS0350AXY1	5	6050	7.6	7/8	1/2	1335	529	884	121	42
JEHBCU-0400-L-3	LRLRS0400AXY1	5	6050	7.6	1 1/8	1/2	1335	529	884	121	42
JEHBCU-0725-L-3	LRLRS0725AXY1	6.9	6770	14	1 1/8	1/2	1258	590	1436	198	43
JEHBCU-0200-L3	LRLSS0200AXY1	3.1	2620	4.6	3/4	3/8	1109	478	649	89	32
JEHBCU-0300-L3	LRLSS0300AXY1	3.1	2620	4.6	3/4	3/8	1109	478	649	91	33
JEHBCU-0400-L3	LRLSS0400AXY1	4.7	6050	7.6	7/8	1/2	1335	529	884	129	38
JEHBCU-0500-L3	LRLSS0500AXY1	4.7	6050	7.6	7/8	1/2	1335	529	884	130	39
JEHBCU-0600-L3	LRLSS0600AXY1	4.7	6050	7.6	7/8	1/2	1335	529	884	130	44
JEHSCU0750CL3	LRLSFS0750BXY1	4.1	5750	13.6	1 1/8	1/2	1348	612	1727	203	41
JEHSCU0951CL3 EVI	LRLVFS0951BXY1	8.7	5870	13.6	7/8	1/2	1348	612	1727	200	37

* Refer to condition: Evaporation temperature = -25°C, Outside ambient temperature = 32°C (Low temperature application, R404A)

** MCC= Maximum Continuous Current

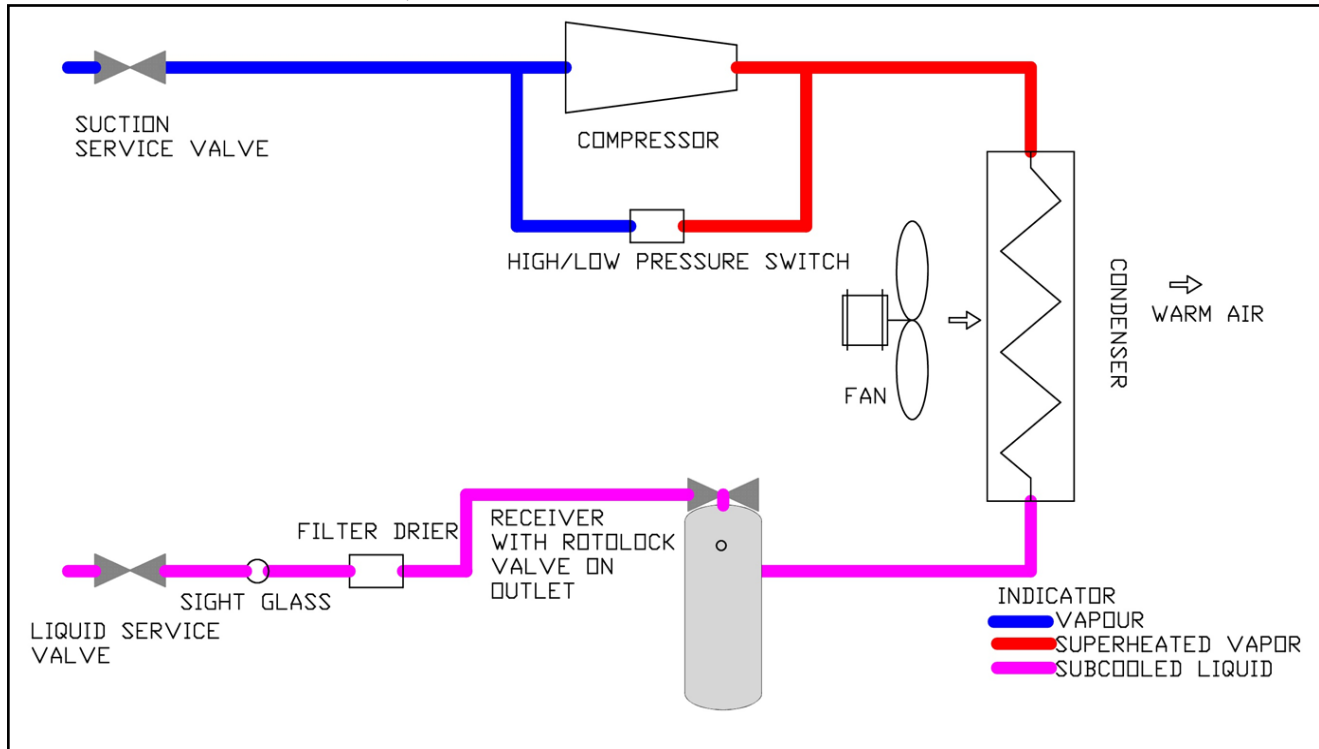
*** Sound Pressure Level measured in an anechoic room at (-25/+32°C) LT conditions. Alternative conditions may produce different results.

Note: (1) Additional 500ml oil for condensing unit LRLRS00175~0225AXY1/V1 with oil separator.

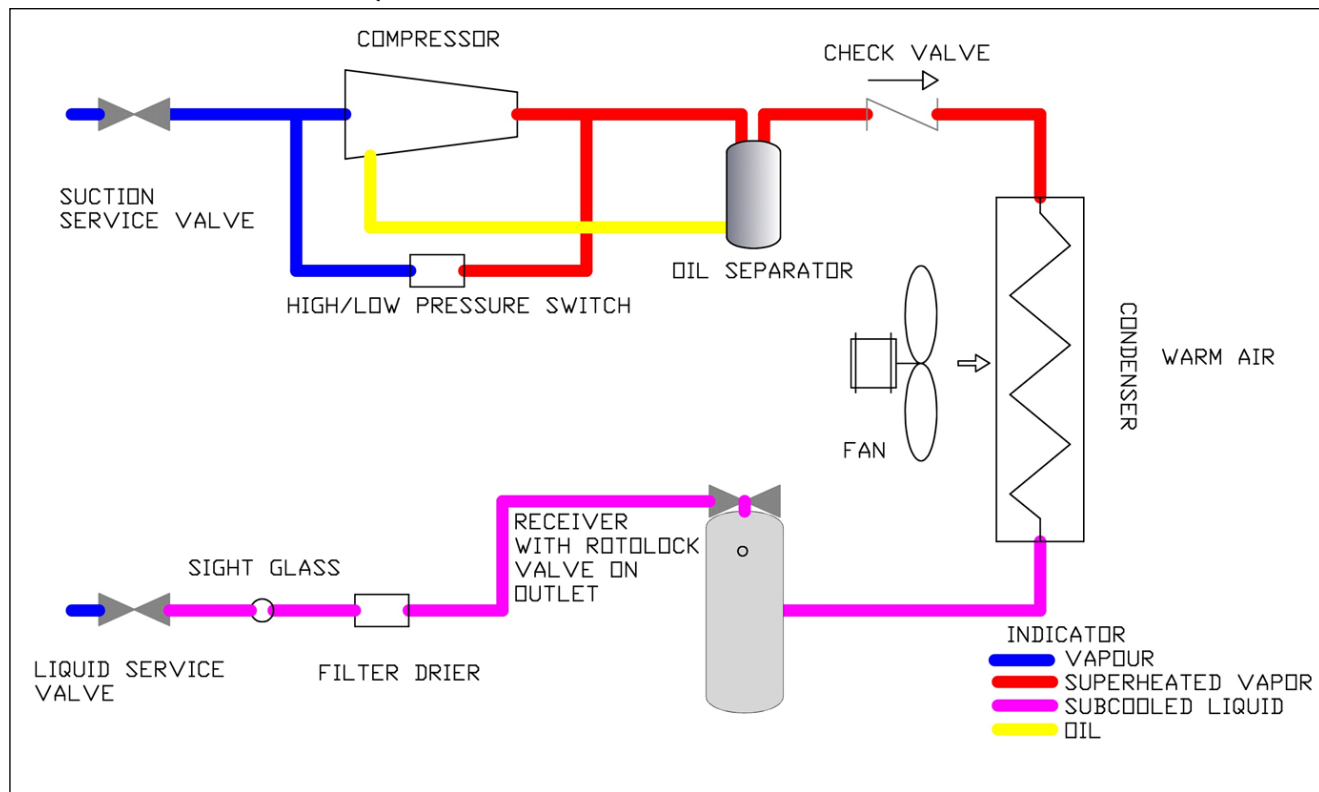
(2) Additional 600ml oil for condensing unit LRLRS0350~0825AXY1/V1 with oil separator.

4. Product System Cycle

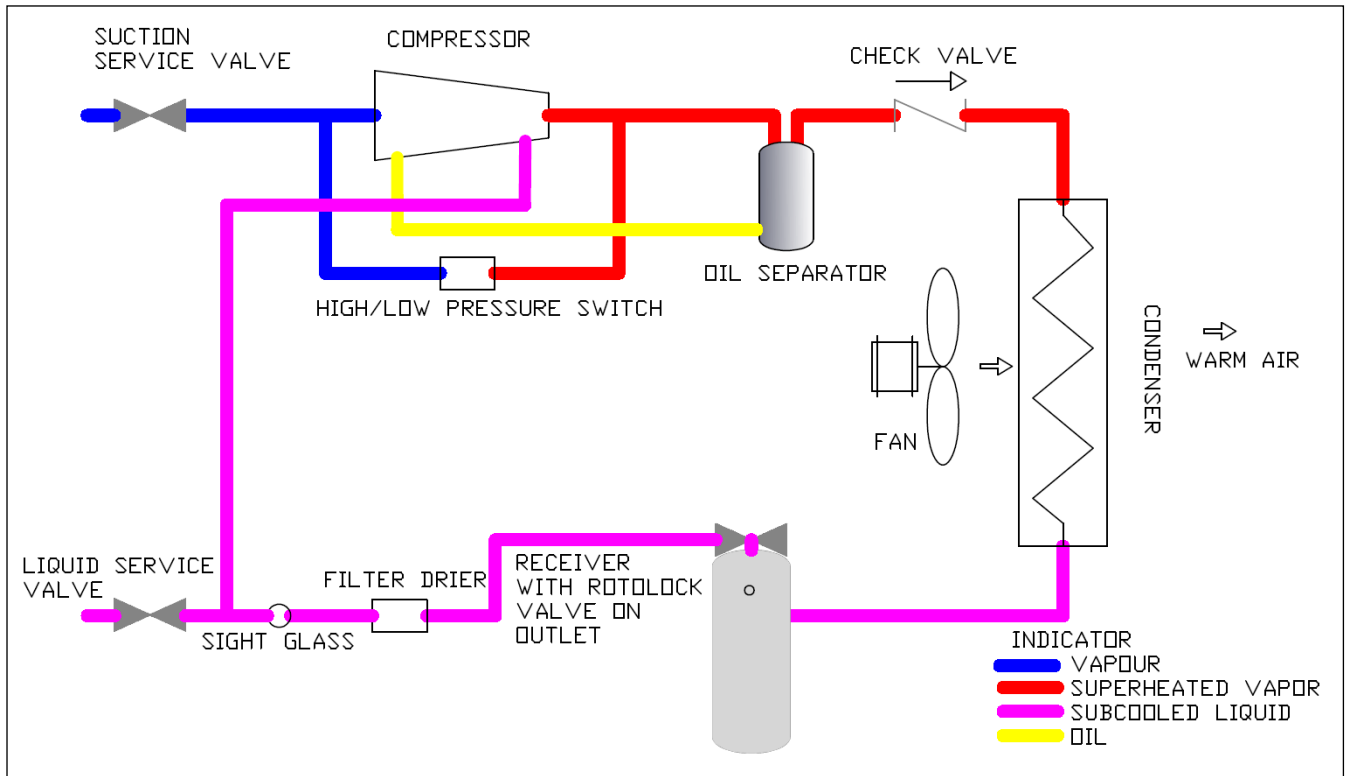
LRMRS0150~ LRMRS0675; LRMSS0200~ LRMSS0680



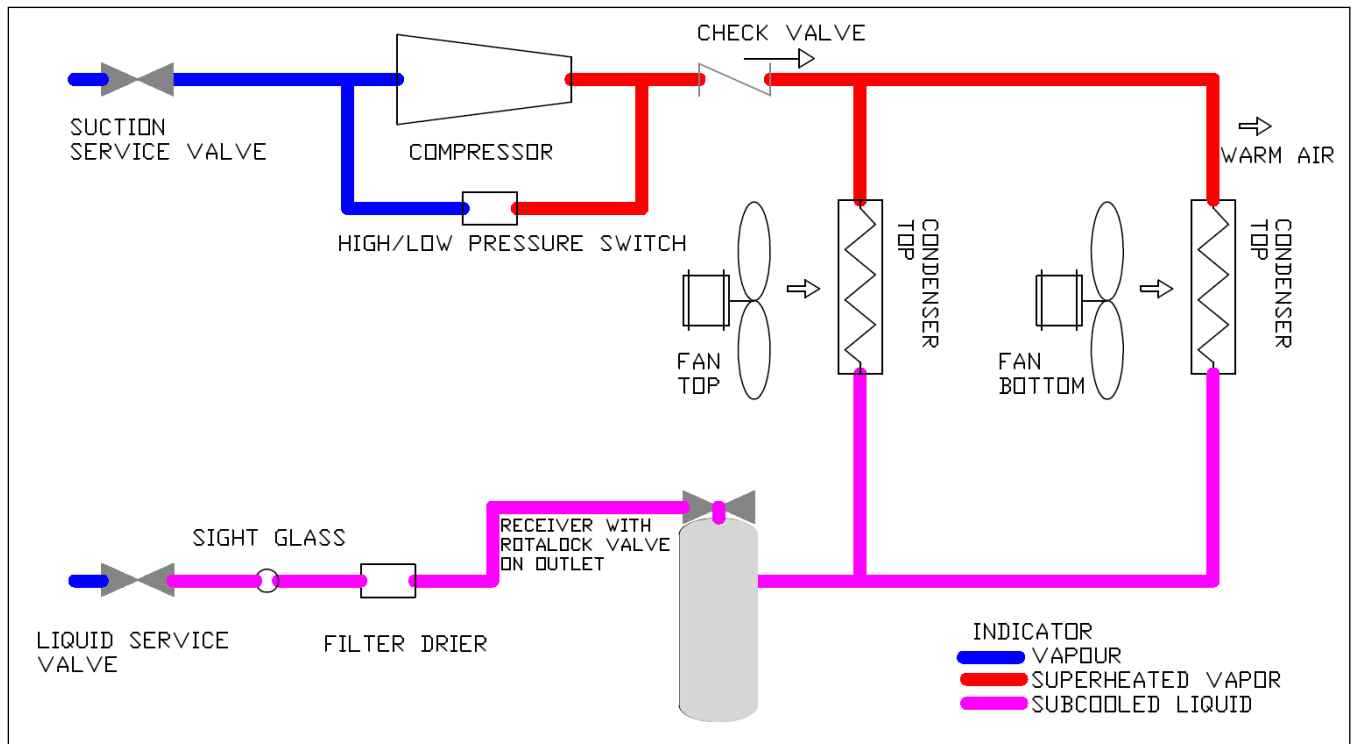
LRLRS0175~ LRLRS0225; LRLSS0200 & LRLSS0300



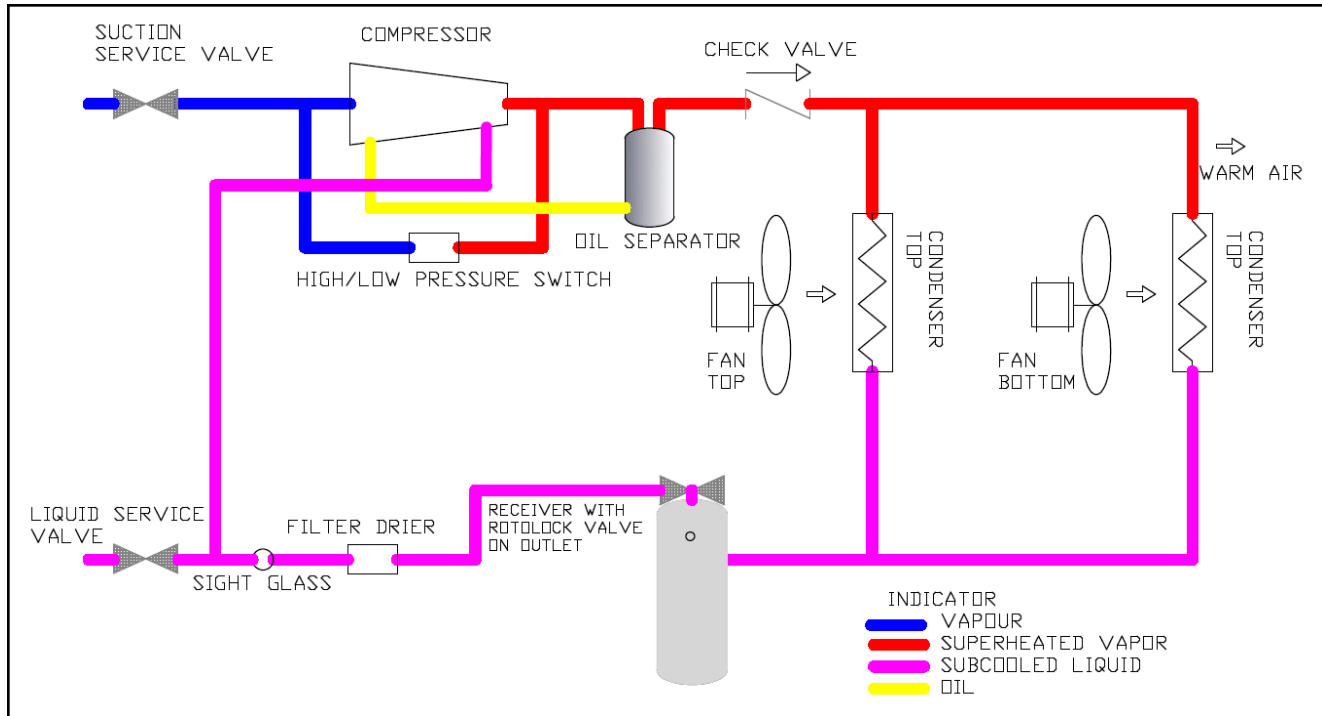
LRLRS0350~ LRLRS0400; LRMSS0350~ LRMSS0680;
LRLSS0400~LRLSS0600



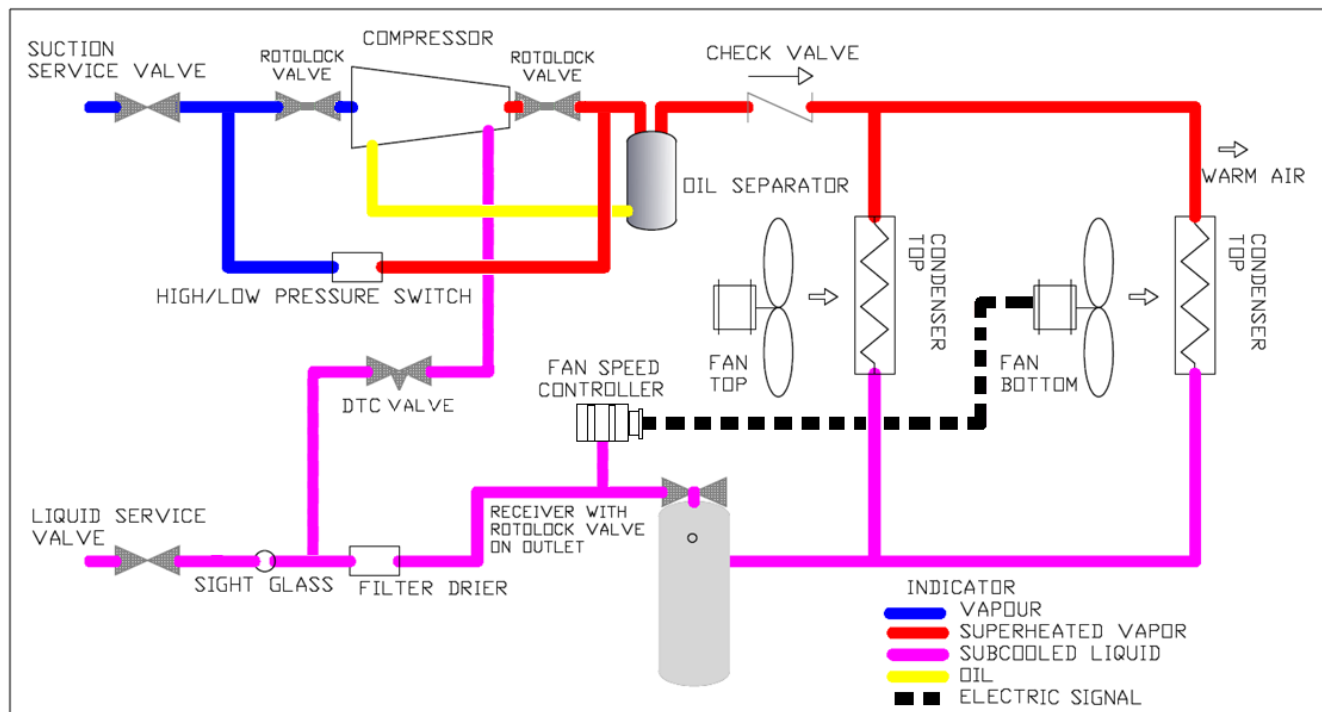
LRMRS0825~ LRMRS1000; LRMSS0800~LRMSS1000



