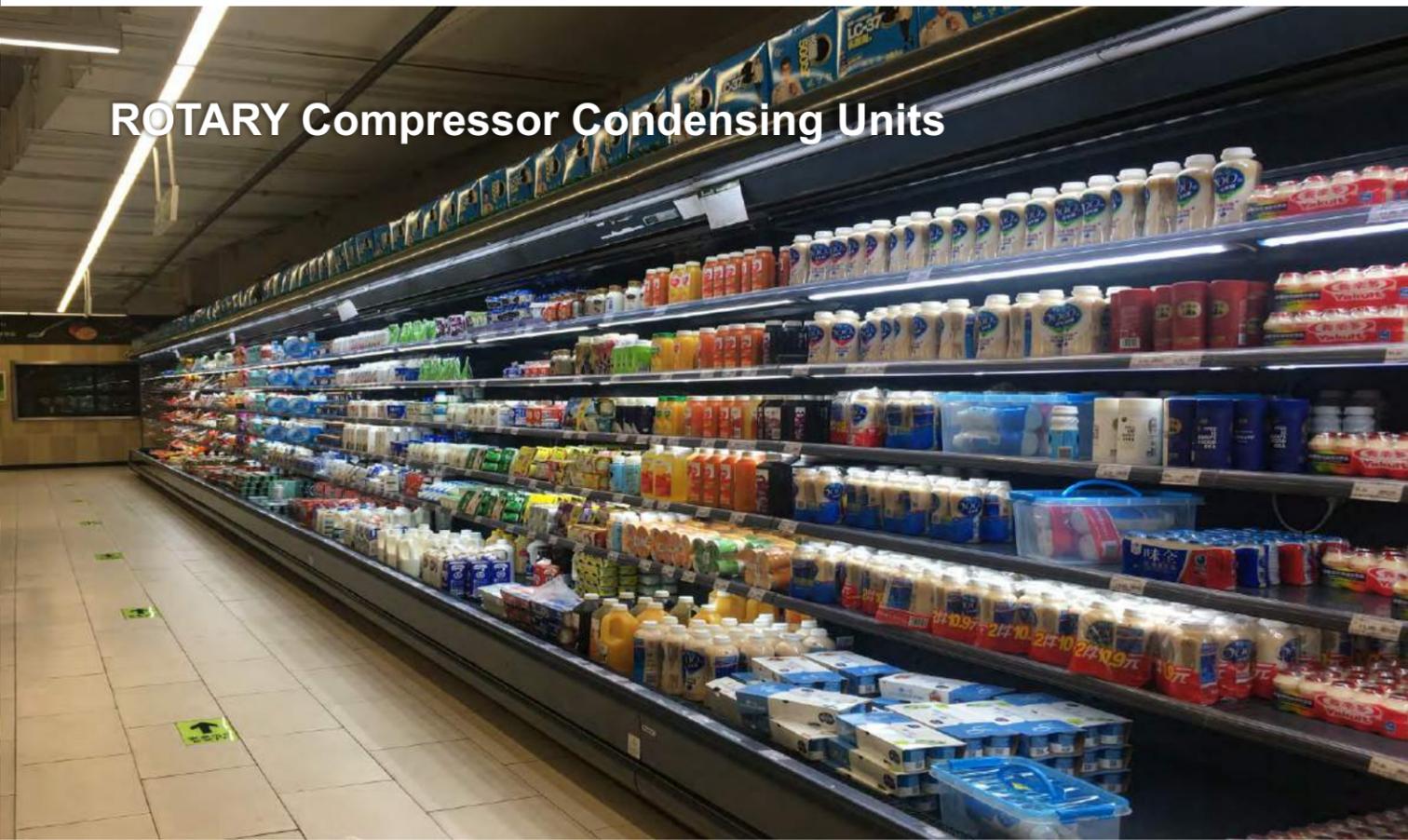




## ROTARY Compressor Condensing Units



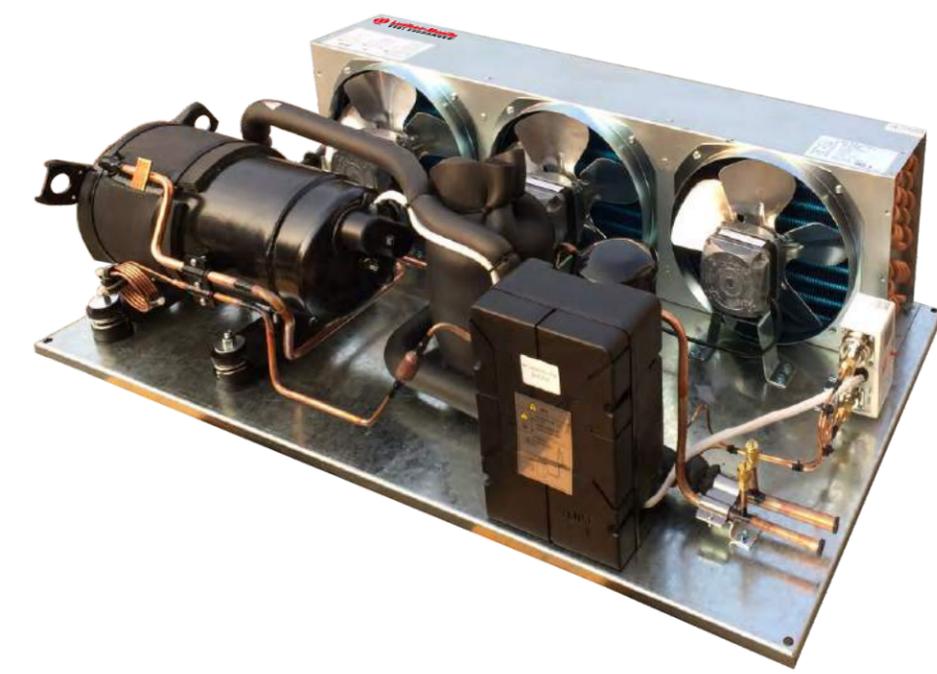
**HITACHI**

**GREE** 格力

**Panasonic**

### LURT Series

- Products features:**
- With Rotary Compressor (Panasonic/GREE/HITACHI)
  - Horizontal Type From 1HP to 3HP
  - Vertical Type From 1HP to 3.5HP
  - Refrigerant: R404A
  - Application: Medium Temperature, Low Temperature
  - Air Cooled Units



