

# Cold room, Copeland, ZR scroll, compressor, ZR144KCE-TFD-550, 12HP Copeland Scroll Compressor, Hermetic Compressor Specifications

Category: compressor

written by Lilianne | 13 December 2021

**Type:** Hermetic scroll compressors **Producer:** Copeland **Series:** ZR

**Model:** ZR144KCE-TFD

## Technical data

Displacement [m <sup>3</sup> /h]:	33,2
Sound power [dBA]:	75
Sound pressure level [dB]:	64
Net Weight [kg]:	61,2
Gross Weight [kg]:	72
Oil charge [dm <sup>3</sup> ]:	3,3
Maximum high pressure [bar]:	32
Maximum standstill pressure [bar]:	20
Minimal lowside temperature [°C]:	-35
Maximum lowside temperature [°C]:	52
PED category:	2

## Electrical data

Power supply [V~/Hz]:	380-420/3/50Hz
Locked rotor current [A]:	118
Max. operating current [A]:	22,3
Winding resistance [Ω]:	1,2

## Connections

Suction connection with supplied sleeve:	1 3/8" inches
Discharge connection with supplied sleeve:	7/8"
Compressor Copeland Scroll ZR144KCE-TFD-425, R407C, 380-420V	
Type of engine:	TFD
Displacement:	33.2 m <sup>3</sup> / h (191,23 cm <sup>3</sup> )
Cooling capacity (0 ° C):	20.00 kW.
Oil quantity:	3.38 L.
Noise level:	61 dBA – 1 m.
Max. Noise level:	75 dBA.
Max. Operating current (FLA):	22.3 A.
LRA:	118.0 A.
Connectors:	1.3 / 8 "x 7/8".
Dimensions (LxWxH):	264x285x533 mm
Net Weight:	61.2 kg

<b>Shipping Class</b>	Standard
<b>Scope Of Application</b>	HBP

<b>Lieferzeit</b>	Ca. 10-14 Tage
<b>Type Of Construction</b>	Scroll
<b>Maker</b>	Copeland
<b>Manufacturer No.</b>	ZR144KCE-TFD-425
<b>Style</b>	1
<b>Refrigerants</b>	R407C
<b>Series</b>	ZR
<b>Condensing Units Compressors</b>	Compressors
<b>Suspense</b>	380-420V
<b>Weight In Kg</b>	61

Model	Horse Power (HP)	Cooling capacity(w)	InputPower(kw)	Current (A)	Bottom corner size(mm)	Weight(KG)
ZR144KC-TFD-550	12	34730	10.87	19.6	190	63



MODEL ZR144KCE - TFD - 550



SERIAL 13G6771ET



US SA2337



1-OPER MAX	22.3	PED CAT2 / FG2	HIGH SIDE PS = 32.0 BAR
2-OPER MAX	22.3	$\nabla$ (m <sup>3</sup> /h)	PED LOW SIDE
		40.05	TS MIN = -35°C
		33.18	TS MAX = 50°C
		n (min <sup>-1</sup> )	PS = 20.0 BAR
		3500	
		2900	
		BOX	
		IP	
		21	
		93384-016	UA7635 2 THERMALLY PROTECTED

ASSESSMENT

# ADVERTENCIA

Únicamente personal capacitado deberá efectuar el servicio del equipo. El no seguir estas advertencias de seguridad podrá ser causa de lesiones graves o la muerte.

**PELIGRO DE DESCARGA ELECTRICA**

Desconecte la corriente eléctrica antes de dar servicio. Descargue todos los capacitores. Este equipo debe usarse únicamente en un sistema conectado a tierra. Una falta de conexión a tierra puede causar lesiones graves o la muerte.



# PETRA

PETRA ENGINEERING INDUSTRIES CO.  
P.O. BOX 141351 Amman 11814 JORDAN



MODEL

REF. No.

SERIAL NO.

NOMINAL POWER SUPPLY VOLT/Hz /Ph

COMP. MOTOR	QTY	VOLT	LRA	RLA	Max. Amp.	hp
COMP. MOTOR A	<input type="text" value="1"/>	<input type="text" value="380"/>	<input type="text" value="110"/>	<input type="text" value="19 6"/>	<input type="text" value="22 3"/>	<input type="text" value="12"/>
COMP. MOTOR B	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

	QTY	VOLT	Ph	kW	FLA
COND. FAN MOTOR A	<input type="text" value="2"/>	<input type="text" value="380"/>	<input type="text" value="3"/>	<input type="text" value="0 43"/>	<input type="text" value="1 1"/>
COND. FAN MOTOR B	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
EVAP. FAN MOTOR	<input type="text" value="1"/>	<input type="text" value="380"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="8 4"/>
ELECTRIC HEATER	<input type="text" value="3"/>	<input type="text" value="220"/>	<input type="text" value="1"/>	<input type="text" value="3"/>	<input type="text" value="13 6"/>

COIL TEST PRESSURE  Psig REFRIGERANT

MINIMUM WATER LOOP VOLUME (GAL)

CHILLER MINIMUM WATER FLOW RATE (GPM)

Made in Jordan



Manufacturing Year