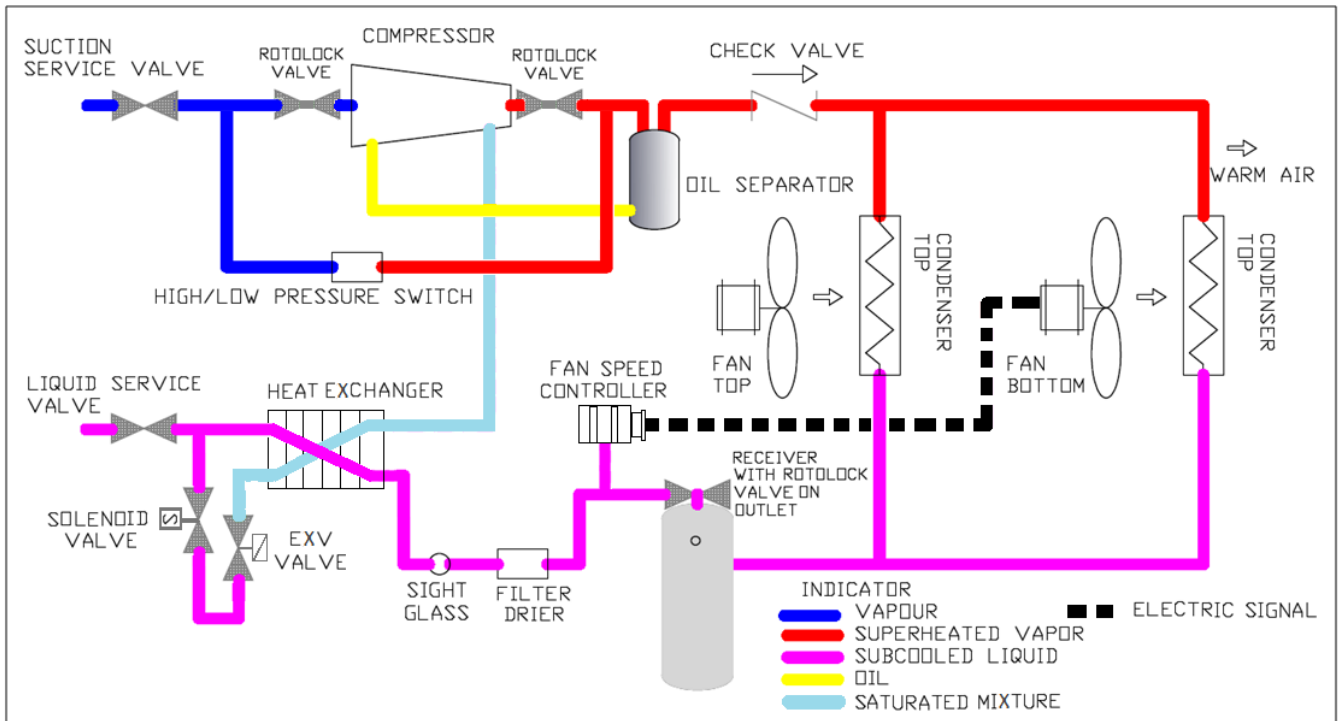
LRLRS0725~ LRLRS0825



LRLSFS0750

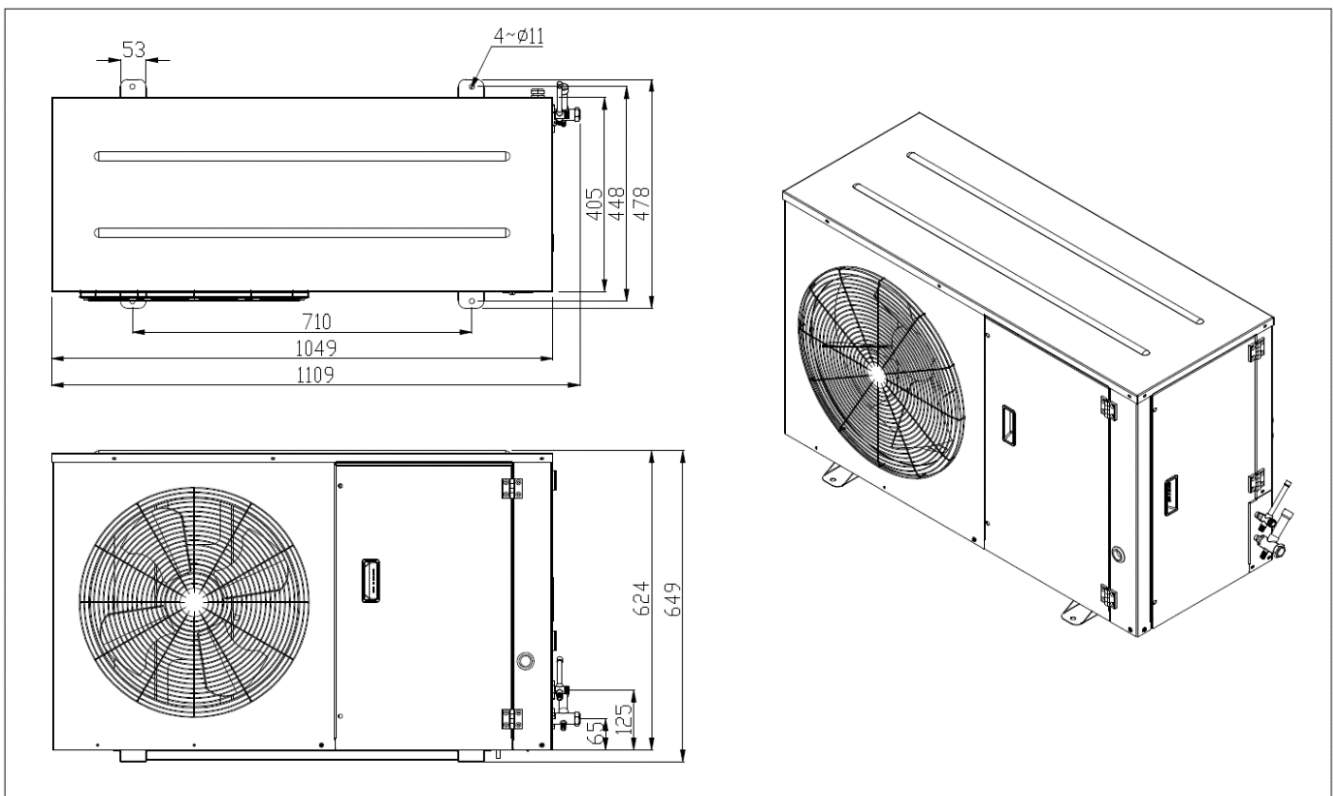


LRLVFS0951

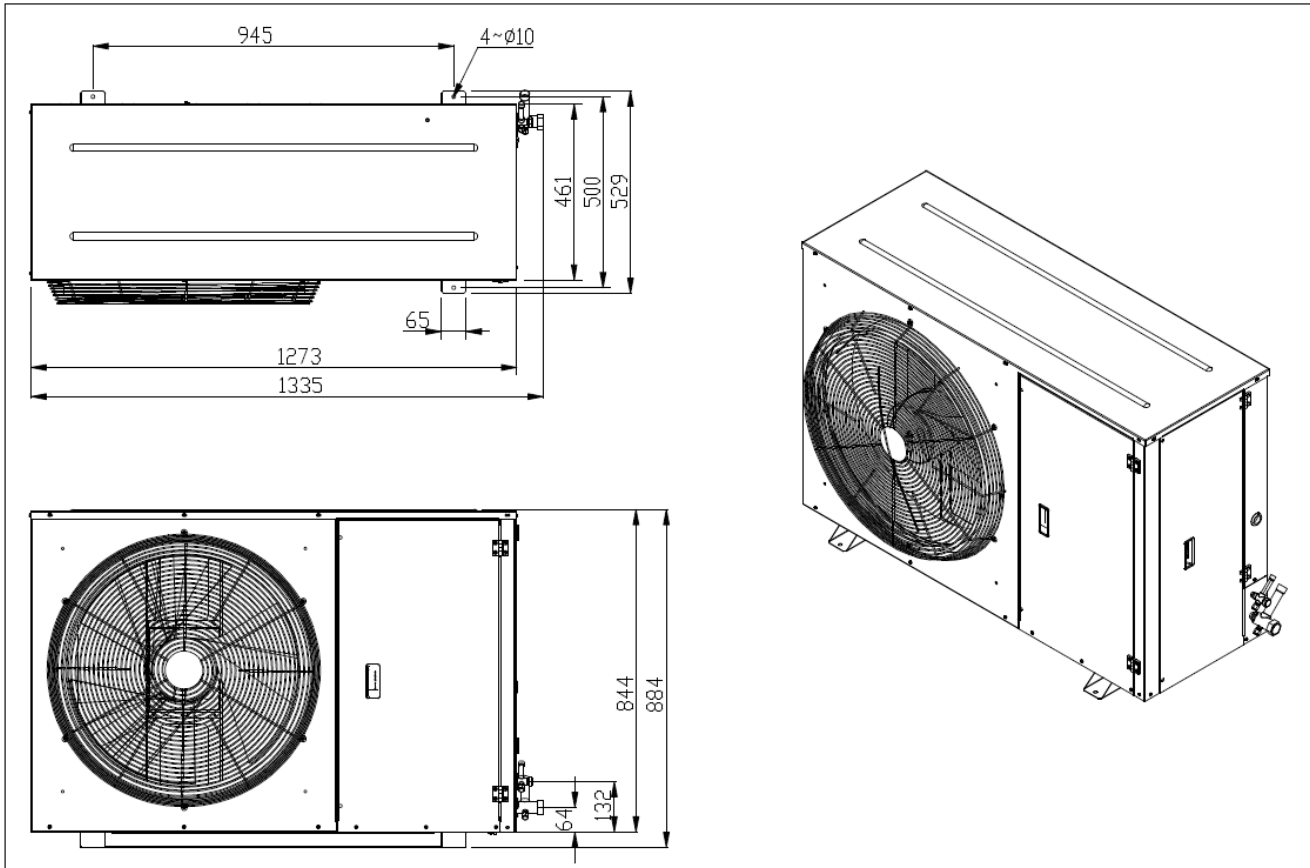


5. Outline Drawings

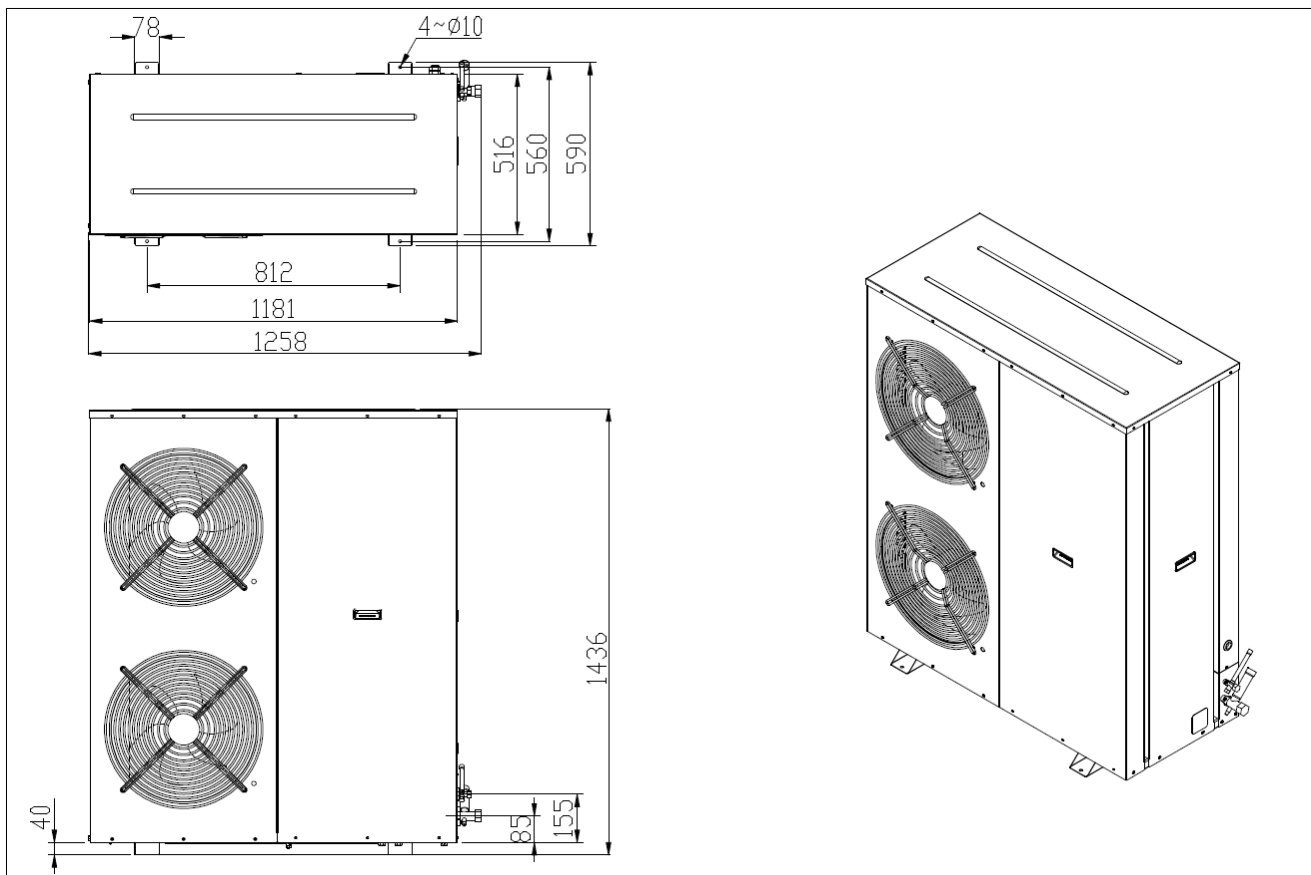
LRMRS0150~ LRMRS0300; LRLRS0175~ LRLRS0225; LRMSS0200~ LRMSS0300;
LRLSS0200 & LRLSS0300



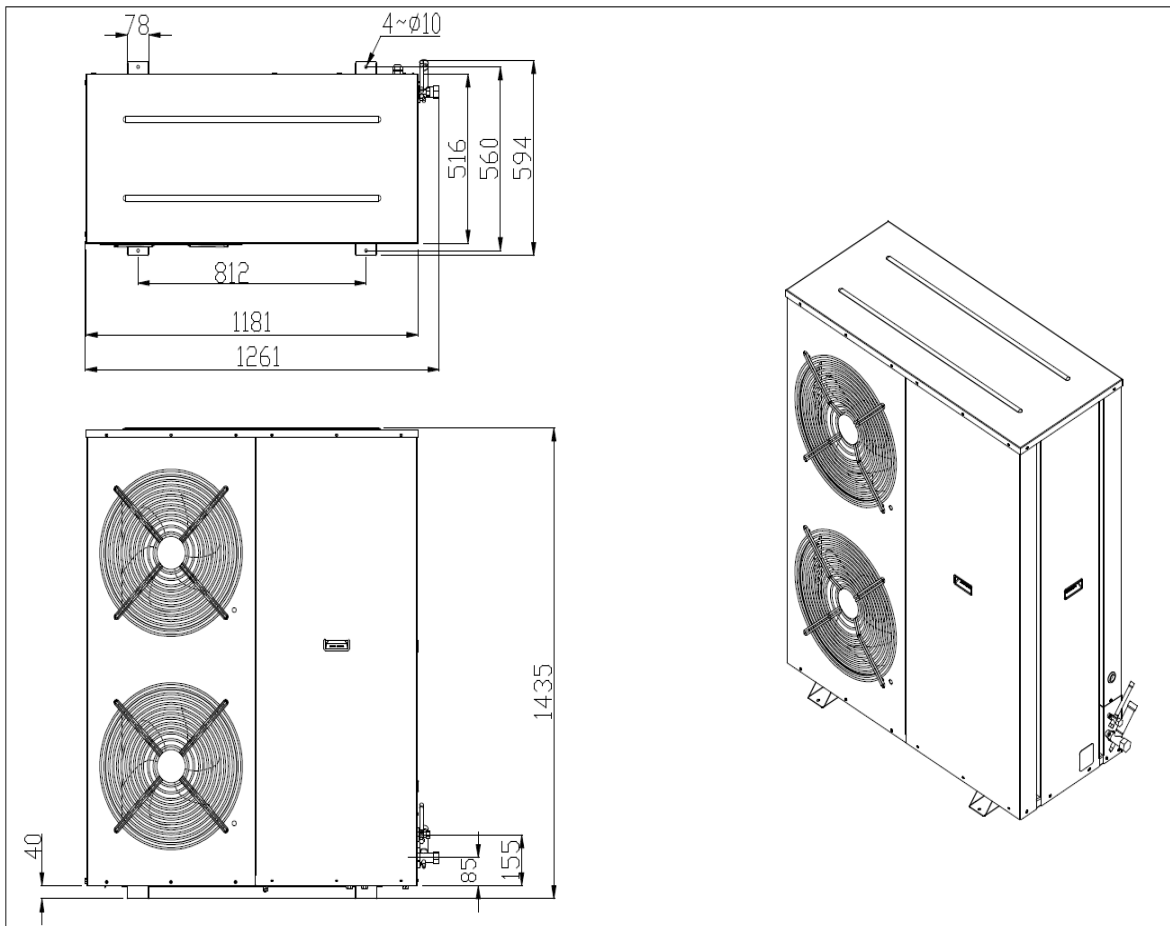
LRMRS0400~ LRMRS0675; LRLRS0350~ LRLRS0400; LRMSS0350~
LRMSS0680; LRLSS0400~ LRLSS0600



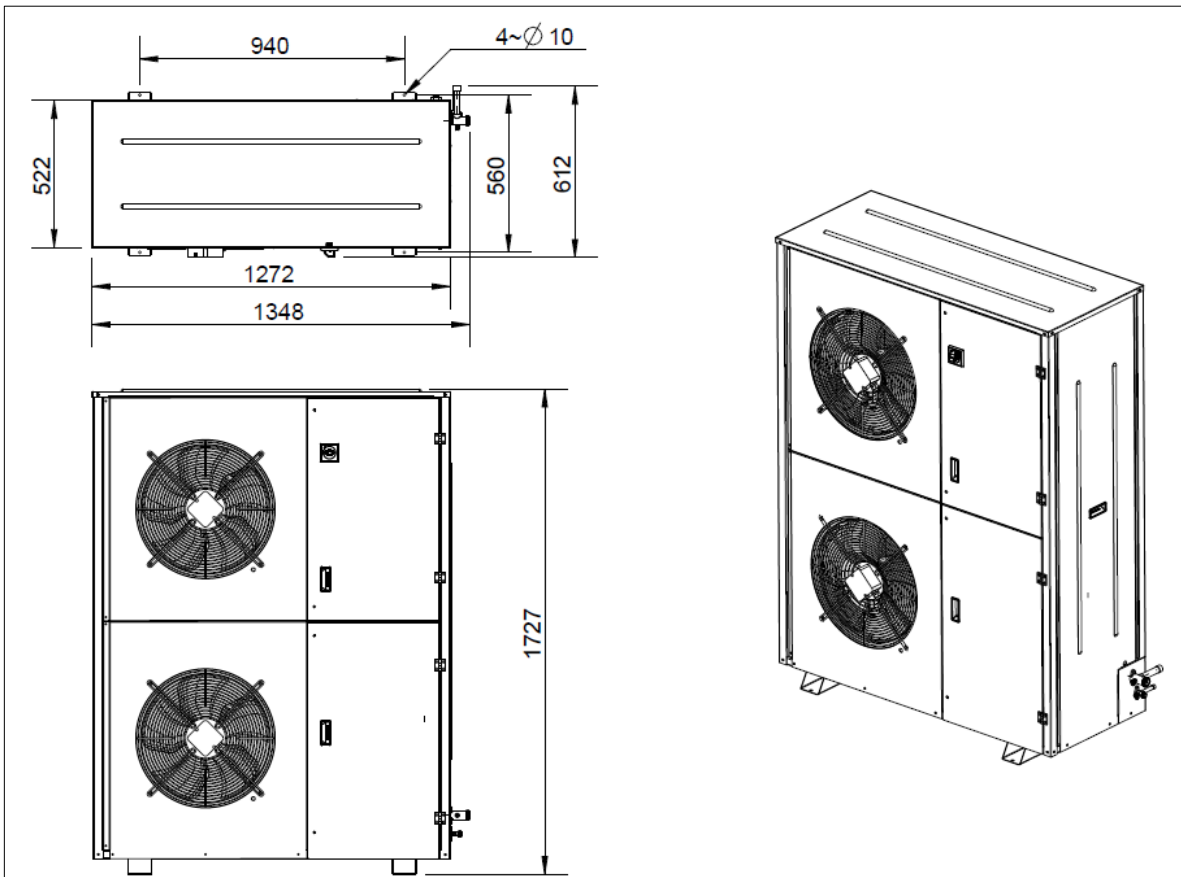
LRMRS0825~ LRMRS1000; LRLRS0725~ LRLRS0825



LRMSS0800~ LRMSS1000



LRLSFS0750~ LRLVFS0951



6. Performance Data

R404A Medium Temperature (Rating Condition: Superheat 10K, Sub cooling 0K)

