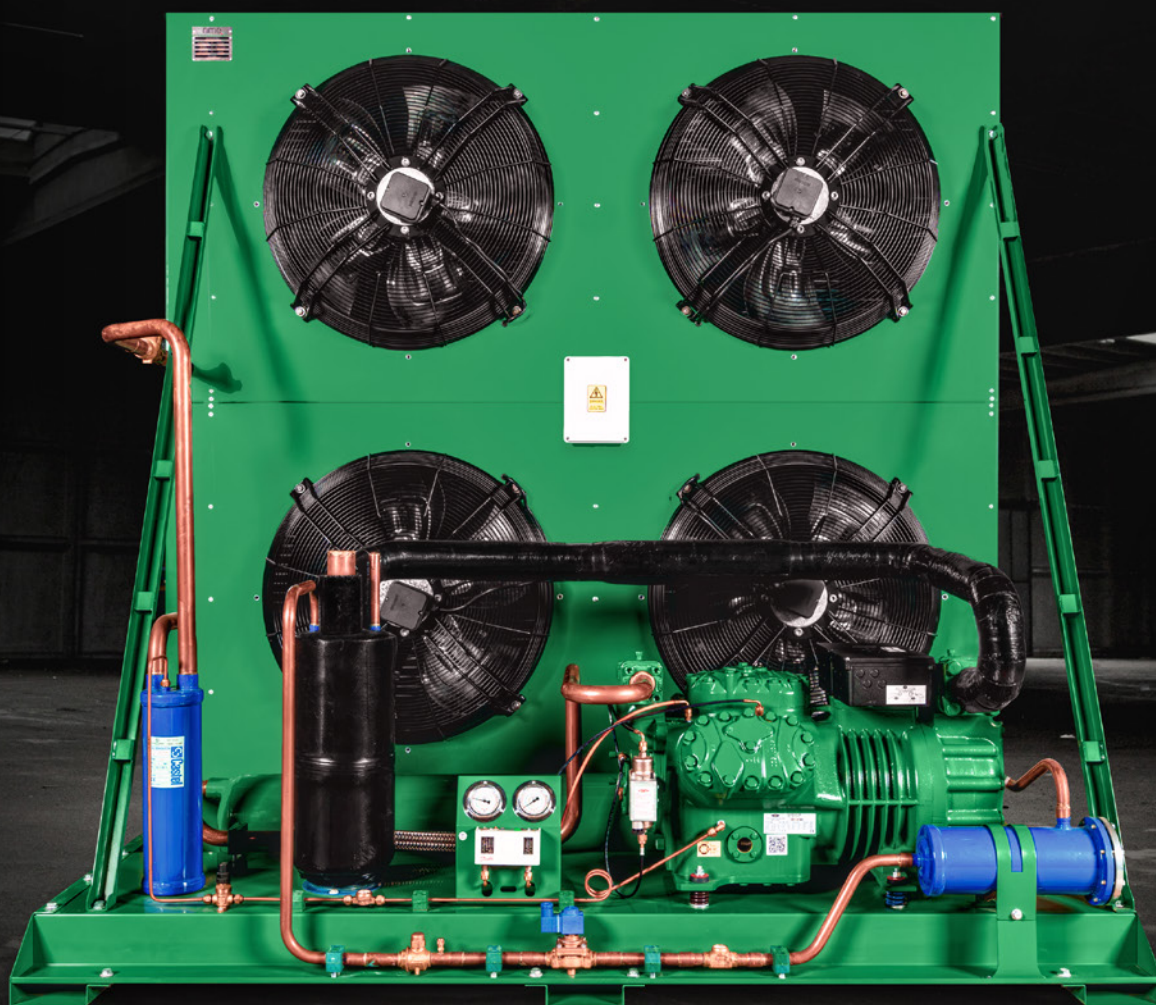


rime.

AIR COOLED CONDENSING UNIT

with BITZER compressor-60 Hz



ENGINEERED & MANUFACTURED BY RIME

CONTENTS

Key Features & Benefits

Page 2

Condensing Unit Standard Part

Page 3

Nomenclature & Application by Temperature

Page 4

Condensing Unit Models

Pages 6-7

Condenser Specifications

Page 8

Dimensions

Page 9

Technical Data

Pages 10-18

Refrigerating Capacity & Compressor Power Input

Pages 20-46

Important information

Pages 48-49

CONTACT

For inquiries, consultations, or to learn more about our innovative refrigeration solutions, please get in touch with us:

sales@rimegroup.com

For customer support email us:

support@rimegroup.com

Company Overview

Rime is a global manufacturer of refrigeration products for the commercial and industrial sectors, offering an extensive range that includes heat exchangers, condensing units, refrigeration racks, and HVAC copper products. Strategically headquartered in the Jebel Ali Free Zone, Dubai, the company leverages its UAE location to ensure efficient distribution, timely deliveries, and industry excellence.

Our Mission

We strive to deliver high-quality, cost-effective refrigeration solutions focusing on advanced manufacturing and assembly. We aim to provide superior products and exceptional service, ensuring a seamless customer experience and ongoing support.

Our Vision

To lead the HVAC and Refrigeration industry from the GCC to the global stage, setting the benchmark for cost-effective and innovative solutions. Through advanced manufacturing and assembly practices, we strive to pioneer cutting-edge technologies that optimize energy efficiency, minimize environmental impact, and make a significant, positive difference worldwide.

Core Values

Responsiveness: We value responsiveness in our interactions with clients, partners, and team members. We prioritize open communication and timely actions to address their needs efficiently.

Integrity: It is at the core of our business. We uphold ethical practices, transparency, and honesty in all our endeavors, building trust and long-lasting relationships with our stakeholders.

Mindfulness: Extends to our workplace culture. We are committed to fostering a supportive and inclusive environment where employees well-being and personal growth are prioritized, ensuring a positive and collaborative work atmosphere.

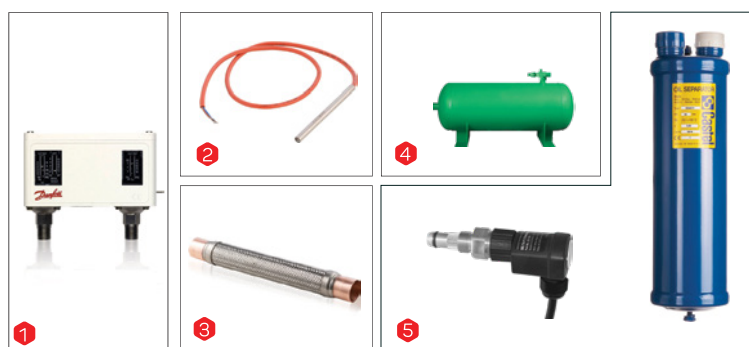
Empowerment: We believe in empowering our team members to foster creativity, growth, and professional development. We encourage collaboration and foster an environment where everyone's ideas and contributions are valued.

Air Cooled Condensing Unit Overview

Our Air Cooled Condensing Units feature state-of-the-art BITZER reciprocating compressors, delivering exceptional cooling performance while maintaining a quiet environment for precise temperature control and whisper-quiet operation. Crafted with unmatched structural strength and precision-engineered using CNC-machined copper piping, RIME's Air Cooled Condensing Units ensure durability and long service life, making them the ultimate choice for your cooling and freezing needs.

KEY FEATURES	BENEFITS
BITZER Compressors: Our units are equipped with reliable BITZER semi-hermetic reciprocating compressors, available in both single- and two-stage configurations.	Temperature Control: Ensures precise and consistent temperature regulation, maintaining optimal conditions for products in both cold storage and production processes.
Wide Temperature Range: Suitable for applications ranging from low-temperature freezing to high ambient conditions.	Exceptional Strength: Engineered with high-quality materials and precision manufacturing, providing a strong and stable structure.
Robust Construction: Designed with a sturdy structure and finished with electrostatic powder coating to ensure enhanced durability and long service life.	Easy Installation: Thoughtfully designed component layout enables quick and hassle-free on-site installation.
Elegant Design: Combines high technical performance with a sleek and cohesive design, featuring a matching color scheme for both the unit body and compressor.	Low Maintenance: High reliability and superior build quality reduce maintenance needs and lower operational costs.
Efficient Cooling: CNC-machined copper piping and 45% silver brazing ensure leak-proof operation and high cooling efficiency.	Quiet Performance: Incorporates vibration absorbers and well-balanced condenser fans to minimize noise levels.
Precision Pipe Work: CNC pipe bending ensures high accuracy, reducing the risk of leakage and minimizing pressure drop.	Reliability: Built for long-term performance with robust components and expert engineering, reducing the risk of breakdowns and operational interruptions.

STANDARD SCOPE OF SUPPLY



1. HP/LP Switch
2. Compressor with crankcase heater
3. Vibration absorber
4. Liquid Receiver
5. Oil pressure switch (Delta PII) and oil separator:
(For medium temperature applications, 30Hp to 60Hp)
(For low temperature applications, 7Hp to 44Hp)

ADDITIONAL COMPONENTS



1. Filter Dryers
2. Solenoid Valve
3. Sight Glass
4. Hand Valve
5. Condenser Head Pressure Control (KP5)
6. Accumulator



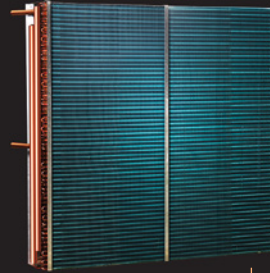
AIR COOLED CONDENSING UNIT

A CLOSER LOOK



FAN

The condensing unit utilizes EBM-papst axial fans, which are engineered for high efficiency and low-decibel operation. These fans feature a detachable guard grille for easy maintenance and are equipped with IP54-rated, F-class insulated electric motors that are balanced and tested prior to installation.



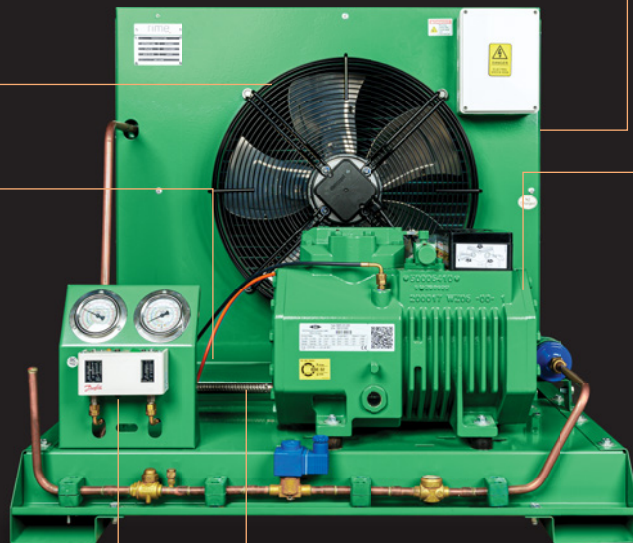
CONDENSER COIL

The condenser coil is constructed with staggered, mechanically expanded copper tubes and fins designed with sine waves. This specific geometry increases the heat transfer coefficient by creating maximum turbulence within the airflow, ensuring optimal heat exchange between the tubes and fin plates.



RECEIVER

All horizontal and vertical receivers are manufactured and tested according to ASME standards at a pressure of 45 bar and include a safety valve. The receiver's storage capacity is specifically selected to match the compressor model and the overall refrigeration requirements of the system.



COMPRESSOR

The system is powered by BITZER semi-hermetic reciprocating compressors, known for being both energy-efficient and eco-friendly. These units are designed to deliver the necessary refrigeration capacity while maintaining minimal energy consumption.



HIGH AND LOW PRESSURE SWITCH

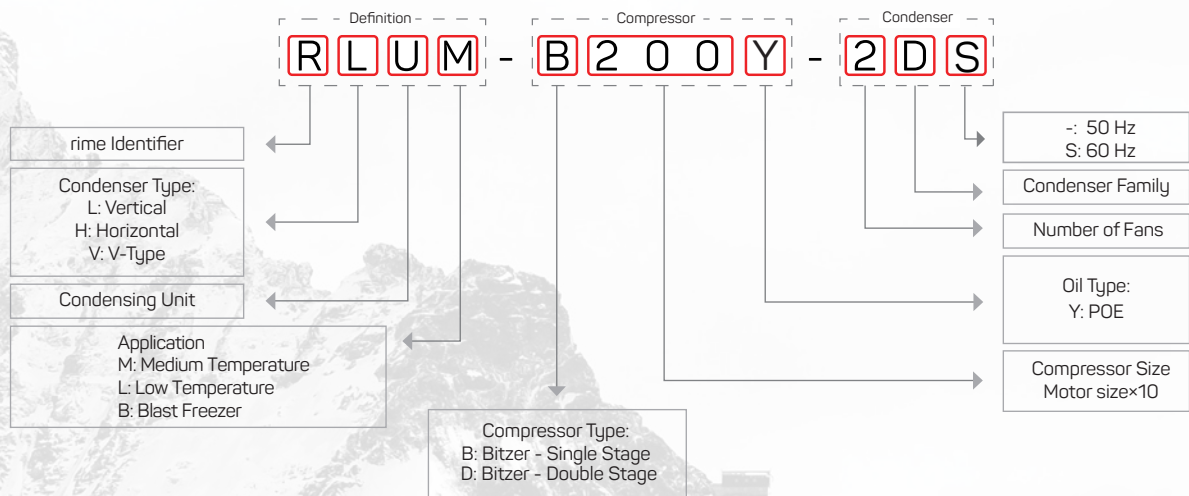
To ensure system safety, Rime condensing units are equipped with KP15 pressure switches. These switches protect the hardware by monitoring for low suction or high discharge pressure, automatically starting or stopping the compressor and fans as needed.



VIBRATION ABSORBER

The unit incorporates Packless vibration absorbers made of deep-pitch corrugated tubing to provide flexibility and dampen mechanical noise. These are installed in the discharge lines to prevent the transmission of compressor-induced vibrations through the rest of the piping system.

NOMENCLATURE



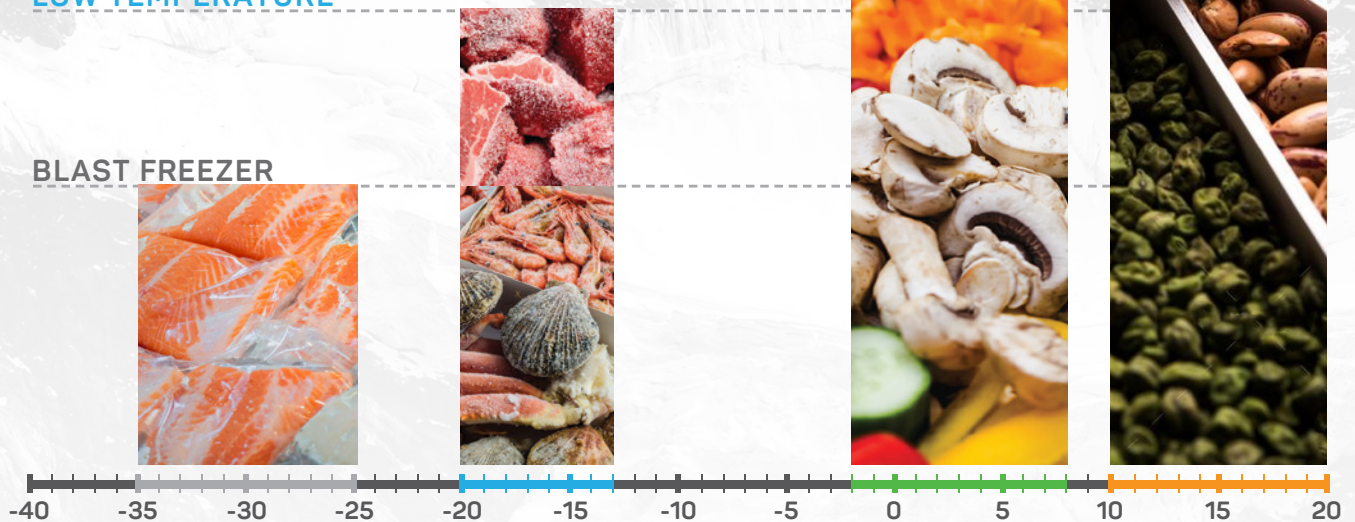
APPLICATION BY TEMPERATURE

HIGH TEMPERATURE

MEDIUM TEMPERATURE

LOW TEMPERATURE

BLAST FREEZER





MODELS

Medium Temperature - R404A

No	MODEL NAME	COMPRESSOR	Q _c (kW)	P _i (kW)
1	RLUM-B005Y-1AS	2KES-05Y-20D	1.8	1.4
2	RLUM-B007Y-1AS	2JES-07Y-20D	2.5	1.8
3	RLUM-B020Y-1BS	2HES-2Y-20D	3.3	2.8
4	RLUM-B021Y-1BS	2GES-2Y-20D	3.8	3.2
5	RLUM-B030Y-1CS	2FES-3Y-20D	4.6	3.7
6	RLUM-B030Y-1DS	2EES-3Y-20D	6.0	4.1
7	RLUM-B030Y-1ES	2DES-3Y-20D	7.0	4.9
8	RLUM-B040Y-1FS	2CES-4Y-20D	8.9	5.9
9	RLUM-B050Y-1FS	4FES-5Y-20D	9.7	6.3
10	RLUM-B060Y-2AS	4EES-6Y-20D	12.1	8.3
11	RLUM-B070Y-2BS	4DES-7Y-20D	14.3	9.8
12	RLUM-B090Y-2CS	4CES-9Y-20D	17.9	11.8
13	RLUM-B100Y-2CS	4VES-10Y-20D	18.4	11.6
14	RLUM-B120Y-2DS	4TES-12Y-20D	22.4	14.5
15	RLUM-B150Y-2DS	4PES-15Y-20D	25.3	15.9
16	RLUM-B200Y-4AS	4NE-20Y-20D	30.6	20.0
17	RLUM-B220Y-4BS	4JE-22Y-20D	34.4	21.8
18	RLUM-B250Y-4BS	4HE-25Y-20D	40.6	25.1
19	RLUM-B300Y-4CS	4GE-30Y-20D	46.6	35.0
20	RLUM-B350Y-4CS	4FE-35Y-20D	56.2	41.1
21	RLUM-B330Y-4CS	6JE-33Y-20D	51.0	36.7
22	RLUM-B350Y-4DS	6HE-35Y-20D	59.8	42.2
23	RLUM-B400Y-4DS	6GE-40Y-20D	68.0	47.2

Q_c (Cooling Capacity) and P_i (Power Input) are based on
T_e = -8°C and T_c = +50°C, with SH = 10 K and SC = 0 K.

