LU118XY1 COMPRESSOR TECHNICAL SPECIFICATION



HUANGSHI DONGBEI ELECTRICAL APPLIANCE CO., LTD. 2020. 08



INDEX

		page
1.	Compressor Type	2
2.	Performance Data	2
3.	Running Condition	2
4.	Compressor Mechanical Information	3
5.	Compressor Shape	3
6.	Wiring Diagram	4
7.	Starting relay and overload protector	4
8.	Capacitor	5
9.	Delivery State	5
10.	Package、Storage and Transportation	6
11.	Technical Items	6



1. Compressor Type

Compressor model	LU118XY1
Rated voltage/frequency	110-127V∼ 60Hz
Refrigerant	R600a
Application	Low/Middle back pressure (L/MBP)
Cooling method	Static
Start torque	Low starting torque (LST)
Control device	Capillary tube
Motor type	RSCR
Running capacitor	12μF

2. Performance Data

Displacement	Wt.	Charge		(Cooling	g Capacit	y(≥95%)		COP(≥95%)
Net Net Oil C			ASHRAE					ASHRAE		
			-35	-30	-25	-23.3	-20	-15	-10	-23.3
cm ³	kg	ml	W	w	w	w	w	w	w	w/w
11.2	8.9±0.4	190±10	102	147	203	220	262	319	405	1.59

Testing condition:

T. 4 1'4'	LBP		
Test conditions	ASHRAE	CECOMAF	
Evaporating Temp.	-23.3°C	-25°C	
Ambient Temp.	+32.2°C	+32°C	
Condensing Temp.	+54.4°C	+55°C	
Suction Temp.	+32.2°C	+32°C	
Subcooling Temp.	+32.2°C	+55°C	

3. Running Condition

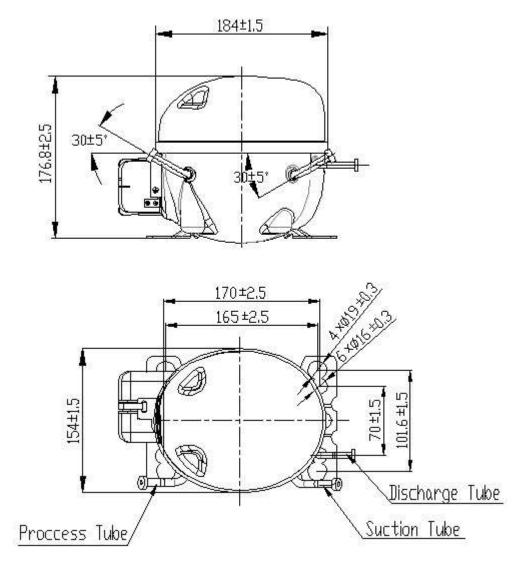
Ambient temp.	0~43°C
Evaporating temp.	-35∼0°C
Voltage range	97~134V
Max. condensing temp.	65°C
Max. winding temp.	120°C
Max. shell temp.	95°C
Max. discharge temp.	110°C
Start voltage	97V [0.25/0.25 (abs)]
Shell min. resistance to pressure	35bar



4. Compressor Mechanical Information

Oil type	Synthetic oil
Viscosity	$4.2\sim6.4$ mm ² /S (40° C)
Oil charged	190±10ml
Diameter of suction tube(I.D.)	Φ6.5±0.1mm
Diameter of discharge tube(I.D.)	Φ4.9±0.1mm
Diameter of process tube (I.D.)	Φ6.5±0.1mm
Material of suction tube, process tube and discharge tube	copper tube
Compressor noise	43dB(A)
Vibration	0.7m/s^2
Protecting gas	Dry com.air (Dew point-60°C)

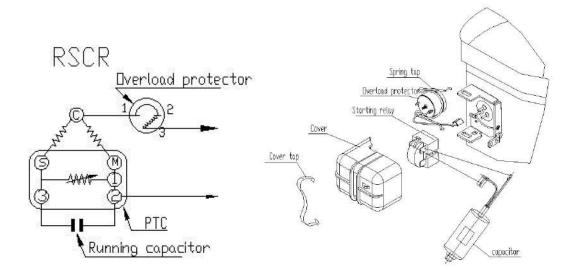
5. Compressor Shape



Caution:Suction tube and process tube can not be exchanged



6. Wiring Diagram



Note: Each of the starting relay, overload protector, the capacitor, the spring tap, the cover and the cover tap and are separately provided by our company.

7. Starting relay and overload protector

7.1 Starting relay

Starter Model: QPS2-A4R7MD3

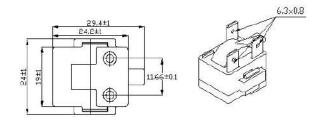
Type: Starting relay max current: 12A

First Assembly Force ≤ 100N, The Sixth Disassembly Force ≥ 25N

Starting relay Supplier: Hangzhou Star shuaier Electric Appliance Co.,Ltd.