SERIES	MODEL		HP	TE TA	WATTS (W)	-25	-20	-15	-10	-5	0	5
	DRM Codes	DMSS Codes										
2	JEHBCU0150M1 JEHBCU0150M3	LRMRS0150AXV1 LRMRS0150AXY1	1.5	27	CC	1033	1438	1914	2459	3073	3758	4513
					PC	945	1040	1137	1237	1339	1444	1550
				32	CC	900	1269	1708	2217	2796	3444	4163
					PC	959	1063	1169	1276	1385	1495	1607
				38	CC	730	1061	1457	1917	2441	3030	3684
					PC	973	1084	1197	1313	1431	1552	1675
	JEHBCU0225M1 JEHBCU0225M3	LRMRS0225AXV1 LRMRS0225AXY1	2.25	27	CC	1851	2517	3258	4074	4967	5933	6976
					PC	1394	1597	1799	1999	2198	2395	2395
				32	CC	1603	2230	2933	3710	4563	5491	6495
					PC	1409	1621	1831	2041	2249	2457	2663
				38	CC	1390	1963	2602	3303	4071	4902	5799
					PC	1418	1637	1859	2081	2306	2531	2758
3	JEHBCU0300M1 JEHBCU0300M3	LRMRS0300AXV1 LRMRS0300AXY1	3	27	CC	2479	3264	4161	5172	6295	7531	8881
					PC	1936	2193	2460	2737	3024	3321	3627
				32	CC	2279	3026	3882	4844	5915	7092	8377
					PC	1957	2213	2484	2770	3071	3387	3718
				38	CC	2009	2737	3563	4484	5503	6618	7830
					PC	2015	2262	2530	2817	3125	3452	3800
	JEHBCU0400M3	LRMRS0400AXY1	4	27	CC	3491	4693	6095	7696	9495	11494	13691
					PC	2616	2927	3240	3555	3872	4191	4512
				32	CC	3118	4218	5518	7017	8714	10610	12705
					PC	2686	3004	3327	3655	3988	4326	4669
				38	CC	2668	3665	4840	6191	7721	9427	11311
					PC	2731	3064	3407	3760	4123	4496	4879
	JEHBCU0500M3	LRMRS0500AXY1	5	27	CC	4607	5973	7559	9365	11393	13640	16108
					PC	3149	3610	4076	4547	5023	5504	5989
				32	CC	4152	5421	6912	8623	10554	12705	15078
					PC	3265	3722	4189	4666	5153	5650	6157
				38	CC	3598	4801	6181	7739	9474	11386	13476
					PC	3309	3786	4278	4785	5307	5844	6396
	JEHBCU0600M3	LRMRS0600AXY1	6	27	CC	4949	6532	8325	10326	12539	14960	17591
					PC	3517	4001	4505	5029	5573	6137	6721
				32	CC	4495	5986	7676	9564	11652	13938	16424
					PC	3608	4093	4604	5139	5700	6285	6896
				38	CC	3908	5314	6877	8595	10469	12499	14686
					PC	3680	4173	4701	5264	5862	6495	7162
	JEHBCU0675M3	LRMRS0675AXY1	6.75	27	CC	5503	7263	9212	11348	13673	16185	18887
					PC	3840	4447	5065	5692	6330	6977	7635
				32	CC	4937	6626	8476	10488	12660	14994	17489
					PC	3911	4548	5190	5837	6489	7146	7808
				38	CC	4365	5962	7688	9544	11528	13642	15884
					PC	4047	4666	5310	5979	6673	7392	8136
4	JEHBCU0825M3	LRMRS0825AXY1	8.25	27	CC	5961	8027	10320	12838	15582	18551	21747
					PC	4916	5601	6282	6959	7632	8301	8965
				32	CC	5356	7327	9488	11836	14373	17097	20010
					PC	5013	5696	6389	7092	7805	8528	9260
				38	CC	4675	6496	8485	10639	12961	15449	18104
					PC	5148	5817	6511	7230	7974	8743	9537
	JEHBCU1000M3	LRMRS1000AXY1	10	27	CC	8287	10547	13001	15648	18489	21523	24751
					PC	6158	7000	7893	8835	9828	10870	11963
				32	CC	7451	9697	12060	14543	17143	19862	22699
					PC	6286	7127	8029	8990	10012	11093	12235
				38	CC	6617	8678	10865	13174	15608	18164	-
					PC	6424	7281	8198	9175	10212	11309	-

TE: Evaporating Temperature (°C) CC: Cooling Capacity (W), ± 10%

TA: Ambient Temperature (°C) PC: Power consumption (W), ± 10%

Rating Condition: Superheat 10K, Sub cooling 0K

R404A Medium Temperature (Rating Condition: Superheat 10K, Sub cooling 0K)

SERIES	MODEL		HP	TE TA	WATTS (W)	-20	-15	-10	-5	0	5
	DRM Codes	DMSS Codes									
2	JEHBSCU0200M1 JEHBSCU0200M3	LRMSS0200AXV1 LRMSS0200AXY1	2	27	CC	2688	3279	3924	4676	5536	6470
					PC	1460	1510	1560	1600	1630	1655
				32	CC	2489	3032	3655	4354	5160	6038
					PC	1590	1630	1680	1720	1760	1799
				38	CC	2231	2736	3279	3978	4730	5587
					PC	1770	1810	1860	1900	1940	1979
	43	CC	2010	2483	3015	3655	4354	5140			
		PC	1930	1960	2010	2040	2080	2118			
	JEHBSCU0250M1 JEHBSCU0250M3	LRMSS0250AXV1 LRMSS0250AXY1	2.5	27	CC	2956	3655	4408	5321	6289	7373
					PC	1910	1940	1970	2000	2040	2077
				32	CC	2790	3440	4193	4999	5966	6994
					PC	2030	2060	2100	2130	2170	2208
				38	CC	2575	3171	3870	4676	5644	6704
					PC	2200	2240	2270	2300	2300	2299
	43	CC	2365	2929	3601	4354	5268	6261			
		PC	2370	2410	2430	2450	2470	2478			
	JEHBSCU0300M1 JEHBSCU0300M3	LRMSS0300AXV1 LRMSS0300AXY1	3	27	CC	3655	4515	5429	6558	7794	9169
					PC	2480	2520	2570	2610	2670	2726
				32	CC	3440	4246	5160	6235	7364	8643
					PC	2630	2670	2730	2770	2830	2885
				38	CC	3225	3978	4838	5805	6934	8159
					PC	2830	2880	2930	2970	3020	3061
	43	CC	2956	3709	4515	5485	6558	7739			
		PC	3040	3070	3120	3146	3180	3210			
3	JEHBSCU0350M1 JEHBSCU0350M3	LRMSS0350AXV1 LRMSS0350AXY1	3.5	27	CC	4569	5590	6773	8224	9783	11577
					PC	2630	2660	2700	2730	2780	2826
				32	CC	4246	5214	6343	7633	9138	10793
					PC	2850	2890	2930	2970	3020	3067
				38	CC	3816	4676	5698	6934	8278	9826
					PC	3190	3230	3270	3310	3350	3390
	43	CC	3386	4246	5214	6289	7633	9050			
		PC	3510	3540	3580	3610	3640	3669			
	JEHBSCU0400M1 JEHBSCU0400M3	LRMSS0400AXV1 LRMSS0400AXY1	4	27	CC	5149	6343	7697	9256	11019	12960
					PC	3040	3080	3130	3180	3230	3285
				32	CC	4816	5913	7192	8643	10309	12145
					PC	3280	3330	3390	3440	3500	3558
				38	CC	4300	5311	6472	7805	9342	11031
					PC	3670	3720	3780	3830	3880	3929
	43	CC	3859	4795	5870	7138	8600	10222			
		PC	4020	4070	4130	4160	4200	4225			
	JEHBSCU0500M3	LRMSS0500AXY1	5	27	CC	6289	7686	9299	11073	13169	15426
					PC	3920	4010	4100	4190	4290	4387
				32	CC	5805	7149	8654	10374	12309	14427
					PC	4270	4350	4440	4520	4610	4698
				38	CC	5214	6396	7740	9353	11126	13126
					PC	4740	4840	4930	5020	5110	5194
	43	CC	4676	5805	7095	8546	10266	12125			
		PC	5170	5250	5350	5450	5500	5572			

TE: Evaporating Temperature (°C) CC: Cooling Capacity (W), ± 10%

TA: Ambient Temperature (°C) PC: Power consumption (W), ± 10%

Rating Condition: Superheat 10K, Sub cooling 0K

R404A Medium Temperature (Rating Condition: Superheat 10K, Sub cooling 0K)

SERIES	MODEL		HP	TE TA	WATTS (W)	-20	-15	-10	-5	0	5
	DRM Codes	DMSS Codes									
3	JEHBSCU0600M3	LRMSS0600AXY1	6	27	CC	7149	8708	10535	12578	14835	17339
					PC	4560	4660	4770	4890	5030	5177
				32	CC	6611	8116	9836	11718	13921	16286
					PC	4940	5050	5150	5300	5400	5534
				38	CC	5966	7310	8869	10589	12524	14642
					PC	5450	5550	5700	5800	5950	6090
	JEHBSCU0680M3	LRMSS0680AXY1	6.8	43	CC	-	6558	8009	9621	11556	-
					PC	-	6050	6150	6300	6400	-
				27	CC	7686	9406	11288	13491	15856	18479
					PC	5090	5210	5350	5500	5700	5908
				32	CC	7203	8761	10589	12524	14835	17297
					PC	5450	5600	5750	5950	6100	6290
				38	CC	6450	7848	9514	11341	13330	15545
					PC	6050	6200	6350	6550	6750	6980
4	JEHBSCU0800M3	LRMSS0800AXY1	8	43	CC	-	7149	8654	10374	12309	-
					PC	-	6700	6850	7000	7200	-
				27	CC	8987	11288	13814	16501	19511	22689
					PC	6010	6150	6350	6580	6830	7129
				32	CC	8310	10503	12900	15426	18221	21162
					PC	6450	6610	6800	7050	7300	7604
				38	CC	7321	9385	11610	13975	16501	19175
					PC	7120	7280	7480	7730	7990	8301
	JEHBSCU1000M3	LRMSS1000AXY1	10	43	CC	-	8407	10557	12846	15373	-
					PC	-	7890	8050	8250	8470	-
				27	CC	11395	13814	16448	19243	222534	-
					PC	8320	8720	9170	9310	9840	-
				32	CC	10503	12793	15265	17791	20533	-
					PC	8930	9350	9810	9970	10500	-
				38	CC	9310	11449	13706	16125	18759	-
					PC	9810	10210	10660	10750	11250	-
				43	CC	-	-	-	-	-	-
					PC	-	-	-	-	-	-

TE: Evaporating Temperature (°C) CC: Cooling Capacity (W), ± 10%

TA: Ambient Temperature (°C) PC: Power consumption (W), ± 10%

Rating Condition: Superheat 10K, Sub cooling 0K

R404A Low Temperature (Rating Condition: Superheat 10K, Sub cooling 0K)

SERIES	MODEL		HP	TE TA	WATTS (w)	-40	-35	-30	-25	-20
	DRM Codes	DMSS Codes								
2	JEHBCU0175L1 JEHBCU0175L3	LRLRS0175AXV1 LRLRS0175AXY1	1.75	27	CC	793	1130	1499	1900	2333
					PC	720	937	1164	1401	1648
				32	CC	691	1018	1373	1753	2162
					PC	756	971	1196	1431	1676
				38	CC	529	860	1217	1602	2012
					PC	793	995	1212	1444	1691
	JEHBCU0225L1 JEHBCU0225L3	LRLRS0225AXV1 LRLRS0225AXY1	2.25	27	CC	1347	1847	2389	2975	3602
					PC	1348	1579	1840	2131	2452
				32	CC	1224	1685	2197	2765	3385
					PC	1443	1667	1922	2206	2521
				38	CC	1093	1516	2008	2570	3202
					PC	1449	1689	1955	2245	2561
3	JEHBCU0350L3	LRLRS0350AXY1	3.5	27	CC	1619	2302	3119	4070	5156
					PC	1621	1953	2296	2648	3011
				32	CC	1346	1983	2760	3677	4732
					PC	1687	2021	2365	2719	3083
				38	CC	1161	1723	2442	3316	4347
					PC	1779	2101	2438	2790	3157
	JEHBCU0400L3	LRLRS0400AXY1	4	27	CC	2531	3440	4477	5645	6940
					PC	2554	3047	3574	4137	4734
				32	CC	2172	3036	4039	5183	6465
					PC	2567	3065	3603	4181	4799
				38	CC	1880	2682	3651	4786	6088
					PC	2578	3079	3625	4216	4852
4	JEHBCU0725L3	LRLRS0725AXY1	7.25	27	CC	3746	5071	6513	8074	9753
					PC	3454	4220	5066	5992	6998
				32	CC	3300	4563	5965	7508	9189
					PC	3497	4272	5126	6061	7075
				38	CC	2755	3995	5390	6941	8648
					PC	3551	4318	5169	6106	7127

TE: Evaporating Temperature (°C) CC: Cooling Capacity (W), ± 10%

TA: Ambient Temperature (°C) PC: Power consumption (W), ± 10%

Rating Condition: Superheat 10K, Sub cooling 0K

R404A Low Temperature (Rating Condition: Superheat 10K, Sub cooling 0K)

SERIES	MODEL		HP	TE TA	WATTS (w)	-40	-35	-30	-25	-20
	DRM code	DMSS code								
2	JEHBSCU0200L3	LRLSS0200AXY1	2.0	27	CC	1156	1451	1790	2182	2634
					PC	1390	1480	1580	1690	1800
				32	CC	1075	1355	1677	2053	2483
					PC	1480	1570	1670	1770	1890
				38	CC	984	1247	1553	1914	2333
					PC	1610	1690	1780	1870	1980
	JEHBSCU-0300-L-3	LRLSS0300AXY1	3.0	43	CC	903	1150	1446	1785	2188
					PC	1720	1800	1880	1970	2070
				27	CC	1500	1892	2333	2827	3386
					PC	1760	1830	1910	2020	2150
				32	CC	1414	1768	2193	2666	3225
					PC	1880	1950	2020	2120	2240
3	JEHBSCU0400L3	LRLSS0400AXY1	4.0	38	CC	1306	1650	2048	2510	3042
					PC	2030	2080	2140	2230	2330
				43	CC	1215	1543	1919	2365	2881
					PC	2150	2200	2260	2330	2420
	JEHBSCU0500L3	LRLSS0500AXY1	5.0	27	CC	2225	2865	3601	4408	5375
					PC	2200	2300	2420	2560	2720
				32	CC	2086	2671	3333	4139	5053
					PC	2360	2470	2590	2730	2880
				38	CC	1914	2446	3075	3816	4676
					PC	2580	2680	2790	2920	3050
	JEHBSCU0600L3	LRLSS0600AXY1	6.0	43	CC	1779	2263	2838	3548	4354
					PC	2770	2880	2980	3100	3230
				27	CC	2682	3440	4300	5268	6343
					PC	2600	2790	3000	3220	3470
				32	CC	2505	3225	4031	4945	5966
					PC	2790	2990	3200	3420	3670
4	JEHSCU0750CL3	LRLSFS0750BXY1	7.5	38	CC	2295	2951	3709	4569	5590
					PC	3040	3230	3430	3640	3860
				43	CC	2139	2677	3440	4246	5214
					PC	3250	3510	3650	3850	4050
				27	CC	3279	4139	5053	6128	7364
					PC	2980	3410	3630	3870	4140
	JEHSCU0750CL3	LRLSFS0750BXY1	7.5	32	CC	3064	3870	4730	5751	6934
					PC	3190	3630	3840	4080	4340
				38	CC	2817	3548	4408	5429	6558
					PC	3430	3860	4060	4280	4510
				43	CC	2575	3333	4139	5053	6181
					PC	3930	4080	4270	4480	4700
4	JEHSCU0750CL3	LRLSFS0750BXY1	7.5	27	CC	3980	4990	6150	7510	9100
					PC	3290	3620	3970	4330	4690
				32	CC	3620	4560	5650	6930	8430
					PC	3540	3880	4230	4590	4960
				38	CC	3170	4040	5040	6220	7610
					PC	3880	4230	4590	4960	5330
	JEHSCU0750CL3	LRLSFS0750BXY1	7.5	43	CC	2790	3590	4510	5600	6900
					PC	4220	4570	4940	5310	5680

TE: Evaporating Temperature (°C) CC: Cooling Capacity (W), ± 10%

TA: Ambient Temperature (°C) PC: Power consumption (W), ± 10%

Rating Condition: Superheat 10K, Sub cooling 0K

R404A Low Temperature (Rating Condition: Superheat 10K, Sub cooling refer table "Amount of Sub-cooling (K)")

SERIES	MODEL		HP	TE TA	WATTS (w)	-40	-35	-30	-25	-20
	DRM code	DMSS code								
4	JEHSCU0951CL3 EVI	LRLVFS0951BXY1	9.5	27	CC	4965	5995	7196	8600	10241
					PC	3963	4156	4339	4515	4683
				32	CC	4951	5921	7054	8381	9937
					PC	4244	4491	4731	4965	5192
				38	CC	4930	5790	6823	8064	9544
					PC	4953	5214	5463	5698	5920
				43	CC	4920	5703	6653	7803	9186
					PC	5438	5760	6070	6368	6652

TE: Evaporating Temperature (°C) CC: Cooling Capacity (W), ± 10%

TA: Ambient Temperature (°C) PC: Power consumption (W), ± 10%

Rating Condition: Superheat 10K, Sub cooling refer table "Amount of Sub-cooling (K)" in page 32.

R448A/R449A Medium Temperature (Rating Condition: Superheat 10K, Sub cooling 0K)

SERIES	MODEL		HP	TA	TE	WATTS (W)	-25	-20	-15	-10	-5	0	5
	DRM Codes	DMSS Codes											
2	JEHBCU0150M1 JEHBCU0150M3	LRMRS0150AXV1 LRMRS0150AXY1	1.5	27	CC	987	1369	1843	2378	2974	3634	4357	
					PC	863	947	1052	1157	1263	1363	1455	
				32	CC	855	1204	1659	2179	2764	3415	4136	
					PC	861	953	1071	1188	1303	1413	1516	
				38	CC	675	985	1414	1908	2469	3097	3797	
					PC	849	948	1077	1207	1336	1461	1580	
	JEHBCU0225M1 JEHBCU0225M3	LRMRS0225AXV1 LRMRS0225AXY1	2.25	27	CC	1769	2395	3138	3940	4806	5736	6735	
					PC	1265	1445	1656	1863	2066	2254	2243	
				32	CC	1524	2116	2848	3647	4511	5444	6452	
					PC	1255	1443	1669	1892	2109	2316	2506	
				38	CC	1286	1822	2526	3289	4116	5010	5976	
					PC	1226	1419	1662	1904	2146	2377	2595	
	JEHBCU0300M1 JEHBCU0300M3	LRMRS0300AXV1 LRMRS0300AXY1	3	27	CC	2369	3105	4008	5002	6092	7282	8574	
					PC	1751	1977	2259	2547	2838	3122	3391	
				32	CC	2166	2872	3770	4762	5847	7030	8322	
					PC	1736	1963	2259	2564	2876	3189	3494	
				38	CC	1858	2540	3459	4464	5564	6764	8070	
					PC	1732	1952	2255	2572	2904	3238	3572	
3	JEHBCU0400M3	LRMRS0400AXY1	4	27	CC	3335	4466	5870	7443	9189	11113	13218	
					PC	2369	2643	2979	3311	3637	3943	4222	
				32	CC	2964	4003	5358	6898	8614	10519	12622	
					PC	2386	2668	3028	3386	3737	4076	4391	
				38	CC	2468	3401	4699	6164	7807	9635	11658	
					PC	2353	2649	3041	3437	3834	4219	4589	
	JEHBCU0500M3	LRMRS0500AXY1	5	27	CC	4402	5683	7281	9057	11026	13187	15551	
					PC	2846	3254	3742	4230	4713	5173	5598	
				32	CC	3947	5145	6712	8477	10433	12596	14979	
					PC	2894	3299	3807	4317	4824	5319	5785	
				38	CC	3328	4456	6001	7705	9580	11638	13889	
					PC	2843	3264	3811	4367	4930	5480	6011	
	JEHBCU0600M3	LRMRS0600AXY1	6	27	CC	4729	6215	8018	9987	12135	14464	16984	
					PC	3176	3603	4133	4676	5228	5766	6280	
				32	CC	4273	5681	7453	9403	11518	13818	16316	
					PC	3195	3624	4182	4752	5334	5915	6478	
				38	CC	3614	4931	6676	8557	10586	12775	15135	
					PC	3157	3594	4185	4802	5443	6088	6729	
	JEHBCU0675M3	LRMRS0675AXY1	6.75	27	CC	5258	6911	8872	10974	13232	15648	18234	
					PC	3465	4002	4644	5290	5936	6553	7132	
				32	CC	4694	6289	8231	10311	12515	14864	17374	
					PC	3461	4024	4711	5395	6070	6724	7333	
				38	CC	4036	5533	7464	9502	11657	13943	-	
					PC	3468	4015	4723	5451	6194	6927	-	
4	JEHBCU0825M3	LRMRS0825AXY1	8.25	27	CC	5696	7638	9939	12415	15080	17936	20996	
					PC	4431	5036	5757	6465	7155	7795	8373	
				32	CC	5091	6954	9213	11636	14207	16949	19878	
					PC	4430	5034	5795	6552	7299	8022	8694	
				38	CC	4324	6029	8238	10592	13106	15790	-	
					PC	4405	4999	5787	6589	7399	8191	-	
	JEHBCU1000M3	LRMRS1000AXY1	10	27	CC	7918	10036	12522	15133	17893	20809	23896	
					PC	5543	6286	7227	8203	9208	10202	11166	
				32	CC	7083	9203	11712	14297	16946	19690	-	
					PC	5546	6291	7276	8300	9358	10430	-	
				38	CC	-	8054	10548	13116	-	-	-	
					PC	-	6247	7279	8354	-	-	-	

TE: Evaporating Temperature (°C) CC: Cooling Capacity (W), ± 10%

TA: Ambient Temperature (°C) PC: Power consumption (W), ± 10%

Rating Condition: Superheat 10K, Sub cooling 0K

R448A/R449A Medium Temperature (Rating Condition: Superheat 10K, Sub cooling 0K)

