KD HERMETIC INSTALLATION AND OPERATING INSTRUCTIONS.





Thermofrost Cryo Plc Ernest Avenue West Norwood London SE27 0DA

Installation, commissioning and maintenance.

The following has been issued to aid installation of the KD Recip range of low noise units. It is important that the following is read and understood before installation is undertaken.

In compiling the contents of this manual it is assumed that qualified and competent refrigeration and electrical engineers will carry out all installation work.

IMPORTANT NOTES:

Check that:-

- 1) The electrical supply available is suitable for the KD Recip unit being installed.
- 2) The equipment is sited correctly to ensure adequate airflow around it and that discharge air is not drawn back into the unit. (Min 300 mm from condenser face to wall is recommended.
- 3) Allow sufficient space around the unit for maintenance purposes.
- 4) If the unit is to be installed on a roof, check that the structure of the roof is able to stand the weight of the unit.
- 5) Ensure the location of the unit is clear of debris such as leaves, paper etc.
- 6) For best noise reduction mount unit onto anti-vibration mounts.

INSTALLATION.

The KD Recip is fitted with all necessary components to minimise installation time on site. The units are fitted with compressor contactor, overload, electrical isolator, start and run capacitors (if necessary), dual HP/LP switch, pressure operated fan speed controller, liquid line drier/sight glass and liquid receiver. The condenser coil is coated with a blue weatherproof coating suitable for installation in aggressive atmospheres.

Low temperature units include a fitted oil separator which is pre-charged with an additional oil charge in factory.

Installation is straightforward and should be carried out in accordance with recognised standards of refrigeration practice and in accordance with current IEE regulations and to comply with any relevant local codes of practice.

To use the units on a pump down system a link wire should be fitted between terminals 1 & 2 of the terminal rail. If you wish to use the unit on direct control, a thermostat with volt free contacts can be wired across these terminals.

Full wiring diagrams are included on the removable side panel of the units

The units are supplied with an inert gas holding charge; the unit should be fully evacuated and then charged with R404A/R452A to a clear sight glass. Where the silver label states the refrigerant type and weight (Kg), this weight is the liquid receiver volume not the total system charge. The total system charge will depend on pipe line sizing and total pipe run. The system should be charged to the expected running pressures for the refrigerant type and to a clear sight glass!

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)

Units should be sited with a minimum clearance of 300mm from the condenser face to any obstruction.

Piping:

Pipework routes should be a short and simple as possible, avoiding low points where oil can accumulate. Pipelines should be sized to ensure the suction gas velocity is sufficient to ensure good oil return.

All copper tube should be dehydrated refrigeration grade only. Nitrogen should be passed through the pipework when brazing to avoid oxidation.

Suction line should be fully insulated and all pipework should be supported at a maximum of 2m intervals.

In vertical risers, the suction riser should be fitted with a U trap at the bottom and a P trap at the top for a rise of 3m or over.

PRE-START UP

Important Note:

The mains electrical supply to the condensing unit must be via a suitable motor rated circuit breaker or fuse. A mains isolator is fitted to all condensing units therefore an additional isolator is not required.

For all installations it will be necessary to set the LP switch to ensure effective control if using a pump down cycle, we suggest a setting of 1.5bar (R404A) for medium temp units and 0.1bar (R404A) for low temp units, but this will be dependent on site conditions.

The HP switch is not factory pre-set and will require adjustment to suit conditions on site, suggested maximum cut out for use with R404A/R452A is approximately 28 bar.

NOTE: The 2PAD100L3 unit is fitted with a PRV set at 24.8barg so the HP switch on this unit should be set accordingly to prevent this valve from lifting.

The RGE/XGE fan speed controller should be set to maintain a condensing temperature as shown in the tables at the end of this brochure; this will achieve the maximum duty from each unit at the desired operating conditions (ambient 32°C, R404A).

Check condenser fan(s) are free to rotate, and check all service valves are fully open.

Check all electrical wiring is sound and that the power supply is correct for the condensing unit being installed.

START UP.

Once the unit is running a check should be made to ensure condenser fan(s) are running correctly, drawing air through the condenser, there are no unusual noises coming from the unit, no leaks are apparent and that all readings are within expected ranges (i.e suction pressure, discharge pressure, suction superheat, current drawn etc).