Flammability: Anti-flammability

QPS2-A4R7MD3



7.2 Overload protector

	Compressor model		LU118XY1		
	Туре		DRB-B128-120	B128-120	
	Max.T.C Amp.(25°C) A		12.8		
Protector	Trip time	S	5~16		
Protector	Reset time	S	10~80		
	Open temp.	±5℃	120		
	Close temp.	±9℃	61		



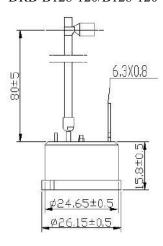
First Assembly force ≤80N, The Sixth Disassembly force ≥12.5N

Overload protector Supplier: Hangzhou Star shuaier Electric Appliance Co.,Ltd.

Changshu Tianyin Electromechanical Co. Ltd.

Flammability: Anti-flammability

DRB-B128-120/B128-120



8. Capacitor

С	compressor model	LU118XY1
	Model μF	12
	Rated voltage V.AC	250
Capacitor		Anhui feida Electrical Technology CO.,LTD
	Ningguo Yuhua Electrical Product CO.,LTD	
	Supplier and model	Shanghai Haoye Electric CO.,LTD
		Anhui Tongfeng Electronics CO.,LTD

9. Delivery State

No.	Name	Model	Quantity	Remarks
1	Compressor	LU118XY1	1pcs	
2	D 11 1	Ф6.4	1pcs	Installed
	Rubber plug	Ф8.2	2pcs	Installed
3	Spring tap	QS08-06A	1pcs	Installed
4	Rubber grommet	G model	4pcs	
5	Starting relay	QPS2-A4R7MD3	1pcs	
6	Organia a di musta atau	DRB-B128-120	1,000	
0	Overload protector	B128-120	1pcs	
7	Capacitor	12μF	1pcs	
8	Cover	S1A	1pcs	
9	Cover tap	QS08-05H	1pcs	·

Notes:1.All electrical parts and equipment assembly are supplied separately, not installed on the compressor, except the ones noted "Installed".

2.All electrical parts and equipment assembly according to delivery states are all provided by our company.



10. Package, Storage and Transportation

Package type	unrecyclable	
Quantity	80pcs/box	
Transportation	By Sea	
Storage	Max. 2 layers	
Cross Weight Kg	747 ± 32	
Net Weight Kg	712±32	
Net WeightKgVolumem³	0.99	
Dimension: length×width×height (cm)	114×89×99	
	Wooden supporter upper wooden	
Main components	cover, foam divider, plastic sheet,	
	cardboard cover, wrapping.	
Movement	Keep the compressor in normal or	
Movement	vertical position.	
Tuesday toot many income ant	No allowable compressor's damage	
Trans. test requirement	and performance loss.	

11. Technical Items

- (1) Don't take off the rubber plugs before using and installing compressor to prevent dust and moisture.
- (2) Don't turn down or incline the compressor during storage, transportation or installation and avoid vibration and shock.
- (3) The compressor must be kept horizontally during running, the inclination angle must be less than 5°.
- (4) A special polyester oil is charged in the R600a compressor and the charging volume has been optimized by DONPER. Don't pour out or add any refrigerant oil.
- (5) The interval of compressor operation must be more than 4 minutes in order to obtain a pressure balance in the systems.
- (6) \ Don't start or run in the case of vacuum or charge high voltage in the compressor. The compressor cannot be used to vacuumize the refrigeration system.
- (7) The design of refrigeration system must be suitable to insure the oil could flow back to compressor.
- (8) The maximum ambient temperature of the compressor operation is 43°C. When continuously operating under the maximum ambient temperature 43°C, the condensing pressure and the peak pressure should not exceed as showing in the following table.

Refrigerant	R600a
Max. condensing pressure	0.87MPa
Peak	0.98Mpa

- (9) Widen the evaporating Temp. range of the compressor should be approved by DONPER.
- (10) Compressor should be stored in a dry place.
- (11) Compressor accessories (eg: capacitor cover etc.) are put in the accessories box instead of fixing on the compressor.
- (12). The stocking period must be less than 6 months after the date of production. If longer, you have to



check whether the filled gas is sufficient. Replenishment must be done if necessary.

- (3) . It's necessary to keep the compressor without rubber plug as short time as possible (max time 10 min).
- $^{(14)}$ 、 R600a systems require a filter with drying agent whith suitable for R600a refrigerant
- $_{(15)}$. The vacuum pump and the charging system must only be dedicated to R600a.
- (6) The refrigeration system should minimize the content of chlorion and moisture, and must be free of paraffin and silicon oil.
- (17) The organic substance non-compatable with R600a cannot be used in the refrigeration system.