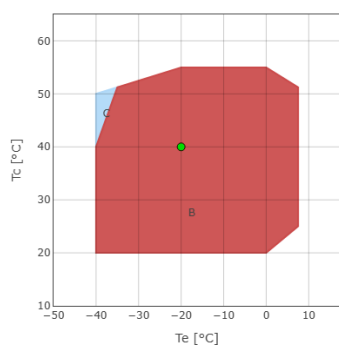




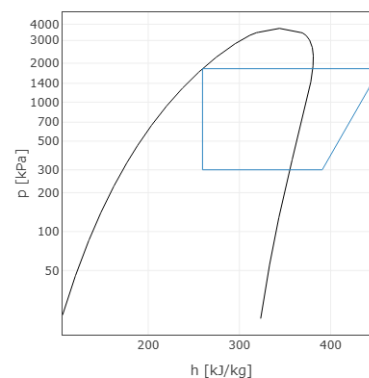
Calculation - APE

Input

Model	63VS-4B
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	1450 RPM
Capacity control system	100%



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



Performance calculation

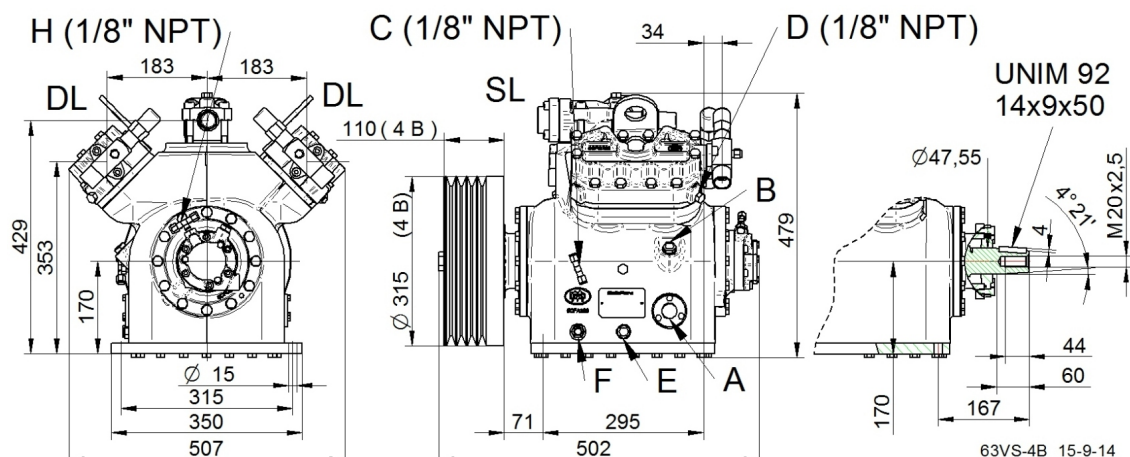
	Standard conditions	At evaporator	At compressor
Cooling capacity	39400 W	39400 W	39400 W
Shaft power	19.11 kW	19.11 kW	19.11 kW
Condenser capacity	58.51 kW	58.51 kW	58.51 kW
COP	2.06	2.06	2.06
Mass flow	1080.3 kg/h	1080.3 kg/h	1080.3 kg/h
Discharge temperature	93.6 °C	93.6 °C	93.6 °C



Technical data

No. cylinders	4.0	
Bore	78.0	[mm]
Stroke	65.0	[mm]
Swept volume	1243.0	[cm ³]
Flywheel	310-4B	[mm]
Suction valve	42 s.	[mm]
Discharge valve	28 s.	[mm]
Oil charge	5.5	[L]
Net weight	159.0	[kg]
RPM min.	750.0	RPM
RPM max.	1750.0	RPM
Recommended drive motor	15-50	[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

H - Oil pressure tap

63VS-4B 15-9-14



Configuration: Standard \ Optional

FW=Flywheel	Optional
CH=Crankcase heater	Optional
WH=Water cooled head	Optional
CR1=Capacity control 50-100%	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.