Compressors should be limited to 12 starts per hour, this can be achieved by use of a delay timer or by programming a delay time into an electronic controller which gives the unit it's start signal.

SERVICE AND MAINTENANCE.

WARNING: Disconnect the main electrical supply before servicing or opening the unit.

At regular intervals the unit should be checked to ensure that there are no refrigerant or oil leaks, there is no abnormal or unusual vibration or noise from the unit.

Check compressor oil level is correct, minimum oil level is ¹/₄ of a sight glass and maximum level should be ³/₄ of a sight glass.

Clean and inspect the condenser coil. Remove any obstacles that may hinder airflow.

Check all fan motors for excessive noise or vibration and check all fans run smoothly.

Check running current and voltage to the unit. Check all electrical wiring and tighten as necessary.

Safety Notice: Do not operate any device which is not stated on the user's manual for safety.

Units manufactured by: Kyung Dong Industrial Co Ltd. 509 Yongmiri Kwangtanmyon Paju Kyunggido 413-855 Republic of Korea The following table gives the design condensing temperature for each unit based on a 32 °C ambient and the desired evaporating temperature

KD Hermetic Duties

Capacities R404A, -20°C to +5°C evaporating.

Model	Capacity in Watts / Condensing temp °C					
Evap Temp °C	5	0	-5	-10	-15	-20
PAD005M1	1372/44.7	1271/42.2	1040/41.7	859/40.3	701/39.0	564/37.9
PAD008M1	2002/48.9	1691/47.3	1442/45.0	1191/43.7	987/41.9	805/40.3
PAD010M1	2486/45.9	2127/43.8	1767/42.7	1475/41.0	1215/39.5	983/38.4
PAD012M1	3736/47.7	3159/46.2	2689/44.0	2218/42.7	1827/40.9	1473/39.4

All models are single-phase

Capacities R404A, -45°C to -20°C, R404A.

Model		Capacity	in Watts / C	ondensing te	mp °C	
Evap Temp °C	-20	-25	-30	-35	-40	-45
1PAD016L1	1888/42.1	1528/40.3	1207/38.8	931/37.4	688/36.5	491/35.5
1PAD018L1	2406/38.3	1876/37.0	1401/36.1	1007/35.1	675/34.2	403/33.3
1PAD018L3	2406/38.3	1876/37.0	1401/36.1	1007/35.1	675/34.2	403/33.3
1PAD023L1	3494/41.6	2811/39.8	2197/38.3	1640/37.3	1182/36.0	793/35.0
1PAD023L3	3494/41.6	2811/39.8	2197/38.3	1640/37.3	1182/36.0	793/35.0
1PAD035L3	4433/41.7	3472/39.7	2644/37.9	1923/36.9	1370/35.6	936/34.6
1PAD050L3	6291/43.5	4972/41.9	3893/39.9	2911/38.6	2120/37.0	1502/35.6
2PAD075L3	9712/43.6	7694/42.0	6032/39.9	4558/38.0	3227/36.9	2166/35.5
2PAD100L3	13411/42.9	10815/40.9	8479/39.1	6431/37.5	4643/36.5	3202/35.3

L1 models are single-phase, L3 models are three-phase.

Capacities R134a, -20°C to +5°C evaporating.

Model		Capacity in Watts / Condensing temp °C					
Evap Temp °C	5	0	-5	-10	-15	-20	
PAC012M1	2600/44.7	2172/41.4	1780/39.9	1431/38.4	1122/37.2	848/36.0	

Duties are quoted at 10K suction superheat with liquid subcooled to condenser limits in an ambient of 32 $^\circ\!C$