Low Temperature - R404A

No	MODEL NAME	COMPRESSOR	Q _c (kW)	P _i (kW)
1	RLUL-B010Y-1AS	2HES-1Y-20D	1.2	1.5
2	RLUL-B020Y-1BS	2FES-2Y-20D	1.9	2.8
3	RLUL-B021Y-1BS	2EES-2Y-20D	2.4	3.0
4	RLUL-B020Y-1CS	2DES-2Y-20D	2.8	3.4
5	RLUL-B030Y-1DS	2CES-3Y-20D	3.7	4.2
6	RLUL-B031Y-1DS	4FES-3Y-20D	4.0	4.5
7	RLUL-B040Y-1FS	4EES-4Y-20D	5.1	5.7
8	RLUL-B050Y-1FS	4DES-5Y-20D	5.9	6.5
9	RLUL-B060Y-2AS	4CES-6Y-20D	7.3	8.2
10	RLUL-B090Y-2AS	4BES-9Y-20D	8.0	8.9
11	RLUL-B070Y-2AS	4VES-7Y-20D	7.1	7.8
12	RLUL-B090Y-2BS	4TES-9Y-20D	8.9	9.8
13	RLUL-B120Y-2BS	4PES-12Y-20D	9.6	10.3
14	RLUL-B140Y-2CS	4NE(S)-14Y-20D	11.9	12.4
15	RLUL-B150Y-2DS	4JE-15Y-20D	14.5	14.9
16	RLUL-B180Y-2DS	4HE-18Y-20D	17.3	16.2
17	RLUL-B230Y-4AS	4GE-23Y-20D	20.5	21.6
18	RLUL-B280Y-4BS	4FE-28Y-20D	24.6	25.1
19	RLUL-B250Y-4BS	6JE-25Y-20D	21.6	22.2
20	RLUL-B281Y-4BS	6HE-28Y-20D	25.5	25.7
21	RLUL-B340Y-4CS	6GE-34Y-20D	31.0	37.7
22	RLUL-B440Y-4DS	6FE-44Y-20D	36.9	42.8

Q_c (Cooling Capacity) and P_i (Power Input) are based on
T_e = -25°C and T_c = +50°C, with SH = 10 K and SC = 0 K.

MODELS

High Temperature - R134A

No	MODEL NAME	COMPRESSOR	Q _c (kW)	P _i (kW)
1	RLUL-B010Y-1AS	2HES-1Y-20D	3.7	1.7
2	RLUL-B020Y-1BS	2FES-2Y-20D	5.1	2.9
3	RLUL-B021Y-1BS	2EES-2Y-20D	6.7	3.3
4	RLUL-B020Y-1CS	2DES-2Y-20D	8.0	3.8
5	RLUL-B030Y-1DS	2CES-3Y-20D	9.9	4.5
6	RLUL-B031Y-1DS	4FES-3Y-20D	10.3	4.6
7	RLUL-B040Y-1FS	4EES-4Y-20D	13.3	6.0
8	RLUL-B050Y-1FS	4DES-5Y-20D	15.7	6.8
9	RLUL-B060Y-2AS	4CES-6Y-20D	19.4	8.7
10	RLUL-B090Y-2AS	4BES-9Y-20D	21.4	9.5
11	RLUL-B070Y-2AS	4VES-7Y-20D	20.3	8.8
12	RLUL-B090Y-2BS	4TES-9Y-20D	24.7	10.7
13	RLUL-B120Y-2BS	4PES-12Y-20D	28.1	11.7
14	RLUL-B140Y-2CS	4NE(S)-14Y-20D	33.2	13.5
15	RLUL-B150Y-2DS	4JE-15Y-20D	38.2	15.8
16	RLUL-B180Y-2DS	4HE-18Y-20D	45.0	18.4
17	RLUL-B230Y-4AS	4GE-23Y-20D	50.2	22.2
18	RLUL-B280Y-4BS	4FE-28Y-20D	62.6	26.9
19	RLUL-B250Y-4BS	6JE-25Y-20D	56.1	23.8
20	RLUL-B281Y-4BS	6HE-28Y-20D	66.5	27.5
21	RLUL-B340Y-4CS	6GE-34Y-20D	75.9	38.3
22	RLUL-B440Y-4DS	6FE-44Y-20D	91.7	43.9

Q_c (Cooling Capacity) and P_i (Power Input) are based on
T_e = +5°C and T_c = +55°C, with SH = 10 K and SC = 0 K.

Blast Freezer - R404A

No	MODEL NAME	COMPRESSOR	Q _c (kW)	P _i (kW)
1	RLUB-D050Y-2AS	S4T-5.2Y-20D	6.5	7.4
2	RLUB-D080Y-2CS	S4N-8.2Y-20D	9.2	10.4
3	RLUB-D120Y-4AS	S4G-12.2Y-20D	14.3	16.6
4	RLUB-D160Y-4BS	S6J-16.2Y-20D	20.0	21.8
5	RLUB-D200Y-4CS	S6H-20.2Y-20D	23.1	31.2
6	RLUB-D250Y-4CS	S6G-25.2Y-20D	26.3	34.3
7	RLUB-D300Y-4DS	S6F-30.2Y-20D	31.0	38.9

Q_c (Cooling Capacity) and P_i (Power Input) are based on
T_e = -35°C and T_c = +50°C, with SH = 10 K and SC = 0 K.

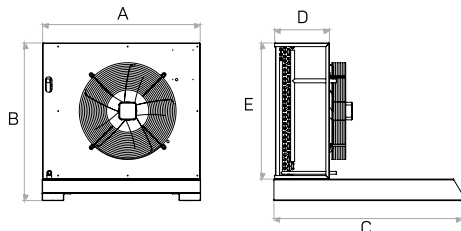
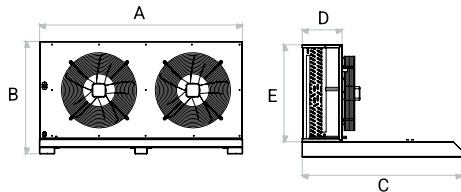
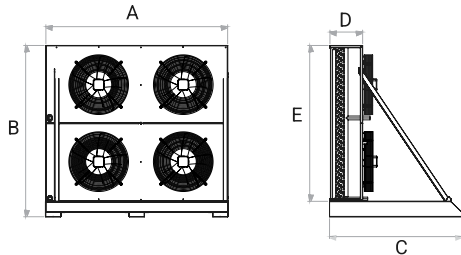
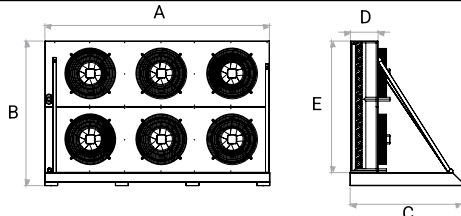
CONDENSER SPECIFICATIONS

Condenser Model	Fan			Electrical		Internal Volume (L)	Heat Transfer Area (m ²)	Header	
	Qty	Diameter (mm)	Air Flow (m ³ /h)*	Supply	Power input for each fan (W)			Inlet (inch)	Outlet (inch)
1AS	1	350	3320	380-400V/3Ph/60Hz	215	1.5	9.5	5/8	1/2
1BS	1	450	7770	380-400V/3Ph/60Hz	795	2.4	10.2	3/4	5/8
1CS	1	450	7770	380-400V/3Ph/60Hz	795	3.4	15.2	3/4	5/8
1DS	1	450	7770	380-400V/3Ph/60Hz	795	4.6	29.5	3/4	5/8
1ES	1	500	10000	380-400V/3Ph/60Hz	1010	5.0	27.2	7/8	5/8
1FS	1	500	10000	380-400V/3Ph/60Hz	1010	6.5	43.1	7/8	5/8
2AS	2	450	15540	380-400V/3Ph/60Hz	795	8.8	59.1	1 1/8	7/8
2BS	2	500	20000	380-400V/3Ph/60Hz	1010	9.6	54.0	1 1/8	7/8
2CS	2	500	20000	380-400V/3Ph/60Hz	1010	12.8	86.0	1 3/8	1 1/8
2DS	2	560	24140	380-400V/3Ph/60Hz	1320	16.2	110.4	1 3/8	1 1/8
4AS	4	500	40000	380-400V/3Ph/60Hz	1010	20.6	108.0	1 5/8	1 3/8
4BS	4	500	40000	380-400V/3Ph/60Hz	1010	26.4	172.0	1 5/8	1 3/8
4CS	4	630	74000	380-400V/3Ph/60Hz	2670	32.1	173.3	1 5/8	1 3/8
4DS	4	630	74000	380-400V/3Ph/60Hz	2670	41.5	273.4	1 5/8	1 3/8
6AS	6	630	111000	380-400V/3Ph/60Hz	2670	45.6	211.5	1 5/8	1 3/8
6BS	6	630	111000	380-400V/3Ph/60Hz	2670	61.8	283.1	2 1/8	1 5/8
6CS	6	630	111000	380-400V/3Ph/60Hz	2670	61.8	410.0	2 1/8	1 5/8

* : Air Flow are defined at 0 pa Back Pressure.



DIMENSIONS

Condenser Model	A	B	C	D	E	Diagram (mm)
1AS	630	710	850	216	590	
1BS	784	810	930	286	690	
1CS						
1DS						
1ES						
1FS	885	880	950	306	760	
2AS	1444	810	1000	306	690	
2BS	1644	920	1075	306	760	
2CS						
2DS	1863	1028	1110	286	862	
4AS	1654	1649	1120	306	1509	
4BS						
4CS	2063	2113	1300	370	1910	
4DS						
6AS	3024	2050	1250	370	1910	
6BS						
6CS						

TECHNICAL DATA

Medium Temperature Application - R404A

PARAMETER	UNIT	UNIT MODEL: RLUM					
		B005Y-1AS	B007Y-1AS	B020Y-1BS	B021Y-1BS	B030Y-1CS	B030Y-1DS
Nominal QC	kW	1.8	2.5	3.3	3.8	4.6	6.0
Nominal Pi	kW	1.4	1.8	2.8	3.2	3.7	4.1
COMPRESSOR							
Model		2KES-05Y-20D	2JES-07Y-20D	2HES-2Y-20D	2GES-2Y-20D	2FES-3Y-20D	2EES-3Y-20D
Number of cylinders		2	2	2	2	2	2
MOC*	A	3.6	4.7	5.7	6.3	7.7	9.5
Max. Input Power	kW	1.8	2.3	2.9	3.3	4.1	4.6
Starting Current	A	16.7	21.0	26.1	26.1	29.6	47.0
Power Supply		360-400V / 3Φ /60Hz					
Motor connection		Y	Y	Y	Y	Y	Y
Motor protection		SE-B3	SE-B3	SE-B3	SE-B3	SE-B3	SE-B3
Crankcase heater	W	60	60	60	60	60	120
Oil charge	Liter	1.0	1.0	1.0	1.0	1.0	1.5
Oil type		BSE32	BSE32	BSE32	BSE32	BSE32	BSE32
Net Weight	kg	46	47	49	49	50	77
CONDENSER FAN							
Quantity		1	1	1	1	1	1
Diameter	mm	350	350	450	450	450	450
MOC*	A	0.4	0.4	1.5	1.5	1.5	1.5
Power Supply		380-400V / 3Φ /60Hz					
MOP**	W	215	215	795	795	795	795
Air Flow at 0 Pa***	m³/h	3320	3320	7770	7770	7770	7770
CONDENSER COIL							
Area	m²	9.5	9.5	10.2	10.2	15.2	29.5
Volume	Liter	1.5	1.5	2.4	2.4	3.4	4.6
LIQUID RECEIVER							
Capacity	Liter	3	3	3	5	5	7
REFRIGERANT PIPING							
Suction Diameter	Inch	5/8	5/8	5/8	5/8	5/8	7/8
	mm	15.9	15.9	15.9	15.9	15.9	22.2
Liquid Diameter	Inch	3/8	3/8	3/8	3/8	3/8	1/2
	mm	9.5	9.5	9.5	9.5	9.5	12.7
Unit weight	kg	100	100	120	120	125	160

*MOC: Maximum Operating Current for each fan.

**MOP: Maximum Operating Power for each fan.

***: Air Flow at 0 Pa for all fans.

TECHNICAL DATA

Medium Temperature Application - R404A

PARAMETER	UNIT	UNIT MODEL: RLUM					
		B030Y-1ES	B040Y-1FS	B050Y-1FS	B060Y-2AS	B070Y-2BS	B090Y-2CS
Nominal QC	kW	7.0	8.9	9.7	12.1	14.3	17.9
Nominal Pi	kW	4.9	5.9	6.3	8.3	9.8	11.8
COMPRESSOR							
Model		2DES-3Y-20D	2CES-4Y-20D	4FES-5Y-20D	4EES-6Y-20D	4DES-7Y-20D	4CES-9Y-20D
Number of cylinders		2	2	4	4	4	4
MOC*	A	10.9	12.7	13.7	17.3	21.0	25.7
Max. Input Power	kW	5.6	6.8	7.0	9.2	10.7	13.6
Starting Current	A	47.0	56.2	79.0	79.0	104.6	104.6
Power Supply		360-400V / 3Φ /60Hz					
Motor connection		Y	Y	Y	Y	Y	Y
Motor protection		SE-B3	SE-B3	SE-B3	SE-B3	SE-B3	SE-B3
Crankcase heater	W	120	120	120	120	120	120
Oil charge	Liter	1.5	1.5	2.0	2.0	2.0	2.0
Oil type		BSE32	BSE32	BSE32	BSE32	BSE32	BSE32
Net Weight	kg	77	76	95	95	100	99
CONDENSER FAN							
Quantity		1	1	1	2	2	2
Diameter	mm	500	500	500	450	500	500
MOC*	A	1.8	1.8	1.8	1.5	1.8	1.8
Power Supply		380-400V / 3Φ /60Hz					
MOP**	W	1010	1010	1010	795	1010	1010
Air Flow at 0 Pa***	m3/h	10000	10000	10000	15540	20000	20000
CONDENSER COIL							
Area	m ²	27.2	43.1	43.1	59.1	54.0	86.0
Volume	Liter	5.0	6.5	6.5	8.8	9.6	12.8
LIQUID RECEIVER							
Capacity	Liter	7	7	7	12	14	20
REFRIGERANT PIPING							
Suction Diameter	Inch	7/8	7/8	7/8	1 1/8	1 1/8	1 1/8
	mm	22.2	22.2	22.2	28.6	28.6	28.6
Liquid Diameter	Inch	1/2	1/2	1/2	1/2	5/8	5/8
	mm	12.7	12.7	12.7	12.7	15.9	15.9
Unit weight	kg	170	175	195	240	270	280

*MOC: Maximum Operating Current for each fan.

