

# Unionaire PUQ012HR5R0WPK 12000 BTU Heat Pump Compressor Technical Specifications and R22 System Overview

Category: air conditioner

written by [www.mbsm.pro](http://www.mbsm.pro) | 9 February 2026



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The Unionaire PUQ012HR5R0WPK is a robust 12,000 BTU reversible heat pump system designed for demanding climates. Utilizing an R22 rotary compressor, this unit balances efficiency and reliability. Our technical breakdown covers electrical parameters, pressure ratings, and compatible replacements, providing field workers with the essential data needed for professional maintenance, system repairs, and component sourcing.

# Unionaire G+ ITWG 022 R5 Air Conditioner Specifications, 21500 BTU Cooling Capacity, Technical Manual and Installation Guide

Category: air conditioner, Mbsmpro  
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The Unionaire G+ ITWG 022 R5 represents a robust cooling solution engineered for demanding Mediterranean and Middle Eastern climates. Delivering a potent 21,500 BTU/Hr cooling capacity, this Egyptian-manufactured indoor unit balances high-volume airflow with structural durability. Designed for 220-240V/50Hz systems, it features an IPX4 rating and a compact 12.5 kg chassis for versatile wall-

mounted installation.

# Refrigerants, Standing, Suction and Discharge Pressures for Modern HVAC Systems

Category: Refrigeration

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List of some Common Refrigerants						
Standing, Suction, Discharge Pressure & Boiling Temperature						
Refrigerant Name	Cylinder Colour Code	Standing Pressure	Suction Pressure	Discharge Pressure	Boiling Point Temp.	Replacement For
R22		150-155 psi	60-70 psi	250-300 psi	-40.8°C	R11
		1034.2-1068.6 kPa	413.7-482.6 kPa	1723.6-2068.4 kPa		
R134A		80-95 psi	12-15 psi	150 psi	-26.2°C	R12
		551.5-655 kPa	82.7-103.4 kPa	1034.2 kPa		
R600A		40-50 psi	Below 0-1 psi	150 psi	-11.7°C	
		275.8-344.7 kPa	Below 0-6.8 kPa	1034.2 kPa		
R32		240-245 psi	110-115 psi	175-375 psi	-52.0°C	
		1654.7-1689.2 kPa	758.4-792.9 kPa	1206.6-2585.5 kPa		
R290		125-130 psi	65-70 psi	275-300 psi	-42.1°C	
		861.8-896.3 kPa	448.2-482.6 kPa	1896-2068.4 kPa		
R407C		180-185 psi	75-80 psi	275-300 psi	-45.0°C	R22
		1241-1275.5 kPa	517.1-551.6 kPa	1896-2068.4 kPa		
R404A		180-185 psi	80-90 psi	275-300 psi	-46.2°C	R502
		1241-1275.5 kPa	551.6-620.5 kPa	1896-2068.4 kPa		
R410a		225-230 psi	120-130 psi	450-500 psi	-51.4°C	R22
		1551.3-1585.8 kPa	827.4-896.3 kPa	3102.6-3447.4 kPa		
R417		140 psi	65 psi	261 psi	-39.0°C	R22
		965.3 kPa	488.2k Pa	1799.5 kPa		

1Bar = 100kPa or 14.5 psi

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Explore a practical refrigerant pressure chart with typical standing, suction and discharge pressures plus boiling points for R22, R134a, R32, R404A, R407C, R410A, R290, R600a and R417A.

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Mbsm.pro, Compressor, copeland,  
CRC1-0175-PFU-501, 2 ton, 2.25 hp,  
r22, compatible, ESAH-18CH, 18000  
btu, 1920 w

Category: compressor

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Mbsm.pro, Compressor, copeland, CRC1-0175-PFU-501, 2 ton, 2.25 hp, r22,  
compatible, ESAH-18CH, 18000 btu, 1920 w

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Mbsm.pro, Compressor , Copeland,  
CRFQ-0250-PFV-501, 2.5 hp, CRDQ-0200-  
PFJ-501, 2 hp, r22