Ecodesign Data

Model PAD005M1				I	
Refrigerant Item	Symbol	R404A	R407F Value	R449A	Unit
Evaporating Temperature Parameters at full load and ambient temperature 32°C	t		-10		°C
Rated cooling capacity Rated power input Rated COP	PA DA COPA	0.91 0.51 1.77	N/A N/A N/A	N/A N/A N/A	Kw Kw
Parameters at full load and ambient temperature 25°C Rated cooling capacity	PA	1.04	N/A	N/A	Kw
Rated power input Rated COP	D _A COP 2	0.49 2.13	N/A N/A	N/A N/A	Kw
Parameters at full load and ambient temperature 43°C (where applicable)					
Rated cooling capacity Rated power input	PA DA				Kw Kw
Rated COP Other items	COP 3				
Capacity Control Contact Details		Ther	Fixed nofrost Cr	yo Ltd	
		w	nest Aven est Norwo	od	
Model PAD008M1	L		don SE27		
Refrigerant Item	Symbol	R404A	R407F Value	R449A	Unit
Evaporating Temperature Parameters at full load and ambient temperature 32°C	t		-10		°C
Rated cooling capacity Rated power input	PA DA	1.26 0.79	N/A N/A	N/A N/A	Kw Kw
Rated COP Parameters at full load and ambient temperature 25°C	COP A	1.59	N/A	N/A	
Rated cooling capacity Rated power input	PA DA	1.44 0.77	N/A N/A	N/A N/A	Kw Kw
Rated COP Parameters at full load and ambient temperature 43°C	COP 2	1.87	N/A	N/A	
(where applicable) Rated cooling capacity	PA				Kw
Rated power input Rated COP	DA COP 3				Kw
Other items Capacity Control			Fixed		
Contact Details		En	nofrost Cry nest Aveni	Je	
			est Norwo don SE27 0		
Model PAD010M1 Refrigerant		R404A	R407F	R449A	
Item Evaporating Temperature	Symbol t		Value -10		Unit °C
Parameters at full load and ambient temperature 32°C Rated cooling capacity	PA	1.60	N/A	N/A	Kw
Rated power input Rated COP	DA COP A	0.88	N/A N/A	N/A N/A	Kw
Parameters at full load and ambient temperature 25°C Rated cooling capacity	PA	1.80	N/A	N/A	Kw
Rated power input Rated COP	DA COP 2	0.84 2.13	N/A N/A	N/A N/A	Kw
Parameters at full load and ambient temperature 43°C (where applicable)					
Rated cooling capacity Rated power input	P _A Da				Kw Kw
Rated COP Other items	COP 3				
Capacity Control Contact Details			Fixed nofrost Cr		
			nest Aven est Norwo		
Model PAD012M1		Lor	don SE27 (
Refrigerant Item	Symbol	R404A	R407F Value	R449A	Unit
Evaporating Temperature Parameters at full load and ambient temperature 32°C	t		-10		°C
Rated cooling capacity Rated power input	PA DA	2.34 1.24	N/A N/A	N/A N/A	Kw Kw
Rated COP Parameters at full load and ambient temperature 25°C	COP A	1.90	N/A	N/A	
Rated cooling capacity Rated power input	P _A DA	2.68 1.17	N/A N/A	N/A N/A	Kw Kw
Rated COP Parameters at full load and ambient temperature 43°C	COP 2	2.29	N/A	N/A	
(where applicable) Rated cooling capacity	PA DA				Kw Kw
					KW
Rated power input Rated COP	COP 3				
Rated COP Other items Capacity Control		Thor	Fixed	ue Itd	
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Model 1PAD023L1 Refrigerant		R404A	R40)7F	R449A	
Item Evaporating Temperature	Symbol t		Val			Unit °C
Parameters at full load and ambient temperature 32°C Rated cooling capacity	PA	1.83	N/		N/A	Kw
Rated power input Rated COP	DA COP A	1.72 1.06	N/ N/		N/A N/A	Kw
Parameters at full load and ambient temperature 25°C Rated cooling capacity	PA	2.09	N/		N/A	Kw
Rated power input Rated COP	DA COP 2	1.67	N/ N/	Ά	N/A N/A	Kw
Parameters at full load and ambient temperature 43°C (where applicable)						
Rated cooling capacity Rated power input	PA DA			_		Kw Kw
Rated COP Other items	COP 3		_			_
Capacity Control Contact Details		Ther	Fix		/o Ltd	
		Er	nest / est No	\ven	ue	
Model 1PAD023L3			idon S			1
Refrigerant Item	Symbol	R404A	R40 Val		R449/	Unit
Evaporating Temperature Parameters at full load and ambient temperature 32°C	t		-3			°C
Rated cooling capacity Rated power input	PA DA	1.85 1.61	N/ N/		N/A N/A	Kw Kw
Rated COP Parameters at full load and ambient temperature 25°C	COP A	1.15	N/		N/A	
Rated cooling capacity Rated power input	PA Da	2.19 1.56	N/ N/		N/A N/A	Kw Kw
Rated COP Parameters at full load and ambient temperature 43°C	COP 2	1.40	N/		N/A	
(where applicable) Rated cooling capacity	Pa			_		Kw
Rated power input	DA					Kw
Rated COP Other items	COP 3		<u> </u>			1
Capacity Control Contact Details			Fix nofro	st Cn		
		W	nest / est No	orwo	od	
Model 1PAD035L3	I	Lor	idon S	E27 (AUL	
Refrigerant		S	hol		404A alue	Ini+
Evaporating Temperature		Sym t			alue -35	Unit °C
Annual Electrical Consumption Seasonal energy performance ratio		SE	•),496 L.54	KWh/a
Parameters at full load and ambient tempera	ture 32°C			Ľ		
(Point A) Declared Cooling capacity		P	A	2	2.17	Kw
Declared power input		D	A		1.87	Kw