SERIES	MODEL		HP	TE TA	WATTS (W)	-20	-15	-10	-5	0	5
	DRM Codes	DMSS Codes									
2	JEHBSCU0200M1 JEHBSCU0200M3	LRMSS0200AXV1 LRMSS0200AXY1	2.0	27	CC	2294	2882	3641	4271	5131	6068
					PC	1549	1579	1570	1679	1739	1794
				32	CC	2105	2657	3345	4008	4815	5715
					PC	1738	1748	1757	1818	1878	1947
				38	CC	1859	2400	2965	3690	4472	5371
					PC	2028	1997	2017	2047	2087	2145
	JEHBSCU0250M1 JEHBSCU0250M3	LRMSS0250AXV1 LRMSS0250AXY1	2.5	27	CC	2537	3224	4084	4831	5759	6806
					PC	1910	1940	1912	2050	2140	2237
				32	CC	2431	3084	3888	4645	5610	6630
					PC	2040	2060	2081	2169	2247	2344
				38	CC	-	2910	3647	4492	5511	6626
					PC	-	2269	2280	2328	2366	2427
3	JEHBSCU0350M1 JEHBSCU0350M3	LRMSS0350AXV1 LRMSS0350AXY1	3.5	27	CC	4445	5456	6627	8022	9483	11083
					PC	2255	2360	2459	2558	2710	2862
				32	CC	4235	5248	6411	7678	9126	10672
					PC	2465	2561	2658	2166	2906	3067
				38	CC	3976	4927	6026	7305	8640	10147
					PC	2802	2878	2965	3069	3183	3327
	JEHBSCU0400M1 JEHBSCU0400M3	LRMSS0400AXV1 LRMSS0400AXY1	4.0	27	CC	4635	5700	6952	8395	10053	11876
					PC	2908	3000	3091	3190	3296	3387
				32	CC	4437	5450	6673	8056	9664	11489
					PC	3260	3330	3410	3498	3595	3681
				38	CC	4100	5080	6231	7553	9112	10867
					PC	3843	3851	3910	3968	4017	4064
	JEHBSCU0500M3	LRMSS0500AXY1	5.0	27	CC	5550	7000	8619	10374	12407	14557
					PC	3890	4040	4168	4333	4516	4734
				32	CC	5043	6575	8190	9948	11924	14152
					PC	4309	4379	4478	4623	4778	4958
				38	CC	-	5995	7555	9341	11236	13512
					PC	-	4897	4958	5058	5185	5306
	JEHBSCU0600M3	LRMSS0600AXY1	6.0	27	CC	6311	8056	9929	12006	14262	16769
					PC	4529	4589	4730	4900	5120	5386
				32	CC	5835	7613	9503	11456	13762	16286
					PC	4899	4969	5060	5260	5420	5661
				38	CC	5279	6991	8816	10801	12948	15437
					PC	5409	5450	5581	5692	5882	6080
	JEHBSCU0680M3	LRMSS0680AXY1	6.8	27	CC	6953	8967	10980	13283	15700	18427
					PC	5418	5523	5699	5933	6260	6638
				32	CC	6551	8473	10589	12628	15152	17877
					PC	5783	5900	6057	6353	6604	6939
				38	CC	-	7776	9796	11977	14339	-
					PC	-	6501	6657	6904	7160	-
4	JEHBSCU0800M3	LRMSS0800AXY1	8.0	27	CC	7413	10125	12978	16010	19364	22980
					PC	6726	6596	6596	6656	6741	6904
				32	CC	6846	9448	12253	15079	18172	21355
					PC	7135	7122	7176	7311	7482	7728
				38	CC	-	8494	11110	13775	16501	-
					PC	-	7838	8001	8242	8541	-
	JEHBSCU1000M3	LRMSS1000AXY1	10.0	27	CC	-	12099	15031	18219	21639	-
					PC	-	8954	9318	9695	10082	-
				32	CC	-	11471	14151	16987	-	-
					PC	-	9339	9876	10457	-	-
				38	CC	-	10669	-	-	-	-
					PC	-	9791	-	-	-	-

Evaporating Temperature (°C) CC: Cooling Capacity (W), ± 10%

TA: Ambient Temperature (°C) PC: Power consumption (W), ± 10%

Rating Condition: Superheat 10K, Sub cooling 0K

R448A/R449A Low Temperature (Rating Condition: Superheat 10K, Sub cooling 0K)

SERIES	MODEL		HP	TE TA	WATTS (W)	-40	-35	-30	-25	-20
	DRM Codes	DMSS Codes								
2	JEHBSCU0200L3	LRLSS0200AXY1	2.0	27	CC	1133	1418	1757	2150	2602
					PC	1353	1423	1501	1599	1696
				32	CC	1052	1355	1677	2064	2505
					PC	1516	1570	1632	1711	1819
				38	CC	1020	1318	1659	2054	2533
					PC	1696	1716	1753	1816	1888
	JEHBSCU0300L3	LRLSS0300AXY1	3.0	27	CC	1338	1701	2104	2582	3106
					PC	1760	1780	1819	1908	2006
				32	CC	1298	1644	2059	2533	3073
					PC	1937	1940	1952	2022	2121
				38	CC	1272	1639	2059	2555	3109
					PC	2163	2107	2104	2148	2219
3	JEHBSCU0400L3	LRLSS0400AXY1	4.0	27	CC	2035	2656	3372	4142	5050
					PC	2284	2319	2382	2502	2661
				32	CC	1946	2523	3165	3951	4835
					PC	2535	2563	2618	2740	2880
				38	CC	1837	2359	2999	3730	4580
					PC	2889	2891	2937	3031	3152
	JEHBSCU0500L3	LRLSS0500AXY1	5.0	27	CC	2425	3160	3989	4918	5909
					PC	2750	2870	3036	3229	3508
				32	CC	2315	3023	3809	4704	5666
					PC	3052	3167	3325	3529	3799
				38	CC	2165	2831	3599	4460	5449
					PC	3481	3576	3717	3902	4124
	JEHBSCU0600L3	LRLSS0600AXY1	6.0	27	CC	2810	3680	4572	5573	6671
					PC	3374	3699	3825	4039	4311
				32	CC	2576	3446	4324	5309	6415
					PC	3908	4228	4320	4508	4775
				38	CC	2255	3120	4058	5111	6211
					PC	4675	4978	5001	5138	5338
4	JEHSCU0750CL3	LRLSFS0750BXY1	7.5	27	CC	3790	4780	5960	7290	8830
					PC	3420	3680	3950	4300	4670
				32	CC	3550	4510	5630	6900	8370
					PC	3830	4080	4350	4690	5070
				38	CC	3230	4140	5190	6410	7850
					PC	4490	4700	4960	5250	5570

Evaporating Temperature (°C) CC: Cooling Capacity (W), ± 10%

TA: Ambient Temperature (°C) PC: Power consumption (W), ± 10%

Rating Condition: Superheat 10K, Sub cooling 0K

R448A/R449A Low Temperature (Rating Condition: Superheat 10K, Sub cooling refer table "Amount of Sub-cooling (K)")

SERIES	MODEL		HP	TE TA	WATTS (W)	-40	-35	-30	-25	-20
	DRM Codes	DMSS Codes								
4	JEHSCU0951CL3 EVI	LRLVFS0951BXY1	9.5	27	CC	3939	4934	6091	7426	8956
					PC	3240	3428	3637	3857	4079
				32	CC	-	4846	5947	7217	8670
					PC	-	3736	4005	4286	4566
				38	CC	-	-	5686	6888	8279
					PC	-	-	4665	4960	5245

TE: Evaporating Temperature (°C) CC: Cooling Capacity (W), ± 10%

TA: Ambient Temperature (°C) PC: Power consumption (W), ± 10%

Rating Condition: Superheat 10K, Sub cooling refer table "Amount of Sub-cooling (K)" in page 32.

R134a Medium Temperature (Rating Condition: Superheat 10K, Sub cooling 0K)

SERIES	MODEL		HP	TE TA	WATTS (W)	-15	-10	-5	0	5	10	15
	DRM Codes	DMSS Codes										
2	JEHBCU0150M1 JEHBCU0150M3	LRMRS0150AXV1 LRMRS0150AXY1	1.5	27	CC	918	1347	1826	2355	2934	3563	4242
					PC	701	751	801	853	905	959	1013
				32	CC	842	1229	1671	2168	2720	3327	3989
					PC	721	775	831	889	949	1011	1075
	JEHBCU0225M1 JEHBCU0225M3	LRMRS0225AXV1 LRMRS0225AXY1	2.25	27	CC	1547	2128	2823	3634	4559	5600	6755
					PC	949	1053	1163	1280	1403	1533	1670
				32	CC	1436	1958	2595	3347	4214	5196	6293
					PC	973	1082	1197	1320	1449	1586	1730
	JEHBCU0300M1 JEHBCU0300M3	LRMRS0300AXV1 LRMRS0300AXY1	3	27	CC	2426	3160	3998	4942	5990	7144	8402
					PC	1313	1456	1609	1772	1945	2128	2321
				32	CC	2279	2948	3721	4600	5583	6672	7865
					PC	1353	1510	1677	1854	2041	2238	2445
3	JEHBCU0400M3	LRMRS0400AXY1	4	27	CC	3198	4306	5624	7152	8890	10838	12996
					PC	1825	1991	2157	2324	2489	2655	2821
				32	CC	2917	3925	5143	6571	8209	10057	12115
					PC	1853	2044	2234	2424	2613	2802	2990
	JEHBCU0500M3	LRMRS0500AXY1	5	27	CC	2593	3482	4582	5891	7411	9140	11080
					PC	1877	2097	2317	2535	2753	2969	3185
				32	CC	3930	5271	6833	8614	10616	12837	15279
					PC	2196	2426	2672	2932	3208	3498	3804
	JEHBCU0600M3	LRMRS0600AXY1	6	27	CC	3593	4823	6273	7943	9833	11943	14273
					PC	2200	2473	2756	3049	3352	3665	3988
				32	CC	3195	4295	5614	7154	8913	10893	13092
					PC	2222	2531	2850	3179	3518	3867	4226
	JEHBCU0675M3	LRMRS0675AXY1	6.75	27	CC	4594	6092	7814	9762	11934	14332	16954
					PC	2398	2658	2947	3267	3616	3996	4405
				32	CC	4309	5680	7272	9083	11115	13366	15838
					PC	2413	2717	3046	3400	3779	4183	4612
4	JEHBCU0825M3	LRMRS0825AXY1	8.25	27	CC	3811	5052	6507	8178	10063	12164	14479
					PC	2429	2765	3126	3512	3923	4359	4820
				32	CC	5027	6653	8519	10625	12971	15557	18383
					PC	2604	2878	3188	3532	3912	4326	4776
	JEHBCU1000M3	LRMRS1000AXY1	10	27	CC	4667	6153	7879	9845	12051	14497	17183
					PC	2634	2945	3292	3673	4090	4541	5028
				32	CC	4355	5676	7242	9053	11109	13410	15956
					PC	2675	3030	3421	3846	4307	4802	5333
	JEHBCU0825M3	LRMRS0825AXY1	8.25	27	CC	5800	7728	9922	12380	15104	18092	21346
					PC	3188	3549	3929	4330	4750	5191	5651
				32	CC	5322	7083	9110	11401	13958	16779	19866
					PC	3261	3662	4083	4524	4985	5466	5967
	JEHBCU1000M3	LRMRS1000AXY1	10	27	CC	4796	6349	8172	10265	12628	15261	18164
					PC	3313	3775	4252	4744	5251	5773	6310
				32	CC	7256	9494	11993	14751	17770	21048	24587
					PC	3647	4152	4687	5252	5847	6472	7127
	JEHBCU1000M3	LRMRS1000AXY1	10	32	CC	6615	8667	10980	13552	16385	19477	22830
					PC	3686	4237	4818	5429	6070	6741	7442
				38	CC	5875	7701	9792	12148	14769	17655	20806
					PC	3685	4304	4947	5616	6309	7028	7771

TE: Evaporating Temperature (°C) CC: Cooling Capacity (W), ± 10%

TA: Ambient Temperature (°C) PC: Power consumption (W), ± 10%

Rating Condition: Superheat 10K, Sub cooling 0K

R134a Medium Temperature (Rating Condition: Superheat 10K, Sub cooling 0K)

SERIES	MODEL		HP	TE TA	WATTS (W)	-15	-10	-5	0	5	10	15
	DRM codes	DMSS codes										
2	JEHBSCU0200M1 JEHBSCU0200M3	LRMSS0200AXV1 LRMSS0200AXY1	2.0	27	CC	1840	2305	2830	3450	4150	4950	5850
					PC	931	953	992	1027	1066	1109	1150
				32	CC	1735	2175	2680	3250	3950	4700	5550
					PC	1016	1045	1086	1124	1160	1210	1250
				38	CC	1610	2015	2490	3050	3700	4400	5200
					PC	1128	1170	1210	1250	1300	1340	1390
	JEHBSCU0250M1 JEHBSCU0250M3	LRMSS0250AXV1 LRMSS0250AXY1	2.5	43	CC	1505	1880	2330	2855	3450	4150	4900
					PC	1230	1280	1330	1370	1420	1470	1520
				27	CC	2105	2625	3250	3900	4700	5600	6600
					PC	1055	1088	1135	1180	1230	1290	1340
				32	CC	1985	2475	3050	3700	4500	5350	6300
					PC	1150	1200	1240	1290	1350	1400	1460
	JEHBSCU-0300-M-1 JEHBSCU-0300-M-3	LRMSS0300AXV1 LRMSS0300AXY1	3.0	38	CC	1840	2285	2830	3450	4150	5000	5900
					PC	1280	1340	1390	1450	1500	1560	1620
				43	CC	1715	2125	2645	3250	3900	4700	5550
					PC	1400	1480	1530	1590	1650	1710	1770
				27	CC	2600	3250	3950	4800	5750	6900	8000
					PC	1310	1350	1420	1490	1570	1620	1750
3	JEHBSCU0350M1 JEHBSCU0350M3	LRMSS0350AXV1 LRMSS0350AXY1	3.5	32	CC	2450	3050	3750	4550	5450	6450	7550
					PC	1430	1500	1560	1630	1720	1810	1900
				38	CC	2265	2800	3450	4200	5050	6000	7050
					PC	1600	1690	1740	1830	1910	2010	2110
				43	CC	-	2595	3250	3950	4750	5650	6650
					PC	-	1870	1920	2010	2090	2200	2300
	JEHBSCU0400M1 JEHBSCU0400M3	LRMSS0400AXV1	4.0	27	CC	3100	3900	4800	5900	7150	8550	10150
					PC	1490	1510	1560	1600	1650	1710	1770
				32	CC	2950	3700	4550	5600	6800	8150	9650
					PC	1620	1660	1710	1760	1810	1860	1920
				38	CC	2720	3400	4250	5200	6350	7600	9050
					PC	1800	1860	1910	1960	2010	2070	2130
	JEHBSCU0500M3	LRMSS0500AXY1	5.0	43	CC	2540	3200	4000	4900	5950	7150	8550
					PC	1970	2050	2090	2150	2210	2270	2330
				27	CC	3600	4550	5600	6850	8250	9900	11700
					PC	1700	1740	1800	1860	1930	2000	2070
				32	CC	3400	4300	5300	6500	7850	9400	11100
					PC	1860	1920	1980	2040	2110	2180	2260
	JEHBSCU0400M1 JEHBSCU0400M3	LRMSS0400AXV1	4.0	38	CC	3150	3950	4950	6050	7300	8800	10400
					PC	2070	2150	2210	2280	2350	2430	2510
				43	CC	2950	3700	4600	5650	6850	8250	9800
					PC	2270	2370	2430	2500	2580	2660	2740
	JEHBSCU0500M3	LRMSS0500AXY1	5.0	27	CC	4400	5450	6750	8200	9850	11700	13750
					PC	2170	2230	2330	2430	2530	2650	2780
				32	CC	4100	5150	6350	7750	9300	11100	13050
					PC	2370	2470	2560	2670	2780	2900	3040
				38	CC	3800	4750	5900	7200	8650	10350	12150
					PC	2650	2790	2870	2990	3110	3240	3390
	JEHBSCU0500M3	LRMSS0500AXY1	5.0	43	CC	-	4400	5500	6700	8100	9700	11450
					PC	-	3090	3160	3290	3430	3560	3710

TE: Evaporating Temperature (°C) CC: Cooling Capacity (W), ± 10%

TA: Ambient Temperature (°C) PC: Power consumption (W), ± 10%

Rating Condition: Superheat 10K, Sub cooling 0K

R134a Medium Temperature (Rating Condition: Superheat 10K, Sub cooling 0K)

SERIES	MODEL		HP	TE TA	WATTS (W)	-15	-10	-5	0	5	10	15
	DRM codes	DMSS codes										
3	JEHBSCU0600M3	LRMSS0600AXY1	6.0	27	CC	5250	6550	8050	9800	11700	13850	16100
					PC	2390	2490	2620	2750	2890	3040	3210
				32	CC	4950	6150	7600	9250	11100	13150	15300
					PC	2630	2760	2890	3030	3180	3320	3520
				38	CC	4550	5600	7000	8550	10250	12150	14200
					PC	2960	3140	3250	3400	3560	3740	3930
	JEHBSCU0680M3	LRMSS0680AXY1	6.8	43	CC	-	5150	6500	7950	9550	11350	13300
					PC	-	3490	3580	3750	3930	4110	4310
				27	CC	5963	7389	8957	10712	12687	14851	16958
					PC	2814	2982	3155	3346	3559	3801	3687
				32	CC	5588	6928	8420	10082	11959	14015	15972
					PC	3100	3311	3528	3758	3970	4201	4142
4	JEHBSCU0800M3	LRMSS0800AXY1	8	38	CC	5124	6363	7765	9304	11074	13012	14799
					PC	3453	3715	3983	4266	4469	4681	4683
				43	CC	-	5899	7224	8667	10340	12172	13813
					PC	-	4047	4358	4683	4884	5082	5137
	JEHBSCU1000M3	LRMSS1000AXY1	10	27	CC	6700	8300	10150	12350	14600	17200	20100
					PC	3270	3410	3600	3750	4010	4190	4320
				32	CC	6300	7800	9550	11650	13750	16300	19000
					PC	3600	3760	3960	4130	4400	4580	4730
				38	CC	5800	7200	8850	10800	12750	15100	17700
					PC	4030	4220	4440	4620	4910	5100	5250
4	JEHBSCU0800M3	LRMSS0800AXY1	8	43	CC	-	6700	8200	10050	11900	14100	16500
					PC	-	4630	4880	5070	5360	5560	5760
	JEHBSCU1000M3	LRMSS1000AXY1	10	27	CC	8600	10550	12850	15400	18200	21300	24500
					PC	4370	4610	4910	5240	5610	5910	6210
				32	CC	8050	9900	12050	14450	17100	20000	23100
					PC	4820	5080	5410	5760	6110	6460	6760
				38	CC	7450	9100	11050	13300	15800	18500	21400
					PC	5410	5710	6060	6410	6810	7160	7460
4	JEHBSCU1000M3	LRMSS1000AXY1	10	43	CC	-	8450	10250	12300	14600	17200	20000
					PC	-	6260	6610	7010	7460	7810	8110

TE: Evaporating Temperature (°C) CC: Cooling Capacity (W), ± 10%

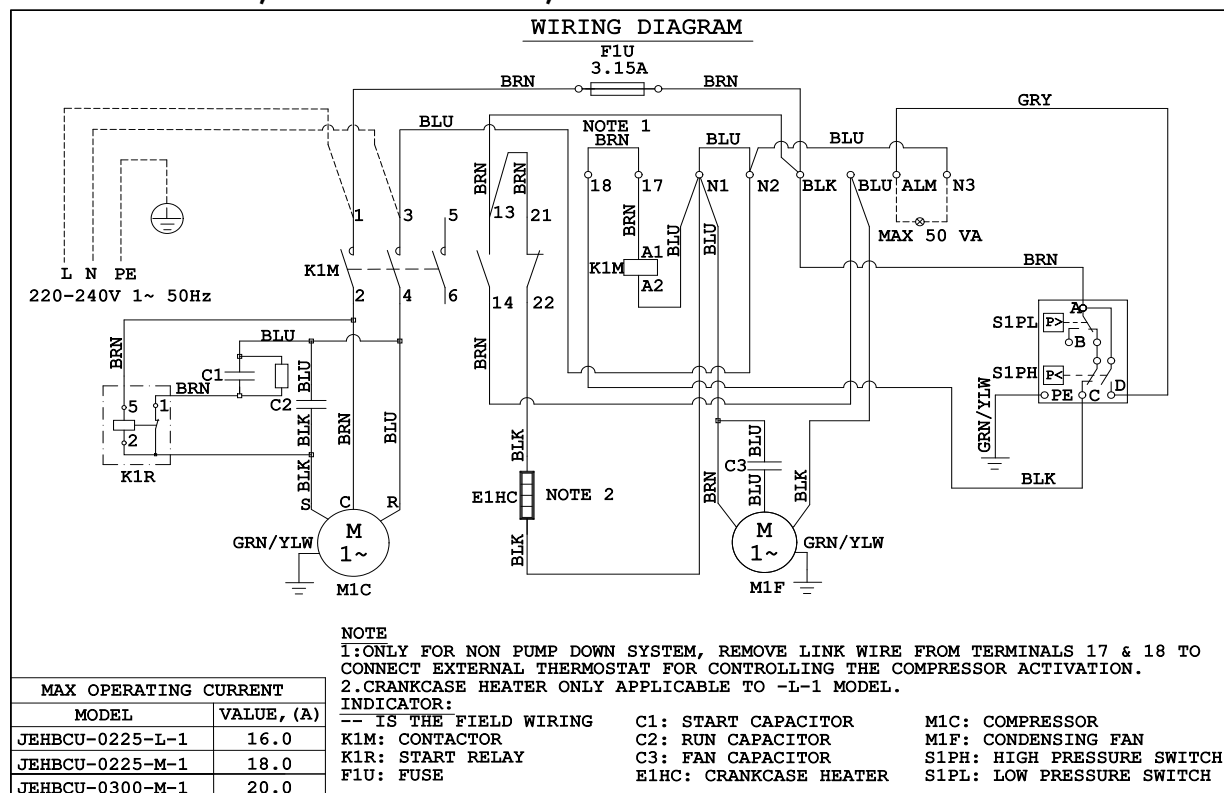
TA: Ambient Temperature (°C) PC: Power consumption (W), ± 10%

Rating Condition: Superheat 10K, Sub cooling 0K

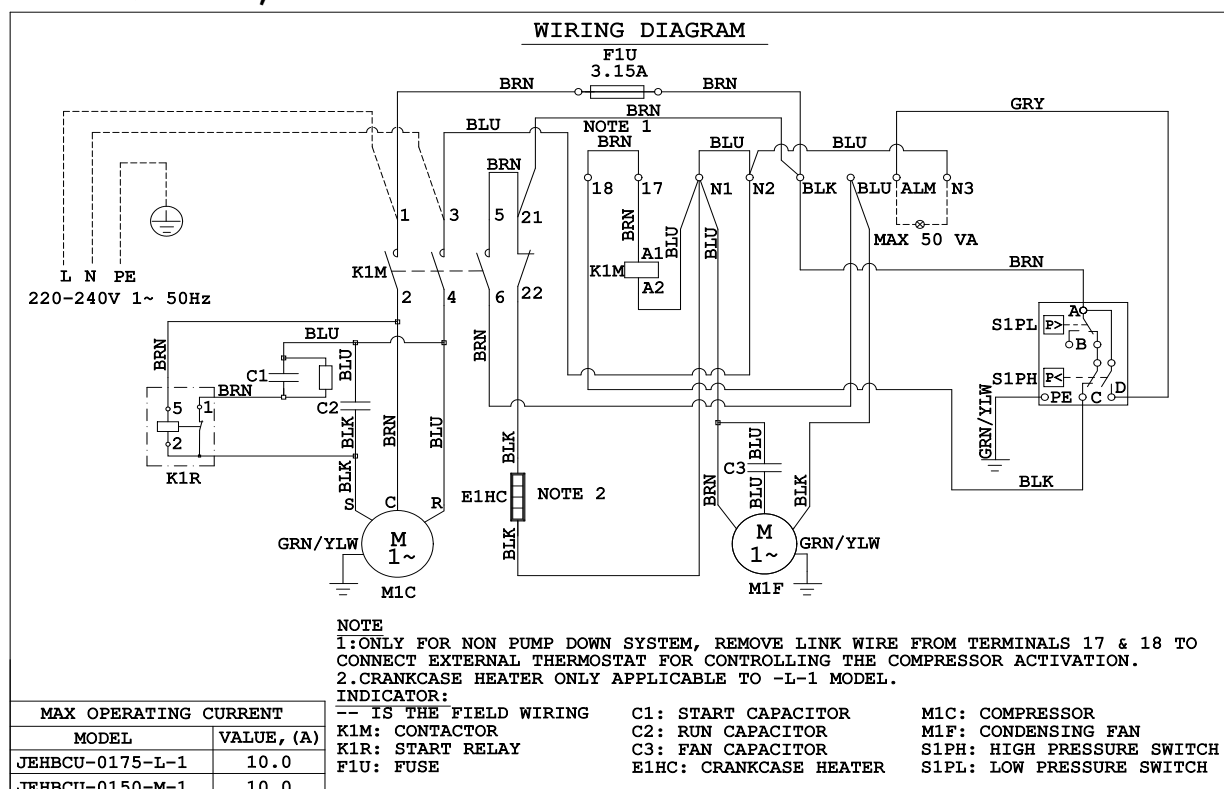
7. Wiring Diagram

Important Note: All wiring and connections to the condensing unit must be made in accordance to the local codes.