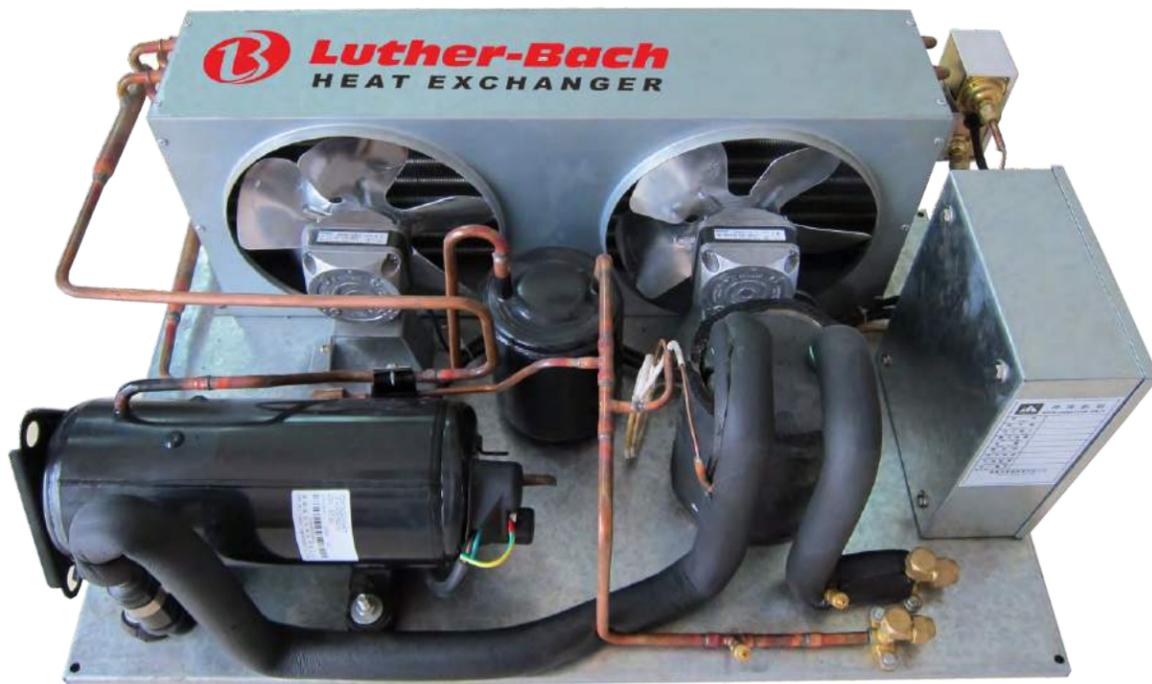
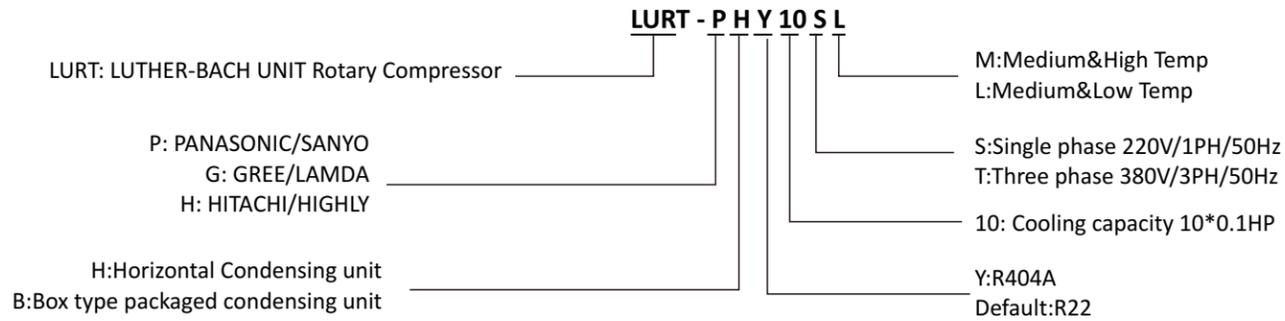
**LURT**

**HITACHI**

**GREE** 格力

**Panasonic**

Model Description



▶ Product advantages:

- Wide voltage operation, the operating voltage from 187V to 240V. High efficiency, high reliability. no noise and vibration
- All pump parts titanium nitride coating treatment, wear and anti-strike capability was stronger, life doubled.
- Horizontal units height is lower (240 ~ 275mm), it can get the most effective volume of the showcase. Also it can be installed directly inside the device. It reducing installation costs
- High performance, high efficiency, high winds patent motor; doubled efficiency than similar motor.
- Automatic spray fluid control and reduce the input power at different temperatures.
- Use built-in motor bundled protection, the motor temperature monitoring more sensitive, to prevent abnormal overheating of the motor through frequent starting.,



Specifications & Features



- 🌡 Application Temp: +5 °C to -30 °C
- 🌊 Nominal Capacity: 1 HP to 3 HP
- 🔄 Refrigerant: R404A

**LOW PROFILE DESIGN**  
Smaller dimension with lower operating noise  
20%-35% cost less than normal Scroll and Piston compressor units

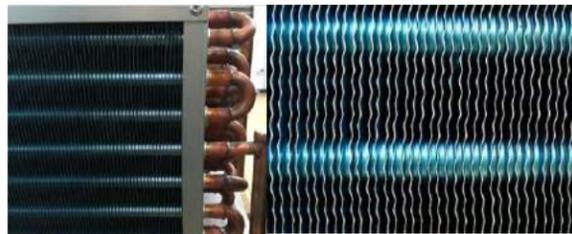
Galvanized plate casing  
provides extend corrosion resistance and durability  
Professional assembly and wiring row  
Integrated control box protects electric parts