**MOP: Maximum Operating Power for each fan.

***: Air Flow at 0 Pa for all fans.

TECHNICAL DATA

Medium Temperature Application - R404A

PARAMETER	UNIT	UNIT MODEL: RLUM					
		B100Y-2CS	B120Y-2DS	B150Y-2DS	B200Y-4AS	B220Y-4BS	B250Y-4BS
Nominal QC	kW	18.4	22.4	25.3	30.6	34.4	40.6
Nominal Pi	kW	11.6	14.5	15.9	20.0	21.8	25.1
COMPRESSOR							
Model		4VES-10Y-20D	4TES-12Y-20D	4PES-15Y-20D	4NE-20Y-20D	4JE-22Y-20D	4HE-25Y-20D
Number of cylinders		4	4	4	4	4	4
MOC*	A	25.3	31.9	35.8	42.2	47.2	55.9
Max. Input Power	kW	14.5	16.9	19.3	22.9	25.3	30.2
Starting Current	A	126	143	168	201	201	268
Power Supply		360-400V / 3Φ /60Hz					
Motor connection		Y	Y	Y	Y	Y	Y
Motor protection		SE-B3	SE-B3	SE-B3	SE-B3	SE-B3	SE-B3
Crankcase heater	W	140	140	140	140	140	140
Oil charge	Liter	2.6	2.6	2.6	2.6	4.0	4.5
Oil type		BSE32	BSE32	BSE32	BSE32	BSE32	BSE32
Net Weight	kg	146	147	153	157	192	207
CONDENSER FAN							
Quantity		2	2	2	4	4	4
Diameter	mm	500	560	560	500	500	500
MOC*	A	1.8	2.5	2.5	1.8	1.8	1.8
Power Supply		380-400V / 3Φ /60Hz					
MOP**	W	1010	1320	1320	1010	1010	1010
Air Flow at 0 Pa	m³/h	20000	23600	23600	40000	40000	40000
CONDENSER COIL							
Area	m²	86	110	110	108	172	172
Volume	Liter	12.8	16.2	16.2	20.6	26.4	26.4
LIQUID RECEIVER							
Capacity	Liter	20	30	30	30	30	40
REFRIGERANT PIPING							
Suction Diameter	Inch	1 1/8	1 3/8	1 5/8	1 5/8	1 5/8	2 1/8
	mm	28.6	34.9	41.3	41.3	41.3	54.0
Liquid Diameter	Inch	5/8	5/8	7/8	7/8	7/8	7/8
	mm	15.9	15.9	22.2	22.2	22.2	22.2
Unit weight	kg	330	390	400	425	485	500

*MOC: Maximum Operating Current for each fan.

**MOP: Maximum Operating Power for each fan.

***: Air Flow at 0 Pa for all fans.

TECHNICAL DATA

Medium Temperature Application - R404A

PARAMETER	UNIT	UNIT MODEL: RLUL				
		B300Y-4CS	B350Y-4CS	B330Y-4CS	B350Y-4DS	B400Y-4DS
Nominal QC	kW	46.6	56.2	51.0	59.8	68.0
Nominal Pi	kW	35.0	41.1	36.7	47.2	47.2
COMPRESSOR						
Model		4GE-30Y-20D	4FE-35Y-20D	6JE-33Y-20D	6HE-35Y-20D	6GE-40Y-20D
Number of cylinders		4	4	6	6	6
MOC*	A	65.0	78.9	67.6	81.8	93.8
Max. Input Power	kW	33.8	42.2	36.2	43.4	50.7
Starting Current	A	296	296	349	349	460
Power Supply		360-400V / 3Φ /60Hz				
Motor connection		Y	Y	Y	Y	Y
Motor protection		SE-B3	SE-B3	SE-B3	SE-B3	SE-B3
Crankcase heater	W	140	140	140	140	140
Oil charge	Liter	4.5	4.5	4.8	4.8	4.8
Oil type		BSE32	BSE32	BSE32	BSE32	BSE32
Net Weight	kg	209	207	244	241	240
CONDENSER FAN						
Quantity		4	4	4	4	4
Diameter	mm	630	630	630	630	630
MOC*	A	4.8	4.8	4.8	4.8	4.8
Power Supply		380-400V / 3Φ /60Hz				
MOP**	W	2670	2670	2670	2670	2670
Air Flow at 0 Pa***	m³/h	74000	74000	74000	74000	74000
CONDENSER COIL						
Area	m²	173.3	173.3	173.3	273.4	273.4
Volume	Liter	32.1	32.1	32.1	41.5	41.5
LIQUID RECEIVER						
Capacity	Liter	40	60	60	60	60
REFRIGERANT PIPING						
Suction Diameter	Inch	2 1/8	2 1/8	2 1/8	2 1/8	2 1/8
	mm	54.0	54.0	54.0	54.0	54.0
Liquid Diameter	Inch	7/8	7/8	7/8	7/8	1 1/8
	mm	22.2	22.2	22.2	22.2	28.6
Unit weight	kg	590	590	625	665	665

*MOC: Maximum Operating Current for each fan.

**MOP: Maximum Operating Power for each fan.

***: Air Flow at 0 Pa for all fans.

TECHNICAL DATA

Low Temperature Application - R404A | High Temperature Application - R134a

PARAMETER	UNIT	UNIT MODEL: RLUL					
		B010Y-1AS	B020Y-1BS	B021Y-1BS	B020Y-1CS	B030Y-1DS	B031Y-1DS
Nominal QC	kW	1.2 (3.7)	1.9 (5.1)	2.4 (6.7)	2.8 (8.0)	3.7 (9.9)	4.0 (10.3)
Nominal Pi	kW	1.5 (1.7)	2.8 (2.9)	3.0 (3.3)	3.4 (3.8)	4.2 (4.5)	4.5 (4.6)
COMPRESSOR							
Model		2HES-1Y	2FES-2Y	2EES-2Y	2DES-2Y	2CES-3Y	4FES-3Y
Number of cylinders		2	2	2	2	2	4
MOC*	A	4.8	6.7	7.6	9.5	11.6	12.1
Max. Input Power	kW	2.4	3.5	4.0	4.8	6.0	6.4
Starting Current	A	19.4	26.1	33.9	39.0	47.0	56.2
Power Supply		360-400V / 3Φ /60Hz					
Motor connection		Y	Y	Y	Y	Y	Y
Motor protection		SE-B3	SE-B3	SE-B3	SE-B3	SE-B3	SE-B3
Crankcase heater	W	60	60	120	120	120	120
Oil charge	Liter	1.0	1.0	1.5	1.5	1.5	2.0
Oil type		BSE32	BSE32	BSE32	BSE32	BSE32	BSE32
Net Weight	kg	47	49	74	73	76	90
CONDENSER FAN							
Quantity		1	1	1	1	1	1
Diameter	mm	350	450	450	450	450	450
MOC*	A	0.4	1.5	1.5	1.5	1.5	1.5
Power Supply		380-400V / 3Φ /60Hz					
MOP**	W	215	795	795	795	795	795
Air Flow at 0 Pa***	m³/h	3320	7770	7770	7770	7770	7770
CONDENSER COIL							
Area	m²	9.5	10.2	10.2	15.2	29.5	29.5
Volume	Liter	1.5	2.4	2.4	3.4	4.6	4.6
LIQUID RECEIVER							
Capacity	Liter	3	5	5	5	5	5
REFRIGERANT PIPING							
Suction Diameter	Inch	5/8	7/8	7/8	7/8	7/8	7/8
	mm	15.9	22.2	22.2	22.2	22.2	22.2
Liquid Diameter	Inch	3/8	3/8	3/8	3/8	3/8	3/8
	mm	9.5	9.5	9.5	9.5	9.5	9.5
Unit weight	kg	100	120	145	150	155	170

*The value in () are related to the unit with gas R134a in high temperature application.

*MOC: Maximum Operating Current for each fan.

**MOP: Maximum Operating Power for each fan.

***: Air Flow at 0 Pa for all fans.

TECHNICAL DATA

Low Temperature Application - R404A | High Temperature Application - R134a

PARAMETER	UNIT	UNIT MODEL: RLUL					
		B040Y-1FS	B050Y-1FS	B060Y-2AS	B090Y-2AS	B070Y-2AS	B090Y-2BS
Nominal QC	kW	5.1 (13.3)	5.9 (15.7)	7.3 (19.4)	8.0 (21.4)	7.1 (20.3)	8.9 (24.7)
Nominal Pi	kW	5.7 (6.0)	6.5 (6.8)	8.2 (8.7)	8.9 (9.5)	7.8 (8.8)	9.8 (10.7)
COMPRESSOR							
Model		4EES-4Y-20D	4DES-5Y-20D	4CES-6Y-20D	4BES-9Y-20D	4VES-7Y-20D	4TES-9Y-20D
Number of cylinders		4	4	4	4	4	4
MOC*	A	15.5	18.4	22.5	22.9	21.1	25.3
Max. Input Power	kW	8.3	9.8	11.7	14.8	13.3	15.7
Starting Current	A	67.9	79.0	104.6	104.6	86.0	103.0
Power Supply		360-400V / 3Φ /60Hz					
Motor connection		Y	Y	Y	Y	Y	Y
Motor protection		SE-B3	SE-B3	SE-B3	SE-B3	SE-B3	SE-B3
Crankcase heater	W	120	120	120	120	140	140
Oil charge	Liter	2.0	2.0	2.0	2.0	2.6	2.6
Oil type		BSE32	BSE32	BSE32	BSE32	BSE32	BSE32
Net Weight	kg	93	94	99	99	139	143
CONDENSER FAN							
Quantity		1	1	2	2	2	2
Diameter	mm	500	500	450	450	450	500
MOC*	A	1.8	1.8	1.5	1.5	1.5	1.8
Power Supply		380-400V / 3Φ /60Hz					
MOP**	W	1010	1010	795	795	795	1010
Air Flow at 0 Pa***	m³/h	10000	10000	15540	15540	15540	20000
CONDENSER COIL							
Area	m²	43.1	43.1	59.1	59.1	59.1	54.0
Volume	Liter	6.5	6.5	8.8	8.8	8.8	9.6
LIQUID RECEIVER							
Capacity	Liter	7	7	12	12	12	14
REFRIGERANT PIPING							
Suction Diameter	Inch	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 3/8
	mm	28.6	28.6	28.6	28.6	28.6	34.9
Liquid Diameter	Inch	1/2	1/2	1/2	1/2	1/2	1/2
	mm	12.7	12.7	12.7	12.7	12.7	12.7
Unit weight	kg	190	195	245	245	285	315

*The value in () are related to the unit with gas R134a in high temperature application.

*MOC: Maximum Operating Current for each fan.

**MOP: Maximum Operating Power for each fan.

***: Air Flow at 0 Pa for all fans.

TECHNICAL DATA

Low Temperature Application - R404A | High Temperature Application - R134a

PARAMETER	UNIT	UNIT MODEL: RLUL				
		B120Y-2BS	B140Y-2CS	B150Y-2DS	B180Y-2DS	B230Y-4AS
Nominal QC	kW	9.6 (28.1)	11.9 (33.2)	14.5 (38.2)	17.3 (45.0)	20.5 (50.2)
Nominal Pi	kW	10.3 (11.7)	12.4 (13.5)	14.9 (15.8)	16.2 (18.4)	21.6 (22.2)
COMPRESSOR						
Model		4PES-12Y-20D	4NE-14Y-20D	4JE-15Y-20D	4HE-18Y-20D	4GE-23Y-20D
Number of cylinders		4	4	4	4	4
MOC*	A	28.8	33.8	39.1	46.6	55.7
Max. Input Power	kW	16.9	20.5	22.9	26.6	32.6
Starting Current	A	126	143	201	201	201
Power Supply		360-400V / 3Φ / 60Hz				
Motor connection		Y	Y	Y	Y	Y
Motor protection		SE-B3	SE-B3	SE-B3	SE-B3	SE-B3
Crankcase heater	W	140	140	140	140	140
Oil charge	Liter	2.6	2.6	4.0	4.0	4.5
Oil type		BSE32	BSE32	BSE32	BSE32	BSE32
Net Weight	kg	145	146	192	191	196
CONDENSER FAN						
Quantity		2	2	2	2	4
Diameter	mm	500	500	560	560	500
MOC*	A	1.8	1.8	2.5	2.5	1.8
Power Supply		380-400V / 3Φ / 60Hz				
MOP**	W	1010	1010	1320	1320	1010
Air Flow at 0 Pa***	m³/h	20000	20000	23600	23600	40000
CONDENSER COIL						
Area	m²	54	86	110	110	108
Volume	Liter	9.6	12.8	16.2	16.2	20.6
LIQUID RECEIVER						
Capacity	Liter	14	20	30	30	30
REFRIGERANT PIPING						
Suction Diameter	Inch	1 3/8	1 3/8	1 5/8	1 5/8	2 1/8
	mm	34.9	34.9	41.3	41.3	54.0
Liquid Diameter	Inch	5/8	5/8	5/8	5/8	7/8
	mm	15.9	15.9	15.9	15.9	22.2
Unit weight	kg	315	365	435	460	465

*The value in () are related to the unit with gas R134a in high temperature application.

*MOC: Maximum Operating Current for each fan.

**MOP: Maximum Operating Power for each fan.

***: Air Flow at 0 Pa for all fans.

TECHNICAL DATA

Low Temperature Application - R404A | High Temperature Application - R134a

PARAMETER	UNIT	UNIT MODEL: RLUL -B				
		B280Y-4BS	B250Y-4BS	B281Y-4BS	B340Y-4CS	B440Y-4DS
Nominal QC	kW	24.6 (62.6)	21.6 (56.1)	25.5 (66.5)	31.0 (75.9)	36.9 (91.7)
Nominal Pi	kW	25.1 (26.9)	22.2 (23.8)	25.7(27.5)	37.7 (38.3)	42.8 (43.9)
COMPRESSOR						
Model		4FE-28Y-20D	6JE-25Y-20D	6HE-28Y-20D	6GE-34Y-20D	6FE-44Y-20D
Number of cylinders		4	6	6	6	6
MOC*	A	67.0	58.9	67.6	83.2	105.7
Max. Input Power	kW	37.4	32.6	39.8	48.3	55.5
Starting Current	A	296	296	296	296	460
Power Supply		360-400V / 3Φ /60Hz				
Motor connection		Y	Y	Y	Y	Y
Motor protection		SE-B3	SE-B3	SE-B3	SE-B3	SE-B3
Crankcase heater	W	140	140	140	140	140
Oil charge	Liter	4.5	4.8	4.8	4.8	4.8
Oil type		BSE32	BSE32	BSE32	BSE32	BSE32
Net Weight	kg	207	234	233	230	244
CONDENSER FAN						
Quantity		4	4	4	4	4
Diameter	mm	500	500	500	560	630
MOC*	A	1.8	1.8	1.8	4.8	4.8
Power Supply		380-400V / 3Φ /60Hz				
MOP**	W	1010	1010	1010	2670	2670
Air Flow at 0 Pa***	m³/h	40000	40000	40000	74000	74000
CONDENSER COIL						
Area	m²	172.0	172.0	172.0	173.3	273.4
Volume	Liter	26.4	26.4	26.4	32.1	41.5
LIQUID RECEIVER						
Capacity	Liter	30	30	30	60	60
REFRIGERANT PIPING						
Suction Diameter	Inch	2 1/8	2 1/8	2 1/8	2 1/8	2 1/8
	mm	54.0	54.0	54.0	54.0	54.0
Liquid Diameter	Inch	7/8	7/8	7/8	7/8	7/8
	mm	22.2	22.2	22.2	22.2	22.2
Unit weight	kg	500	525	525	615	665

*The value in () are related to the unit with gas R134a in high temperature application.

*MOC: Maximum Operating Current for each fan.