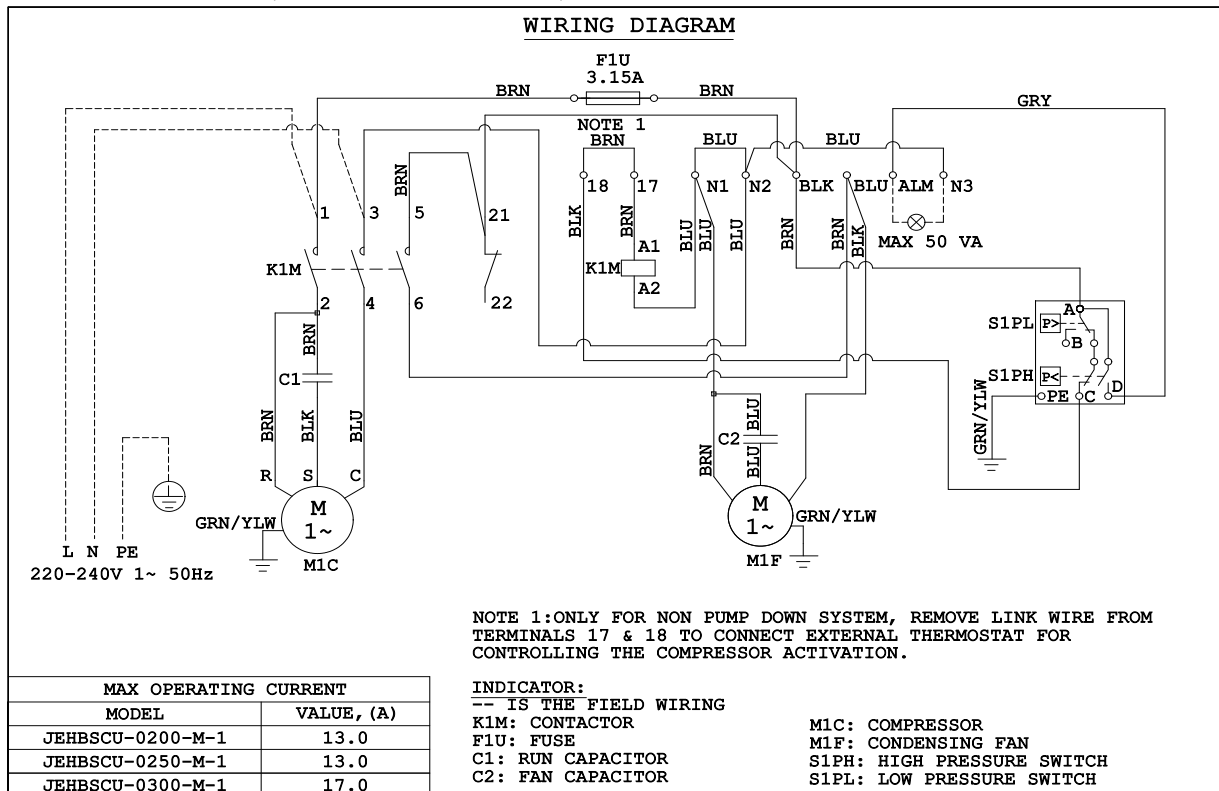
LRLRS0225AXV1, LRMRS0225AXV1, LRMRS0300AXV1



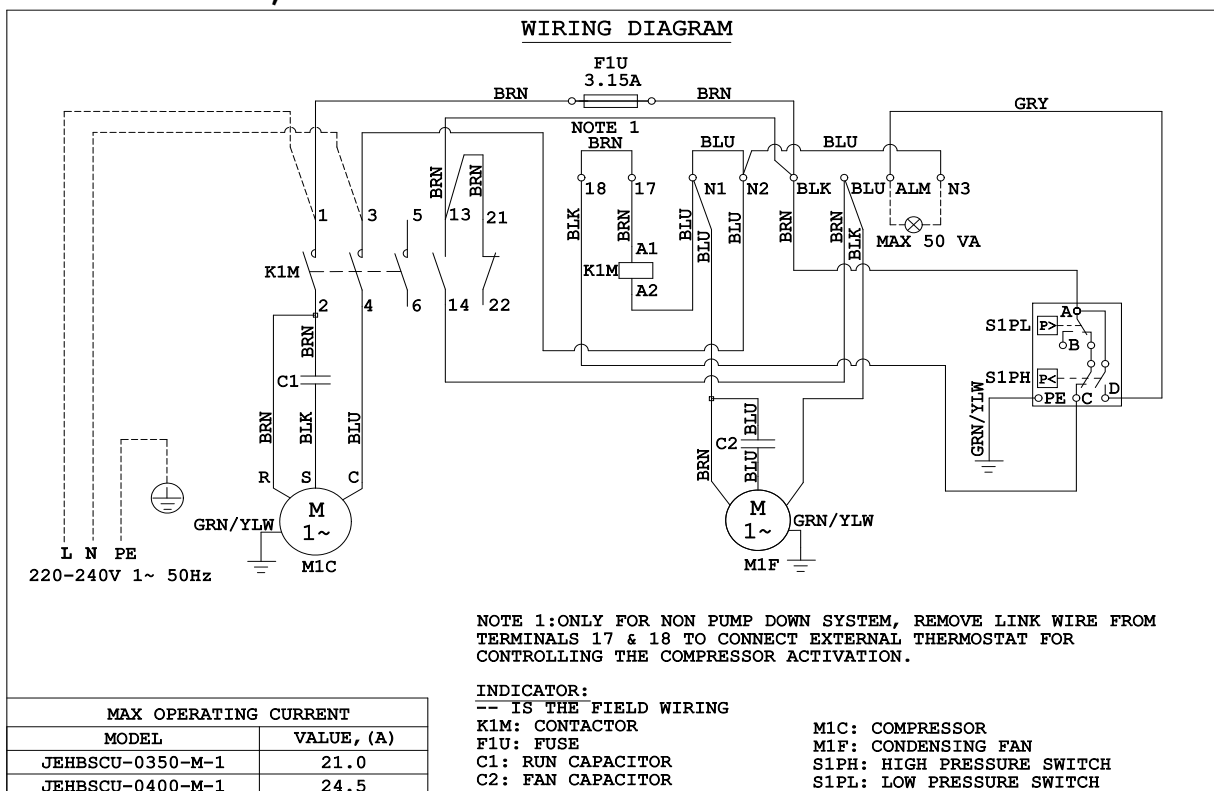
LRLRS0175AXV1, LRMRS0150AXV1



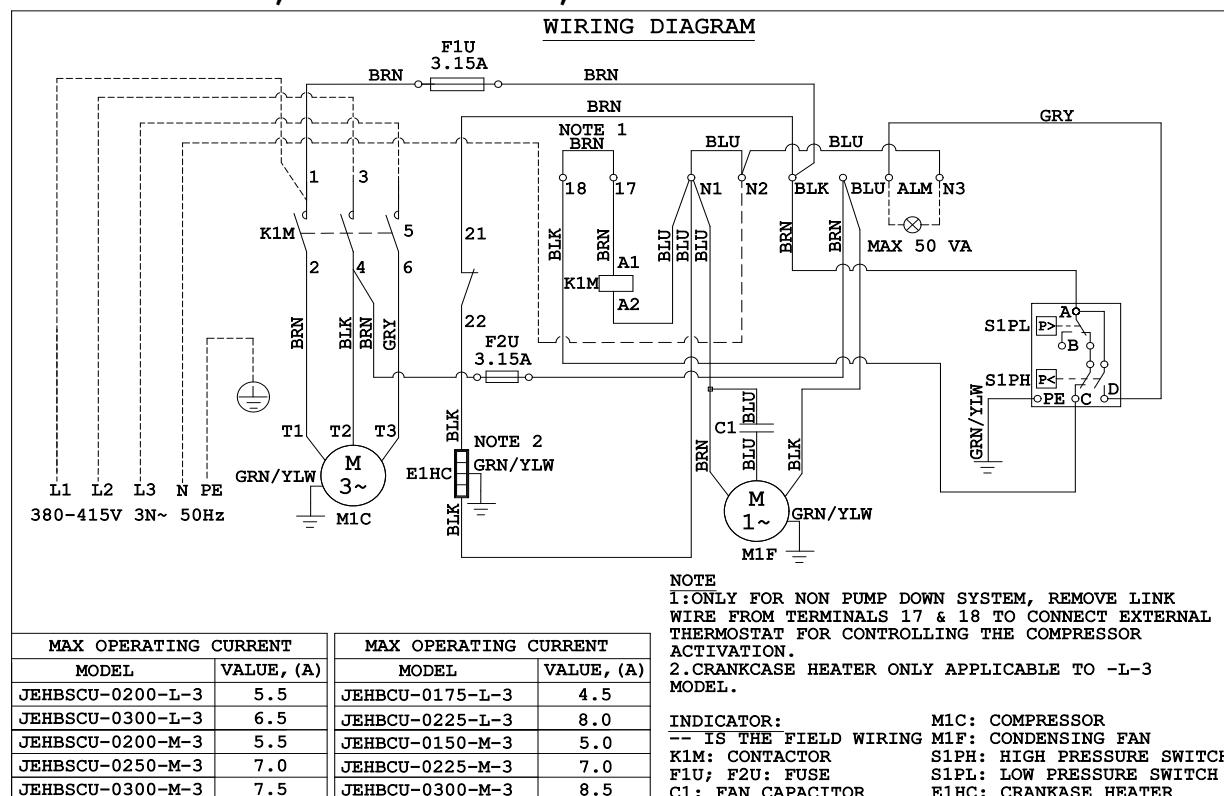
LRMSS0200AXV1, LRMSS0250AXV1, LRMSS0300AXV1



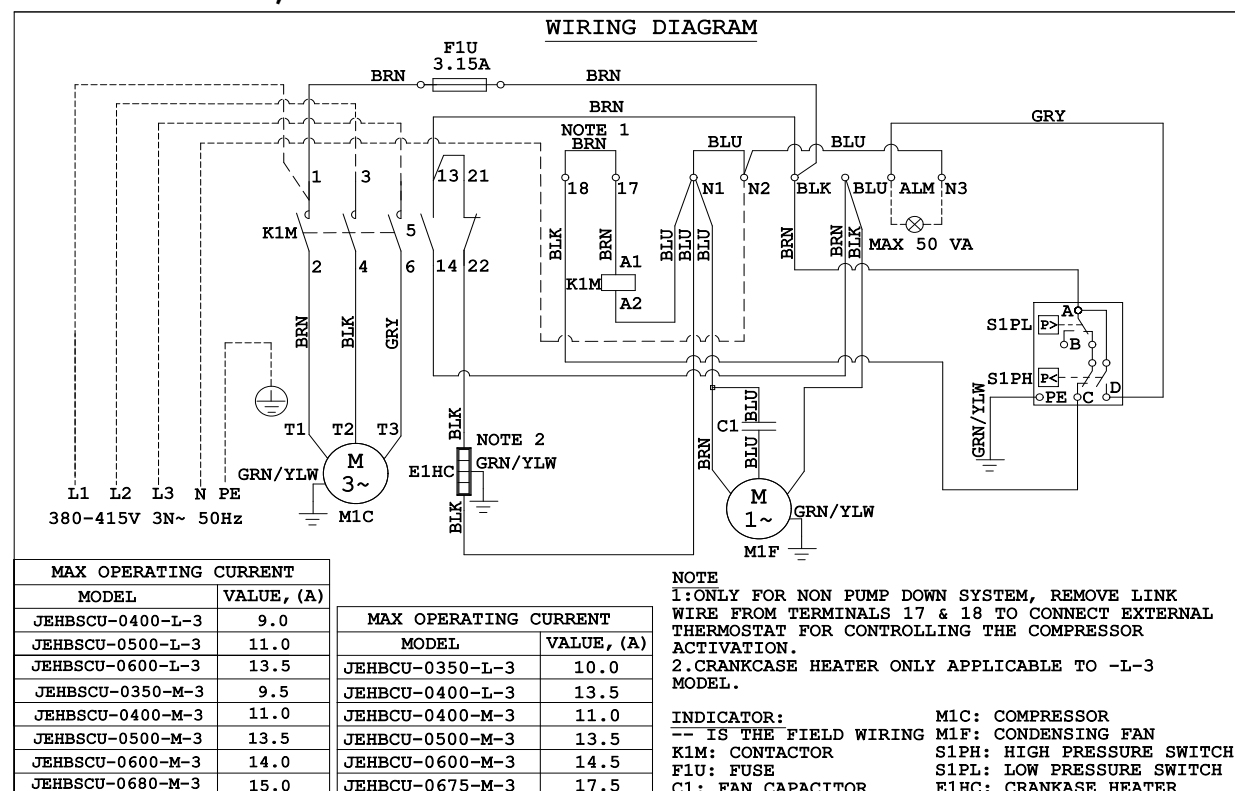
LRMSS0350AXV1, LRMSS0400AXV1



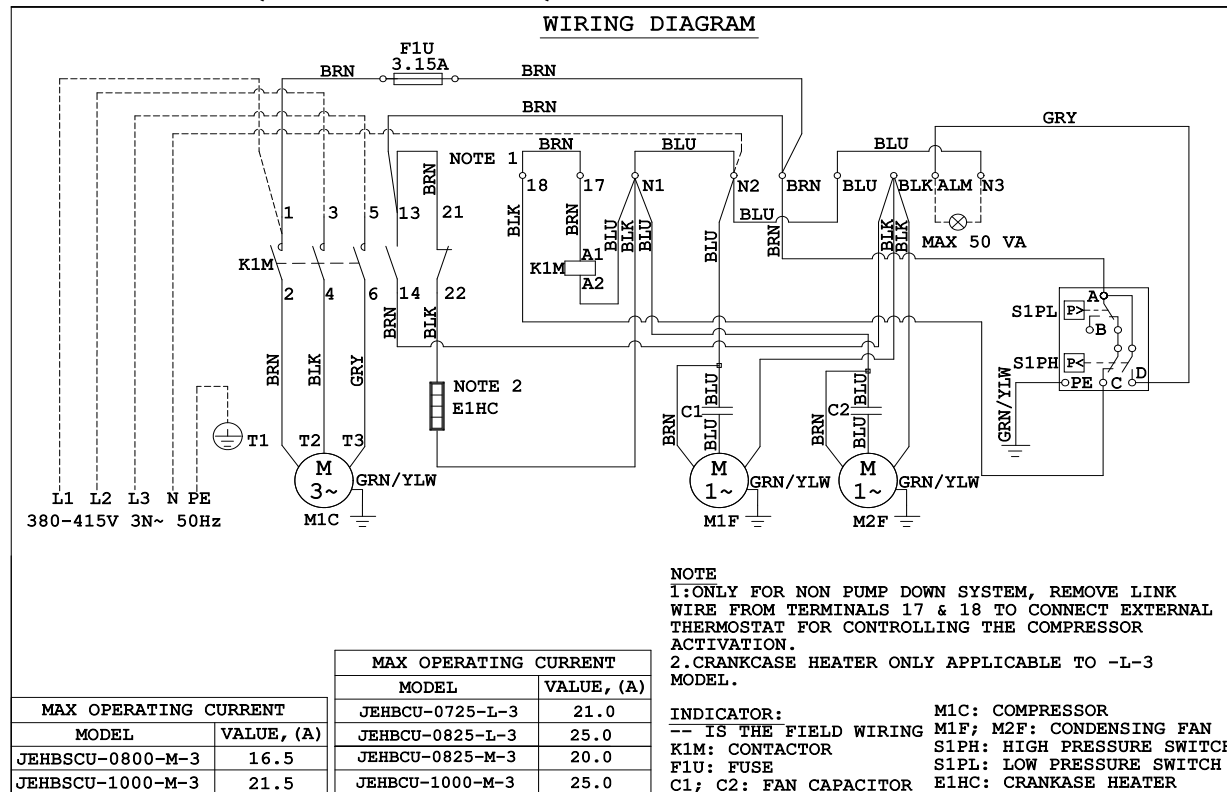
LRLSS0200AXY1, LRLSS0300AXY1, LRMSS0200AXY1,
 LRMSS0250AXY1, LRMSS0300AXY1, LRLRS0175AXY1, LRLRS0225AXY1,
 LRMRS0150AXY1, LRMRS0225AXY1, LRMRS0300AXY1



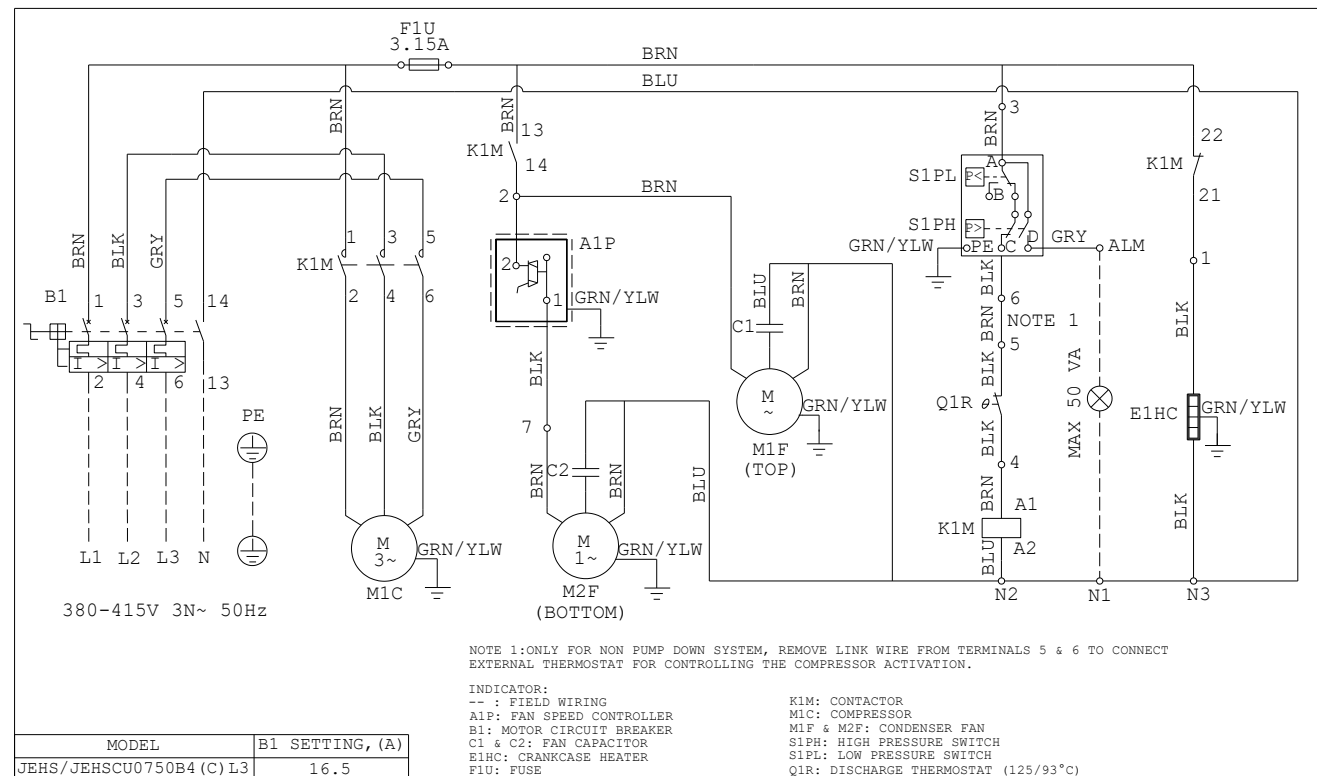
LRLSS0400AXY1, LRLSS0500AXY1, LRLSS0600AXY1, LRMSS0350AXY1,
 LRMSS0400AXY1, LRMSS0500AXY1, LRMSS0600AXY1, LRMSS0680AXY1,
 LRLRS0350AXY1, LRLRS0400AXY1, LRMRS0400AXY1, LRMRS0500AXY1,
 LRMRS0600AXY1, LRMRS0675AXY1