Rated COP Parameters at full load and ambient temperat	ure 25°C	CO	PA	1	1.16	
(Point B)		Р			2.58	Kw
Declared Cooling capacity Declared power input		D		-	2.58 1.90	KW
Rated COP Parameters at full load and ambient temperat	uro 15°C	CO	РB	1	1.35	
(Point C)	ure 15 C					
Declared Cooling capacity Declared power input		P			3.04 1.87	Kw Kw
Rated COP		co			1.63	
Parameters at full load and ambient temperat (Point D)	ure 5°C					
Declared Cooling capacity		P			8.38	Kw
Declared power input Rated COP		CO			L.72 L.97	Kw
Other items Capacity Control		Fix	od			
Degradation coefficient for fixed and		FIX	eu			
staged capacity unit Parameters at full low and ambient temperate	ure 43°C	Co	ic	().25	
(where applicable)		_				
Cooling capacity Power input		P				
Declared COP Contact Details		co				
Contact Details					rost Cry t Aven	
					Norwo	
Model 1PAD050L3					se27 (
Refrigerant		Syml	hol		IO4A alue	Unit
Evaporating Temperature		t			35	°C
Annual Electrical Consumption Seasonal energy performance ratio		Q			,304 .63	KWh/a
Parameters at full load and ambient tempera	ture 32°			-		
(Point A) Declared Cooling capacity		PA		3	.34	Kw
Declared power input Rated COP		D			.02	Kw
Parameters at full load and ambient temperat	ture 25°C	COP	M	1	.11	
(Point B) Declared Cooling capacity		PA			.92	Kw
Declared power input		DA		3	.02	KW
Rated COP Parameters at full load and ambient temperat	ture 15°0	COP	В	1	.30	
(Point C)						
Declared Cooling capacity		P/ D/			.74 .86	Kw Kw
		COP			.65	
Declared power input Rated COP	hure par	1				
Declared power input Rated COP Parameters at full load and ambient temperal	ture 5°C			5	.51	Kw Kw
Declared power input Rated COP Parameters at full load and ambient temperal (Point D) Declared Cooling capacity	ture 5°C	P/		-		AW.
Declared power input Rated COP Parameters at full load and ambient temperat (Point D) Declared Cooling capacity Declared power input Rated COP	ture 5°C	P/ D/ COP			.41 .28	
De dared power input Rated COP Parameters at full load and ambient temperal (Point D) De dared Cooling capacity De dared cooling capacity De dared COP Other items	ture 5°C	D/ COP	D			
De dared power input Rated COP Parameters at full load and ambient temperal (Point D) De dared Cooling capacity De dared power input Rated COP Other items Capacity Control Degradation coefficient for fixed and	ture 5°C	D/ COP Fixe	D 2d	2	.28	
Declared power input Rated COP Parameters at full load and ambient temperat (Point D) Declared Cooling capacity Declared Cooling capacity Declared Cool Other items Capacity Control Degradation coefficient for fixed and staged Capacity unit		D/ COP	D 2d	2		
De dared power input Rated COP Parameters at full load and ambient temperal (Point D) De dared Cooling capacity De dared Cooling capacity De dared COP Other items Capacity Control Degradation coefficient for fixed and staged capacity unit Parameters at full low and ambient temperat (where applicable)		D/ COP Fixe	r D ed	2	.28	
Declared power input Rated COP Parameters at full load and ambient temperat (Point D) Declared Dower input Rated COP Other items Capacity Control Degradation coefficient for fixed and staged capacity unit Parameters at full low and ambient temperat (where applicable) Cooling capacity		COP Fixe	c	2	.28	
Declared power input Rated COP Parameters at full load and ambient temperal (Point D) Declared Cooling capacity Declared Cooling capacity Declared COP Other items Capacity Control Degradation coefficient for fixed and staged capacity unit Parameters at full low and ambient temperat (where applicable) Cooling capacity Power input Declared COP		COP Fixe Cd Cd Pa Da COI	c 23	0	.28	
Declared power input Rated COP Parameters at full load and ambient temperal (Point D) Declared Cooling capacity Declared Cooling capacity Declared power input Rated COP Other items Capacity Control Degradation coefficient for fixed and staged capacity unit Parameters at full low and ambient temperat (where applicable) Cooling capacity Power input		COP Fixe Cd Cd Pa Da COI	c c hern	2 0	.28	
De dared power input Rated COP Parameters at full load and ambient temperal (Point D) De dared Cooling capacity De dared Cooling capacity De dared CoOP Other items Capacity Control Degradation coefficient for fixed and staged Capacity unit Parameters at full low and ambient temperat (where applicable) Cooling capacity Power input De dared COP		COP Fixe Cd Cd Pa Da COI	c c c c c c c c c c c c c c c c c c c	2 0 nofm nest est N	.28 .25 ost Cry	ie od