**MOP: Maximum Operating Power for each fan.

***: Air Flow at 0 Pa for all fans.

TECHNICAL DATA

Blast Freezer Application - R404A

PARAMETER	UNIT	UNIT MODEL: RLUB-D						
		D050Y-2AS	D080Y-2CS	D120Y-4AS	D160Y-4BS	D200Y-4CS	D250Y-4CS	D300Y-4DS
Nominal QC	kW	6.5	9.2	14.3	20.0	23.1	26.3	31.0
Nominal Pi	kW	7.4	10.4	16.6	21.8	31.2	34.3	38.9
COMPRESSOR								
Model		S4T-5.2Y-20D	S4N-8.2Y-20D	S4G-12.2Y-20D	S6J-16.2Y-20D	S6H-20.2Y-20D	S6G-25.2Y-20D	S6F-30.2Y-20D
Number of cylinders		4	4	4	6	6	6	6
MOC*	A	18.0	22.0	30.5	39.0	44.0	54.5	64.5
Max. Input Power	kW	8.3	11.7	16.7	22.1	26.3	30.8	38.5
Starting Current	A	87.0	103.0	159.0	168.0	201.0	245.5	280.0
Power Supply		360-400V / 3Φ /60Hz						
Motor connection		Y	Y	Y	Y	Y	Y	Y
Motor protection		SE-B2	SE-B2	SE-B2	SE-B2	SE-B2	SE-B2	SE-B2
Crankcase heater	W	100	100	140	140	140	140	140
Oil charge	Liter	3.0	3.0	4.5	4.8	4.8	4.8	4.75
Oil type		BSE32	BSE32	BSE32	BSE32	BSE32	BSE32	BSE32
Net Weight	kg	136	141	180	209	220	233	234
CONDENSER FAN								
Quantity		2	2	4	4	4	4	4
Diameter	mm	450	500	500	500	560	560	630
MOC*	A	1.5	1.8	1.8	1.8	4.8	4.8	4.75
Power Supply		380-400V / 3Φ /60Hz						
MOP**	W	795.0	1010.0	1010.0	1010.0	2670.0	2670.0	2670.0
Air Flow at 0 Pa***	m³/h	15540.0	20000.0	40000.0	40000.0	74000.0	74000.0	74000
CONDENSER COIL								
Area	m²	59.1	86.0	108.0	172.0	173.3	173.3	273.4
Volume	Liter	8.8	12.8	20.6	26.4	32.1	32.1	41.5
LIQUID RECEIVER								
Capacity	Liter	12	20	20	30	40	60	60
REFRIGERANT PIPING								
Suction Diameter	Inch	1 1/8	1 1/8	1 3/8	1 5/8	1 5/8	1 5/8	1 5/8
	mm	28.6	28.6	34.9	41.3	41.3	41.3	41.3
Liquid Diameter	Inch	1/2	1/2	5/8	5/8	7/8	7/8	7/8
	mm	12.7	12.7	15.9	15.9	22.2	22.2	22.2
Unit weight	kg	280	325	450	505	605	620	655

*MOC: Maximum Operating Current for each fan.

**MOP: Maximum Operating Power for each fan.

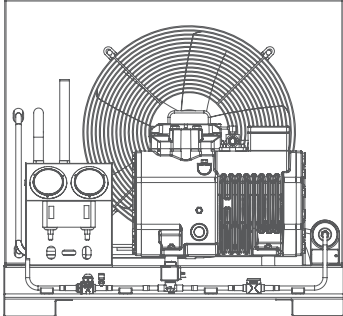
***: Air Flow at 0 Pa for all fans.



RLUM SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Medium Temperature Application | R404A | 60HZ

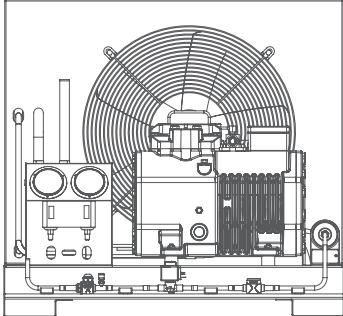
Model	Ta(°C)\Te(°C)	-20	-15	-10	-5	0	5	Diagram
RLUM-B005Y-1AS	Q(kw)	35	1.2	1.6	2.0	2.5	2.9	
		38	1.1	1.5	1.8	2.3	2.8	
		40	1.1	1.4	1.7	2.2	2.7	
		44	1.0	1.2	1.6	2.0	2.4	
		47	0.9	1.1	1.4	1.8	2.2	
		50	0.8	1.0	1.3	1.6	2.0	
	P(kw)	35	0.9	1.0	1.1	1.2	1.3	
		38	0.9	1.0	1.1	1.2	1.3	
		40	0.9	1.0	1.1	1.2	1.3	
		44	0.9	1.0	1.1	1.2	1.3	
		47	0.9	1.0	1.1	1.3	1.4	
		50	0.9	1.0	1.2	1.3	1.4	
RLUM-B007Y-1AS	Q(kw)	35	1.6	2.1	2.5	3.1	3.7	
		38	1.6	1.9	2.4	2.9	3.5	
		40	1.5	1.8	2.3	2.7	3.4	
		44	1.3	1.6	2.0	2.5	3.0	
		47	1.2	1.5	1.9	2.3	2.8	
		50	1.1	1.4	1.7	O.S.	O.S.	
	P(kw)	35	1.2	1.3	1.5	1.6	1.7	
		38	1.2	1.4	1.5	1.6	1.8	
		40	1.2	1.4	1.5	1.7	1.8	
		44	1.2	1.4	1.6	1.7	1.9	
		47	1.2	1.4	1.6	1.8	1.9	
		50	1.3	1.4	1.6	O.S.	O.S.	
RLUM-B020Y-1BS	Q(kw)	35	2.3	2.8	3.5	4.3	5.1	
		38	2.1	2.6	3.2	4.0	4.8	
		40	2.0	2.5	3.1	3.8	4.6	
		44	1.7	2.2	2.8	3.5	4.1	
		47	1.6	2.0	2.5	3.2	3.9	
		50	1.4	1.9	2.4	2.9	O.S.	
	P(kw)	35	1.5	1.7	1.8	2.0	2.2	
		38	1.5	1.7	1.9	2.0	2.2	
		40	1.5	1.7	1.9	2.1	2.3	
		44	1.5	1.7	1.9	2.1	2.3	
		47	1.6	1.8	2.0	2.2	2.4	
		50	1.6	1.8	2.0	2.2	O.S.	

	Out of Scope
	Normal Working Range

RLUM SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Medium Temperature Application | R404A | 60HZ

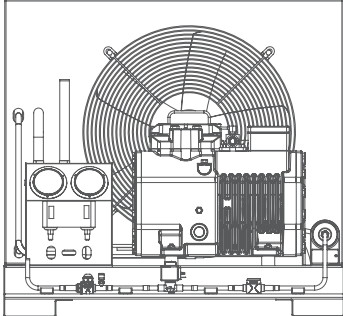
Model	Ta(°C)\Te(°C)	-20	-15	-10	-5	0	5	Diagram
RLUM-B021Y-1BS	Q(kW)	35	2.6	3.1	3.9	4.7	5.7	
		38	2.4	3.0	3.6	4.4	5.3	
		40	2.2	2.8	3.5	4.2	5.0	
		44	2.0	2.5	3.1	3.8	4.6	
		47	1.8	2.3	2.8	3.5	4.2	
		50	1.7	2.1	2.6	O.S.	O.S.	
	P(kW)	35	1.8	2.0	2.2	2.4	2.6	
		38	1.8	2.0	2.2	2.5	2.7	
		40	1.8	2.0	2.3	2.5	2.8	
		44	1.9	2.1	2.4	2.6	2.9	
		47	1.9	2.1	2.4	2.7	2.9	
		50	1.9	2.2	2.5	O.S.	O.S.	
RLUM-B030Y-1CS	Q(kW)	35	3.2	4.0	4.9	5.9	6.9	
		38	2.9	3.7	4.5	5.4	6.6	
		40	2.8	3.5	4.3	5.3	6.2	
		44	2.5	3.2	3.8	4.7	5.7	
		47	2.2	2.9	3.6	4.3	5.2	
		50	2.0	2.6	3.2	4.0	O.S.	
	P(kW)	35	2.2	2.4	2.6	2.9	3.2	
		38	2.2	2.5	2.7	3.0	3.3	
		40	2.2	2.5	2.8	3.1	3.4	
		44	2.3	2.6	2.9	3.2	3.5	
		47	2.3	2.6	2.9	3.3	3.6	
		50	2.3	2.7	3.0	3.4	O.S.	
RLUM-B030Y-1DS	Q(kW)	35	4.1	5.2	6.4	7.6	9.2	
		38	3.9	4.8	5.9	7.3	8.6	
		40	3.7	4.6	5.6	6.9	8.3	
		44	3.2	4.1	5.1	6.3	7.4	
		47	2.9	3.7	4.6	5.7	7.0	
		50	2.7	3.4	4.3	5.1	O.S.	
	P(kW)	35	2.5	2.8	3.0	3.3	3.6	
		38	2.5	2.8	3.1	3.4	3.7	
		40	2.5	2.8	3.1	3.4	3.7	
		44	2.5	2.9	3.2	3.5	3.9	
		47	2.5	2.9	3.2	3.6	3.9	
		50	2.5	2.9	3.3	3.6	O.S.	

	Out of Scope
	Normal Working Range

RLUM SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Medium Temperature Application | R404A | 60HZ

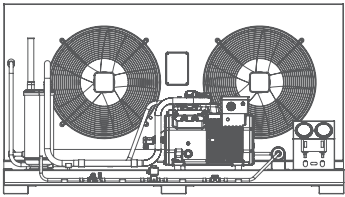
Model	Ta(°C)\Te(°C)	-20	-15	-10	-5	0	5	Diagram
RLUM-B030Y-1ES	Q(kW)	35	4.8	6.0	7.4	8.9	10.7	
		38	4.6	5.6	6.9	8.4	9.9	
		40	4.3	5.4	6.5	8.0	9.4	
		44	3.8	4.8	6.0	7.3	8.6	
		47	3.4	4.3	5.4	6.6	8.1	
		50	3.2	4.0	5.0	6.0	O.S.	
	P(kW)	35	2.9	3.2	3.5	3.9	4.2	
		38	2.9	3.3	3.6	4.0	4.4	
		40	2.9	3.3	3.7	4.0	4.4	
		44	3.0	3.4	3.8	4.1	4.6	
		47	3.0	3.4	3.8	4.2	O.S.	
		50	3.0	3.4	3.8	4.3	O.S.	
RLUM-B040Y-1FS	Q(kW)	35	6.2	7.7	9.3	11.3	13.3	
		38	5.7	7.2	8.8	10.5	12.3	
		40	5.4	6.8	8.4	9.9	12.0	
		44	4.9	6.0	7.4	9.1	10.7	
		47	4.5	5.6	6.9	8.2	O.S.	
		50	4.0	5.0	6.2	7.7	O.S.	
	P(kW)	35	3.7	4.1	4.6	5.0	5.4	
		38	3.7	4.2	4.6	5.1	5.6	
		40	3.8	4.2	4.7	5.2	5.6	
		44	3.8	4.3	4.8	5.3	5.8	
		47	3.9	4.4	4.9	5.4	O.S.	
		50	3.9	4.4	5.0	5.5	O.S.	
RLUM-B050Y-1FS	Q(kW)	35	6.5	8.1	10.0	11.9	14.1	
		38	6.2	7.5	9.2	11.0	13.4	
		40	5.8	7.3	8.7	10.7	12.7	
		44	5.1	6.4	8.0	9.5	O.S.	
		47	4.6	5.8	7.2	8.8	O.S.	
		50	4.3	5.4	6.4	O.S.	O.S.	
	P(kW)	35	4.1	4.5	4.9	5.4	5.8	
		38	4.1	4.6	5.1	5.5	5.9	
		40	4.2	4.6	5.1	5.6	6.0	
		44	4.2	4.7	5.2	5.7	O.S.	
		47	4.3	4.8	5.3	5.8	O.S.	
		50	4.3	4.8	5.4	O.S.	O.S.	

	Out of Scope
	Normal Working Range

RLUM SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Medium Temperature Application | R404A | 60HZ

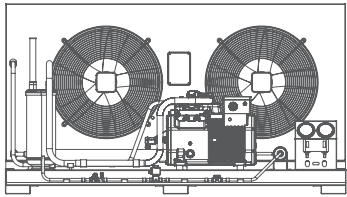
Model	Ta(°C)\Te(°C)	-20	-15	-10	-5	0	5	Diagram
RLUM-B060Y-2AS	Q(kW)	35	8.3	10.4	12.8	15.4	18.7	
		38	7.9	9.6	11.9	14.6	17.4	
		40	7.4	9.3	11.3	13.9	16.5	
		44	6.6	8.3	10.3	12.7	15.1	
		47	6.0	7.5	9.4	11.6	13.8	
		50	5.5	7.0	8.7	10.4	O.S.	
	P(kW)	35	5.0	5.6	6.2	6.8	7.3	
		38	5.1	5.7	6.3	6.9	7.5	
		40	5.1	5.7	6.4	7.0	7.7	
		44	5.2	5.9	6.5	7.2	7.9	
		47	5.3	6.0	6.7	7.3	8.0	
		50	5.3	6.0	6.7	7.5	O.S.	
RLUM-B070Y-2BS	Q(kW)	35	9.8	12.2	15.1	18.1	21.9	
		38	9.3	11.3	14.0	17.2	20.5	
		40	8.8	11.0	13.3	16.4	19.5	
		44	7.9	9.9	12.3	14.7	18.0	
		47	7.1	9.0	11.2	13.8	16.4	
		50	6.4	8.1	10.1	12.5	O.S.	
	P(kW)	35	5.8	6.5	7.1	7.8	8.4	
		38	5.9	6.7	7.3	8.0	8.7	
		40	6.0	6.7	7.5	8.1	8.9	
		44	6.1	6.9	7.6	8.4	9.1	
		47	6.2	7.0	7.8	8.6	9.4	
		50	6.3	7.1	7.9	8.7	O.S.	
RLUM-B090Y-2CS	Q(kW)	35	12.1	15.2	18.4	22.6	26.9	
		38	11.2	14.1	17.5	21.1	25.1	
		40	10.6	13.4	16.7	20.0	24.5	
		44	9.7	12.3	14.9	18.5	22.1	
		47	8.8	11.2	14.0	16.9	20.9	
		50	7.9	10.1	12.7	15.9	O.S.	
	P(kW)	35	7.2	8.1	9.1	9.9	10.8	
		38	7.4	8.3	9.2	10.2	11.2	
		40	7.5	8.4	9.4	10.4	11.3	
		44	7.6	8.6	9.7	10.7	11.8	
		47	7.7	8.7	9.8	10.9	12.0	
		50	7.8	8.9	10.0	11.1	O.S.	

	Out of Scope
	Normal Working Range

RLUM SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Medium Temperature Application | R404A | 60HZ

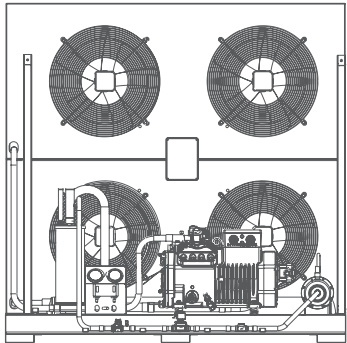
Model	Ta(°C)\Te(°C)	-20	-15	-10	-5	0	5	Diagram
RLUM-B100Y-2CS	Q(kW)	35	12.2	15.5	18.9	22.9	28.1	
		38	11.2	14.3	18.0	21.8	26.1	
		40	10.9	13.5	17.0	20.6	24.8	
		44	9.6	12.3	15.1	18.9	O.S.	
		47	8.7	11.1	14.2	17.2	O.S.	
		50	7.7	10.0	12.7	16.1	O.S.	
	P(kW)	35	6.9	7.8	8.8	9.9	10.8	
		38	7.0	8.0	9.0	10.0	11.1	
		40	7.0	8.1	9.1	10.2	11.3	
		44	7.2	8.2	9.4	10.4	O.S.	
		47	7.2	8.3	9.5	10.7	O.S.	
		50	7.3	8.4	9.6	10.8	O.S.	
RLUM-B120Y-2DS	Q(kW)	35	15.4	18.9	23.6	28.5	34.8	
		38	14.2	18.0	21.9	27.1	32.5	
		40	13.4	17.0	20.8	25.8	30.9	
		44	11.9	15.1	19.1	23.1	28.5	
		47	11.1	13.7	17.4	21.7	O.S.	
		50	10.0	12.8	16.2	19.7	O.S.	
	P(kW)	35	8.5	9.7	10.8	12.0	13.1	
		38	8.6	9.8	11.1	12.3	13.5	
		40	8.7	10.0	11.3	12.5	13.8	
		44	8.9	10.2	11.5	12.9	14.2	
		47	9.0	10.4	11.8	13.2	O.S.	
		50	9.1	10.5	11.9	13.5	O.S.	
RLUM-B150Y-2DS	Q(kW)	35	16.7	21.3	26.1	31.6	38.0	
		38	15.4	19.6	24.1	30.0	36.1	
		40	14.4	18.5	23.4	28.4	34.2	
		44	13.1	16.8	20.7	25.2	O.S.	
		47	11.7	15.2	18.7	23.6	O.S.	
		50	10.4	13.5	17.4	O.S.	O.S.	
	P(kW)	35	9.5	10.8	12.3	13.7	15.2	
		38	9.6	11.0	12.5	14.0	15.5	
		40	9.7	11.2	12.6	14.2	15.8	
		44	9.8	11.3	12.9	14.6	O.S.	
		47	9.9	11.5	13.2	14.8	O.S.	
		50	9.9	11.6	13.3	O.S.	O.S.	

