



# Select 8

**Copeland**<sup>™</sup>  
brand products



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**Project Report**

Project Details: Sabacool.ir  
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Refrigerant	R22
<b>High Side Properties:</b>	
Condensing Temperature, °C	50.00
Abs. Condensing Pressure, bar	19.42
Dew Point, °C	50.00
Bubble Point, °C	50.00
Saturated vapour enthalpy, kJ/kg	718.00
Specific volume of saturated vapour, dm <sup>3</sup> /kg	11.70
Liquid Temperature, °C	50.00
Liquid enthalpy, kJ/kg	563.00
<b>Low Side Properties:</b>	
Evaporating Temperature, °C	20.00-
Evaporating Abs. Pressure, bar	2.45
Dew Point, °C	20.00-
Bubble Point, °C	20.00-
With vapour at, °C	10.00-
Specific volume, dm <sup>3</sup> /kg	97.50
Enthalpy, kJ/kg	704.00
<b>Operating Conditions:</b>	
Evaporating Temperature, °C	20.00-
Condensing Temperature, °C	50.00
Suction Superheat, K	10.00
Subcooling, K	0.00
Compressor Selected	D6TA-1500 SUB

**PERFORMANCE AT SPECIFIED OPERATING POINT  
D6TA-1500 SUB Data at 50 Hz**

Cooling Capacity, kW	26.10
Power, kW	15.10
COP	1.73
Current at 400 V, A	25.91
Suction Mass Flow, g/s	145.00
Heating Capacity, kW	40.40
Isentropic Eff., %	60.11
Economiser Load, kW	5.61
Intermediate Dew Temperature, °C	15.30
Liquid Temperature LO, °C	20.30

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	6
Displacement @ 50 Hz, m <sup>3</sup> /h	56.0
Bore/Stroke, mm	63.5/50.8
Length/Width, mm	755/585
Height, mm	575
Net Weight, kg	224
Gross Weight, kg	254
Suction, inch	1 5/8
Discharge, inch	1 3/8
Oil Quantity, l	3.3
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	381 x 305 (18)
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	28.8
Locked Rotor Current, A	173
Default Enclosure Class	IP 54 (IEC 34)

***ACCESSORIES INCLUDED***

Oil Pressure Switch  
Mounting Springs  
Liquid Subcooler

OPS2 Sensor  
4  
Plate Heat Exchanger

***ACCESSORIES OPTIONAL***

Enclosure Class  
Oil Pressure Switch  
Deep Oil Sump  
Adapter Kit  
Oil Control System

IP 56  
OPS2 Electronic Switch  
Mounted  
For Parallel Operation  
ALCO Trax-Oil OM3

# D6TA, D6TH

