



Refrigerant	R410A Dew Point
<b>High Side Properties:</b>	
Condensing Temperature, °C	45.00
Abs. Condensing Pressure, bar	27.18
Dew Point, °C	45.00
Bubble Point, °C	44.90
Saturated vapour enthalpy, kJ/kg	424.00
Specific volume of saturated vapour, dm <sup>3</sup> /kg	8.40
<b>Low Side Properties:</b>	
Evaporating Temperature, °C	0.00
Evaporating Abs. Pressure, bar	7.97
Dew Point, °C	0.00
Bubble Point, °C	-0.10
With vapour at, °C	10.00
Specific volume, dm <sup>3</sup> /kg	35.00
Enthalpy, kJ/kg	431.00
<b>Operating Conditions:</b>	
Evaporating Temperature, °C	0.00
Condensing Temperature, °C	45.00
Suction Superheat, K	10.00
Subcooling, K	0.00
Compressor Selected	ZPD42K5E-TFD

**PERFORMANCE AT SPECIFIED OPERATING POINT  
ZPD42K5E-TFD Data at 50 Hz**

Cooling Capacity, kW	8.21
Power, kW	2.68
COP	3.06
Current at 400 V, A	4.70
Suction Mass Flow, g/s	52.50
Heating Capacity, kW	10.75

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	6.93
Length/Width, mm	243/243
Height, mm	464
Net Weight, kg	30.9
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (HT), dBA	66
Sound Power (HT), dBA	77
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	2.60
High Side PS gauge, bar	43
Low Side PS gauge, bar	28
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	7.9
Locked Rotor Current, A	52
Winding Resistance, ohm	3.2
Default Enclosure Class	IP 21 (IEC 34)

**ACCESSORIES INCLUDED**

Mounting Grommets	Rubber Grommet For Single
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**ACCESSORIES OPTIONAL**

# ZPD 34, 42 KSE/K5E