	Out of Scope
	Normal Working Range

RLUM SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Medium Temperature Application | R404A | 60HZ

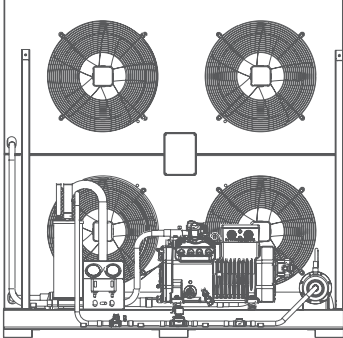
Model	Ta(°C)\Te(°C)	-20	-15	-10	-5	0	5	Diagram
RLUM-B200Y-4AS	Q(kw)	35	20.5	25.8	31.4	38.8	46.4	
		38	18.9	23.9	29.9	36.1	43.2	
		40	18.4	22.6	28.3	34.2	42.1	
		44	16.3	20.7	25.3	31.5	37.8	
		47	14.7	18.8	23.7	28.7	35.6	
		50	13.1	16.8	21.4	26.9	O.S.	
	P(kw)	35	11.6	13.1	14.7	16.2	17.9	
		38	11.8	13.4	15.0	16.7	18.5	
		40	11.8	13.6	15.2	17.0	18.7	
		44	12.1	13.8	15.7	17.5	O.S.	
		47	12.3	14.1	15.9	17.9	O.S.	
		50	12.5	14.3	16.3	O.S.	O.S.	
RLUM-B220Y-4BS	Q(kw)	35	23.2	29.2	36.3	43.5	51.8	
		38	22.0	27.0	33.7	41.5	49.4	
		40	20.8	26.3	31.9	39.4	47.0	
		44	18.4	23.4	29.3	35.3	43.4	
		47	16.6	21.2	26.7	33.2	O.S.	
		50	15.4	19.7	24.0	O.S.	O.S.	
	P(kw)	35	13.0	14.7	16.3	18.1	19.9	
		38	13.2	15.0	16.7	18.4	20.3	
		40	13.3	15.1	16.9	18.7	20.7	
		44	13.5	15.4	17.3	19.3	21.3	
		47	13.6	15.6	17.6	19.6	O.S.	
		50	13.6	15.7	17.8	O.S.	O.S.	
RLUM-B250Y-4BS	Q(kw)	35	27.1	33.9	40.9	50.1	59.4	
		38	25.7	31.3	38.9	46.5	55.2	
		40	24.3	29.7	36.8	44.1	52.3	
		44	21.5	27.1	32.7	40.4	O.S.	
		47	19.4	24.5	30.7	36.8	O.S.	
		50	18.0	22.8	27.6	O.S.	O.S.	
	P(kw)	35	15.7	17.6	19.7	21.6	23.8	
		38	15.9	18.0	20.0	22.2	24.5	
		40	16.0	18.2	20.3	22.6	24.9	
		44	16.3	18.5	20.8	23.1	O.S.	
		47	16.4	18.7	21.0	23.5	O.S.	
		50	16.5	18.9	21.4	O.S.	O.S.	

	Out of Scope
	Normal Working Range

RLUM SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Medium Temperature Application | R404A | 60HZ

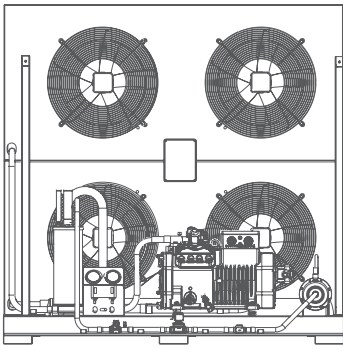
Model	Ta(°C)\Te(°C)	-20	-15	-10	-5	0	5	Diagram
RLUM-B300Y-4CS	Q(kw)	35	32.9	41.0	50.5	60.2	72.8	
		38	30.5	38.1	47.0	57.4	67.9	
		40	28.9	36.1	44.7	54.7	64.7	
		44	26.5	33.2	39.9	49.1	59.8	
		47	24.0	30.2	37.6	46.3	54.8	
		50	21.6	27.2	34.0	42.0	51.5	
	P(kw)	35	17.9	20.1	22.2	24.5	26.6	
		38	18.3	20.5	22.8	25.0	27.4	
		40	18.5	20.8	23.1	25.4	27.9	
		44	18.7	21.1	23.7	26.2	28.7	
		47	18.9	21.5	24.0	26.6	29.3	
		50	19.1	21.7	24.4	27.1	29.7	
RLUM-B350Y-4CS	Q(kw)	35	39.1	48.5	58.0	70.4	82.8	
		38	36.3	45.1	53.9	65.5	77.0	
		40	34.5	42.8	52.5	62.2	75.1	
		44	31.6	38.2	47.0	57.3	67.3	
		47	28.8	35.9	42.8	52.3	63.3	
		50	25.9	32.3	39.9	O.S.	O.S.	
	P(kw)	35	22.5	25.2	28.2	30.9	33.8	
		38	22.9	25.8	28.9	31.7	34.8	
		40	23.2	26.1	29.1	32.3	35.2	
		44	23.5	26.8	29.9	33.1	36.5	
		47	23.8	27.0	30.5	33.8	37.0	
		50	24.0	27.4	30.8	O.S.	O.S.	
RLUM-B330Y-4CS	Q(kw)	35	35.2	43.2	53.7	66.0	78.7	
		38	32.5	41.0	49.9	61.6	73.5	
		40	30.7	38.9	48.6	58.6	70.0	
		44	27.1	34.6	43.5	54.1	64.7	
		47	25.4	32.4	39.6	49.5	59.4	
		50	22.7	29.2	37.1	44.9	O.S.	
	P(kw)	35	19.2	21.7	24.0	26.2	28.6	
		38	19.5	22.0	24.6	27.0	29.5	
		40	19.7	22.2	24.8	27.4	30.0	
		44	19.9	22.7	25.4	28.0	30.8	
		47	20.0	22.9	25.8	28.6	31.5	
		50	20.1	23.1	26.1	29.1	O.S.	

	Out of Scope
	Normal Working Range

RLUM SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Medium Temperature Application | R404A | 60HZ

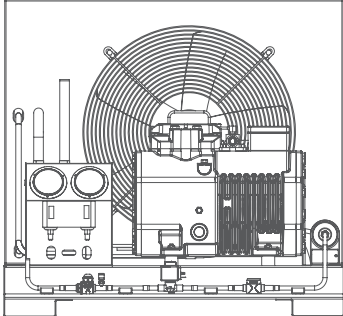
Model	Ta(°C)\Te(°C)	-20	-15	-10	-5	0	5	Diagram
RLUM-B350Y-4DS	Q(kW)	35	41.8	52.2	63.0	77.0	91.3	
		38	38.8	48.6	60.1	71.9	87.3	
		40	36.7	46.1	57.2	68.4	83.2	
		44	32.6	41.1	51.2	63.1	75.0	
		47	30.6	38.6	46.7	57.8	70.9	
		50	27.5	34.9	43.7	54.3	O.S.	
	P(kW)	35	23.3	26.0	28.9	31.5	34.4	
		38	23.7	26.6	29.4	32.5	35.2	
		40	24.0	27.0	29.9	33.1	35.9	
		44	24.5	27.7	30.8	33.9	37.2	
		47	24.7	28.0	31.4	34.7	37.9	
		50	24.9	28.4	31.8	35.2	O.S.	
RLUM-B400Y-4DS	Q(kW)	35	46.9	58.3	70.1	85.5	100.9	
		38	43.4	54.2	66.8	79.5	93.8	
		40	41.1	51.4	63.4	75.5	91.5	
		44	37.6	45.7	56.6	69.4	82.0	
		47	34.1	42.8	53.1	63.2	77.1	
		50	30.5	38.5	47.9	59.1	O.S.	
	P(kW)	35	27.3	30.4	33.8	36.9	40.3	
		38	27.8	31.1	34.4	37.9	41.5	
		40	28.1	31.5	34.9	38.6	41.9	
		44	28.5	32.3	35.9	39.5	43.4	
		47	28.9	32.6	36.4	40.4	44.1	
		50	29.2	33.1	37.0	40.9	O.S.	

	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Low Temperature Application | R404A | 60HZ

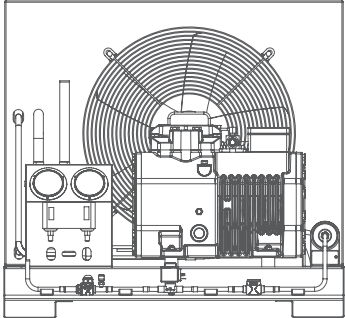
Model	Ta(°C)\Te(°C)	-30	-25	-20	-15	-10	-5	Diagram
RLUL-B010Y-1AS	Q(kw)	35	1.2	1.6	2.0	2.5	3.0	
		38	1.1	1.5	1.8	2.3	2.9	
		40	1.0	1.4	1.7	2.2	2.7	
		44	0.9	1.2	1.5	1.9	2.4	
		47	0.8	1.1	1.4	1.8	2.2	
		50	0.7	0.9	1.3	1.6	O.S.	
	P(kw)	35	1.1	1.3	1.5	1.7	1.9	
		38	1.1	1.3	1.5	1.7	1.9	
		40	1.1	1.3	1.5	1.7	2.0	
		44	1.1	1.3	1.5	1.8	2.0	
		47	1.1	1.3	1.5	1.8	2.0	
		50	1.1	1.3	1.5	1.8	O.S.	
RLUL-B020Y-1BS	Q(kw)	35	1.8	2.4	3.0	3.8	4.6	
		38	1.7	2.2	2.8	3.5	4.3	
		40	1.6	2.1	2.7	3.3	4.1	
		44	1.4	1.8	2.3	3.0	3.6	
		47	1.2	1.7	2.1	2.7	3.4	
		50	1.1	1.5	1.9	2.4	O.S.	
	P(kw)	35	1.7	1.9	2.2	2.5	2.8	
		38	1.7	2.0	2.3	2.5	2.8	
		40	1.7	2.0	2.3	2.6	2.9	
		44	1.7	2.0	2.3	2.7	3.0	
		47	1.8	2.1	2.4	2.7	3.0	
		50	1.8	2.1	2.4	2.8	O.S.	
RLUL-B021Y-1BS	Q(kw)	35	2.3	2.9	3.8	4.6	5.6	
		38	2.1	2.8	3.4	4.2	5.1	
		40	2.0	2.6	3.3	4.1	5.0	
		44	1.7	2.3	2.9	3.5	4.3	
		47	1.5	2.0	2.5	3.3	4.0	
		50	1.4	1.8	2.3	O.S.	O.S.	
	P(kw)	35	1.8	2.2	2.5	2.8	3.2	
		38	1.8	2.2	2.5	2.9	3.2	
		40	1.8	2.2	2.5	2.9	3.2	
		44	1.8	2.2	2.5	2.9	3.3	
		47	1.8	2.2	2.5	2.9	3.3	
		50	1.8	2.1	2.5	O.S.	O.S.	

	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Low Temperature Application | R404A | 60HZ

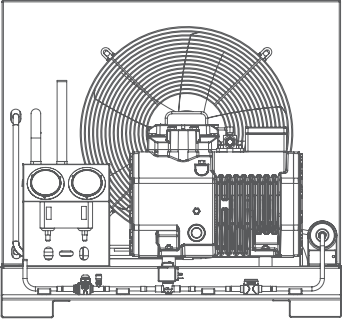
Model	Ta(°C)\Te(°C)	-30	-25	-20	-15	-10	-5	Diagram
RLUL-B020Y-1CS	Q(kw)	35	2.8	3.6	4.6	5.6	6.7	
		38	2.6	3.3	4.2	5.1	6.3	
		40	2.4	3.2	3.9	4.9	6.0	
		44	2.1	2.7	3.5	4.3	O.S.	
		47	1.9	2.4	3.1	4.0	O.S.	
		50	1.6	2.2	2.9	3.5	O.S.	
	P(kw)	35	2.2	2.6	2.9	3.3	3.8	
		38	2.2	2.6	3.0	3.4	3.8	
		40	2.2	2.6	3.0	3.4	3.9	
		44	2.2	2.6	3.0	3.5	O.S.	
		47	2.2	2.6	3.0	3.5	O.S.	
		50	2.2	2.6	3.0	3.5	O.S.	
RLUL-B030Y-1DS	Q(kw)	35	3.6	4.6	5.9	7.1	8.6	
		38	3.4	4.2	5.4	6.6	8.1	
		40	3.2	4.1	5.1	6.4	7.7	
		44	2.7	3.6	4.6	5.6	O.S.	
		47	2.5	3.2	4.1	5.2	O.S.	
		50	2.2	2.9	3.6	4.6	O.S.	
	P(kw)	35	2.9	3.3	3.8	4.3	4.8	
		38	2.9	3.3	3.8	4.3	4.8	
		40	2.9	3.4	3.9	4.4	4.9	
		44	2.9	3.4	3.9	4.5	O.S.	
		47	2.9	3.4	3.9	4.5	O.S.	
		50	2.9	3.4	4.0	4.5	O.S.	
RLUL-B031Y-1DS	Q(kw)	35	3.9	5.0	6.1	7.5	9.0	
		38	3.5	4.6	5.6	7.1	8.5	
		40	3.3	4.3	5.4	6.6	O.S.	
		44	3.0	3.7	4.8	6.0	O.S.	
		47	2.7	3.5	4.4	5.4	O.S.	
		50	2.3	3.0	3.9	O.S.	O.S.	
	P(kw)	35	3.2	3.7	4.2	4.7	5.2	
		38	3.2	3.7	4.2	4.7	5.3	
		40	3.2	3.7	4.3	4.8	O.S.	
		44	3.2	3.8	4.3	4.9	O.S.	
		47	3.2	3.8	4.3	4.9	O.S.	
		50	3.2	3.8	4.4	O.S.	O.S.	

	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Low Temperature Application | R404A | 60HZ

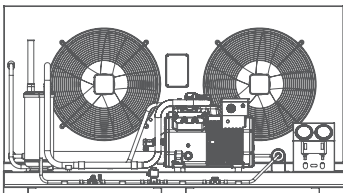
Model	Ta(°C)\Te(°C)	-30	-25	-20	-15	-10	-5	Diagram
RLUL-B040Y-1FS	Q(kW)	35	5.0	6.3	8.0	9.8	11.8	
		38	4.6	5.8	7.4	9.0	10.9	
		40	4.3	5.6	6.9	8.7	10.6	
		44	3.8	4.9	6.3	7.7	O.S.	
		47	3.4	4.4	5.7	6.9	O.S.	
		50	3.1	4.1	5.0	6.4	O.S.	
	P(kW)	35	3.9	4.6	5.2	5.9	6.6	
		38	4.0	4.7	5.3	6.1	6.8	
		40	4.0	4.7	5.4	6.1	6.8	
		44	4.0	4.7	5.5	6.2	O.S.	
		47	4.1	4.8	5.5	6.3	O.S.	
		50	4.1	4.8	5.6	6.4	O.S.	
RLUL-B050Y-1FS	Q(kW)	35	5.7	7.1	8.8	11.0	13.0	
		38	5.2	6.5	8.3	10.1	12.3	
		40	4.9	6.3	7.8	9.6	O.S.	
		44	4.2	5.5	7.1	8.7	O.S.	
		47	3.9	4.9	6.3	7.8	O.S.	
		50	3.5	4.5	5.6	O.S.	O.S.	
	P(kW)	35	4.6	5.3	6.1	6.8	7.7	
		38	4.6	5.4	6.2	7.0	7.8	
		40	4.6	5.4	6.2	7.1	O.S.	
		44	4.7	5.5	6.3	7.2	O.S.	
		47	4.7	5.5	6.4	7.3	O.S.	
		50	4.7	5.6	6.5	O.S.	O.S.	