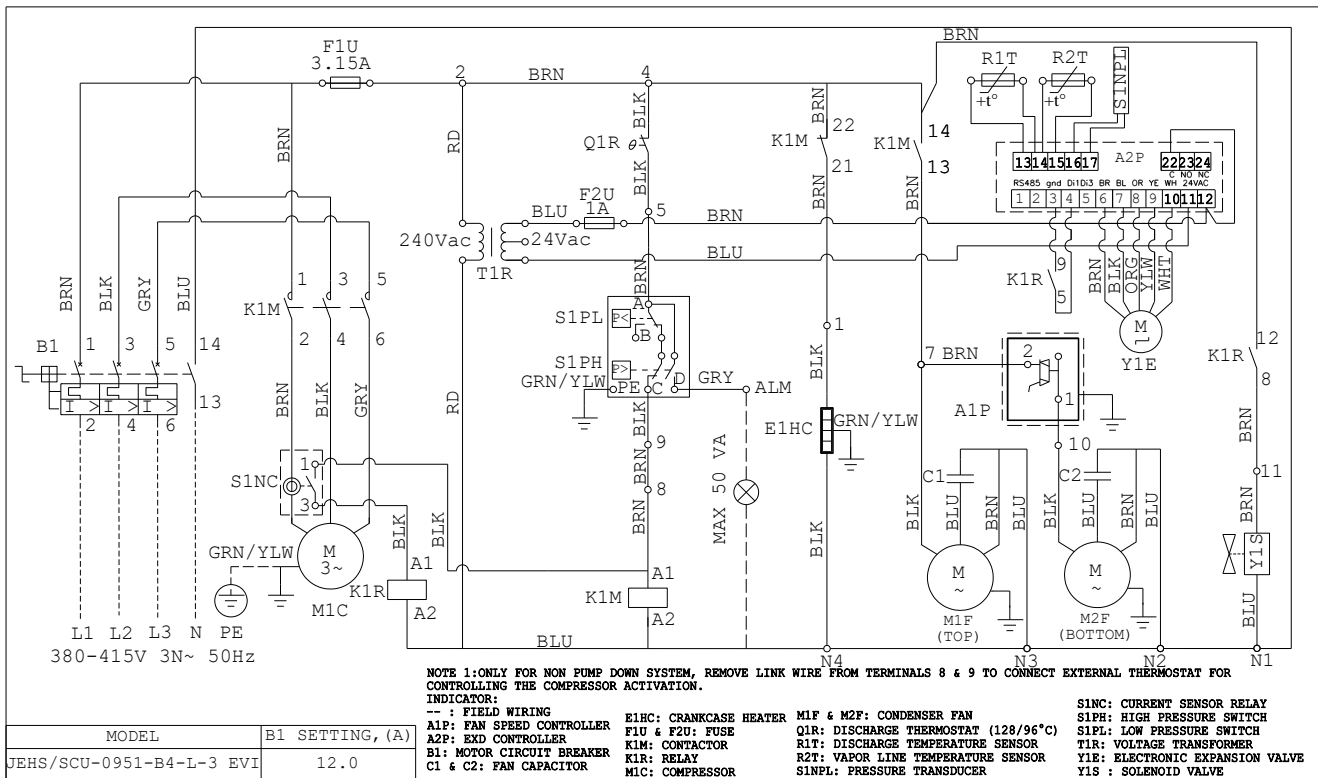
LRMSS0800AXY1, LRMSS1000AXY1, LRLRS0725AXY1,
LRLRS0825AXY1, LRMRS0825AXY1, LRMRS1000AXY1



LRLSFS0750BXY1



LRLVFS0951BXY1



8. Safety and Health

Important Note

Only qualified specialists could carry out the installation, maintenance and commissioning of the system. To avoid potential injury, use care when working around coil surfaces or sharp edges of metal cabinets. All piping and electrical wiring should be installed in accordance with all applicable codes, ordinances and local by-laws.

General Information

Before Installation

- Ensure the units received are the correct models for the intended application.
- Ensure the refrigerant, voltage and MWP are all suitable for the proposed application.
- Check there is no damage to the units. Any damage should be advised to the supplier immediately.
- Check that the proposed equipment locations are suitable and provide adequate support for the weight of the units.

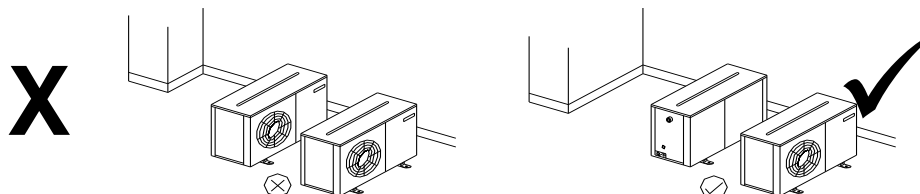
During Installation and subsequent maintenance

- Installation and maintenance are to be performed only by qualified personnel who are familiar with local codes and regulations, and experienced with this type of equipment.
- The condensing unit is delivered with a protective nitrogen holding charge.
- If lifting equipment is required, ensure that it is suitable for purpose, certificated and that the operatives are qualified to use it.
- Safe working methods are identified and operatives have suitable Personal Protective Equipment (PPE).
- Ensure the working area has adequate ventilation during brazing procedures.
- The units contain moving machinery and electrical power hazards, which may cause severe injury or death. Disconnect and shut off power before installation or service of the equipment.
- Refrigerant release into the atmosphere is illegal. Proper evacuation, recovery, handling and leak testing procedures must be observed at all times.
- Units must be earthed and no maintenance work should be attempted prior to disconnecting the electrical supply.
- The electrical covers and fan guards must remain fitted at all times.
- Use of the units outside of the design conditions and the application for which the units were intended may be unsafe and be detrimental to the units, regardless of short or long term operation.
- The condensing units are not designed to withstand loads or stresses from other equipment or personnel. Such extraneous loads or stress may cause failure/leak/injury.
- In some circumstances, a suction accumulator (not supplied) may be required. It offers protection against refrigerant flood back during operation and also against off-cycle migration by adding internal free volume to the low side of the system.
- Tests must be conducted to ensure the amount of off-cycle migration to the compressor does not exceed the compressor's charge limit.
- Wherever possible the system should be installed to utilize a pump down configuration.
- After installation, the system should be allowed to run for 3 – 4 hours. Additional oil should be added as necessary depending on length of pipe run. It should then be rechecked after 24 hours once the system has stabilized. For details of the oil requirements, please refer to page 36 in the service and maintenance section.

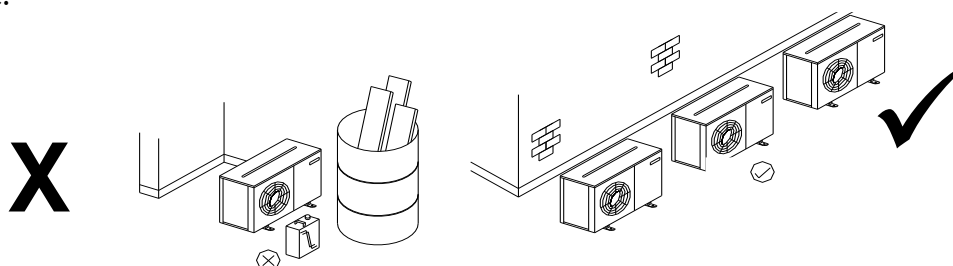
9. Installation & Commissioning

Unit Site Location

- In order to achieve maximum cooling capacity, the installation location for the condensing unit should be carefully selected.
- Install the condensing unit in such a way so that hot air ejected by the condensing unit cannot be drawn in again (short circuit of hot discharge air). Allow sufficient space for maintenance around the unit.



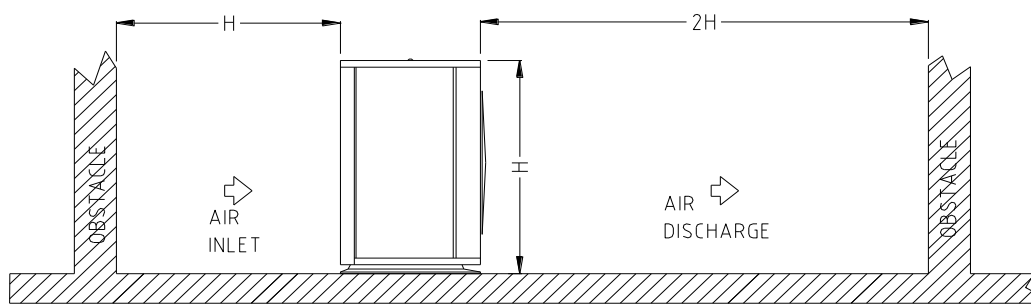
- Ensure that there is no obstruction to air flow into or out of the unit. Remove obstacles which block air intake or discharge.



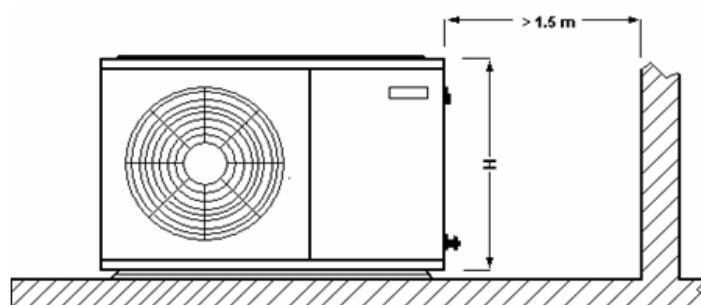
- The location must be well ventilated, so the unit can draw in and distribute plenty of air thus lowering the condensing temperature.
- To optimize the unit running conditions, the condenser coil must be cleaned at regular intervals.
- The unit must be level in all directions.

Installation Clearances

- The installation location should allow sufficient space for air flow and maintenance around the unit.

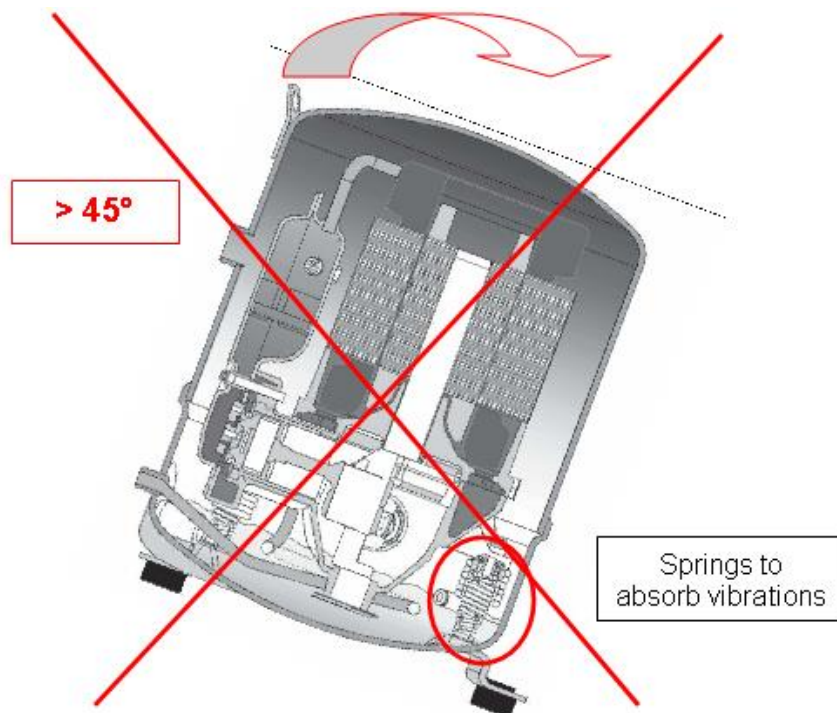


- Space not less than 1.5m is necessary for installation or maintenance.



Compressor Handling

To ensure compressor reliability, the condensing unit together with the compressor must not tilt greater than an angle of 45°. Otherwise, the internal part of the compressor can offset from the housing springs and produce abnormal sound and vibration.



Field Piping

Important Note:

Pipe sizing should only be determined by qualified personnel. All local codes of practice must be observed in the installation of refrigerant piping.

TO ENSURE SATISFACTORY OPERATION AND PERFORMANCE, THE FOLLOWING POINTS SHOULD BE NOTED FOR FIELD PIPING ARRANGEMENTS:

- Pipework routes must be as simple and as short as possible.
- Avoid low points on pipework where oil can accumulate.
- Suction gas velocity must be sufficient to ensure good oil return.
- Use only clean, dehydrated refrigeration grade copper tube with long radius bends.
- Avoid flare type connections and take great care when brazing. Use only silver alloy rods.
- Run braze without over filling to ensure there is no leakage into the tube.
- To prevent oxidation, blow oxygen free nitrogen through pipework when brazing.
- Install insulation on all suction lines and on all pipes penetrating walls or passing through hot areas.
- Adequately support all pipe work at a maximum of 2 metre intervals.
- In vertical pipework, the use of U-trap and double suction risers is often required. These suction risers must always be fitted with a U-trap at the bottom and a P-trap at the top and never be higher than 4m unless a second U-trap system is fitted.
- When installing a single compressor unit with multiple evaporators connected, care should be taken to ensure that the evaporating pressure/temperature does not fall outside the compressor operating limit. Ideally, multiple evaporators when operated in pump-down mode should be fed by a single solenoid valve.
- Suction pipework should slope gently back towards the unit to assist oil return to the compressor. A fall of approximately 2cm per metre of pipework is acceptable.

- Liquid lines should be sized to ensure a full supply of liquid refrigerant to the expansion device. Careful attention should be paid to sizing of liquid lines on large risers (above 6m).
- Piping length less than 25m is highly recommended. An additional oil might be required if piping length exceeds 20m or with many oil traps. Normally quantity of top up oil required should not exceed 2% of the total refrigerant charge.
- Field piping for outdoor unit located below indoor unit: Inverted P-trap is necessary when pump down is not used to prevent refrigerant from draining into the compressor during off-cycle.

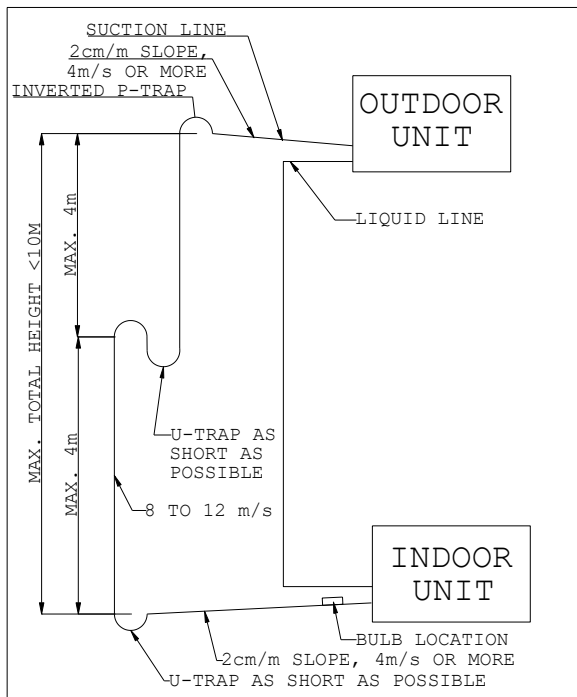
CORRECT LINE SIZING WILL MINIMIZE THE PRESSURE DROP AND MAINTAIN SUFFICIENT GAS VELOCITY FOR PROPER OIL RETURN.

Important Note:

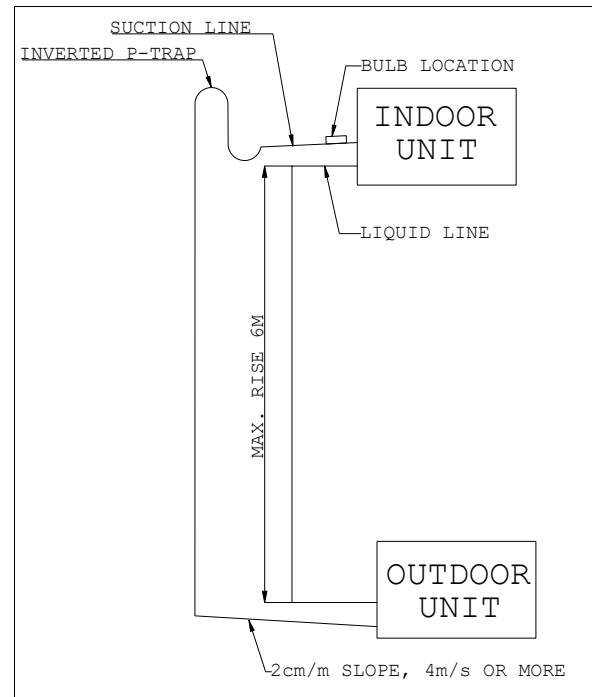
One of the main factors affecting equipment reliability and compressor service life is refrigeration circuit contamination. During installation, circuit contamination can be caused by:

- Brazing & Welding Oxides
- Filings & Particles from de-burring pipework
- Brazing Flux
- Moisture & Air

Piping Layout for Outdoor Above Indoor



Piping Layout for Outdoor Below Indoor



Pipe Size Selection (For EVI unit Only)

Sizing of liquid and suction lines for EVI model will be different from standard scroll models. Piping sizes of this model need to follow the recommended correction coefficient of cooling capacity. This is vital as if the pipework selected is oversized, especially for the suction pipe, the gas velocity will be decreased at low mass flow rate / low evaporating temperature, causing oil return problems. Undersized suction lines will also cause decreased capacity due to increased pressure drop.

The correction factor of refrigerant R404A is shown as below table:

Ta \ Te	(Watts)	-40	-35	-30	-25	-20
27	CF	0.64	0.66	0.68	0.70	0.72
32	CF	0.61	0.63	0.65	0.67	0.69
35	CF	0.59	0.61	0.63	0.65	0.67
38	CF	0.57	0.59	0.61	0.63	0.65
43	CF	0.54	0.55	0.57	0.58	0.60

For instance,

At condition of Te -35°C, Ta +32°C

Refrigerant R404A

Published cooling capacity = 5.9kW.

$$\begin{aligned}\text{Cooling capacity} &= \text{Correction factor} \times \text{Published cooling capacity} \\ &= 0.63 \times 5.9 \text{ kW} \\ &= \mathbf{3.707kW}\end{aligned}$$

Therefore, the pipe sizes should be selected against the **corrected** capacity of 3.71kW.

Insulation Selection (For EVI unit Only)

The liquid pipe connecting CCU service valve to the evaporator must be well insulated with recommended wall thickness of minimum 3/4".

Expansion Valve Selection (For EVI unit Only)

The lower liquid temperature of the EVI unit can increase evaporator expansion valve capacities. Selection of the expansion valve needs to be done based on the expected amount of sub-cooling shown in below tables:

R404A

Amount of Sub-cooling (K)					
Ta \ Te	-40	-35	-30	-25	-20
27	39.9	36.9	33.9	30.9	27.9
32	40.9	37.9	34.9	31.9	28.9
35	41.5	38.5	35.5	32.5	29.5
38	42.1	39.1	36.1	33.1	30.1
43	43.1	40.1	37.1	34.1	31.1

R448A / R449A

Amount of Sub-cooling (K)					
Ta \ Te	-40	-35	-30	-25	-20
27	33.1	32.8	32.4	32.1	31.8
32	37.9	36.9	35.8	34.8	33.8
35	40.9	39.4	37.9	36.4	34.9
38	43.8	41.9	40.0	38.0	36.1
43	48.8	46.1	43.4	40.8	38.1

Pressure Testing

- It is recommended to use inert gas such as nitrogen for pressure testing.
- The pressure differential between the high and low side of the compressor should not exceed 30 bar (435 psig).
- Test pressures are: 19 bar (275 psig) on the Low Side
28 bar (405 psig) on the High Side

Leak Detection

- Make sure that all isolation valves throughout the system are fully open.
- Perform a leak detection using compatible refrigerant and pressurize nitrogen, detected by leak detector for the applied refrigerant.
- Never use CFC or HCFC refrigerants for leak detection of HFC systems.
- Leak detecting additives shall not be used as they may affect the lubricant properties.

Evacuation & Charging

Important Note:

Moisture prevents proper functioning of the compressor and the refrigeration system. Ensure that a good quality vacuum pump is used to pull a minimum vacuum of 250 microns (0.33 mbar).

Once pressure testing has been completed, the system can now be evacuated to remove air and any moisture from the piping. This can be done as follows:

- Ensure any nitrogen charge is safely released from the system.
- Connect a gauge manifold to the connections on the service valves on the condensing unit.
- Connect a vacuum pump and vacuum gauge to the system.
- Ensure all gauge manifold and service valves are open as required.
- Evacuate the system until vacuum is below 250 microns (0.33 mbar).

Note: A triple evacuation procedure is recommended for all new systems or where moisture is suspected

Once the system is isolated and the vacuum pump is switched off, any rise in pressure indicates that either there may be a leak in the system or moisture is still present. In this case, recheck the system for leaks, repair as necessary, and then restart the evacuation procedure. Once completed satisfactorily, the vacuum pump and vacuum gauge can be removed.

At this point, the refrigerant charge can be added to the system as required. Refrigerants must be charged in the liquid phase. **Charging of liquid into the suction side of the system should ONLY be done with a metering device.** Use calibrated weighing scales to record the amount of refrigerant added to the system.

Electrical

Important Note:

The mains electrical supply to the condensing unit must be via a suitable motor rated circuit breaker or fuse. Daikin condensing units require either a 230 volt / 1 phase / 50Hz supply or a 400 volt / 3 phase / 50Hz supply, both of which must include a Neutral and an Earth. These systems are not suitable for any other supply voltages (other than a deviation of +/- 10% of the above values) and are not suitable for 60Hz supplies.

Mains cable type and sizing must be selected for the particular application and the electrical installation should confirm to the current local standards.

- Cables to the condensing unit should wherever possible be routed through the cable glands supplied on the rear of the units.
- Connect the mains supply to the units as per the wiring diagrams on pages 18 – 22.

To gain access to the electrical box, turn off the power supply, remove the screws from the end cover panel and remove panel. The electrical box is located behind the panel. Remove the screws in the electrical box cover to access components.

Important Note:

There must be no more than 10 compressor starts per hour. A higher number reduces the service life of the compressor. There is no minimum off time for scroll compressors, as they start unloaded. However, consideration should be given to ensuring an adequate minimum run time to ensure proper oil return.

Pre Start-Up Checks

Before starting the condensing unit, the following checks should be carried out as a minimum:

- Check electrical supply is correct and all connections are sound.
- All moving parts are free and guards fitted.
- Compressor oil level satisfactory.
- Initial settings for safety switches.
- Overload set correctly.
- Valves in correct operating position.
- Initial refrigerant charge.
- Gauge manifold connected to both low and high sides of system.

