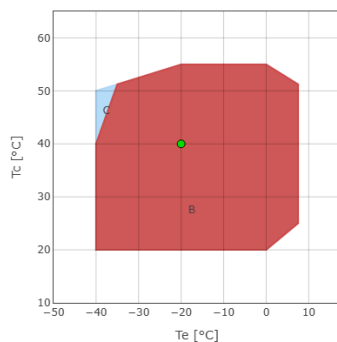




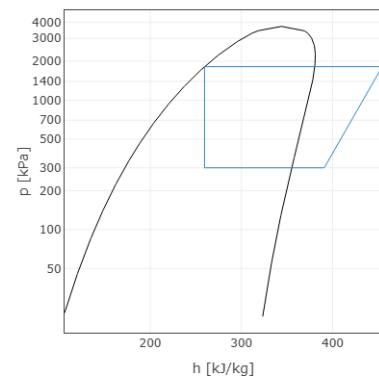
Calculation - APE

Input

Model	68VS-6B
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

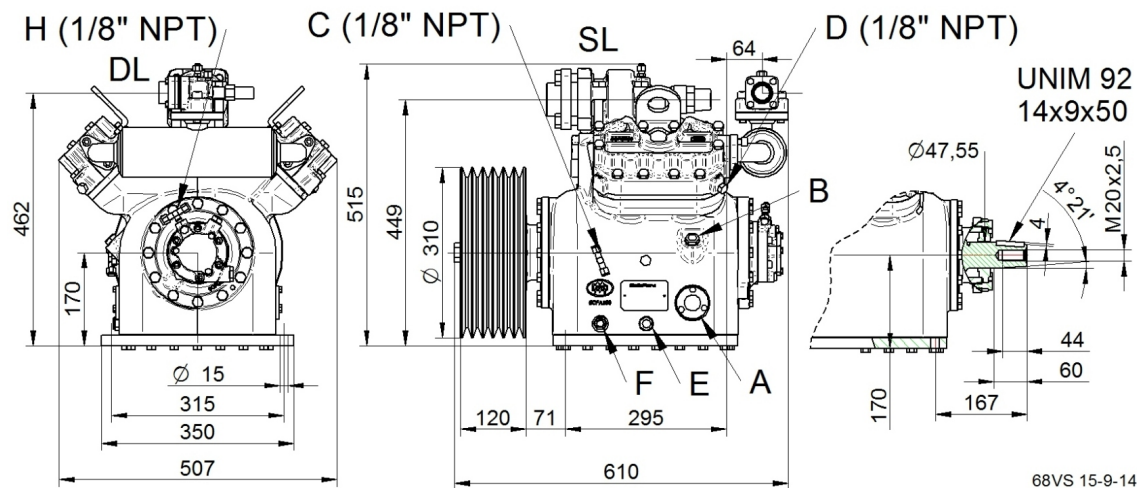


Performance calculation

	Standard conditions	At evaporator	At compressor
Cooling capacity	45980 W	45980 W	45980 W
Shaft power	22.17 kW	22.17 kW	22.17 kW
Condenser capacity	68.13 kW	68.13 kW	68.13 kW
COP	2.07	2.07	2.07
Mass flow	1260.6 kg/h	1260.6 kg/h	1260.6 kg/h
Discharge temperature	93.3 °C	93.3 °C	93.3 °C

Technical data

No. cylinders	4.0	
Bore	84.0	[mm]
Stroke	65.0	[mm]
Swept volume	1440.0	[cm ³]
Flywheel	310-6B	[mm]
Suction valve	54 s.	[mm]
Discharge valve	35 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	15-75	[HP]

Overall dimensions [mm]

68VS 15-9-14

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



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.