New and super efficiency Rotary compressor  
Power saving 15%  
Minimum energy requirement  
Extend application range



EBM Fans  
High efficiency  
Longer using life  
EC fans are optional with 60% efficiency higher



Hydrophilic coating fins  
With greater corrosion resistance  
Reduce airflow resistance  
5% Higher efficiency than normal aluminum fin  
Longer using life



Inner grooved copper tube  
20% higher on heat exchange rate  
Compared with smooth type



Famous brands accessories  
Reliability and stability  
Less maintenance costs



**Horizontal Condensing units Applications:**

Suitable for freezer, small cold storage,  
Kitchen freezer, supermarket cabinets, display cabinets,  
In the low-temperature experimental equipment and special low-temperature equipment  
And other refrigerated trucks with mobile refrigerated equipment

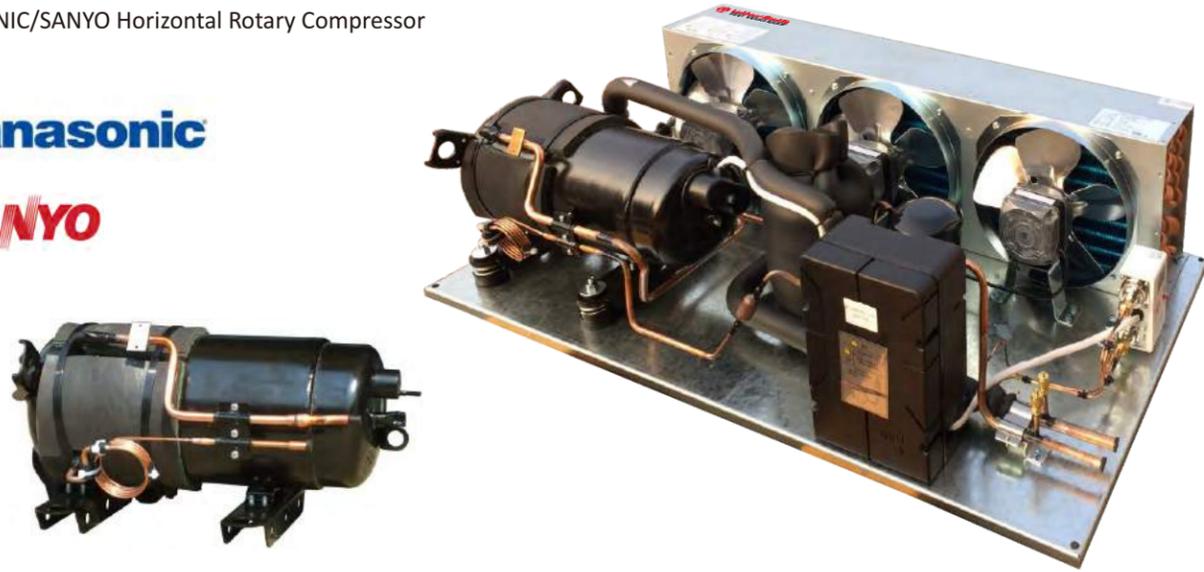


**HORIZONTAL CONDENSING UNIT (R404A)**

PANASONIC/SANYO Horizontal Rotary Compressor

**Panasonic**

**SANYO**

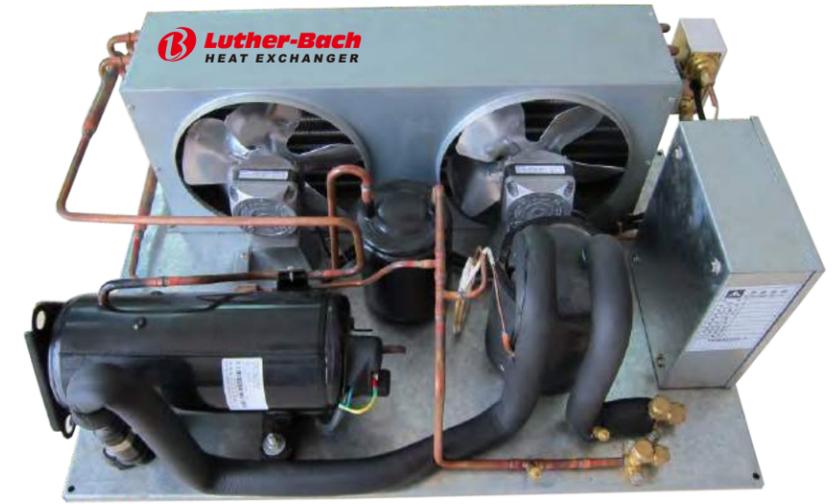


**HORIZONTAL CONDENSING UNIT (R404A)**

GREE/LAMDA Horizontal Rotary Compressor

**GREE**

**LAMDA**



Model		LURT-PHY10SL	LURT-PHY12SL	LURT-PHY15SL	LURT-PHY20SL	LURT-PHY25SL	LURT-PHY30SL	
Horse Power		1HP	1.2HP	1.5HP	2HP	2.5HP	3HP	
Cooling capacity (W)		780	850	1250	1550	1700	2300	
Power		220V/1PH/50Hz						
