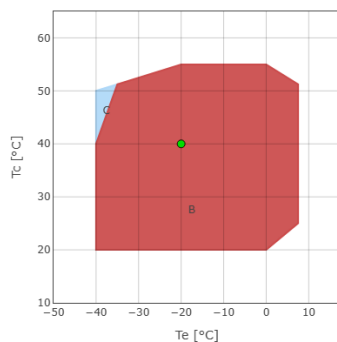




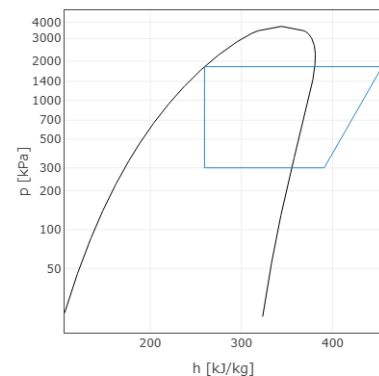
Calculation - APE

Input

Model	41VSM-3B
Refrigerant	R404A
Evaporating temperature	-20.0 °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
Compressor speed	1300 RPM
Capacity control system	100%



B = Standard application
C = Head cooling fan or max superheating
20K
• = Dew temperature



Performance calculation

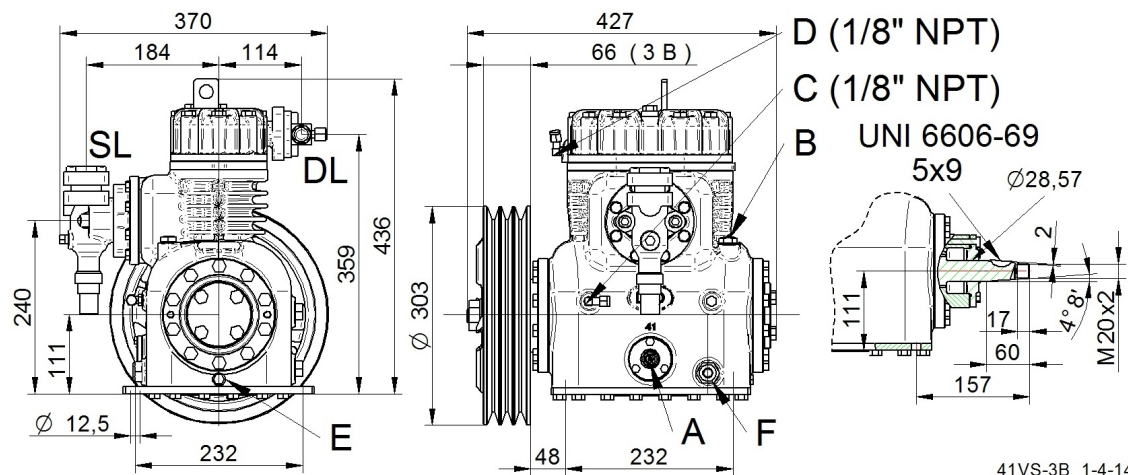
	Standard conditions	At evaporator	At compressor
Cooling capacity	15870 W	15870 W	15870 W
Shaft power	7.58 kW	7.58 kW	7.58 kW
Condenser capacity	23.45 kW	23.45 kW	23.45 kW
COP	2.09	2.09	2.09
Mass flow	435.0 kg/h	435.0 kg/h	435.0 kg/h
Discharge temperature	93.8 °C	93.8 °C	93.8 °C



Technical data

No. cylinders	2.0	
Bore	74.0	[mm]
Stroke	65.0	[mm]
Swept volume	560.0	[cm ³]
Flywheel	303-3B	[mm]
Suction valve	35 s.	[mm]
Discharge valve	28 s.	[mm]
Oil charge	3.0	[L]
Net weight	78.0	[kg]
RPM min.	600.0	RPM
RPM max.	1300.0	RPM
Recommended drive motor	5,5-20	[HP]

Overall dimensions [mm]



DL - Discharge service valve

SL - Suction service valve

A - Oil sight glass

B - Oil charge plug

C - Low pressure connection

D - High pressure connection

E - Oil drain plug

F - Crankcase heater

Configuration: Standard \ Optional

FW=Flywheel	Optional
CH=Crankcase heater	Optional
WH=Water cooled head	Optional

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.

For low temperature application external cooling must be provided.