Category: expertise



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Mbsm.pro, Compressor , Copeland, CRFQ-0250-PFV-501, 2.5 hp, CRDQ-0200-PFJ-501, 2 hp, r22

Mbsm.pro, Compressor, PH31VNET, r22, 1-1/2 hp, 1-1/2 Ton, 18000 btu/h, Capacitor 45uf, 1 ph/220v

Category: compressor

TTA180RD00QA						
TTA100RD00PA, TTA200RD00PA	SM120	015-0228	102,800	380/3/50	43,500.00	
TTA120RD00PA, TTA240RD00PA	SM148	015-0228	123,100	380/3/50	48,000.00	

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SCROLL COMPRESSOR ( FOR 10-15 TONS )

TRANE CDU MODEL	MODEL	P/N	BTUH	V/Ph/Hz	LISTED PRICE
RAUP400	SM120	015-0228	102,800	380/3/50	43,500.00
RAUP500, RAUP500 (CSHA-1500)	SM165	015-0228	132,800	380/3/50	52,000.00
RAUP600, RAUP600 (CSHA-1500)	SM185	015-0228	153,000	380/3/50	57,500.00

ROTARY COMPRESSOR ( FOR 0.75-5 TONS )

TRANE CDU MODEL	MODEL	P/N	BTUH	V/Ph/Hz	LISTED PRICE
WTKS07AB00/E/G/FBA	RH135VHAT	015-0156	7,777	220/1/50	4,400.00
TTKS09PBSEDA	RH154VHST	015-0223	9,087	220/1/50	4,600.00
TTKS09PB, WTKS09AB00E/G/FBA	RH165VHET	015-0240	9,603	220/1/50	4,550.00
TTKS12QB, TTKS12LB, TTK015QB,	RH207VRFT	015-0268	12,290	220/1/50	4,300.00
TTKS12LB5, TTKS12MB5,					
TTKS12PB, WTKS12AB00E/G/FCA					
TTKS15LB00CA, TTKS15QB00AA	RH277VHST	015-0246	16,541	220/1/50	6,700.00
TTKS18LB00DA, TTKS18QB00AA,	RH313VAGT	015-0270	18,660	220/1/50	7,000.00
WTKS18AB00E/G/FCA					
TTK015QB, TTKS15LB,	PH28VNET	015-0148	16,705	220/1/50	7,000.00
TTK018QB, TTKS18LB					
TTKS18LB5, TTKS18MB5,	PH31VNET	015-0149	18,570	220/1/50	7,200.00
TTKS18PB, WTKS18AB00E/G/FBA					
TTKS18LB50HA	RH295VAST	015-0334	17,640	220/1/50	6,900.00
NON TRANE MODEL	PH33VNET	999-15043	20,395	220/1/50	7,000.00
WTKS24AB00E/G/FBA	PH39VPET	015-0225	23,490	220/1/50	7,600.00
TTKS24MB00E/F/GA,	PH41VPYT	015-0299	25,655	220/1/50	8,000.00
TTKS24QB00A/BA, TTKS24LB00GA					
TTK024QB, TTKS24LB, TTKS24MB	NH41VXBT	888-150055	25,828	220/1/50	9,200.00
TTKS24PB00EGA	NH44VXBT	888-150048	26,617	220/1/50	9,100.00
NON TRANE MODEL	NH47VXBT	888-150049	29,514	220/1/50	9,300.00
TTK030QB, TTKS30MB,	NH52VXBT	015-0284	33,008	220/1/50	9,200.00
TTKS30QB, WTKS30AB00E/G/FCA					
TTK036QB, TTKS36QB,	NH56VXBT	015-0276	36,072	220/1/50	9,900.00
WTKS36AB00E/G/FCA					
TTK036QD, TTKS36QD,	NH56YXCT	015-0277	36,338	380/3/50	10,700.00
WTKS36AD00E/G/FCA					

Mbsm.pro, Compressor, PH31VNET, r22, 1-1/2 hp, 1-1/2 Ton, 18000 btu/h, Capacitor 45uf, 1 ph/220v