Refrigerant (Max/Kg)		R404A (1.2)	R404A (1.2)	R404A (1.4)	R404A (3.0)			
Starting Current (A)		25	27	37	50	53	60	
Max working current (A)		4.3	5.2	6.5	8.6	9.7	12.7	
Evaporating temp range (°C)		-45 ~ -5						
Ambient temp range (°C)		-7 ~ 43						
Liquid receiver (L)		0.8						
Accumulator (L)		0.65			1.2			
Condenser	Spec.(Raw*Ring*Lmm)	3*5*540	4*4.5*540	5*4.5*630	5*4.5*900	5*4.5*995	6*4.5*1060	
	Motor(W)*Qty	10*2	10*2	10*2	10*3	10*3	10*3	
	Fan Dia.(mm)	∠34°φ230*2	∠34°φ230*2	∠34°φ230*2	∠34°φ230*3	∠34°φ230*3	∠34°φ230*3	
	Air volume (m³/hr)	820*2	820*2	820*2	820*3	820*3	820*3	
Pipe (mm)	Suction f	12.7(1/2")						
	Liquid outlet f	9.53(3/8")						
Dimension (mm)	L±2	680	680	790	1050	1145	1210	
	W±2	455	485	485	540	540	570	
	H±4	276	261	261	263	263	263	
Pitch of holes f 9-L*W (mm*mm)		660*435	660*465	770*465	1030*520	1125*520	1190*550	
Cooling capacity	Evap.Temp (°C)		Cooling capacity: W				Ambient Temp: 32°C	
	-40		505	635	840	1260	1405	1620
	-35		655	825	1090	1580	1760	2080
	-30		810	955	1190	1890	2110	2630
	-25		975	1210	1545	2310	2575	3320
	-20		1190	1440	1865	2730	3040	3955
	-15		1430	1710	2100	3095	3450	4540
	-10		1795	2070	2426	3680	4100	5485
Wiring	Leakage protector	Rated current(A)	10	10	15	25	25	30
		Action current(mA)	30					
	Wire dia (mm²)	≈10m	2.0	2.0	2.0	4.0	4.0	5.0
		≈20m	2.0	2.0	3.5	6.0	6.0	6.0
		≈30m	3.5	3.5	3.5	6.0	6.0	8.0