		1		
Model 2PAD075L3 Refrigerant		R404A		
Item	Symbol	Value	Unit	
Evaporating Temperature	t	-35	°C	
Annual Electrical Consumption	Q	23,146	KWh/a	
Seasonal energy performance ratio	SEPR	1.66		
Parameters at full load and ambient temperature 32°C				
(Point A)				
Declared Cooling capacity	PA	5.16	Kw	
Declared power input Rated COP	DA COP A	4.37 1.18	Kw	
Parameters at full load and ambient temperature 25°C	LOPA	1.18		
(Point B)				
Declared Cooling capacity	Pa	6.07	Kw	
Declared power input	DA	4.34	Kw	
Rated COP	COP B	1.40		
Parameters at full load and ambient temperature 15°C				
(Point C)				
Declared Cooling capacity	PA	7.14	Kw	
Declared power input	DA	4.06	Kw	
Rated COP	COP C	1.76		
Parameters at full load and ambient temperature 5°C				
(Point D)	PA	7.68	Kw	
Declared Cooling capacity Declared power input	PA DA	7.68	Kw Kw	
Rated COP	COP D	2.14	NW.	
Other items	COFD	2.14		
Capacity Control	Fixed			
Degradation coefficient for fixed and				
staged capacity unit	Cdc	0.25		
Parameters at full low and ambient temperature 43°C				
(where applicable)				
Cooling capacity	P3			
Powerinput	D3			
Declared COP	COP3	L	L	
Contact Details		nofrost Cr		
		nest Aven		
		est Norwood		
Model 2PAD10013		idon SE27 (
Model 2PAD100L3 Refrigerant				
		don SE27 (Unit	
Refrigerant Item Evaporating Temperature	Lon Symbol t	R404A Value -35	Unit °C	
Refrigerant Item Evaporating Temperature Annual Electrical Consumption	Lon Symbol t Q	R404A Value -35 31,609	Unit	
Refrigerant Item Evaporating Temperature Annual Electrical Consumption Seasonal energy performance ratio	Lon Symbol t	R404A Value -35	Unit °C	
Refrigerant Item Evaporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C	Lon Symbol t Q	R404A Value -35 31,609	Unit °C	
Refrigerant Item Exeporating Temperature Exeporating Temperature Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A)	Lon Symbol t Q SEPR	R404A Value -35 31,609 1.72	Unit °C KWh/a	
Refrigerant Item Exaporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity	Lon Symbol t Q	R404A Value -35 31,609	Unit °C	
Refrigerant Item Exeporating Temperature Exeporating Temperature Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A)	Lon Symbol t Q SEPR PA	R404A Value -35 31,609 1.72 7.28	Unit °C KWh/a Kw	
Refrigerant Item Exeporating Temperature Exeporating Temperature Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared Dover input	Lon Symbol t Q SEPR PA DA	R404A Value -35 31,609 1.72 7.28 5.83	Unit °C KWh/a Kw	
Refrigerant Item Exeporating Temperature Exeporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared power input Rated COP Parameters at full load and ambient temperature 25°C (Point B)	Lon Symbol t Q SEPR PA DA	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25	Unit *C KWh/a Kw Kw	
Refrigerant Item Vexporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared power input Rated COP Parameters at full load and ambient temperature 25°C (Point B) Declared Cooling capacity Declared Cooling capacity	Lon Symbol t Q Q SEPR PA DA COP A	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25 8.35	Unit *C KWh/a Kw Kw	
Refrigerant Item Exeporating Temperature Exeporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared Cooling Coo	Lon Symbol t Q SEPR PA DA COP A PA DA	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25 8.35 5.68	Unit *C KWh/a Kw Kw	
Refrigerant Item Exeporating Temperature Fexporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point R) Declared Cooling capacity Declared Cooling C	Lon Symbol t Q Q SEPR PA DA COP A	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25 8.35	Unit *C KWh/a Kw Kw	