Running The Unit

- Run the unit and check compressor and condenser fan operation.
- Check system pressures and temperatures, gas charge and running currents of motors to ensure correct operation.
- Check compressor superheat.
- Final adjustment of safety switches setting and fan speed controller.
- Check compressor oil level and adjust as necessary.
- Carry out final leak test and ensure all panels/covers are fitted and screws tightened.
- Log all information along with the system model and serial numbers for future reference.
- Ensure that the customer / responsible person are provided with basic operating instructions and where electrical isolators are situated in case of emergency.

Important Information!

Compressor operation

Scroll compressors are designed to run only in one direction. This is not an issue with single phase compressors as they will always run in the correct direction. Three phase scroll compressors however can run in either direction depending on the connection of the three phases to the unit. Correct rotation can be determined by a drop in suction pressure and a rise in discharge pressure when the compressor is energized. Running the compressor for a short period of time in reverse direction will have no negative impact but prolonged running in reverse direction may cause premature failure. **To reverse the rotation on a three phase scroll compressor, simply swap connection of any two of the three compressor phases and recheck operating pressures.**

Vacuum operation:

Do not operate scroll compressors in a vacuum condition, as this will cause the scrolls to overheat very quickly causing premature failure.

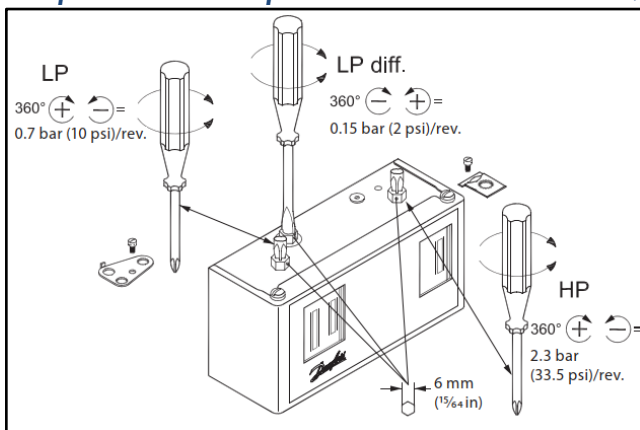
System charge:

Ensure an adequate liquid charge has been introduced to the high side of the system before starting to ensure a minimum operating pressure on the suction side of 0.5 bar is maintained, otherwise overheating of the scrolls and subsequent damage may occur.

Dual Pressure Switch

The dual pressure switch fitted to condensing units is auto reset for low pressure side and manual reset for high pressure (fixed differential) are NOT factory preset for application.

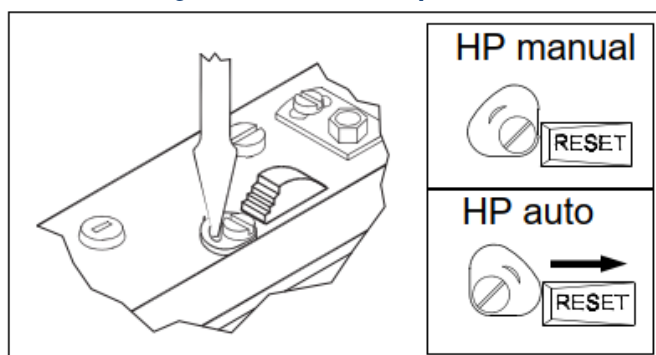
Adjustment on dual pressure switch - Danfoss KP17WB



KP17WB has high pressure convertible reset feature. Insert screwdriver into the slot on the lock disc and turn it to the desired reset configuration.

Do not turn the screw on the lock disc as it may damage the convertible reset mechanism.

KP17WB: High Pressure Reset Option



When high pressure trip is changed to auto reset on KP17WB, the compressor is ready to turn ON when discharge pressure drops below the setting value of (Cut Out – Fixed Differential).

High pressure safety (Manual reset)

The high pressure safety switch is required to stop the compressor should the discharge pressure exceed the values shown in the following table. The high pressure switch can be set to lower values depending on the type of refrigerant, application and ambient conditions.

Low pressure safety (Auto reset)

The low pressure safety switch protects the compressor against deep vacuum operation, a potential cause of failure due to internal arcing and also operation outside the compressor limits.

The low pressure safety cut out should never be set below the settings as shown in the following table. For systems without pump-down the LP switch signal contact shall be used to energize a low pressure safety alarm.

Unit Type	Series 2 & 3			Series 4		
Refrigerant	R404A		R134a	R404A		R134a
Application	M*	L*	M*	M*	L*	M*
Cut Out (bar g)	2.0	0.1	0.6	2.0	0.3	0.6
Cut Out (psi g)	30	1.5	9	30	5.0	9

* M: Medium Temperature; L: Low Temperature

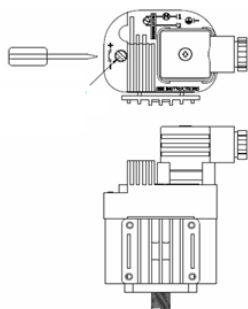
The low pressure cut out pressure is the setting of cut in minus the differential.

Important Note

There must be no more than 12 compressor starts per hour. A higher number of starts reduce the service life of the compressor. If necessary, use an anti-short-cycle timer in the control circuit. It is recommended minimum 2 minutes run in time and 3 minutes idle time for each start and stop of the compressor. The compressor may run in shorter interval during pump down cycle.

XGE Fan Speed Controller

Model JEHSCU0750CL3 and JEHSCU0951CL3 EVI are mounted with fan speed controller which used to regulate the bottom fan motor. The fan speed controller is factory set to 19 bar for operation with R4*** series refrigerant to ensure compressor always operates within envelope at all declared working condition. If operate with R134a, the fan speed controller setting need to be change to 13bar. The XGE controls are set to stop fan at Pmin.



Clockwise: Increase pressure set point

Anticlockwise: Decrease pressure set point

360° = 1 turn
Approx. 1.5 barG

Discharge Thermostat

Model JEHSCU0750CL3 and JEHSCU0951CL3 EVI are mounted with discharge thermostat (cut out = 125°C, cut in = 90°C) to protect the compressor. For other unit models, it is recommended to install the discharge thermostat if operating in extreme condition (low evaporating and high ambient temperature).

Controller EXD-HP1

The controller EXD-HP1 used in the Series 4 EVI unit operates as an economizer control. The setting of controller is preset by the factory and is password protected. Users are not allowed to change any settings in the controller.



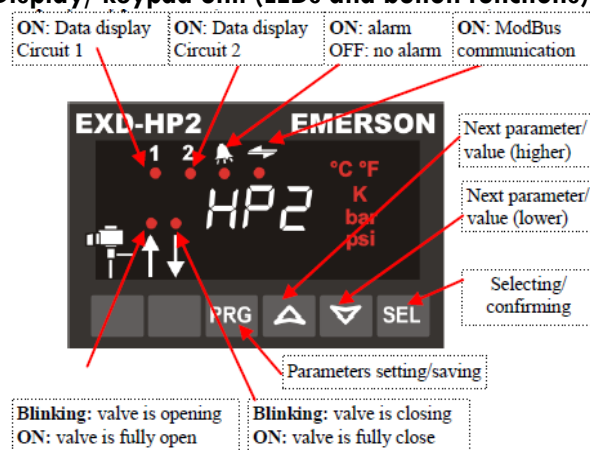
Safety Instructions:

1. Read installation instruction carefully. Failure to comply can result in device failure, system damage or personal injury.
2. Only person having appropriate knowledge and skill are allowed to manipulate the controller.
3. Disconnect all voltages from system before installation.

Electrical Installation

- Do not operate system before all cable connections are completed.
- Refer to wiring diagram for electrical connections.
- Class II category transformer is required for 24VAC power supply
- Do not connect any EXD-HP1 input to main voltage as it will permanently damage the controller.
- When connecting wires of expansion valve and pressure sensor, consider color coding as follow:
 1. EXM : BR: BROWN; BL: BLUE, OR: ORANGE; YE: YELLOW; WH: WHITE
 2. PT5 : BN: BROWN; WH: WHITE

Display/ keypad unit (LEDs and button functions)



- In standard mode the superheat is shown at the display. In case of liquid injection and economizer function this changes to discharge temperature.
- To display other data of EXD-HP1 press “SEL” button for 1 second until index number according to below table appears. Release “SEL” button and the next variable data will appears. By repeating the procedure variable data can be displayed in sequence as measured superheat (K) → Measured suction pressure (bar) → valve position (%) → Measured suction gas temperature (°C) → Calculated saturated temperature (°C) → Measured discharge temperature (°C) (if economizer function is selected) → REPEATING

Variable data	Controller EXD-HP1	
Default Superheat, K	1	0
Suction pressure, bar	1	1
Valve position, %	1	2
Suction gas temperature, °C	1	3
Saturation temperature, °C	1	4
Discharge temperature, °C	1	5

Digital input Di1/Di2

- The digital input Di1 is the interface between controller EXD-HP1 and system controller if Modbus communication has not been used.
- The digital status is dependent to operation of system's compressor or demand.

Operating Condition	Digital input status
Compressor starts	Closed (Start)
Compressor stops	Open (Stop)

Manual mode operation

Warning: All alarms are disabled during manual control. We do not recommend unattended operation of system during manual control.

- Press **PRG** and **▼** together for 5 seconds to access to manual mode operation.

• List of parameters in scrolling sequence by pressing **▼** button

Code	Parameter description and choices	Min	Max	Factory setting	Field setting
1Ho	Manual mode operation; circuit 1 0 = disabled; 1 = Enabled	0	1	0	
1HP	Valve opening (%)	0	100	0	
2Ho	Manual mode operation; circuit 2 0 = disabled; 1 = Enabled	0	1	0	
2HP	Valve opening (%)	0	100	0	

Manual alarm reset clearing functional alarms (except hardware error)

- Press **PRG** and **SEL** together for 5 seconds. When the clearing is done, "CL" message appears for 2 seconds.

EXD – HP1 Error/ Alarm handling

Alarm code	Description	Related parameter	Valve	What to do?	Requires manual reset after resolving alarm
1E0/2E0	Pressure sensor 1/2 error	-	Fully close	Check wiring connection and measure the signal 4 to 20 mA	No
1E1/2E0	Temperature sensor 1/2 error	-	Fully close	Check wiring connection and measure the resistance of sensor	No
1Ed	Discharge hot gas temperature sensor 3 error	-	Operating	Check wiring connection and measure the resistance of sensor	No
1AI/2AI	EXM/EXL electrical connection error	-	-	Check wiring connection and measure the resistance of winding	No
1Ad	Discharge hot gas temperature above limit		Operating	Check valve opening/ check liquid flow for flash gas free/check discharge hot gas temperature sensor	No
AF	Freeze protection	1P4/2P4: 1	Fully close	Check the system for cause of low pressure such as insufficient load on evaporator	No
AF blinking		1P4/2P4: 2	Fully close		Yes
AL	Low superheat (<0.5K)	1uL/2uL: 1	Fully close	Check wiring connection and operation of valve	No
AL blinking		1uL/2uL: 2	Fully close		Yes
AH	High superheat	1uH/2uH: 1	Operating	Check the system	No
AP	Low pressure	1P9/2P9: 1	Operating	Check the system for cause of low pressure such as refrigerant loss	No
AP blinking		1P9/2P9: 2	Operating		Yes

Wiring

The unit must be isolated from power supply prior to installation. In order to ensure the safety of the installation and its smooth operation, it is necessary to:

- Verify the installation is compatible with the wiring diagram.
- Select the motor circuit breaker by using the maximum continuous current. Refer Section 4.
- Size the wiring for the connection (power and control circuit) according to the properties of the installed unit.
- Protect and earth the electrical power supply.
- Carry out electrical connections according to the norms of the respective country.
- Secure the cable from touching hot parts and sharp edges with cable clamps.
- Close the electrical box after completion of the wiring.

Commissioning of The Condensing Unit

Make sure all isolation valves are fully open before starting the system for the first time. The shut off valve on the condensing unit could found on outlet of liquid receiver, inlet and outlet of condensing unit.

10. Checklist

- Check all electrical termination and circuits.
- Check the service valves are fully open.
- Check compressor oil level.
- Check the pressure switch for right settings.
- Ensure fan motor and fan blades are installed properly.
- Observed the system pressures during the charging and initial operation process.
- Continue to charge the system until sight glass is clear. Make sure that high pressure is > 13.2 bars for R404A and > 7.9 bars for R134a when judge the refrigerant charging amount.
- Check the compressor's discharge and suction pressure, ensure it is working within the operating range.
- Check condenser fan, ensure warm air blowing off.
- Check evaporator blower, ensure discharge air is cool.
- Check suction superheat and adjust expansion valve to prevent liquid flood back to the compressor.

11. Service and Maintenance

Important Note

Warning! – Disconnect the main electrical supply before servicing or opening the unit
Warning! – Ensure there is no refrigerant in refrigerant circuit before dismantle it

The condensing units are designed to give long life operation with minimum maintenance. However, they should be routinely checked and the following service schedule is recommended under normal circumstances:

The removal of the top, side and front panels ensures that all parts are accessible.

1. Compressor – Inspect at regular intervals

- Check for refrigerant leaks on all joints and fittings.
- Check mountings for tightness and wear.
- Check operation of crankcase heater.
- Check electrical connections.
- Ensure that no abnormal noise or vibration is detected during test run.
- Check the compressor oil levels and top up if required. The oil level should be visible at least 1/2 way up the sight glass (where fitted).

2. Condenser Fan Motor & Blade – Clean and inspect at regular intervals

- Check for abnormal noise, vibration and fan imbalance.
- Ensure that the fan motor is clean and spins freely.
- Check that the condenser fan blade is clean and free from restriction and damage/imbalance.
- **Note:** The Fan Motor is pre-lubricated and factory sealed so no maintenance is necessary.

3. Condenser Coil – Clean and inspect at regular intervals.

- Check and remove the dirt and debris between the fins using a suitable chemical coil cleaner.
- Check and remove any obstacles which may hinder the airflow through the condenser coil.

4. Controls

- Check settings and operation of pressure switches.
- Check overload setting.

5. Power Supply – Inspect at regular intervals.

- Check the running current and voltage for the condensing unit.
- Check the electrical wiring and tighten the wires onto the terminal blocks if necessary.

6. Refrigerant Charge

- Check the refrigerant charge by ensuring that the system is operating correctly, the pressures are as expected and that the liquid line sight glass shows a full bore of liquid refrigerant.
- Carry out a full leak test.

7. Unit decommissioning and disposal

- At the end of the unit's useful life, a suitably qualified engineer should decommission it. The refrigerant and compressor oil are classed as hazardous waste and as such must be reclaimed and disposed of in the correct manner, including completion of waste transfer paperwork. The unit components must be disposed of or recycled as appropriate in the correct manner.

12. Trouble Shooting

The following is some guidelines to troubleshoot some common failure of condensing unit. Consult to qualified specialists before taking any corrective action.

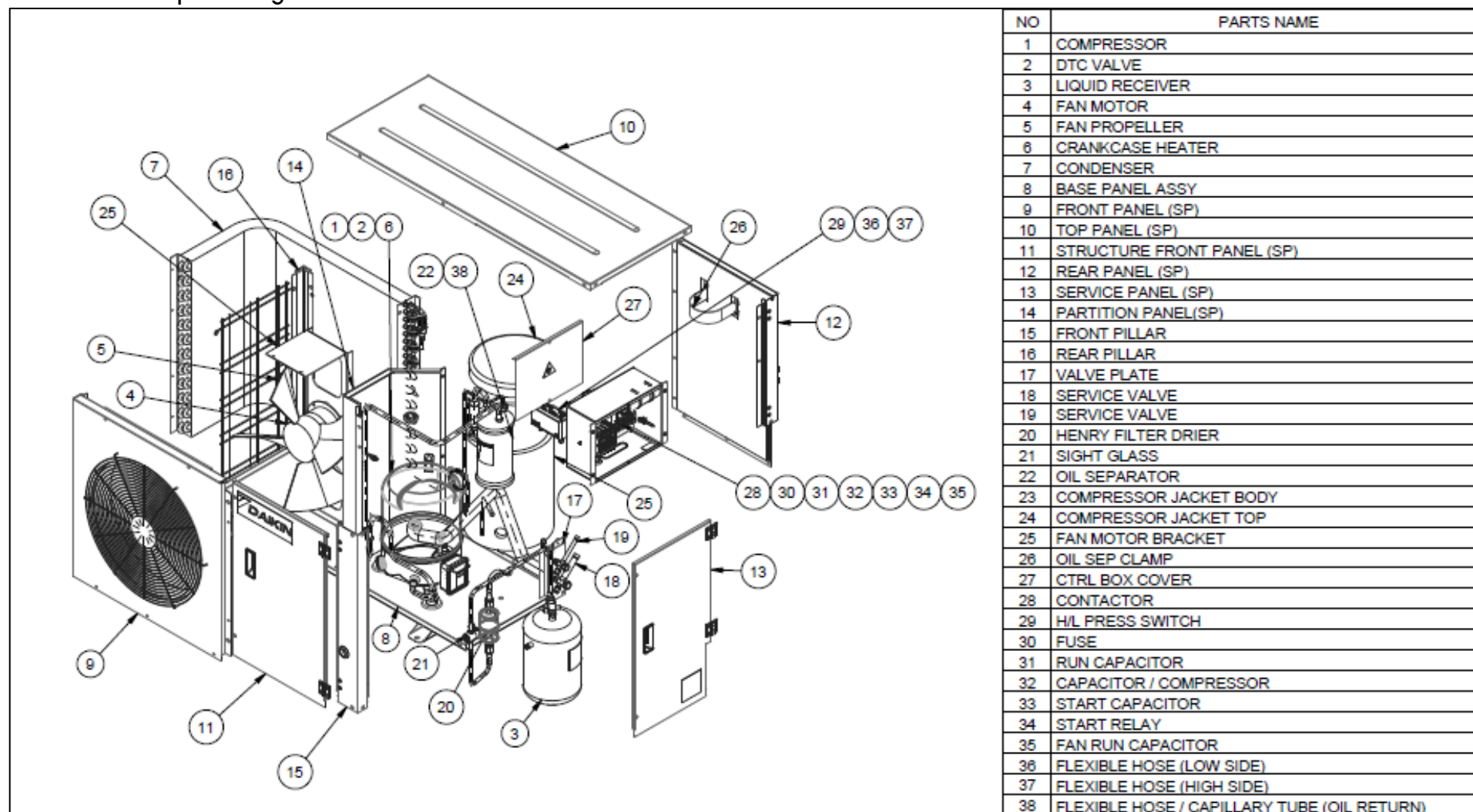
Failure	Possible Causes
Fan does not work	<ul style="list-style-type: none"> • Improper wiring • Fan motor faulty
Compressor does not start	<ul style="list-style-type: none"> • Improper wiring • Defective contactor or coil • System stopped because of tripped of safety device. • Defective start/run capacitor • Compressor faulty
Insufficient cooling	<ul style="list-style-type: none"> • Low refrigerant charge • Condenser coil dirty • Obstacle blocking air inlet/outlet • Improper thermostat setting

Important Note

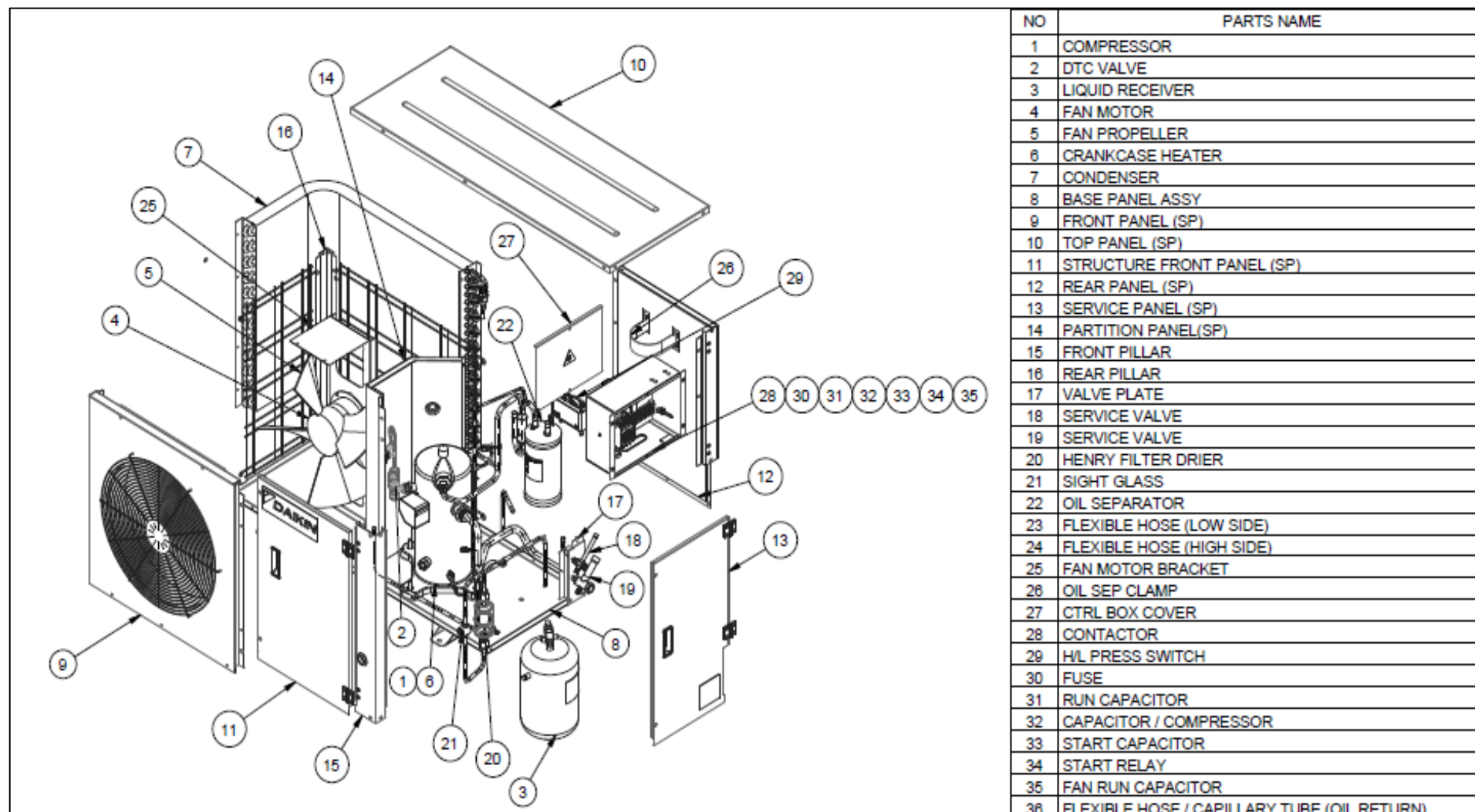
Warning! – Immediately shut off power of the unit if there is any event of accident or breakdown.