Model		LURT-GHY10SL	LURT-GHY15SL	LURT-GHY20SL	LURT-GHY25SL	LURT-GHY30SL	
Horse Power		1HP	1.5HP	2HP	2.5HP	3HP	
Cooling capacity (W)		960W	1630W	2400W	2600W	2680W	
Power		220V/1PH/50HZ					
Refrigerant (Max/Kg)		R404A/1.2Kg	R404A/1.5Kg	R404A/2.0Kg	R404A/2.3Kg	R404A/2.5Kg	
Max working current (A)		4.6A	7.8A	11.6A	12.0A	12.5A	
Evaporating temp range (°C)		-40°C~10°C					
Ambient temp range (°C)		30~45°C					
Liquid receiver (L)		1L					
Accumulator (L)		1.8L					
Condenser	Fan motor	Motor power supply*Qty	16W*2	16W*2	16W*3	16W*3	
		Fan Dia(mm)	200mm	230mm	230mm	230mm	230mm
Pipe(mm)	Suction OD		16mm	16mm	16mm	16mm	
	Liquid outlet OD		10mm	10mm	10mm	10mm	
Dimension (mm)	L±2		670mm	750mm	1026mm	1090mm	
	W±2		480mm	520mm	480mm	480mm	
	H±4		245mm	275mm	245mm	245mm	
Cooling capacity (W)	Evap.Temp (°C)		Cooling Capacity:W				
	-40		763W	974W	1623W	1781W	2047W
	-30		960W	1209W	1935W	2135W	2456W
	-25		1197W	1605W	2320W	2620W	2950W
	-20		1435W	1917W	2712W	3150W	3598W
	-15		1736W	2206W	3010W	3670W	4400W
	-10		2080W	2620W	3729W	4432W	5123W
	-5		2370W	2918W	4180W	5250W	5960W
Wiring	Leakage protector	Rated current(A)	25A	25A	25A	25A	

- 1.The Volume of refrigerant charging should based on the volume up to the table.
- 2.Suction pipe and evaporator diameter should consider the oil back suction and gas flow rate before determined.
- 3.Connecting pipe diameter selection should pay special attention to ensure that the gas flow rate in the horizontal pipe to achieve 3.8m/s or more, standpipe to 7.6m/s or more.
- 4.Single side tube should be 10 meters below and the height difference should be below 3 meters.

**HORIZONTAL CONDENSING UNIT (R404A)**

HITACHI/HIGHLY Horizontal Rotary Compressor

**HITACHI HIGHLY**



Model	LURT-HHY10SL	LURT-HHY15SL	LURT-HHY20SL	LURT-HHY25SL	LURT-HHY30TL		
Horse Power	1HP	1.5HP	2HP	2.5HP	3HP		
Input Power(W)	630	1060	1500	1730	2420		
Power Supply	220V-240V/1PH/50HZ				380V/3PH/50HZ		
Refrigerant (Maximum liquid volume KG)	R404A(1.2)	R404A(2.0)	R404A(3.0)	R404A(3.0)	R404A(3.7)		
Starting current(A)	20	35	42	50	75		
Maximum Running Current(A)	4	7	9.2	10.6	7		
Evaporating temperature °C	(-25~0)		(-40~0)				
Ambient Temp °C	(-7~43)						
Compressor Model	DDD127CV-A2A	DDL211CV-B5M	DDH307LV-B5M	DDH356LV-B5M	DWH488LV-B5M		
Condenser	Spec.(Raw*Ring)		4*5	5*5	5*5	5*5	
	Fan	Dia*Qty(mm)	φ223*2(15W*2)	φ223*2(15W*2)	φ223*2(15W*3)	φ223*2(15W*3)	φ223*2(15W*4)
		Air volume (m <sup>3</sup> /hr)	820*2	820*2	820*3	820*3	820*4
Pipe Conn. mm (inch)	Suction (Dia.)		φ12.7(1/2")			φ15.88(5/8")	
	Liquid (Dia.)		φ9.52(3/8")				
Dimension (mm)	L(mm)		680	790	940	1145	1230
	W(mm)		480	520	540	540	540
	H(mm)		275	275	275	275	275
Installation	L*W		650*450	760*490	910*510	1105*510	1200*510
Capacity	Evaporating Temp (°C)		Capacity: W, Condensing Temp: 45°C, Ambient temperature: 32°C				
	-40		/	/	1291 ( 1110 )	1379 ( 1186 )	1850 ( 1591 )
	-35		/	/	1621 ( 1394 )	1659 ( 1427 )	2306 ( 1983 )
	-30		/	/	2000 ( 1720 )	2041 ( 1755 )	2905 ( 2498 )
	-25		960 ( 825 )	1500 ( 1290 )	2427 ( 2087 )	2515 ( 2163 )	3541 ( 3045 )
	-20		1195 ( 1028 )	1830 ( 1574 )	2903 ( 2497 )	3068 ( 2638 )	4043 ( 3476 )
	-15		1500 ( 1290 )	2100 ( 1806 )	3424 ( 2945 )	3687 ( 3170 )	4734 ( 4071 )
	-10		1850 ( 1591 )	2500 ( 2150 )	3986 ( 3428 )	4359 ( 3749 )	5638 ( 4848 )
-5		2200 ( 1892 )	2900 ( 2494 )	4582 ( 3941 )	5068 ( 4358 )	6786 ( 5835 )	
Connection capacity	Leakage protector	Rated current	10	15	20	25	30
		Leakage current	30	30	30	30	30
	Wire dia (mm <sup>2</sup> )	10m IN10m	2	2	4	4	4
		20m IN20m	2.5	2.5	6	6	6
		30m IN30m	2.5	2.5	6	6	6

