



Project Report

Refrigerant	R290
High Side Properties:	
Condensing Temperature, °C	45.00
Abs. Condensing Pressure, bar	15.34
Dew Point, °C	45.00
Bubble Point, °C	45.00
Saturated vapour enthalpy, kJ/kg	618.00
Specific volume of saturated vapour, dm³/kg	29.30
Low Side Properties:	
Evaporating Temperature, °C	0.00
Evaporating Abs. Pressure, bar	4.74
Dew Point, °C	0.00
Bubble Point, °C	0.00
With vapour at, °C	10.00
Specific volume, dm³/kg	101.50
Enthalpy, kJ/kg	592.00
Operating Conditions:	
Evaporating Temperature, °C	0.00
Condensing Temperature, °C	45.00
Suction Superheat, K	10.00
Subcooling, K	2.00
Required Capacity, kW	5.00
Compressor Selected	ZH06KCU-TFD

PERFORMANCE AT SPECIFIED OPERATING POINT **ZH06KCU-TFD Data at 50 Hz**

Cooling Capacity, kW	5.78
Power, kW	1.74
COP	3.31
Current at 400 V, A	3.29
Suction Mass Flow, g/s	20.90
Heating Capacity, kW	7.44
Isentropic Eff., %	69.52

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.04
Length/Width, mm	253/243
Height, mm	387
Net Weight, kg	26.3
Gross Weight, kg	28
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.45
Oil type (original charge)	POE Hatcol 4467
Oil type (approved oils)	POE Hatcol 4467
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 / 50 / 3 °C at 50 Hz
PED Category	2
Max. Low Side Internal Free Volume, l	4.2
Max. High Side Internal Free Volume, l	0.5
Max. Internal Free Volume, l	4.70
High Side PS gauge, bar	28
Low Side PS gauge, bar	17
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
High Side TS Max., °C	150
High Side TS Min., °C	-35
Refrigerant's GWP	3
Refrigerant's classification	A3

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

Maximum Operating Current, A	5.2
Locked Rotor Current, A	32
Winding Resistance, ohm	5.48
Default Enclosure Class	IP 54/65

ACCESSORIES INCLUDED

Mounting Grommets	Standard
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ACCESSORIES OPTIONAL

Crankcase Heater
Discharge Temperature Protection

55 W External
Discharge line thermostat

MODEL NUMBER	A ± 3.0	B	C	D ± 3.0
ZH08KCU	400.8	374.6	277.1	206.1
ZH06KCU	387.0	360.9	264.4	193.4
ZH04KCU	364.4	338.3	244.5	173.5