	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Low Temperature Application | R404A | 60HZ

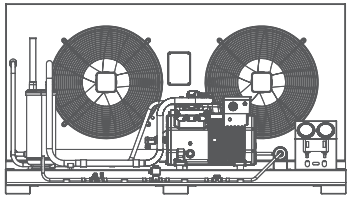
Model		Ta(°C)\Te(°C)	-30	-25	-20	-15	-10	-5	Diagram
RLUL-B060Y-2AS	Q(kW)	35	7.1	9.0	11.5	14.1	17.1	20.6	
		38	6.5	8.5	10.6	13.3	16.2	19.6	
		40	6.1	8.0	10.0	12.6	15.4	18.6	
		44	5.4	7.0	9.1	11.2	14.1	O.S.	
		47	5.0	6.5	8.2	10.5	12.8	O.S.	
		50	4.4	5.8	7.6	9.4	O.S.	O.S.	
	P(kW)	35	5.5	6.4	7.3	8.3	9.3	10.3	
		38	5.6	6.5	7.5	8.4	9.5	10.5	
		40	5.6	6.5	7.5	8.5	9.6	10.7	
		44	5.6	6.6	7.6	8.7	9.8	O.S.	
		47	5.6	6.7	7.7	8.8	10.0	O.S.	
		50	5.7	6.7	7.8	9.0	O.S.	O.S.	
RLUL-B090Y-2AS	Q(kW)	35	7.6	9.9	12.3	15.0	18.3	22.1	
		38	6.9	9.0	11.6	14.2	17.4	21.0	
		40	6.7	8.5	10.9	13.5	16.4	19.9	
		44	5.9	7.7	9.6	12.3	15.0	O.S.	
		47	5.2	6.9	8.9	11.1	13.6	O.S.	
		50	4.6	6.1	8.0	O.S.	O.S.	O.S.	
	P(kW)	35	6.1	7.1	8.2	9.3	10.4	11.6	
		38	6.2	7.2	8.3	9.4	10.6	11.8	
		40	6.2	7.3	8.4	9.5	10.8	12.0	
		44	6.3	7.4	8.5	9.7	11.0	O.S.	
		47	6.3	7.4	8.6	9.9	11.2	O.S.	
		50	6.3	7.5	8.7	O.S.	O.S.	O.S.	
RLUL-B070Y-2AS	Q(kW)	35	6.9	9.1	11.5	14.3	17.5	21.2	
		38	6.3	8.3	10.5	13.5	16.6	19.6	
		40	5.9	7.8	10.2	12.7	15.6	19.1	
		44	5.2	7.0	8.9	11.2	14.3	O.S.	
		47	4.6	6.3	8.0	10.4	12.9	O.S.	
		50	4.0	5.5	7.4	9.3	O.S.	O.S.	
	P(kW)	35	5.1	6.1	7.1	8.2	9.4	10.7	
		38	5.1	6.1	7.2	8.4	9.6	11.0	
		40	5.1	6.2	7.3	8.5	9.7	11.1	
		44	5.2	6.2	7.4	8.7	10.0	O.S.	
		47	5.2	6.3	7.5	8.8	10.2	O.S.	
		50	5.2	6.3	7.6	8.9	O.S.	O.S.	

	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Low Temperature Application | R404A | 60HZ

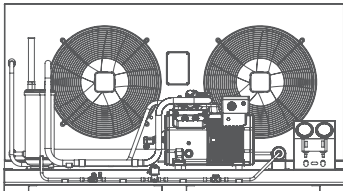
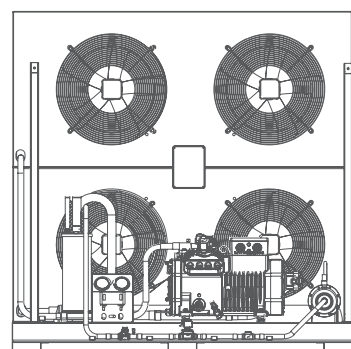
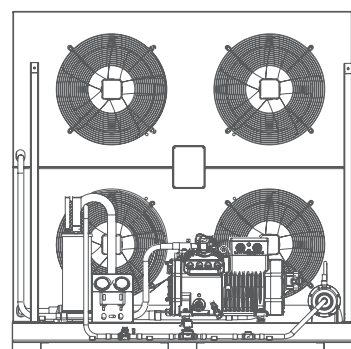
Model	Ta(°C)\Te(°C)	-30	-25	-20	-15	-10	-5	Diagram
RLUL-B090Y-2BS	Q(kw)	35	8.7	11.0	14.2	17.5	21.4	
		38	7.9	10.1	13.0	16.1	19.7	
		40	7.4	9.8	12.2	15.2	18.6	
		44	6.4	8.5	11.1	13.8	16.9	
		47	5.9	7.6	9.9	12.4	15.8	
		50	5.2	7.0	8.8	11.5	O.S.	
	P(kw)	35	6.4	7.6	8.8	10.1	11.5	
		38	6.5	7.7	9.0	10.3	11.8	
		40	6.5	7.7	9.1	10.5	12.0	
		44	6.6	7.8	9.2	10.7	12.3	
		47	6.6	7.9	9.3	10.9	12.4	
		50	6.6	8.0	9.4	O.S.	O.S.	
RLUL-B120Y-2BS	Q(kw)	35	9.2	12.2	15.4	19.2	22.9	
		38	8.3	11.1	14.0	17.5	21.6	
		40	8.0	10.3	13.1	16.4	20.2	
		44	6.8	9.2	11.7	14.7	18.2	
		47	6.0	8.1	10.4	13.6	16.9	
		50	5.4	7.1	9.5	O.S.	O.S.	
	P(kw)	35	6.9	8.3	9.7	11.2	12.8	
		38	6.9	8.3	9.8	11.3	13.0	
		40	6.9	8.3	9.8	11.4	13.1	
		44	6.8	8.3	9.9	11.5	13.3	
		47	6.7	8.3	9.9	11.6	13.3	
		50	6.7	8.2	9.9	O.S.	O.S.	
RLUL-B140Y-2CS	Q(kw)	35	11.5	14.6	18.2	22.5	27.5	
		38	10.4	13.2	17.1	21.2	26.0	
		40	9.7	12.8	16.0	19.9	24.4	
		44	8.6	11.0	14.4	17.9	22.0	
		47	7.6	10.2	12.8	15.9	O.S.	
		50	6.6	8.9	11.7	O.S.	O.S.	
	P(kw)	35	8.7	10.3	12.0	13.8	15.6	
		38	8.7	10.4	12.1	13.9	15.8	
		40	8.7	10.4	12.2	14.0	16.0	
		44	8.7	10.4	12.2	14.2	16.2	
		47	8.6	10.4	12.2	14.2	O.S.	
		50	8.4	10.3	12.2	O.S.	O.S.	

	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Low Temperature Application | R404A | 60HZ

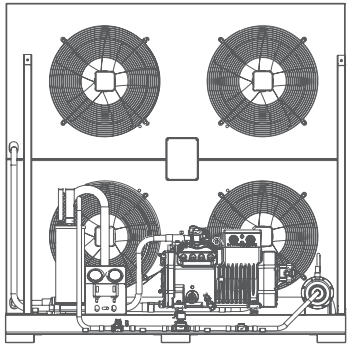
Model	Ta(°C)\Te(°C)	-30	-25	-20	-15	-10	-5	Diagram
RLUL-B150Y-2DS	Q(kW)	35	13.8	17.9	22.2	27.9	33.9	
		38	13.0	16.4	21.0	25.8	31.3	
		40	12.2	15.9	19.8	24.3	29.6	
		44	10.6	13.9	18.0	22.2	O.S.	
		47	9.4	12.5	16.2	20.0	O.S.	
		50	8.6	11.5	14.4	18.6	O.S.	
	P(kW)	35	10.4	12.0	13.8	15.6	17.5	
		38	10.4	12.2	13.9	15.9	17.9	
		40	10.4	12.2	14.1	16.0	18.1	
		44	10.5	12.3	14.2	16.3	O.S.	
		47	10.4	12.4	14.4	16.5	O.S.	
		50	10.4	12.4	14.5	16.6	O.S.	
RLUL-B180Y-2DS	Q(kW)	35	16.0	20.7	25.6	31.2	37.7	
		38	15.1	19.0	23.5	28.7	34.7	
		40	14.2	17.8	22.8	27.8	O.S.	
		44	12.3	16.1	20.0	24.4	O.S.	
		47	11.4	14.4	18.6	22.8	O.S.	
		50	10.1	12.7	16.5	O.S.	O.S.	
	P(kW)	35	12.4	14.4	16.6	18.9	21.3	
		38	12.5	14.6	16.8	19.2	21.7	
		40	12.6	14.7	16.9	19.3	O.S.	
		44	12.6	14.8	17.2	19.7	O.S.	
		47	12.6	14.9	17.3	19.9	O.S.	
		50	12.6	15.0	17.5	O.S.	O.S.	
RLUL-B230Y-4AS	Q(kW)	35	19.6	24.4	30.8	37.3	44.9	
		38	18.0	23.1	28.3	34.4	41.4	
		40	16.9	21.8	26.7	33.4	O.S.	
		44	15.3	19.1	24.3	29.5	O.S.	
		47	13.8	17.8	21.9	27.6	O.S.	
		50	12.2	15.8	19.4	O.S.	O.S.	
	P(kW)	35	14.7	17.1	19.6	22.3	25.2	
		38	14.9	17.3	20.0	22.8	25.8	
		40	15.0	17.5	20.2	22.9	O.S.	
		44	15.1	17.7	20.5	23.5	O.S.	
		47	15.2	17.8	20.7	23.7	O.S.	
		50	15.2	18.0	21.0	O.S.	O.S.	

	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Low Temperature Application | R404A | 60HZ

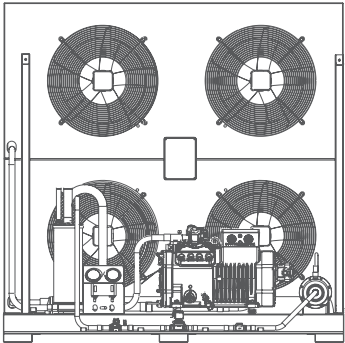
Model	Ta(°C)\Te(°C)	-30	-25	-20	-15	-10	-5	Diagram
RLUL-B280Y-4BS	Q(kw)	35	23.4	29.2	35.7	44.4	53.2	
		38	21.6	26.8	33.8	41.0	49.1	
		40	20.3	26.1	31.9	38.7	46.4	
		44	17.7	22.9	29.1	35.2	42.2	
		47	16.5	20.6	26.2	31.7	39.5	
		50	14.6	19.0	23.3	O.S.	O.S.	
	P(kw)	35	17.7	20.6	23.6	26.6	29.8	
		38	17.8	20.8	23.9	27.2	30.5	
		40	17.9	20.9	24.1	27.5	30.9	
		44	18.0	21.2	24.4	27.9	31.5	
		47	18.0	21.3	24.7	28.3	31.8	
		50	18.0	21.4	24.9	O.S.	O.S.	
RLUL-B250Y-4BS	Q(kw)	35	20.6	26.7	33.1	41.6	50.5	
		38	19.4	24.5	31.3	38.4	46.7	
		40	18.2	23.7	29.5	36.3	44.2	
		44	15.8	20.8	26.8	33.1	40.5	
		47	14.6	18.6	24.2	29.9	38.0	
		50	12.9	17.1	21.5	27.8	O.S.	
	P(kw)	35	15.2	17.8	20.5	23.1	25.8	
		38	15.3	18.0	20.7	23.5	26.4	
		40	15.4	18.0	20.9	23.8	26.8	
		44	15.4	18.2	21.1	24.2	27.3	
		47	15.4	18.3	21.3	24.5	27.6	
		50	15.3	18.3	21.5	24.7	O.S.	
RLUL-B281Y-4BS	Q(kw)	35	23.6	30.5	37.6	45.9	55.5	
		38	22.3	28.0	34.5	43.4	51.1	
		40	20.9	26.3	33.5	41.0	49.6	
		44	18.2	23.7	29.4	36.0	43.8	
		47	16.8	21.2	27.3	33.6	O.S.	
		50	14.8	19.5	24.2	O.S.	O.S.	
	P(kw)	35	18.3	21.3	24.5	27.8	31.3	
		38	18.3	21.5	24.9	28.2	32.0	
		40	18.4	21.7	25.0	28.6	32.2	
		44	18.5	21.9	25.4	29.2	33.1	
		47	18.5	22.0	25.6	29.4	O.S.	
		50	18.5	22.0	25.8	O.S.	O.S.	

	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Low Temperature Application | R404A | 60HZ

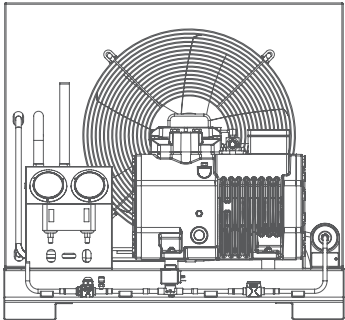
Model	Ta(°C)\Te(°C)	-30	-25	-20	-15	-10	-5	Diagram
RLUL-B340Y-4CS	Q(kW)	35	30.4	38.7	47.2	58.4	69.9	
		38	28.1	35.8	43.7	54.2	64.9	
		40	26.6	33.9	42.5	51.4	61.6	
		44	23.5	30.0	37.8	47.2	56.5	
		47	21.9	27.1	34.3	42.9	51.4	
		50	19.5	25.1	31.9	38.5	O.S.	
	P(kW)	35	22.4	25.8	29.5	33.1	37.1	
		38	22.8	26.3	30.2	34.0	38.2	
		40	23.0	26.6	30.4	34.5	38.9	
		44	23.3	27.2	31.2	35.3	39.9	
		47	23.5	27.5	31.7	36.0	40.8	
		50	23.6	27.7	32.0	36.7	O.S.	
RLUL-B440Y-4DS	Q(kW)	35	36.1	46.1	56.4	70.0	83.8	
		38	33.3	42.6	53.6	64.9	77.7	
		40	31.4	40.3	50.8	61.4	75.7	
		44	28.5	35.6	45.0	56.3	67.5	
		47	25.7	33.2	40.7	51.1	63.4	
		50	22.8	29.6	37.8	45.8	O.S.	
	P(kW)	35	27.1	31.2	35.5	39.7	44.2	
		38	27.4	31.6	35.9	40.5	45.2	
		40	27.5	31.8	36.3	41.0	45.5	
		44	27.6	32.2	36.9	41.7	46.7	
		47	27.7	32.4	37.3	42.3	47.2	
		50	27.7	32.5	37.5	42.8	O.S.	