13. Exploded View

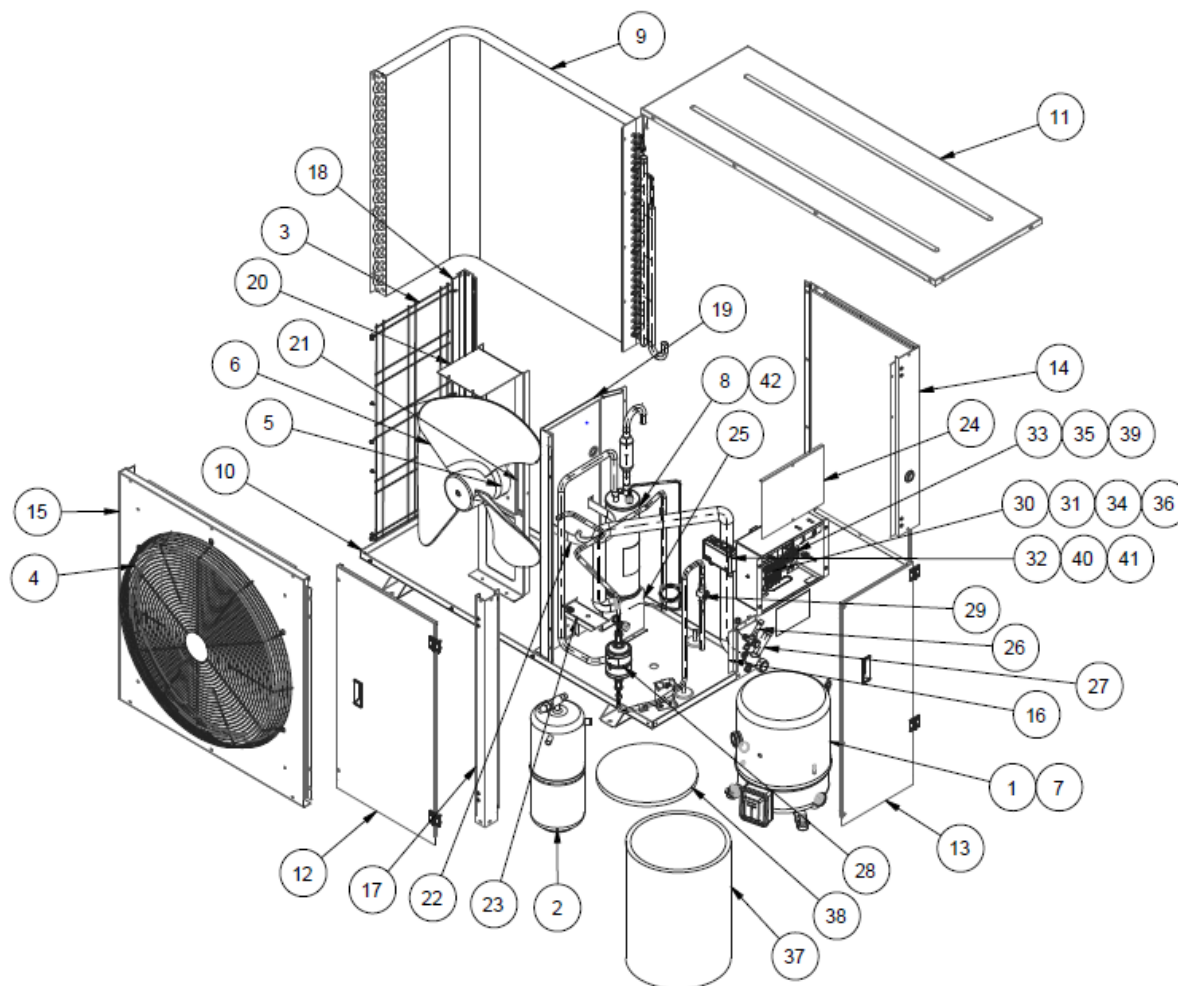
Series 2 – Reciprocating



Series 2 – Scroll

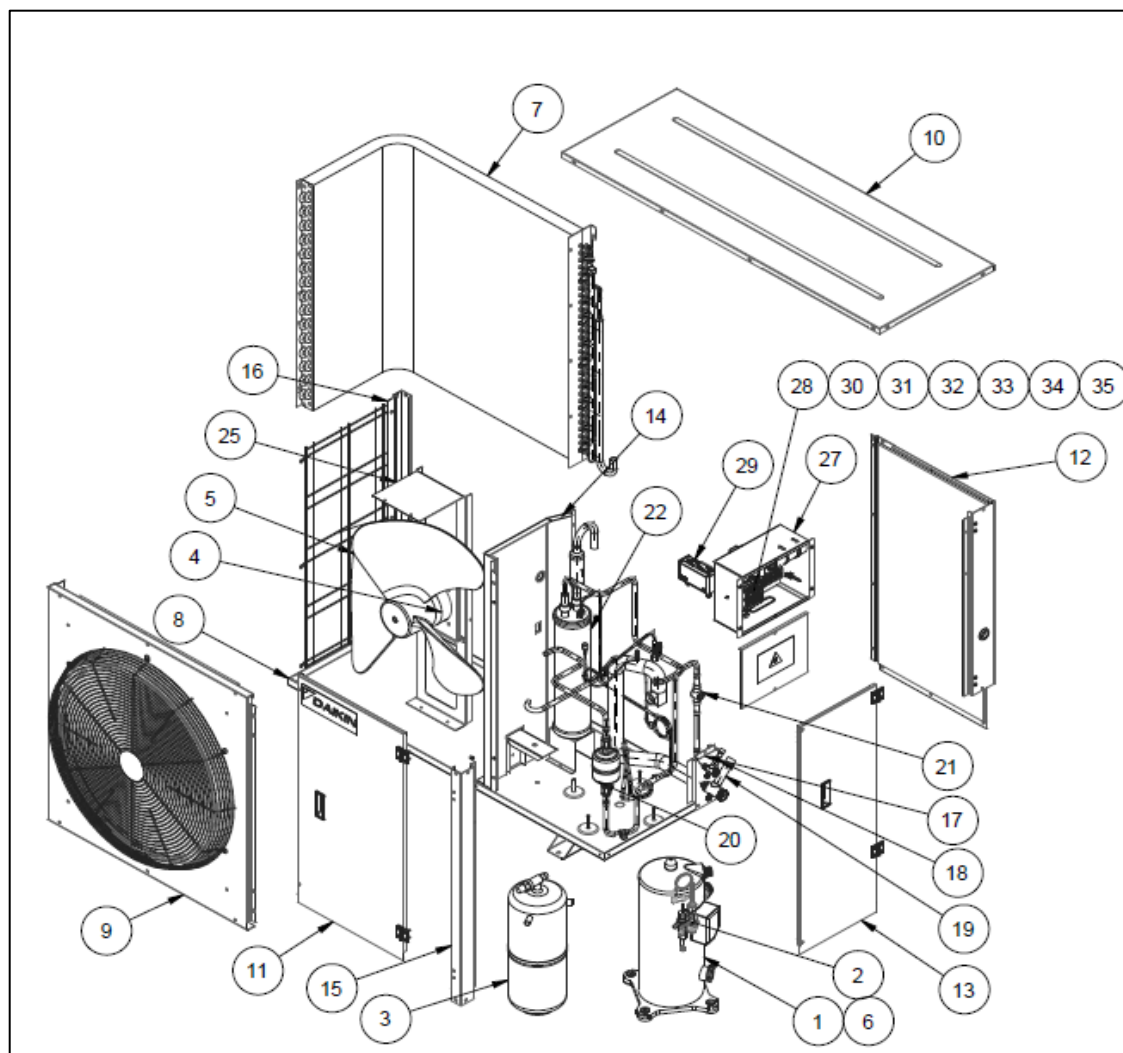


Series 3 – Reciprocating



NO.	PART NAME
1	COMPRESSOR
2	LIQUID RECEIVER
3	COIL GUARD LEFT
4	FAN GUARD
5	FAN MOTOR
6	FAN PROPELLER
7	CRANKCASE HEATER
8	OIL SEPARATOR
9	CONDENSER
10	BSE PANEL ASSY
11	PANEL TOP (SP)
12	PANEL FRONT (SP)
13	PANEL RIGHT (SP)
14	PANEL REAR (SP)
15	FAN PANEL
16	VALVE PLATE
17	FRONT PILLAR
18	REAR PILLAR
19	PANEL MIDDLE (SP)
20	FAN BRACKET
21	FAN BRACKET ADAPTOR
22	LIQUID RECEIVER CLAMP
23	LIQUID RECEIVER BRACKET
24	CONTROL BOX COVER
25	OIL SEP BRACKET
26	SECRIVE VALVE
27	SECRIVE VALVE
28	HENRT FILTER DRIER
29	SIGHT GLASS
30	ABB
31	CONTACTOR
32	H/L PTRDD SWITCH
33	FUSE
34	ABB DOOR HANDLE
35	RUN CAPASITOR
36	ABB A UXIUARY CONTACT
37	COMPRESSOR JACKET
38	COMPRESSOR JACKET
39	FAN CAPASITOR
40	FLEXIBLE HOSE (LOW SIDE)
41	FLEXIABLE HOSE (HIGH SIDE)
42	CAPILLARY TUBE (OIL RETURN)

Series 3 – Scroll



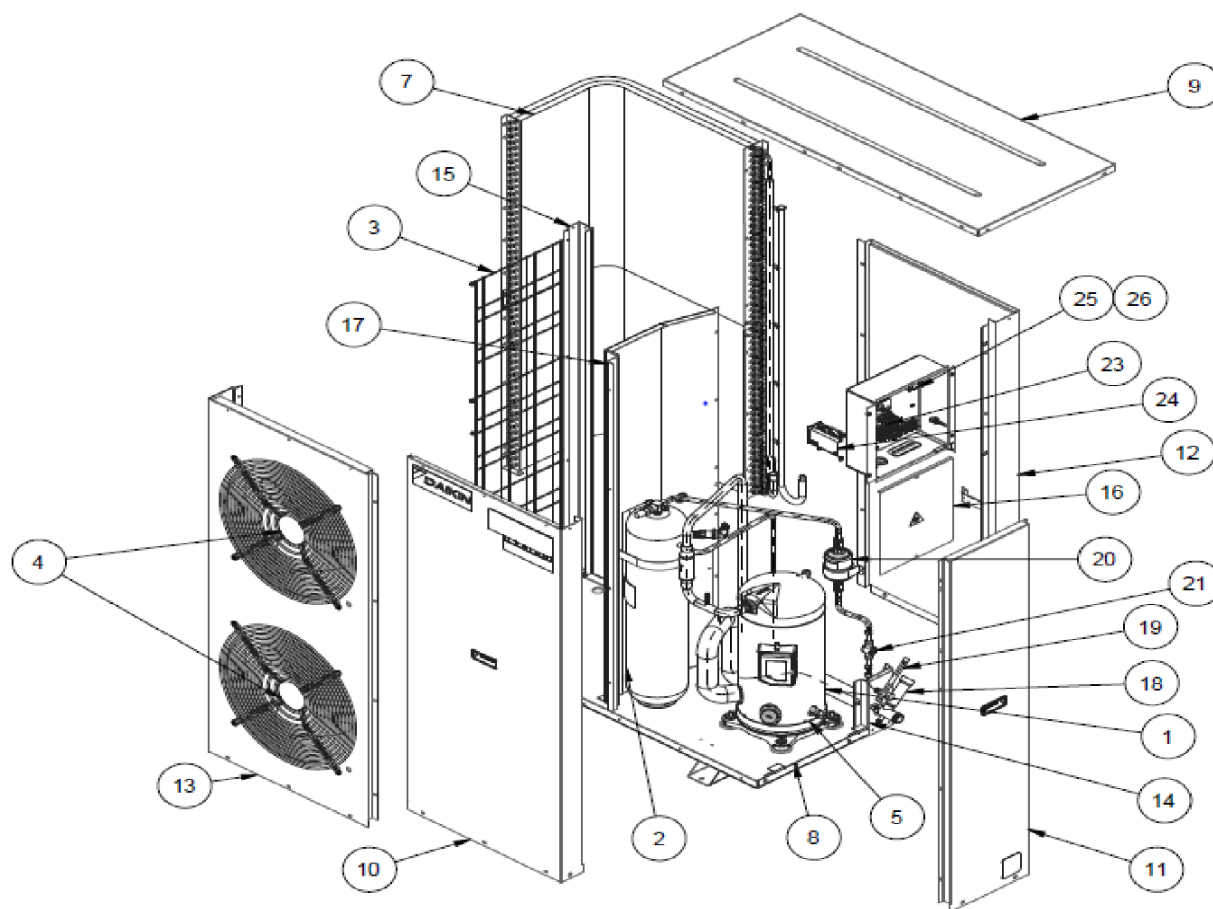
NO	PARTS NAME
1	COMPRESSOR
2	DTC VALVE
3	LIQUID RECEIVER
4	FAN MOTOR
5	FAN PROPELLER
6	CRANKCASE HEATER
7	CONDENSER
8	BASE PANEL ASSY
9	FRONT PANEL (SP)
10	TOP PANEL (SP)
11	STRUCTURE FRONT PANEL (SP)
12	REAR PANEL (SP)
13	SERVICE PANEL (SP)
14	PARTITION PANEL (SP)
15	FRONT PILLAR
16	REAR PILLAR
17	VALVE PLATE
18	SERVICE VALVE
19	SERVICE VALVE
20	HENRY FILTER DRIER
21	SIGHT GLASS
22	OIL SEPARATOR
23	FLEXIBLE HOSE (LOW SIDE)
24	FLEXIBLE HOSE (HIGH SIDE)
25	FAN MOTOR BRACKET
26	OIL SEP CLAMP
27	CTRL BOX COVER
28	CONTACTOR
29	H/L PRESS SWITCH
30	FUSE
31	RUN CAPASITOR
32	CAPACITOR/COMPRESSOR
33	START CAPASITOR
34	START RELAY
35	FAN RUN CAPASITOR
36	FLEXIBLE HOSE / CAPILLARY TUBE (OIL RETURN)

Series 4 – Reciprocating

LRMRS0825~1000AXY1	LRLRS0725~0825AXY1	NO PARTS NAME
		1 COMPRESSOR
		2 LIQUID RECEIVER
		3 COIL GUARD LEFT
		4 FAN
		5 CRANKCASE HEATER
		6 OIL SEPARATOR
		7 CONDENSER
		8 BASE PANEL ASSY
		9 PANEL TOP (SP)
		10 PANEL FRONT (SP)
		11 PANEL RIGHT (SP)
		12 PANEL REAR (SP)
		13 FAN PANEL
		14 VALVE PLATE
		15 REAR PILLAR
		16 CONTROL BOX COVER
		17 PANEL MIDDLE (SP)
		18 SERVICE VALVE
		19 SERVICE VALVE
		20 FILTER DRIER
		21 SIGHT GLASS
		22 CHECK VALVE
		23 CONTACTOR
		24 H/L PRESS SWITCH
		25 FUSE
		26 FAN CAPASITOR
		27 COMPRESSOR JACKET
		28 COMPRESSOR JACKET

Series 4 MT – Scroll

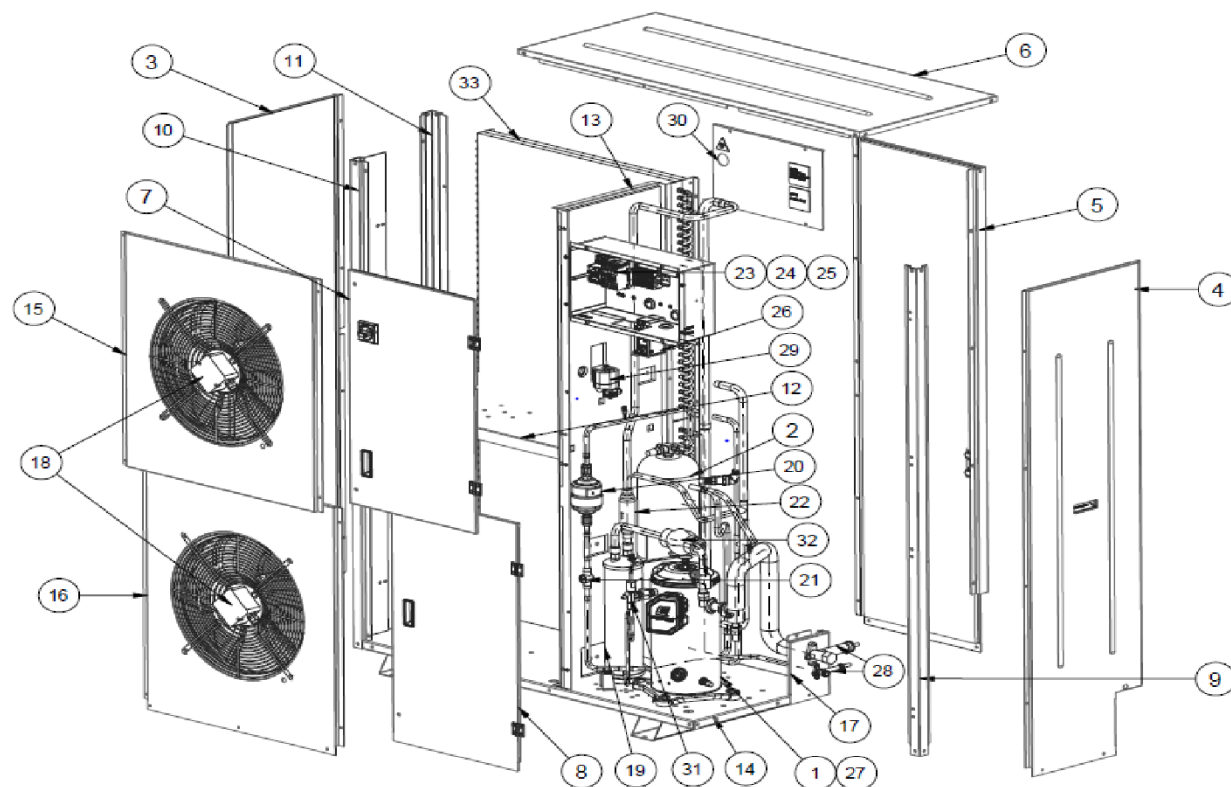
LRMSS0800~1000AXY1



NO.	PARTS NAME
1	COMPRESSOR
2	LIQUID RECEIVER
3	COIL GUARD LEFT
4	FAN
5	CRANKCASE HEATER
6	OIL SEPARATOR
7	CONDENSER
8	BAS PANEL ASSY
9	BASE TOP (SP)
10	BASE FRONT (SP)
11	BASE RIGHT (SP)
12	BASE REAR (SP)
13	FAN PANEL
14	VALVE PANEL
15	REAR PILLAR
16	CONTROL BOX COVER
17	PANEL MIDDLE (SP)
18	SERVICE VALVE
19	SERVICE VALVE
20	FILTER DRIER
21	SIGHT GLASS
22	CHECK VALVE
23	CONTACTOR
24	H/L PRESS SWITCH
25	FUSE
26	FAN CAPASITOR

Series 4 LT - Scroll

LRLSFS0750BXY1



NO.	PARTS NAME
1	COMPRESSOR
2	LIQUID RECEIVER
3	LEFT PANEL
4	PANEL RIGHT (SP)
5	PANEL REAR (SP)
6	PANEL TOP (SP)
7	DOOR PANEL TOP (SP)
8	DOOR PANEL BTM (SP)
9	FRONT RIGHT PILLAR
10	FRONT LEFT PILLAR
11	REAR LEFT PILLAR
12	FAN PARTITION
13	MIDDLE PARTITION (SP)
14	BASE PANEL ASSY
15	FAN PANEL TOP ASSY
16	FAN PANEL BTM ASSY
17	VALVE PLATE
18	FAN
19	OIL SEPARATOR
20	FILTER DRIER
21	SIGHT GLASS
22	CHECK VALVE
23	FUSE
24	CONTACTOR
25	ISOLATOR
26	H/L PRESS SWITCH
27	CRANKCASE HEATER
28	SERVICE VALVE
29	FAN SPEED CONTROLLER
30	CONTROL BOX COVER
31	DTC VALVE
32	THERMOSTAT
33	CONDENSER

Series 4 LT - EVI

LRLVFS0951BXY1

NO.	PARTS NAME
1	COMPRESSOR
2	LIQUID RECEIVER
3	LEFT PANEL
4	PANEL RIGHT (SP)
5	PANEL REAR (SP)
6	PANEL TOP (SP)
7	DOOR PANEL TOP (SP)
8	DOOR PANEL BTM (SP)
9	FRONT RIGHT PILLAR
10	FRONT LEFT PILLAR
11	REAR LEFT PILLAR
12	FAN PARTITION
13	MIDDLE PARTITION (SP)
14	BASE PANEL ASSY
15	FAN PANEL TOP ASSY
16	FAN PANEL BTM ASSY
17	VALVE PLATE
18	FAN
19	OIL SEPARATOR
20	FILTER DRIER
21	SIGHT GLASS
22	CHECK VALVE
23	FUSE
24	CONTACTOR
25	ISOLATOR
26	H/L PRESS SWITCH
27	CRANKCASE HEATER
28	SERVICE VALVE
29	FAN SPEED CONTROLLER
30	CONTROL BOX COVER
31	CURRENT SENSING RELAY
32	TRASFORMER
33	EVI CONTROLLER
34	CONDENSER
35	BRAZE PLATE HEAT EXCHANGER
36	ELECTRONIC EXPANSION VALVE
37	SOLENOID VALVE
38	THERMOSTAT