Refrigerant Item Exeporating Temperature Exeporating Temperature Exeporating Temperature Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Dover input Rated COP Parameters at full load and ambient temperature 25°C (Point B) Declared Cooling capacity Declared Cooling Capacity Declared Cooling Capacity Declared CoOP Parameters at full load and ambient temperature 15°C	Lon Symbol t Q SEPR PA DA COP A PA DA	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25 8.35 5.68	Unit *C KWh/a Kw Kw	
Refrigerant Item Exeporating Temperature Exeporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared power input Rated COP Parameters at full load and ambient temperature 25°C (Point B) Declared Cooling capacity Declared Cooling capacity Declared Cooling capacity Declared Cooling capacity Declared Former power input Rated COP Parameters at full load and ambient temperature 15°C (Point C) Parameters at full load and ambient temperature 15°C (Point C) Parameters at full load and ambient temperature 15°C (Point C)	Lon Symbol t Q SEPR PA DA COP A PA DA COP B	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25 8.35 5.68 1.47	Unit *C KWh/a Kw Kw Kw Kw	
Refrigerant Item Exeporating Temperature Exeporating Temperature Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Qover input Rated COP Parameters at full load and ambient temperature 25°C (Point B) Declared Qover input Rated COP Parameters at full load and ambient temperature 25°C (Point B) Declared Qover input Rated COP Parameters at full load and ambient temperature 15°C (Point C) Declared Cooling capacity	Lon Symbol t Q SEPR DA COP A COP A DA COP B PA	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25 8.35 5.68 1.47 9.72	Unit *C KWh/a Kw Kw Kw Kw	
Refrigerant Item Exeporating Temperature Exeporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared power input Rated COP Parameters at full load and ambient temperature 25°C (Point B) Declared Cooling capacity Declared Cooling capacity Declared Cooling capacity Declared Cooling capacity Declared Former power input Rated COP Parameters at full load and ambient temperature 15°C (Point C) Parameters at full load and ambient temperature 15°C (Point C) Parameters at full load and ambient temperature 15°C (Point C)	Lon Symbol t Q SEPR PA DA COP A PA DA COP B	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25 8.35 5.68 1.47	Unit *C KWh/a Kw Kw Kw Kw	
Refrigerant Item Exeporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared power input Rated COP Parameters at full load and ambient temperature 25°C (Point B) Declared Cooling capacity Declared Cooling capacity Declared COP Parameters at full load and ambient temperature 15°C (Point C) Declared Cooling capacity Declared Cooling capacity Declared COP Parameters at full load and ambient temperature 15°C (Point C) Declared Cooling capacity Declared Cooling Cooli	Lon Symbol t Q SEPR PA DA COP A DA COP B PA DA	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25 8.35 5.68 1.47 9.72 5.34	Unit *C KWh/a Kw Kw Kw Kw	
Refrigerant Item Exeporating Temperature Exeporating Temperature Exeporating Temperature Exeporating Temperature Exeporating Temperature Exeporating Temperature and Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared Cooling capacity Declared Cooling capacity Declared Cooling capacity Declared power input Rated COP Parameters at full load and ambient temperature 15°C (Point C) Declared Docoling capacity Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point C) Declared Doceling capacity Declared Cooling capacity Declared Cooling capacity Declared Power input Rated COP Parameters at full load and ambient temperature 5°C (Point C) Declared Doceling capacity Do	Lon Symbol t Q SEPR PA DA COP A DA COP B PA DA	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25 5.68 1.47 9.72 5.34 1.82	Unit *C KWh/a Kw Kw Kw Kw Kw Kw	