Mbsm.pro, Compressor, CRAQ-0150-PFV-501, Copeland, 1-1/2 HP, 208-230V, 1 PH, 17,000 BTU, R22, R407C, Hermetic

Category: compressor

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### Copeland™ Three Phase Compressor Models

TONNAGE	CR6/5 Ton	CRKQ	CR7	CR1,2,3	CRKF	CRKH	ZRK5/K3	Code	Hz-Phase-Volts
1.5T	CR18K6-TF5	CR18KQ-TF5		CRA1-0150-TF5				PFV	60-1-208/230
	CR18K6-TFD	CR18KQ-TFD		CRA1-0150-TFC				PFJ	60-1-265
	CR22K6-TF5			CRA1-0150-TFD				TF5	60-3-200/230
2T	CR22K6-TFD			CRC1-0175-TF5			ZR21K5-TF5	TFD	60-3-460
	CR24K6-TF5	CR24KQ-TF5		CRD1-0200-TF5			ZR21K5-TFD	TFE	60-3-575
	CR24K6-TFD	CR24KQ-TFD		CRD1-0200-TFD			ZR25K5-TF5		
	CR28K6-TF5	CR28KQ-TF5	CR28K7-TF5	CRE1-0225-TF5			ZR25K5-TFD		
	CR28K6-TFD	CR28KQ-TFD		CRE1-0225-TFD			ZR28K5-TF5		
	CR30K6-TF5						ZR28K5-TFD		
	CR30K6-TFD	CR30KQ-TFD		CRF1-0250-TFD			ZR28K5-TFD		
	CR32K6-TF5	CR32KQ-TF5	CR31K7-TF5	CRF1-0250-TF5			ZR28K5-TFD		
	CR32K6-TFD	CR32KQ-TFD		CRG3-0250-TF5			ZR32K5-TF5		
	CR32K6-TFE	CR32KQ-TFD		CRG3-0250-TFD			ZR32K5-TFD		
3T	CR32K6-TFE	CR33KQ-TFD					ZR32K5-TFE		
	CR35K6-TF5	CR34KQ-TF5		CRH3-0275-TF5			ZR32K5-TF5		
	CR35K6-TFD	CR36KQ-TF5		CRH3-0290-TF5			ZR32K5-TFD		
	CR35K6-TFE	CR34KQ-TFD		CRH3-0275-TFD			ZR32K5-TFD		
	CR38K6-TF5	CR37KQ-TF5		CRH3-0275-TFE			ZR32K5-TFE		
	CR38K6-TFD	CR37KQ-TFD		CRJ3-0300-TF5			ZR38K5-TF5		
	CR38K6-TFE	CR37KQ-TFD		CRJ3-0300-TFD			ZR38K5-TFD		
	CR38K6-TFE	CR37KQ-TFE		CRJ3-0300-TFE			ZR38K5-TFE		
	CR42K6-TF5	CR41KQ-TF5		CRK3-0325-TF5			ZR42K5-TF5		
	CR42K6-TFD	CRKQ-0325-TF5					ZR42K5-TFD		
3.5T	CR42K6-TFE	CR41KQ-TFD		CRK3-0325-TFD			ZR42K5-TFE		
	CR42K6-TFE	CRKQ-0325-TFE		CRK3-0325-TFE			ZR42K5-TFE		
	CR42K6-TFE	CR47KQ-TF5		CRL3-0350-TF5			ZR48K5-TF5		
4T	CR47KQ-TFD		CRI 3-0350-TFD			ZR48K5-TFD			

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[copeland-service-cr-compressor-cross-reference-manual-guide-en-us-1569036Download](#)

The compressor model CRAQ-0150-PFV-501 is a Hermetic compressor manufactured by Copeland. It is a 1-phase, 208/230V compressor designed for air conditioning applications. The compressor uses HCFC or R-22 refrigerant and operates at 60Hz. Here are some of the key specifications of the CRAQ-0150-PFV-501 compressor:

- **Capacity:** 18,300 – 23,900 BTU/hr
- **Power:** 1,910 – 1,520 W
- **Current:** 8.8 – 7.0 Amps
- **EER:** 9.6 – 15.7 BTU/Wh
- **Mass Flow:** 268 – 308 lbs/hr
- **Sound Power:** 72 – 77 dBA
- **Vibration:** 1.7 – 2.7 mils (peak-peak)
- **Displacement:** 2.00 in<sup>3</sup>/Rev
- **Overall Length:** 9.44 in
- **Overall Width:** 9.13 in
- **Overall Height:** 13.56 in
- **Mounting Length:** 7.50 in
- **Mounting Width:** 7.50 in
- **Mounting Height:** 13.94 in
- **Suction Size:** 5/8 in
- **Discharge Size:** 3/8 in
- **Initial Oil Charge:** 55 oz
- **Oil Recharge:** 51 oz
- **Net Weight:** 61.0 lbs
- **Internal Free Volume:** 345.0 in<sup>3</sup>

This compressor is no longer in production and has been replaced by newer, more efficient models. However, it is still a popular choice for replacement applications due to its reliability and performance.

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## Mbsm.pro, Compressor, QX-34F050, 2 hp, r22, GREE, Rotary Compressor, 20185Btu

Category: compressor

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QX-34F050 is a model number for a rotary compressor, specifically the Gree Landa Compressor QX-34F050gA.

**Key Features:**

- **Refrigerant:** R22
- **Input Power:** 1810W
- **Cooling Capacity:** 20185 BTU/H
- **Voltage:** 220-240V, 50Hz
- **Applications:** Air conditioning, dryers, refrigeration, chillers, etc.



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### ROTARY COMPRESSOR NOMENCLATURE

#### 命名方式一 Naming Rule I

Q X C S H - B 17 x B 0 90 A

旋转压缩机 Rotary Compressor



代号 Code	制冷剂 Refrigerant
.....	R22
A	R410A
B	CO2
C	R407C
D	R290
E	R134a
F	R32
G	R404A
I	R417A
J	R600a

代号 Code	气缸结构 Structure of Cylinder
.....	单缸 Single Cylinder
S	双缸双级 Twin-Cylinder & Single-stage
T	双缸双级 Twin-Cylinder & Two-stage
V	双缸双级 Twin-Cylinder & Variable Displacement
N	双缸双级 Twin-Cylinder & Two-stage & Variable Displacement
W	三缸双级 Twin-Cylinder & Two-stage & Variable Displacement

代号 Code	应用 Application
.....	T1
H	T3
R	热泵 Heat Pump
L	低温冷藏 Low Temp. Refrigeration
K	除湿机 Dehumidifier
M	干衣机 Clothes Dryer
O	除湿机 Dehumidifier
Y	除湿机 Dehumidifier
P	低电压应用 Low Voltage AC

系列代号 Code of Series	定子外径 Outer Dia. of Stator
A	Φ101
B	Φ112
C	Φ121.7
D	Φ125
E	Φ133.5
F	Φ139
G	Φ88
H	Φ161
I	Φ56.6
J	Φ61.4
M	Φ107
N	Φ94
T	Φ150
P	Φ50.2
U	Φ89.8

代号 Code	电源 Power supply
.....	220V-240V, 50Hz
f	208V-230V, 60Hz
x	115V, 60Hz
v	127V, 60Hz
j	交流变频 AC inverter
z	直流变频 DC inverter
s	380V, 50Hz, 三相电源 Three-phase power supply
w	220V, 60Hz, 三相电源 Three-phase power supply
y	285V, 60Hz
u	230V, 50Hz
t	220V, 60Hz
m	380V, 60Hz, 三相电源 Three-phase power supply

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Model	QX-34F050gA
Displacement	33.7ML/REV
Input	1810W
Capacity	5916W 20185BTU/H
Refrigerant	R22
Voltage	220-240V.50HZ
Cop	3.27W/W
Height	327mm
Usage	T1 working condition