	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

High Temperature Application | R134A | 60HZ

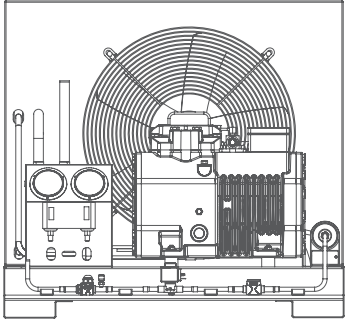
Model	Ta(°C)\Te(°C)	-10	-5	0	5	10	15	Diagram
RLUL-B010Y-1AS	Q(kw)	35	2.2	2.7	3.3	4.0	4.9	
		38	2.1	2.6	3.2	3.9	4.6	
		40	2.0	2.5	3.1	3.8	4.5	
		44	1.9	2.4	2.9	3.6	4.3	
		47	1.7	2.2	2.8	3.4	4.1	
		50	1.7	2.1	2.6	3.2	3.9	
	P(kw)	35	1.0	1.1	1.2	1.3	1.5	
		38	1.1	1.2	1.3	1.4	1.5	
		40	1.1	1.2	1.3	1.4	1.6	
		44	1.1	1.2	1.4	1.5	1.6	
		47	1.1	1.3	1.4	1.5	1.7	
		50	1.1	1.3	1.4	1.6	1.7	
RLUL-B020Y-1BS	Q(kw)	35	3.1	3.9	4.8	5.8	6.9	
		38	3.0	3.7	4.6	5.6	6.7	
		40	2.9	3.6	4.5	5.4	6.4	
		44	2.6	3.3	4.1	5.0	5.9	
		47	2.5	3.1	3.8	4.8	5.7	
		50	2.3	2.9	3.7	4.4	5.3	
	P(kw)	35	1.5	1.6	1.8	2.0	2.2	
		38	1.5	1.7	1.8	2.0	2.2	
		40	1.5	1.7	1.9	2.1	2.3	
		44	1.5	1.7	1.9	2.1	2.4	
		47	1.5	1.7	2.0	2.2	2.4	
		50	1.6	1.8	2.0	2.2	2.5	
RLUL-B021Y-1BS	Q(kw)	35	3.9	4.9	6.0	7.1	8.6	
		38	3.7	4.6	5.7	6.9	8.1	
		40	3.6	4.5	5.5	6.7	8.0	
		44	3.4	4.2	5.2	6.3	7.4	
		47	3.1	4.0	4.9	5.9	7.2	
		50	2.9	3.8	4.7	5.7	6.7	
	P(kw)	35	1.7	1.9	2.1	2.4	2.6	
		38	1.7	1.9	2.2	2.4	2.7	
		40	1.7	1.9	2.2	2.5	2.7	
		44	1.7	2.0	2.3	2.5	2.9	
		47	1.8	2.0	2.3	2.6	2.9	
		50	1.8	2.0	2.3	2.6	3.0	

	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

High Temperature Application | R134A | 60HZ

Model	Ta(°C)\Te(°C)	-10	-5	0	5	10	15	Diagram
RLUL-B020Y-1CS	Q(kw)	35	4.7	5.9	7.3	8.8	10.4	
		38	4.5	5.6	6.9	8.4	10.1	
		40	4.4	5.5	6.7	8.1	9.7	
		44	4.1	5.2	6.3	7.7	9.2	
		47	3.8	4.9	6.0	7.3	8.8	
		50	3.6	4.6	5.6	6.9	8.3	
	P(kw)	35	2.0	2.3	2.5	2.8	3.1	
		38	2.1	2.3	2.6	2.9	3.2	
		40	2.1	2.4	2.7	3.0	3.3	
		44	2.1	2.4	2.7	3.1	3.4	
		47	2.2	2.5	2.8	3.2	3.5	
		50	2.2	2.5	2.9	3.2	3.6	
RLUL-B030Y-1DS	Q(kw)	35	5.9	7.4	9.0	10.8	13.0	
		38	5.6	7.0	8.7	10.5	12.4	
		40	5.5	6.9	8.4	10.2	12.2	
		44	5.1	6.4	7.9	9.5	11.4	
		47	4.9	6.1	7.4	9.2	11.0	
		50	4.6	5.7	7.2	8.7	10.4	
	P(kw)	35	2.5	2.8	3.1	3.4	3.8	
		38	2.5	2.9	3.2	3.5	3.9	
		40	2.6	2.9	3.2	3.6	4.0	
		44	2.6	3.0	3.4	3.8	4.2	
		47	2.7	3.1	3.5	3.8	4.3	
		50	2.7	3.1	3.5	3.9	4.4	
RLUL-B031Y-1DS	Q(kw)	35	6.1	7.6	9.4	11.5	13.6	
		38	5.8	7.2	8.9	10.9	13.1	
		40	5.5	7.0	8.6	10.5	12.7	
		44	5.1	6.5	8.1	9.9	12.0	
		47	4.9	6.1	7.6	9.3	11.3	
		50	4.5	5.7	7.3	8.9	10.8	
	P(kw)	35	2.5	2.9	3.2	3.6	4.0	
		38	2.6	3.0	3.3	3.7	4.1	
		40	2.6	3.0	3.4	3.8	4.2	
		44	2.7	3.0	3.5	3.9	4.3	
		47	2.7	3.1	3.5	4.0	4.4	
		50	2.7	3.1	3.6	4.0	4.5	

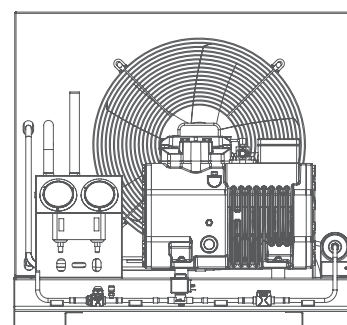
	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

High Temperature Application | R134A | 60HZ

Model	Ta(°C)\Te(°C)	-10	-5	0	5	10	15	Diagram
RLUL-B040Y-1FS	Q(kW)	35	8.1	10.0	12.2	14.7	17.5	O.S.
		38	7.7	9.5	11.8	14.2	17.0	O.S.
		40	7.5	9.4	11.4	13.8	16.5	O.S.
		44	6.9	8.7	10.6	12.8	15.4	O.S.
		47	6.6	8.2	10.2	12.4	14.8	O.S.
		50	6.2	7.7	9.7	11.7	14.0	O.S.
	P(kW)	35	3.3	3.7	4.2	4.6	5.1	O.S.
		38	3.4	3.9	4.3	4.8	5.3	O.S.
		40	3.5	3.9	4.4	4.9	5.4	O.S.
		44	3.6	4.0	4.5	5.1	5.7	O.S.
		47	3.6	4.1	4.6	5.2	5.8	O.S.
		50	3.7	4.2	4.7	5.3	6.0	O.S.
RLUL-B050Y-1FS	Q(kW)	35	9.2	11.5	14.1	16.9	20.3	O.S.
		38	8.7	10.9	13.4	16.3	19.3	O.S.
		40	8.4	10.5	12.9	15.7	18.9	O.S.
		44	7.8	9.9	12.2	14.9	17.6	O.S.
		47	7.4	9.3	11.5	14.0	16.9	O.S.
		50	6.9	8.7	10.8	13.1	15.9	O.S.
	P(kW)	35	3.9	4.4	4.9	5.5	6.1	O.S.
		38	4.0	4.5	5.1	5.7	6.3	O.S.
		40	4.0	4.6	5.2	5.8	6.4	O.S.
		44	4.1	4.7	5.3	5.9	6.7	O.S.
		47	4.1	4.8	5.4	6.1	6.8	O.S.
		50	4.2	4.8	5.5	6.2	6.9	O.S.



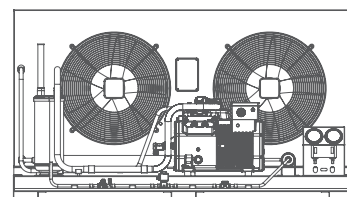
	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

High Temperature Application | R134A | 60HZ

Model	Ta(°C)\Te(°C)	-10	-5	0	5	10	15	Diagram
RLUL-B060Y-2AS	Q(kW)	35	11.7	14.5	18.0	21.8	25.8	O.S.
		38	11.1	14.0	17.2	20.8	24.9	O.S.
		40	10.7	13.5	16.6	20.1	24.1	O.S.
		44	10.1	12.6	15.7	19.1	22.9	O.S.
		47	9.5	11.9	14.9	18.1	21.7	O.S.
		50	9.0	11.4	14.0	17.0	20.5	O.S.
	P(kW)	35	4.8	5.4	5.9	6.5	7.3	O.S.
		38	4.9	5.5	6.1	6.8	7.5	O.S.
		40	5.0	5.6	6.2	6.9	7.6	O.S.
		44	5.1	5.7	6.4	7.1	7.9	O.S.
		47	5.1	5.9	6.6	7.4	8.2	O.S.
		50	5.2	5.9	6.7	7.5	8.4	O.S.
RLUL-B090Y-2AS	Q(kW)	35	12.6	15.9	19.5	23.2	27.9	O.S.
		38	12.2	15.1	18.5	22.5	26.5	O.S.
		40	11.8	14.6	17.9	21.7	26.1	O.S.
		44	10.9	13.6	17.0	20.6	24.3	O.S.
		47	10.3	13.0	16.0	19.5	23.4	O.S.
		50	9.6	12.3	15.1	18.3	22.1	O.S.
	P(kW)	35	5.3	6.0	6.7	7.5	8.2	O.S.
		38	5.4	6.1	6.9	7.6	8.5	O.S.
		40	5.5	6.2	7.0	7.8	8.6	O.S.
		44	5.7	6.4	7.2	8.0	9.0	O.S.
		47	5.8	6.5	7.4	8.2	9.2	O.S.
		50	5.8	6.6	7.5	8.5	9.4	O.S.
RLUL-B070Y-2AS	Q(kW)	35	12.2	15.3	18.8	22.8	27.3	O.S.
		38	11.5	14.4	18.1	21.5	25.8	O.S.
		40	11.0	14.1	17.4	21.1	24.9	O.S.
		44	10.3	13.0	16.1	19.5	23.5	O.S.
		47	9.6	12.2	15.4	18.7	22.5	O.S.
		50	8.9	11.6	14.4	17.6	21.1	O.S.
	P(kW)	35	4.7	5.4	6.1	6.8	7.4	O.S.
		38	4.8	5.6	6.2	7.0	7.7	O.S.
		40	4.9	5.6	6.3	7.1	7.9	O.S.
		44	5.0	5.7	6.5	7.3	8.1	O.S.
		47	5.0	5.8	6.6	7.5	8.3	O.S.
		50	5.1	5.9	6.7	7.6	8.5	O.S.



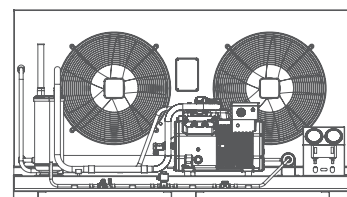
	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

High Temperature Application | R134A | 60HZ

Model	Ta(°C)\Te(°C)	-10	-5	0	5	10	15	Diagram
RLUL-B090Y-2BS	Q(kW)	35	14.6	18.6	22.7	27.5	32.3	O.S.
		38	14.1	17.6	21.5	26.1	31.2	O.S.
		40	13.5	16.9	20.8	25.1	30.1	O.S.
		44	12.4	15.9	19.6	23.7	28.4	O.S.
		47	11.6	14.9	18.4	22.3	26.8	O.S.
		50	11.1	13.9	17.2	21.4	25.1	O.S.
	P(kW)	35	5.8	6.6	7.4	8.2	9.1	O.S.
		38	5.9	6.7	7.6	8.5	9.3	O.S.
		40	6.0	6.8	7.7	8.6	9.5	O.S.
		44	6.1	7.0	7.9	8.9	9.8	O.S.
		47	6.2	7.1	8.1	9.1	10.1	O.S.
		50	6.2	7.2	8.3	9.3	10.4	O.S.
RLUL-B120Y-2BS	Q(kW)	35	16.4	20.6	24.9	30.3	35.7	O.S.
		38	15.5	19.4	24.0	28.6	34.4	O.S.
		40	14.8	18.6	23.0	28.0	33.0	O.S.
		44	13.8	17.4	21.6	25.8	31.1	O.S.
		47	12.8	16.3	20.2	24.7	29.7	O.S.
		50	11.9	15.1	18.8	23.0	27.8	O.S.
	P(kW)	35	6.5	7.4	8.4	9.3	10.4	O.S.
		38	6.6	7.5	8.5	9.6	10.6	O.S.
		40	6.6	7.6	8.6	9.7	10.8	O.S.
		44	6.7	7.7	8.8	10.0	11.1	O.S.
		47	6.7	7.8	9.0	10.1	11.3	O.S.
		50	6.8	7.9	9.1	10.3	11.5	O.S.
RLUL-B140Y-2CS	Q(kW)	35	19.3	24.1	29.6	35.8	42.1	O.S.
		38	18.5	23.2	28.5	33.9	40.6	O.S.
		40	17.8	22.2	27.4	33.2	39.1	O.S.
		44	16.2	20.4	25.2	30.7	36.8	O.S.
		47	15.5	19.5	24.2	29.4	34.6	O.S.
		50	14.4	18.2	22.6	27.5	33.1	O.S.
	P(kW)	35	7.8	8.9	10.0	11.1	12.3	O.S.
		38	7.9	9.0	10.1	11.4	12.6	O.S.
		40	8.0	9.1	10.3	11.5	12.9	O.S.
		44	8.1	9.3	10.6	11.9	13.3	O.S.
		47	8.1	9.4	10.7	12.1	13.6	O.S.
		50	8.2	9.5	10.9	12.4	13.9	O.S.

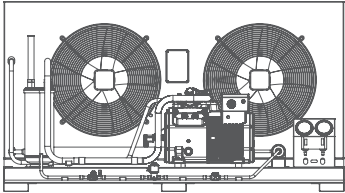
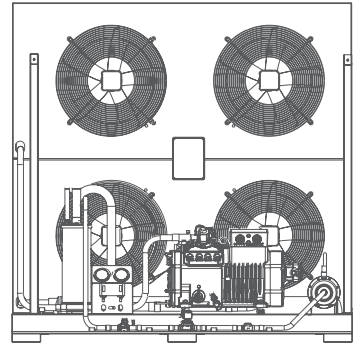
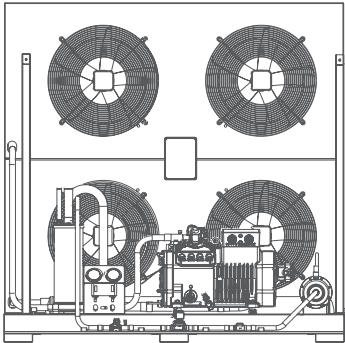


	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

High Temperature Application | R134A | 60HZ

Model	Ta(°C)\Te(°C)	-10	-5	0	5	10	15	Diagram
RLUL-B150Y-2DS	Q(kW)	35	22.8	28.7	35.0	42.1	50.3	
		38	22.0	27.3	33.3	40.2	48.0	
		40	21.2	26.3	32.2	38.9	46.4	
		44	19.7	24.9	30.5	36.9	44.1	
		47	18.5	23.5	28.8	34.9	41.8	
		50	17.7	22.1	27.2	33.6	40.3	
	P(kW)	35	9.1	10.1	11.2	12.3	13.4	
		38	9.3	10.4	11.6	12.8	13.9	
		40	9.4	10.6	11.8	13.1	14.3	
		44	9.7	10.9	12.2	13.5	14.7	
		47	9.9	11.1	12.5	13.8	15.2	
		50	10.0	11.4	12.8	14.1	15.5	
RLUL-B180Y-2DS	Q(kW)	35	26.7	32.9	40.1	48.2	56.5	
		38	25.3	31.3	38.1	45.8	54.7	
		40	24.9	30.7	37.4	44.3	52.8	
		44	23.1	28.5	34.8	41.9	50.1	
		47	21.7	26.8	33.4	39.6	47.3	
		50	20.3	25.7	31.5	38.0	45.5	
	P(kW)	35	10.8	12.2	13.6	15.1	16.7	
		38	11.1	12.6	14.1	15.6	17.1	
		40	11.2	12.7	14.2	15.9	17.5	
		44	11.5	13.1	14.7	16.3	18.0	
		47	11.7	13.4	14.9	16.8	18.5	
		50	11.9	13.5	15.3	17.0	18.8	
RLUL-B230Y-4AS	Q(kW)	35	30.4	37.5	45.6	54.9	65.5	
		38	28.7	36.1	44.0	53.0	62.2	
		40	28.1	34.8	42.4	51.2	61.1	
		44	25.9	32.1	39.2	47.4	56.8	
		47	24.2	30.7	37.6	45.5	54.6	
		50	22.5	28.7	35.2	42.7	51.3	
	P(kW)	35	12.2	13.8	15.5	17.3	19.0	
		38	12.5	14.1	15.8	17.6	19.7	
		40	12.5	14.3	16.1	18.0	19.9	
		44	12.9	14.7	16.7	18.6	20.7	
		47	13.1	14.9	16.9	18.9	21.0	
		50	13.2	15.2	17.2	19.4	21.5	

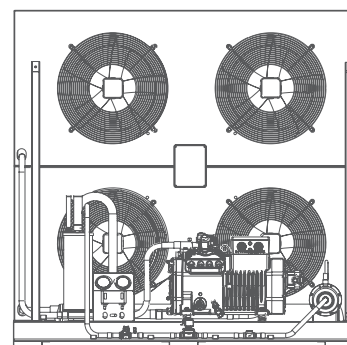
	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