Refrigerant Item Exeporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declar	Lon Symbol t Q SEPR PA DA COP A PA DA COP B PA DA COP C COP C	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25 8.35 5.68 1.47 9.72 5.568 1.47 9.72 5.72 5.72 5.83	Unit *C KWh/a Kw Kw Kw Kw Kw Kw	
Refrigerant Item Verporating Temperature Verporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared power input Rated COP Parameters at full load and ambient temperature 25°C (Point B) Declared power input Rated COP Parameters at full load and ambient temperature 15°C (Point C) Declared power input Rated COP Parameters at full load and ambient temperature 15°C (Point C) Declared Cooling capacity Declared power input Rated COP Parameters at full load and ambient temperature 15°C (Point C) Declared Cooling capacity Declared COP Parameters at full load and ambient temperature 5°C (Point C) Declared COP Parameters at full load and ambient temperature 5°C (Point D) Declared COP Parameters at full load and ambient temperature 5°C (Point D) Declared Cooling capacity Declared Diver input Rated COP	Lon Symbol t Q Q SEPR PA DA COP A COP A PA DA COP C PA DA	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25 8.35 5.68 1.47 9.72 5.34 1.82 9.72 5.34 1.82	Unit *C KWh/a Kw Kw Kw Kw Kw Kw	
Refrigerant Item Exeporating Temperature Exeporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared power input Rated COP Parameters at full load and ambient temperature 15°C (Point C) Declared power input Rated COP Parameters at full load and ambient temperature 5°C Period CO Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point C) Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point C) Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point C) Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point C) Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point C) Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point C) Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point C) Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point C) Declared power input Rated COP Parameters at full Parameters Pa	Lon Symbol t Q SEPR PA DA COP A PA DA COP B PA DA COP C COP C	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25 8.35 5.68 1.47 9.72 5.568 1.47 9.72 5.72 5.72 5.83	Unit *C KWh/a Kw Kw Kw Kw Kw Kw	
Refrigerant Item Item Exeporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared power input Rated COP Parameters at full load and ambient temperature 25°C (Point B) Declared Cooling capacity Declared Dice Declared Dice Dice Dice Dice Dice Dice Dice Dice	Lon Symbol t Q DA COP A DA COP B PA DA COP D PA DA COP D	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25 8.35 5.68 1.47 9.72 5.34 1.82 9.72 5.34 1.82	Unit *C KWh/a Kw Kw Kw Kw Kw Kw	
Refrigerant Item Exeporating Temperature Exeporating Temperature Exeporating Temperature Exeporating Temperature Exeporating Temperature Exeporating Temperature Exercises at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point C) Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point D) Declared Cooling capacity Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point D) Declared Cooling capacity Declared power input Rated COP Cont D Declared Cooling capacity Declared power input Rated COP Cont Rems Cooling Control	Lon Symbol t Q Q SEPR PA DA COP A COP A PA DA COP C PA DA	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25 8.35 5.68 1.47 9.72 5.34 1.82 9.72 5.34 1.82	Unit *C KWh/a Kw Kw Kw Kw Kw Kw	