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T1 R22 [1φ] 220-240V 50Hz

系列 Series	压缩机型号 Model	排量 Displ. (CC)	冷量 Capacity (Btu/h)	制冷量 Refrigerating capacity (W)	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)	压缩机高度 Compressor height (mm)	测试工况 Test conditions
C	QX-C202	20.2	12912	3784	870	4.35	35μF/450V	293	高性能工况
		20.2	13608	3360	1050	3.20			ASHRAE/T
	QX-C214	21.1	12010	3988	917	4.35	35μF/450V	293	高性能工况
		21.1	12564	3520	1100	3.20			ASHRAE/T
	QX-C217	21.7	12564	3682	1150	3.20	35μF/450V	293	ASHRAE/T
	QX-C222	22.2	12999	3810	1189	3.20	35μF/450V	293	ASHRAE/T
QX-C229	22.9	13384	3917	1223	3.20	35μF/450V	293	ASHRAE/T	
QX-C238	23.8	13817	4049	1277	3.17	35μF/450V	293	ASHRAE/T	
D	QX-D273	27.3	15870	4651	1452	3.20	45μF/450V	307	ASHRAE/T
	QX-D287	28.7	16719	4985	1539	3.30	50μF/450V	307	ASHRAE/T
	QX-D29	29.0	16810	4927	1579	3.12	40μF/450V	307	ASHRAE/T
	QX-D295	29.8	17333	5080	1539	3.30	50μF/450V	307	ASHRAE/T
	QX-D305	30.7	17913	5250	1591	3.30	50μF/450V	307	ASHRAE/T
	QX-32	31.5	18654	5467	1735	3.15	45μF/450V	307	ASHRAE/T
QX-D336	33.6	20185	5916	1896	3.12	50μF/450V	307	ASHRAE/T	
F	QX-F295	29.6	19517	5720	1285	4.45	45μF/450V	321	高性能工况
	29.6	17469	5120	1552	3.30	45μF/450V	ASHRAE/T		
	QX-F305	30.6	20421	5985	1345	4.45	50μF/450V	311	高性能T况
	30.6	18049	5290	1603	3.30	50μF/450V	311	ASHRAE/T	
	QX-F325	32.5	19350	5671	1746	3.25	50μF/450V	312	ASHRAE/T
	QX-34	33.7	20185	5916	1810	3.27	55μF/450V	327	ASHRAE/T
QX-F36	35.6	21325	6250	1923	3.25	55μF/450V	327	ASHRAE/T	
QX-37	36.8	22100	6477	1991	3.25	60μF/450V	327	ASHRAE/T	

