



Project Report

Refrigerant	R134a
High Side Properties:	
Condensing Temperature, °C	54.40
Abs. Condensing Pressure, bar	14.71
Dew Point, °C	54.40
Bubble Point, °C	54.40
Saturated vapour enthalpy, kJ/kg	426.00
Specific volume of saturated vapour, dm³/kg	13.40
Low Side Properties:	
Evaporating Temperature, °C	7.20
Evaporating Abs. Pressure, bar	3.78
Dew Point, °C	7.20
Bubble Point, °C	7.20
With vapour at, °C	18.30
Specific volume, dm³/kg	57.30
Enthalpy, kJ/kg	413.00
Operating Conditions:	
Evaporating Temperature, °C	7.22
Condensing Temperature, °C	54.44
Suction Superheat, K	11.11
Subcooling, K	8.33
Compressor Selected	ZR61KRE-TFD

PERFORMANCE AT SPECIFIED OPERATING POINT **ZR61KRE-TFD Data at 50 Hz**

Cooling Capacity, kW	9.95
Power, kW	3.09
COP	3.21
Current at 400 V, A	7.16
Suction Mass Flow, g/s	67.80
Heating Capacity, kW	12.90
Isentropic Eff., %	65.56

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.4
Length/Width, mm	246/257
Height, mm	438
Net Weight, kg	37.5
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.9
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	190 x 190 (19)
Sound Pressure @ 1m (HT), dBA	61
Sound Power (HT), dBA	72
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	I
Max. Internal Free Volume, l	4.20
High Side PS gauge, bar	29
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1430
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	12.8
Locked Rotor Current, A	65.6
Winding Resistance, ohm	2.72
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
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ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Mounting Grommets	Standard
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge

MODEL NUMBER

ZR61/72KRE - TFD

ZR69KRE - PFJ