Refrigerant Item Item Exeporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Dower input Rated COP Parameters at full load and ambient temperature 25°C (Point B) Declared Cooling capacity Declared Cooling capacity Declared COP Parameters at full load and ambient temperature 15°C (Point C) Declared Cooling capacity Declared Cooling capacity Declared COP Parameters at full load and ambient temperature 5°C (Point C) Declared Cooling capacity Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point C) Declared Cooling capacity Declared power input Rated COP Declared powe	Lon Symbol t Q Q SEPR PA DA COP A COP B COP B PA DA COP C PA DA COP C	don SE27 (R404A Value -35 31,609 1.72 7.28 5.83 1.25 8.35 5.68 1.47 9.72 5.34 1.82 9.72 5.34 1.82	Unit *C KWh/a Kw Kw Kw Kw Kw Kw	
Refrigerant Item Exeporating Temperature Exeporating Temperature Exeporating Temperature Exeporating Temperature Exeporating Temperature Exeporating Temperature Exercises at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point C) Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point D) Declared Cooling capacity Declared power input Rated COP Parameters at full load and ambient temperature 5°C (Point D) Declared Cooling capacity Declared power input Rated COP Cont D Declared Cooling capacity Declared power input Rated COP Cont Rems Cooling Control	Lon Symbol t Q SEPR DA DA COP A DA COP A DA COP B PA DA COP C PA DA COP C Fixed	don 52274 R404A Value -35 31,609 1.72 7.28 5.33 1.25 5.43 1.25 5.68 1.47 9.72 5.34 1.82 9.72 5.34 1.82 1.069 4.93 2.17	Unit *C KWh/a Kw Kw Kw Kw Kw Kw	
Refrigerant Tem Refrigerant Tem Exeporating Temperature Exeporating Temperature Exeporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared Cooling capa	Lon Symbol t Q SEPR DA DA COP A DA COP A DA COP B PA DA COP C PA DA COP C Fixed	don 52274 R404A Value -35 31,609 1.72 7.28 5.33 1.25 5.43 1.25 5.68 1.47 9.72 5.34 1.82 9.72 5.34 1.82 1.069 4.93 2.17	Unit *C KWh/a Kw Kw Kw Kw Kw	
Refrigerant Item Tem Exeporating Temperature Annual Electrical Consumption Sessional energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity	Lon Symbol t Q SEPR Da Da Da Da COP B Da Da COP B CoP C Fixed CoP C Fixed	don 52274 R404A Value -35 31,609 1.72 7.28 5.33 1.25 5.43 1.25 5.68 1.47 9.72 5.34 1.82 9.72 5.34 1.82 1.069 4.93 2.17	Unit *C KWh/a Kw Kw Kw Kw Kw Kw	
Refrigerant tem Tem Seoporating Temperature Scoporating Temperature Scoporating Temperature Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared Declared De	Lon Symbol t Q DA DA COP A DA COP B DA COP D DA COP D Fixed Cdc P ₃ D ₃	don 52274 R404A Value -35 31,609 1.72 7.28 5.33 1.25 5.43 1.25 5.68 1.47 9.72 5.34 1.82 9.72 5.34 1.82 1.069 4.93 2.17	Unit *C KWh/a Kw Kw Kw Kw Kw Kw	
Refrigerant Item Exeporating Temperature Exeporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared COP Declared	Lon Symbol t Q DA DA COP A DA COP B PA DA COP C PA DA COP C Fixed COP C P3 D3	don 5227 R404A Value -35 -35 -31,609 -7,28 5,83 1,25 - - - - - - - - - - - - -	Unit Unit Kwith/a	
Refrigerant tem tem Seporating Temperature Seporating Temperature Seporating Temperature Seporating Temperature Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared Declared Declared Cooling capacity Declared Declared Declared Cooling capacity Cooling capacity Declared Declared	Lon Symbol t Q PA DA COP B DA COP D DA COP D Fixed Cdc Cdc T Pa DA COP T There	don 5227 (R404A Value -35 -35 -31,609 1.72 7.28 5.83 1.47 7.28 5.68 1.47 9.72 5.34 1.47 9.72 5.34 1.47 0.25 -0.69 4.93 2.17 0.25	2DA Unit *C KWh/a Kw Kw Kw Kw Kw Kw Kw Kw Vo Ltd	
Refrigerant Item Exeporating Temperature Exeporating Temperature Annual Electrical Consumption Seasonal energy performance ratio Parameters at full load and ambient temperature 32°C (Point A) Declared Cooling capacity Declared COP Declared	Lon Symbol t Q PA DA COP A DA COP A DA COP B PA DA COP C PA DA COP C Fixed COP COP Three Fixed COP	don 5227 R404A Value -35 -35 -31,609 -7,28 5,83 1,25 - - - - - - - - - - - - -	DDA Unit °C KWh/a Kw Kw Kw Kw Kw Kw Kw Kw Kw	

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