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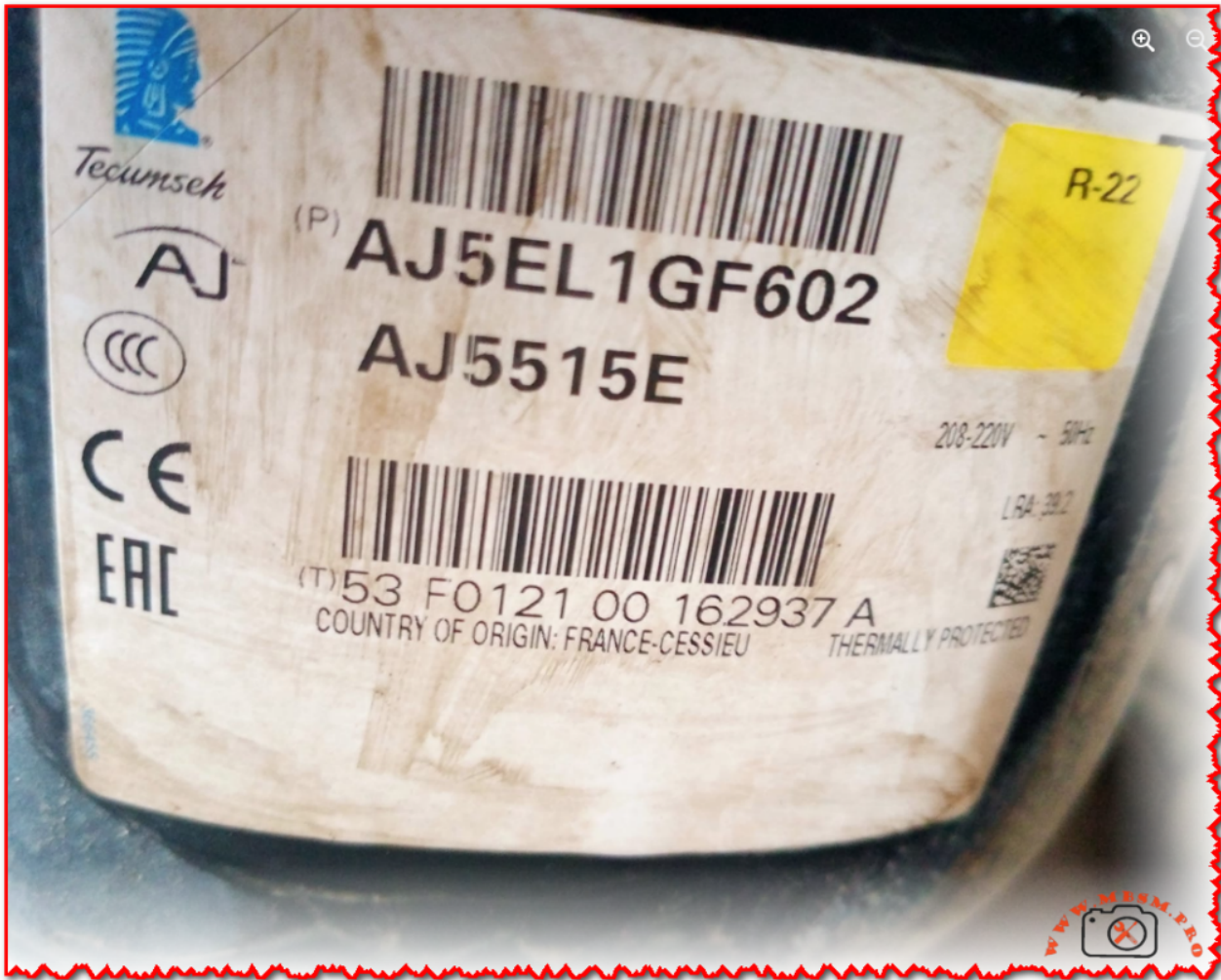
<b>Brand Name</b>	GREE LANDA	<b>Application</b>	Air condition
<b>Model Number</b>	QX-34F050gA	<b>Type</b>	Rotary Compressor
<b>Cooling Capacity(Btu)</b>	20185Btu/h	<b>Horse Power</b>	2HP
<b>Refrigerating capacity(W)</b>	5916W	<b>Displacement(CC)</b>	33.7
<b>Refrigerant</b>	R22	<b>Weight</b>	20KG
<b>Power</b>	1810W	<b>Phase</b>	1
<b>Certification</b>	CE, RoHS	<b>Voltage</b>	220-240V
<b>Height(mm)</b>	327	<b>Frequency</b>	50Hz
<b>Capacitor</b>	55μf/450V	<b>Warranty</b>	1 year
<b>Dimensions of Mouting Plate</b>	φ170	<b>Mouting Plate Angle</b>	50
<b>MOQ</b>	1 pallet	<b>Price</b>	60~80PCS USD 76.95
<b>Place of Origin</b>	China (Mainland)	<b>Port</b>	Zhuhai Airport

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Mbsm.pro, AJ5515E-FZ3C, AJ5515E, AJ5EL1GF602, Tecumseh, 1-1/4 hp, R22, Tecumseh compressor, Hermetic piston

Category: compressor

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Mbsm.pro, AJ5515E-FZ3C, AJ5515E, AJ5EL1GF602 , Tecumseh, 1-1/4 hp, R22, Tecumseh compressor, Hermetic piston

Mbsm.pro, 104L2120, DANFOSS, REFRIGERATION, Reciprocating, compressor, SC18CM, 3/4 hp, lbp, r22, 220v/50hz/1ph

Category: compressor

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Mbsm.pro, 104L2120, DANFOSS, REFRIGERATION, Reciprocating, compressor, SC18CM, 3/4 hp, lbp, r22, 220v/50hz/1ph