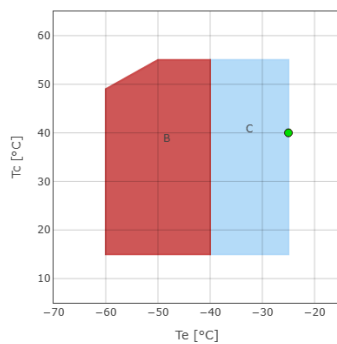




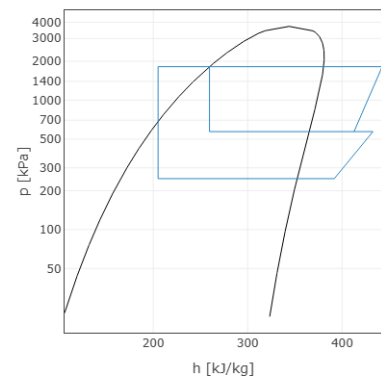
Calculation - 2S_H

Input

Model	2S-H1500
Refrigerant	R404A
Evaporating temperature	-25.0 °C
Condensing temperature	40.0 °C
Reference temperature	Dew temperature
Suction temperature	20.0 °C
Evaporator outlet temperature	20.0 °C
Liquid subcooling	0.0 K
Voltage / phases / frequency	380-420 V / 3 / 50 Hz
Thermostatic sensor	L3



B = All models
C = Standard models only
• = Dew temperature



Performance calculation

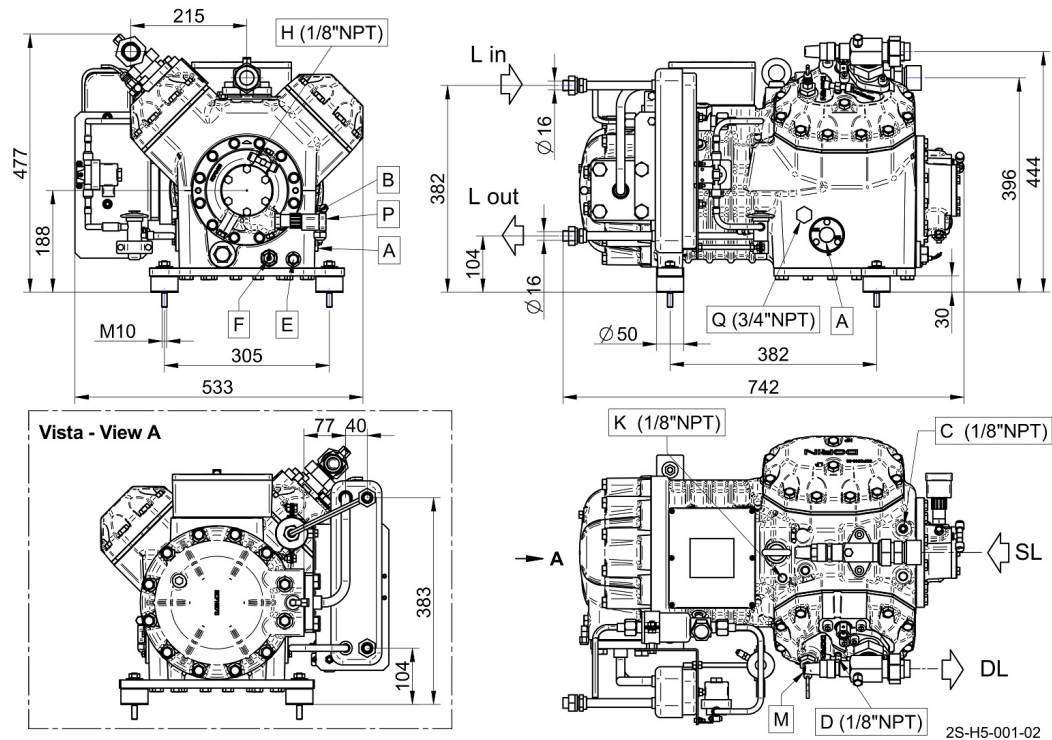
	Output
Cooling capacity	24.82 kW
Cooling capacity at compressor	24.82 kW
Absorbed power	14.46 kW
Absorbed current	26.8 A
Condenser capacity	39.27 kW
COP	1.72
Mass flow LP	478.8 kg/h
Mass flow HP	746.8 kg/h
Intermediate pressure	5.7 bar
Intermediate temperature (DEW)	-1.5 °C
Liquid outlet temperature	3.7 °C
Max operating current	34.0 A
Locked rotor current	171.0 A

Technical data

No. cylinders LP	2.0	
No. cylinders HP	2.0	
Displacement LP @ 50Hz	56.49	[m³/h]
Displacement HP @ 50 Hz	37.91	[m³/h]
Displacement LP @ 60 Hz	67.79	[m³/h]
Displacement HP @ 60 Hz	45.49	[m³/h]
Volume ratio LP / HP	1.49	
Suction valve	42 s.	[mm]
Discharge valve	28 s.	[mm]
Oil charge	3.5	[L]
Net weight	193.0	[kg]
Maximum absorbed power @ 50 Hz	19.5	[kW]
Maximum absorbed power @ 60 Hz	23.4	[kW]



Overall dimensions [mm]



A - Oil sight glass

B - Oil charge plug

C - Low pressure connection

D - High pressure connection

E - Oil drain plug

F - Crankcase heater

G - Oil return plug

H - Oil pressure tap

K - Intermediate pressure tap

M - Max. discharge temperature sensor

P - Oil differential pressure switch

Q - Gas equalisation

DL - Discharge service valve

SL - Suction service valve

Lin - Liquid inlet

Lout - Liquid outlet

Configuration: Standard \ Optional

TE=Thermistor protection	Standard
REL=Motor protection electronic module	Standard
CH=Crankcase heater	Standard
TCH=Self-regulated crankcase heater	Optional
ISV=Internal safety valve	Standard
IP65=Electrical box IP65	Standard
UL=UL approved compressor	Optional
ODPS=Oil differential pressure switch	Standard
TMAX=Max discharge temperature sensor	Standard
SC = Liquid subcooler	Standard
F-S = Filter - Indicator	Standard
VS = Solenoid valve	Standard
VT = Expansion valve	Standard
VNR = Non return valve	Standard
For operation with HFC refrigerants the compressor must be ordered with POE OIL. For operation with HCFC refrigerant the compressor shall be ordered with mineral oil.	
Motors suitable for operation at different voltage from those listed above may be supplied on request.	
220-240/3/50 (Δ) 380-420/3/50 (Y)	Optional
265-290/3/60 (Δ) 440-480/3/60 (Y)	Optional
380-420/3/50 (PWS) 440-480/3/60 (PWS)	Standard
208-230/3/60 (Δ) 360-400/3/60 (Y)	Optional
208-230/3/60 (PWS)	Optional
220-240/3/50 (PWS)	Optional
360-400/3/60 (PWS)	Optional