**BOX TYPE PACKAGED CONDENSING UNIT (R404A)**

PANASONIC/SANYO Vertical Rotary Compressor

Model	LURT-PBY10SL	LURT-PBY15SL	LURT-PBY25SL	LURT-PBY30SL		
Horse Power	1HP	1.5HP	2.5HP	3HP		
Power	220V/1PH/50Hz					
Evaporating temp range (°C)	-45 ~ -5					
Ambient temp range (°C)	-7 ~ 43					
Refrigerant	R404A					
Compressor model	C-R133L4AL	C-R220L4AL	C-3R322L4AAL	C-3R463L4AAL		
Pressure control	H20PS B 2.8MPa ~ 2.2MPa					
	H20PS A 0.05MPa ~ 0.15MPa					
Condenser	Spec.(Raw*tube*Lmm)		2*10*710mm	2*11*780mm	2*13*780mm	2*16*880mm
	Fan motor qty		1			
	Motor power supply		220V/1PH/50Hz			
	Motor power(W)		25	40	40	60
Pipe (mm)(inch)	Suction OD		12.7(1/2")		15.88(5/8")	
	Liquid outlet OD		6.35(1/4")		9.53(3/8")	
Dimension (mm)	L±3		780	845	840	950
	W±3		320	350	380	425
	H±3		545	600	715	840
Pitch of hole(Hole-L*W (mm*mm))		φ10-505*280	φ10-495*310	φ9-510*350	φ15-575*390	
Cooling capacity	Evap.Temp ( °C )		Cooling capacity: W Ambient Temp: 32°C			
	-40		505	840	1260	1620
	-35		655	1090	1580	2080
	-30		810	1190	1890	2630
	-25		975	1545	2310	3320
	-20		1190	1865	2730	3955
	-15		1430	2100	3095	4540
	-10		1795	2426	3680	5485
	-5		2135	2790	4100	6485