High Temperature Application | R134A | 60HZ

Model	Ta(°C)\Te(°C)	-10	-5	0	5	10	15	Diagram
RLUL-B280Y-4BS	Q(kW)	35	37.7	46.3	56.3	67.7	79.5	O.S.
		38	35.9	44.2	53.7	64.6	77.1	O.S.
		40	34.8	42.8	52.0	62.6	74.7	O.S.
		44	32.4	40.6	49.4	59.5	69.9	O.S.
		47	31.2	38.5	46.8	56.5	67.5	O.S.
		50	29.4	36.3	44.2	53.4	63.8	O.S.
	P(kW)	35	15.2	17.3	19.4	21.7	24.2	O.S.
		38	15.6	17.8	20.0	22.4	24.8	O.S.
		40	15.8	18.1	20.4	22.9	25.3	O.S.
		44	16.2	18.5	21.0	23.5	26.4	O.S.
		47	16.4	18.9	21.5	24.2	26.9	O.S.
		50	16.7	19.3	22.0	24.7	27.6	O.S.
RLUL-B250Y-4BS	Q(kW)	35	34.0	42.1	51.5	62.3	74.5	O.S.
		38	32.2	39.9	48.9	59.2	70.9	O.S.
		40	30.9	38.5	48.0	58.2	68.5	O.S.
		44	28.5	36.3	44.6	54.1	64.9	O.S.
		47	27.3	34.1	42.0	51.0	61.4	O.S.
		50	25.5	32.0	40.3	49.0	59.0	O.S.
	P(kW)	35	13.2	15.0	16.8	18.6	20.4	O.S.
		38	13.5	15.4	17.3	19.2	21.1	O.S.
		40	13.7	15.6	17.4	19.4	21.6	O.S.
		44	14.0	15.9	18.0	20.1	22.2	O.S.
		47	14.1	16.2	18.3	20.6	22.8	O.S.
		50	14.2	16.4	18.5	20.8	23.2	O.S.
RLUL-B281Y-4BS	Q(kW)	35	39.1	48.3	58.9	71.2	83.7	O.S.
		38	37.7	46.7	57.0	67.7	80.9	O.S.
		40	36.3	45.0	55.0	66.5	78.2	O.S.
		44	33.6	41.7	51.1	61.8	74.1	O.S.
		47	31.5	40.0	49.1	58.3	69.9	O.S.
		50	30.2	37.6	46.1	55.9	67.2	O.S.
	P(kW)	35	16.0	18.1	20.3	22.6	25.1	O.S.
		38	16.2	18.5	20.7	23.3	25.7	O.S.
		40	16.5	18.8	21.1	23.5	26.3	O.S.
		44	16.8	19.3	21.8	24.4	27.1	O.S.
		47	17.1	19.5	22.1	25.0	27.8	O.S.
		50	17.2	19.8	22.6	25.4	28.3	O.S.

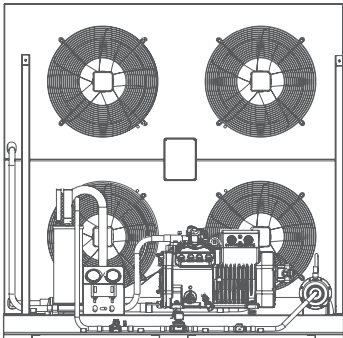


	Out of Scope
	Normal Working Range

RLUL SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

High Temperature Application | R134A | 60HZ

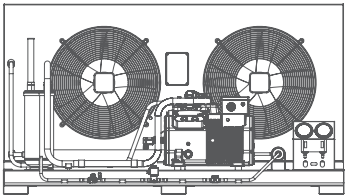
Model	Ta(°C)\Te(°C)	-10	-5	0	5	10	15	Diagram
RLUL-B340Y-4CS	Q(kW)	35	46.7	58.4	70.9	85.3	101.5	
		38	45.1	55.6	67.6	82.6	98.4	
		40	43.6	53.7	66.4	79.9	95.2	
		44	40.5	50.9	62.0	74.6	88.9	
		47	38.2	48.1	58.6	71.9	85.8	
		50	35.9	45.3	56.4	67.9	81.1	
	P(kW)	35	18.4	20.6	23.1	25.6	28.1	
		38	18.7	21.2	23.8	26.2	28.9	
		40	19.0	21.6	24.1	26.8	29.5	
		44	19.5	22.1	24.9	27.8	30.8	
		47	19.8	22.6	25.5	28.3	31.4	
		50	20.1	23.0	25.9	29.0	32.2	
RLUL-B440Y-4DS	Q(kW)	35	56.5	70.5	85.6	104.4	124.1	
		38	54.7	67.2	82.9	99.6	118.5	
		40	52.8	65.0	80.3	96.4	114.8	
		44	49.2	61.7	74.9	90.1	109.2	
		47	46.4	58.3	71.0	86.9	103.6	
		50	43.7	55.0	68.3	82.2	98.0	
	P(kW)	35	22.5	25.1	27.9	30.5	33.3	
		38	22.9	25.8	28.6	31.6	34.6	
		40	23.3	26.3	29.1	32.2	35.4	
		44	23.9	26.9	30.2	33.5	36.5	
		47	24.4	27.5	30.9	34.1	37.6	
		50	24.8	28.0	31.4	34.9	38.5	

	Out of Scope
	Normal Working Range

RLUB SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Blast Freezer Application | R404A | 60HZ

Model	Ta(°C)\Te(°C)	-45	-40	-35	-30	-25	-20	Diagram
RLUB-D050Y-2AS	Q(kW)	35	4.4	5.5	6.8	8.3	10.1	
		38	4.3	5.4	6.7	8.2	9.9	
		40	4.2	5.4	6.6	8.1	9.8	
		44	4.1	5.2	6.5	8.0	9.7	
		47	4.0	5.1	6.4	O.S.	O.S.	
		50	O.S.	O.S.	O.S.	O.S.	O.S.	
	P(kW)	35	4.2	4.8	5.3	5.8	6.4	
		38	4.4	4.9	5.5	6.0	6.6	
		40	4.4	5.0	5.6	6.2	6.8	
		44	4.6	5.2	5.8	6.4	7.1	
		47	4.8	5.4	6.0	O.S.	O.S.	
		50	O.S.	O.S.	O.S.	O.S.	O.S.	
RLUB-D080Y-2CS	Q(kW)	35	6.2	7.8	9.7	11.8	14.2	
		38	6.1	7.7	9.5	11.6	14.0	
		40	6.0	7.6	9.4	11.5	13.9	
		44	5.9	7.4	9.2	11.3	13.6	
		47	5.7	7.3	9.0	O.S.	O.S.	
		50	O.S.	O.S.	O.S.	O.S.	O.S.	
	P(kW)	35	6.1	6.8	7.6	8.4	9.1	
		38	6.3	7.0	7.8	8.6	9.4	
		40	6.4	7.2	8.0	8.8	9.7	
		44	6.7	7.5	8.3	9.2	10.1	
		47	6.9	7.7	8.6	O.S.	O.S.	
		50	O.S.	O.S.	O.S.	O.S.	O.S.	

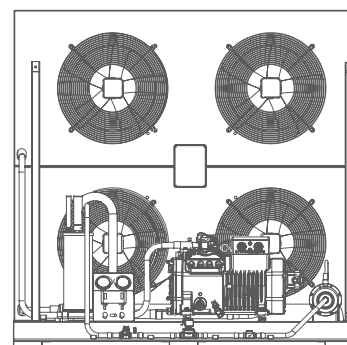
	Out of Scope
	Normal Working Range

RLUB SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Blast Freezer Application | R404A | 60HZ

Model	Ta(°C)\Te(°C)	-45	-40	-35	-30	-25	-20	Diagram
RLUB-D120Y-4AS	Q(kW)	35	10.1	12.6	15.3	18.3	21.5	O.S.
		38	9.9	12.3	15.0	17.9	21.1	O.S.
		40	9.8	12.1	14.8	17.7	20.9	O.S.
		44	9.5	11.8	14.4	17.2	20.5	O.S.
		47	9.3	11.5	14.1	O.S.	O.S.	O.S.
		50	O.S.	O.S.	O.S.	O.S.	O.S.	O.S.
	P(kW)	35	9.1	10.3	11.4	12.5	13.6	O.S.
		38	9.4	10.6	11.8	13.0	14.1	O.S.
		40	9.6	10.8	12.1	13.3	14.4	O.S.
		44	10.0	11.3	12.6	13.9	15.0	O.S.
		47	10.3	11.6	13.0	O.S.	O.S.	O.S.
		50	O.S.	O.S.	O.S.	O.S.	O.S.	O.S.
RLUB-D160Y-4AS	Q(kW)	35	14.1	17.4	21.1	25.1	29.5	O.S.
		38	13.8	17.1	20.7	24.7	29.1	O.S.
		40	13.6	16.8	20.4	24.4	28.8	O.S.
		44	13.3	16.4	20.0	23.9	28.2	O.S.
		47	13.1	16.1	O.S.	O.S.	O.S.	O.S.
		50	O.S.	O.S.	O.S.	O.S.	O.S.	O.S.
	P(kW)	35	12.8	14.5	16.3	18.2	20.1	O.S.
		38	13.3	15.0	16.9	18.8	20.8	O.S.
		40	13.6	15.3	17.2	19.2	21.2	O.S.
		44	14.1	16.0	17.9	20.0	22.1	O.S.
		47	14.5	16.4	O.S.	O.S.	O.S.	O.S.
		50	O.S.	O.S.	O.S.	O.S.	O.S.	O.S.
RLUB-D200Y-4CS	Q(kW)	35	16.4	20.2	24.6	29.3	34.3	O.S.
		38	16.1	19.8	24.1	28.8	33.8	O.S.
		40	15.8	19.5	23.8	28.4	33.5	O.S.
		44	15.4	19.0	23.2	27.8	32.8	O.S.
		47	15.1	18.7	22.8	27.3	O.S.	O.S.
		50	O.S.	O.S.	O.S.	O.S.	O.S.	O.S.
	P(kW)	35	14.7	16.7	18.5	20.6	22.8	O.S.
		38	15.2	17.2	19.1	21.3	23.6	O.S.
		40	15.5	17.6	19.5	21.8	24.1	O.S.
		44	16.2	18.3	20.3	22.7	25.1	O.S.
		47	16.6	18.8	20.9	23.3	O.S.	O.S.
		50	O.S.	O.S.	O.S.	O.S.	O.S.	O.S.



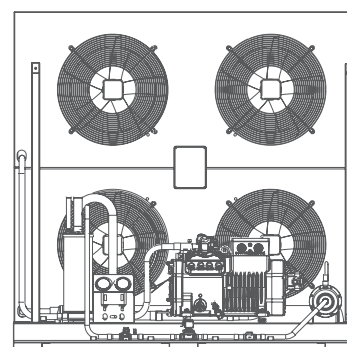
	Out of Scope
	Normal Working Range

RLUB SERIES

Refrigerating Capacity (Q) And Compressor Power Input (P) with SH = 10 K and SC = 0 K

Blast Freezer Application | R404A | 60HZ

Model	Ta(°C)\Te(°C)	-45	-40	-35	-30	-25	-20	Diagram
RLUB-D250Y-4CS	Q(kW)	35	18.8	23.1	27.9	33.1	38.9	O.S.
		38	18.4	22.6	27.4	32.6	38.3	O.S.
		40	18.1	22.3	27.0	32.2	37.9	O.S.
		44	17.6	21.7	26.3	31.5	37.1	O.S.
		47	17.3	21.3	25.9	O.S.	O.S.	O.S.
		50	O.S.	O.S.	O.S.	O.S.	O.S.	O.S.
	P(kW)	35	16.9	19.2	21.5	23.9	26.5	O.S.
		38	17.5	19.8	22.2	24.7	27.3	O.S.
		40	17.9	20.2	22.7	25.3	27.9	O.S.
		44	18.6	21.1	23.6	26.3	29.0	O.S.
		47	19.1	21.7	24.3	O.S.	O.S.	O.S.
		50	O.S.	O.S.	O.S.	O.S.	O.S.	O.S.
RLUB-D300Y-4DS	Q(kW)	35	22.3	27.4	33.0	39.3	46.3	O.S.
		38	21.8	26.8	32.4	38.5	45.5	O.S.
		40	21.5	26.4	31.9	38.0	45.0	O.S.
		44	20.9	25.7	31.1	37.1	43.9	O.S.
		47	20.5	25.2	30.5	O.S.	O.S.	O.S.
		50	O.S.	O.S.	O.S.	O.S.	O.S.	O.S.
	P(kW)	35	20.2	22.9	25.6	28.5	31.2	O.S.
		38	20.9	23.6	26.5	29.5	32.2	O.S.
		40	21.3	24.1	27.0	30.1	32.9	O.S.
		44	22.2	25.1	28.2	31.3	34.2	O.S.
		47	22.9	25.9	29.0	O.S.	O.S.	O.S.
		50	O.S.	O.S.	O.S.	O.S.	O.S.	O.S.



	Out of Scope
	Normal Working Range



IMPORTANT INFORMATION

Only qualified personnel are permitted to install and repair compressors. All electrical connections of the compressor and its accessories must be carried out by authorized personnel only.

COMPRESSOR ELECTRICAL CONNECTIONS

The below electrical connection data is applicable only for the 20D motor version.

Carefully verify and ensure the correct Star (Y) or Delta (Δ) winding connections of the compressor before startup.

- Star (Y) Connection
Suitable for: 380V / 3Ph / 60Hz power supply
- Delta (Δ) Connection
Suitable for: 230V / 3Ph / 60Hz power supply

Incorrect electrical connections may result in abnormal operation, overheating, or damage to the compressor motor.

ELECTRICAL CONNECTION OF FAN MOTOR

Carefully verify and ensure the correct Star (Y) or Delta (Δ) winding connections of the fan motor before energizing the system.

- Star (Y) Connection
Suitable for: 380V / 3Ph / 60Hz power supply
- Delta (Δ) Connection
Suitable for: 230V / 3Ph / 60Hz power supply

CRANKCASE (OIL HEATER)

The oil heater operates inversely to the compressor:

- Compressor OFF → Oil heater ON (maintains oil temperature approx. 15–20 K above ambient)
- Compressor ON → Oil heater OFF

SWITCHING FREQUENCY

Do not start the compressor more than 8 times per hour.

Unit Model	Minimum Running Time
Up to 7.5 HP	2 minutes
7.5 to 20 HP	3 minutes
above 20 HP	5 minutes

IMPORTANT INFORMATION

REFRIGERATION OILS FOR BITZER COMPRESSORS

Refrigerant	Oil Charge
HFC R134a & R404A	Tc < 55°C → Bitzer BSE 32 (POE)
	Tc > 55°C → Bitzer BSE 55 (POE)

RIME Units are designed to operate with Bitzer BSE32 (POE) oil.

LUBRICATION / OIL CHECK

Check compressor lubrication by ensuring the oil level is between 1/4 and 3/4 of the sight glass.

- For compressors with an oil pump, monitoring can be provided by a differential oil pressure switch (MP54/MP55) or Delta PII.
- OLC-K1 is used for compressors with centrifugal lubrication. It monitors oil supply using an optoelectronicinfrared sensor and shuts down the compressor if oil shortage persists beyond the delay time.
- Delta PII oil pressure control is applied across all RIME units featuring an oil pump.

OIL CHANGING

Oil changing is generally not required for factory-assembled units.

- Check oil quality every 3 years or after 10,000–12,000 operating hours.
- Oil filter cleaning must be carried out during oil changes.

EVACUATION (DRYING)

- Energize crankcase heater.
- Open all shut off and solenoid valves.
- Evacuate system using a vacuum pump connected to both high and low-pressure sides.

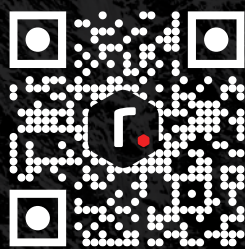
A standing vacuum of < 1.5 mbar must be maintained when the pump is switched OFF. Repeat if necessary.

APPLICATION LIMIT

- Low-temperature units are intended for storage of frozen products only. Products must be pre-frozen before storage.
- Maintain high evaporation temperatures within the compressor envelope; these units are suitable for storage applications such as warehouses and greenhouses.
- If there is a risk of the evaporation temperature rising beyond the operating envelope, use a CPRV (KVL), an MOP expansion valve, or an electronic expansion valve with MOP protection

rime.

ENGINEERED TO ENDURE
MANUFACTURED FOR SUCCESS



www.rimegroup.com

Contact Us

For inquiries, consultations, or to learn more about our innovative refrigeration solutions, please get in touch with us:

sales@rimegroup.com

For customer support email us:

support@rimegroup.com