**BOX TYPE PACKAGED CONDENSING UNIT (R404A)**

GREE/LAMDA Vertical Rotary Compressor



Model		LURT-GBY10SL	LURT-GBY12.5SL	LURT-GBY15SL	LURT-GBY20SL	LURT-GBY25SL	LURT-GBY30SL
Horse Power		1HP	1.25HP	1.5HP	2HP	2.5HP	3HP
Cooling capacity (W)		960W	1060W	1350W	1900W	2000W	2600W
Power		220V/1PH/50HZ					
Refrigerant (Max/Kg)		R404A/1.20Kg	R404A/1.20Kg	R404A/1.40Kg	R404A/2.0Kg	R404A/2.30Kg	R404A/2.50Kg
Max working current (A)		5.2A	4.6A	6.8A	9.3A	10.2A	13.2A
Evaporating temp range (°C)		-20°C~10°C	-20°C~10°C	-20°C~10°C	-20°C~10°C	-20°C~10°C	-20°C~10°C
Ambient temp range (°C)		30~45°C	30~45°C	30~45°C	30~45°C	30~45°C	30~45°C
Condenser	Fan motor	Motor power supply*Qty					
	Fan Dia (mm)	25W*1	25W*1	25W*1	60W*1	60W*1	60W*1
Pipe(mm)	Suction OD	401mm	401mm	401mm	440mm	440mm	440mm
	Liquid outlet OD	12.7mm	12.7mm	12.7mm	15.88mm	15.88mm	15.88mm
Dimension (mm)	L±2	9.52mm	9.52mm	9.52mm	9.52mm	9.52mm	9.52mm
	W±2	780mm	780mm	780mm	900mm	900mm	900mm
	H±4	258mm	258mm	258mm	360mm	360mm	360mm
Cooling capacity (W)	Evap.Temp (°C)	Cooling Capacity:W					
	-20	540mm	540mm	540mm	700mm	710mm	860mm
	-15	1168W	1458W	1794W	2491W	2692W	3350W
	-10	1502W	1764W	2207W	3006W	3324W	4067W
	-5	1931W	2134W	2714W	3672W	4103W	4937W
Wiring	Leakage protector	2208W	2589W	3229W	4402W	4862W	6078W
	Rated current(A)	25A	25A	25A	25A	25A	25A



**BOX TYPE PACKAGED CONDENSING UNIT (R404A)**

HITACHI/HIGHLY Vertical Rotary Compressor



Model		LURT-HBY10SM	LURT-HBY15SL	LURT-HBY20SL	LURT-HBY30SL	LURT-HBY35TL
Horse Power		1HP	1.5HP	2HP	3HP	3.5HP
Evaporating temperature Range °C		-25°C-10°C	-40°C-10°C			
Refrigerant		R404A				
Power Supply		220V/1PH/50Hz				380V/3PH/50Hz
Compressor Model		WHP03900DCV-C4AT	WHP05180DCV-G4AQ	WHP07140DCV-G4AQ	WHP09800DCV-C9EU	DTH488LC3-C9EU
Compressor Capacitor		35	50	50	60	-
Fan motor	Power(W)	53W	53W	53W	53W	53W
	Dia	φ496*150	φ496*150	φ496*150	φ496*150	φ496*150
	Air volume (m <sup>3</sup> /hr)	2800	2800	2800	3200	3200
Condenser copper tube		φ9.52/13U	φ9.52/13U	φ8/30U	φ8/36U	φ8/36U
Cooling Area (m <sup>2</sup> )		11	11	19	29	29
Check valve		6+12.7	6+12.7	6+12.7	9.52+15.88	9.52+15.88
Throttling configuration		Thermostatic expansion valve(Equipped by user)				
At -18°C	Room volume(m <sup>3</sup> )	4-8	6-10	8-15	15-20	15-20
	Suggest Evaporator	DD/12	DD/12	DD/15	DD/22	DD/22
	Suggest expansion valve model	2/3 S	1 S	1 S	1.5S	1.5S
At -25°C	Room volume(m <sup>3</sup> )	/	4-8	6-10	10-12	10-12
	Suggest Evaporator	/	DJ/10	DJ/13	DJ/15	DJ/15
	Suggest expansion valve model	/	2/3 S	1 S	1.5S	1.5S
Capacity	Evaporating Temp (°C)	Testing at Condensing Temp: 45°C				
	-40°C	/	932	1379	1850	1850
	-35°C	/	1079	1659	2306	2306
	-30°C	/	1275	2041	2905	2905
	-25°C	1128	1536	2596	3541	3541
	-20°C	1378	1877	2972	4043	4043
	-15°C	1698	2312	3479	4734	4734
	-10°C	2097	2856	4138	5638	5638
-5°C	2587	3524	4971	6786	6786	
Products dimension (mm)		843*315*700	843*315*700	843*315*700	900*320*860	900*320*860
Packing dimension (mm)		1005*425*780	1005*425*780	1005*425*780	1065*415*950	1065*415*950
(Installation dimension (LXW)mm)		565*335	565*335	565*335	590*335	590*335