



OFFICINE MARIO DORIN SINCE 1918

DORIN
INNOVATION

Model: 1HVS - PAGE 1

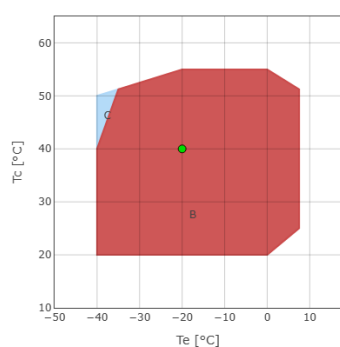
28/05/2026 - Dorin Software v. 26.02

All data subject to change

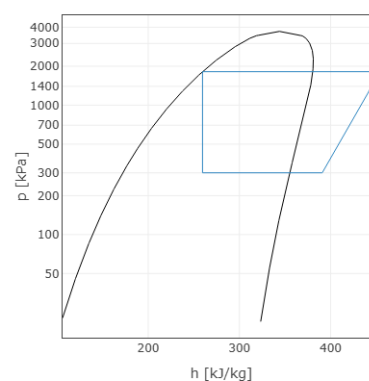
Calculation - APE

Input

Model	1HVS
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

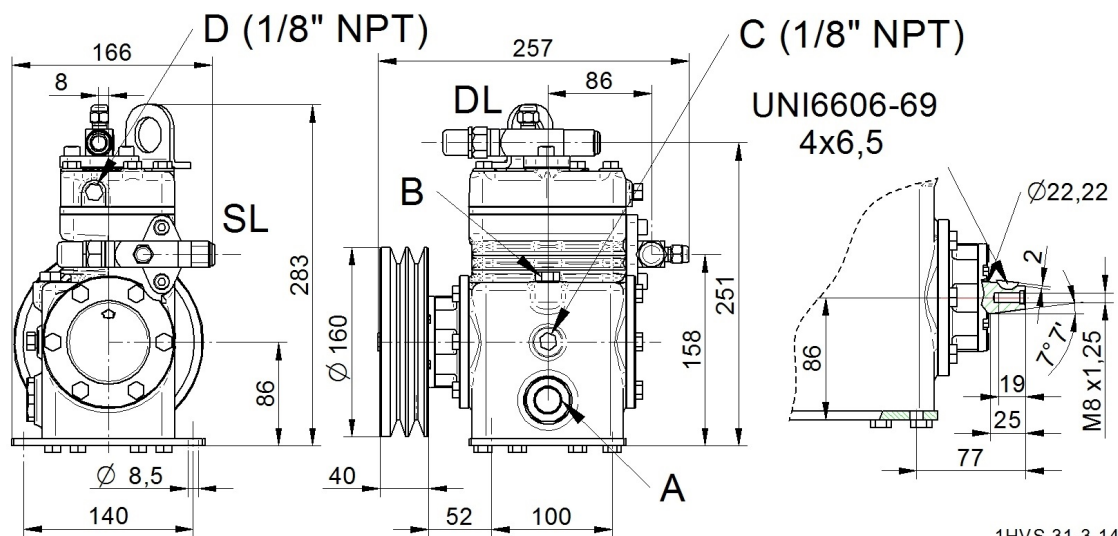
	Standard conditions	At evaporator	At compressor
Cooling capacity	2340 W	2340 W	2340 W
Shaft power	1.20 kW	1.20 kW	1.20 kW
Condenser capacity	3.54 kW	3.54 kW	3.54 kW
COP	1.94	1.94	1.94
Mass flow	64.1 kg/h	64.1 kg/h	64.1 kg/h
Discharge temperature	97.4 °C	97.4 °C	97.4 °C



Technical data

No. cylinders	2.0	
Bore	45.0	[mm]
Stroke	24.0	[mm]
Swept volume	76.0	[cm ³]
Flywheel	160-2A	[mm]
Suction valve	5/8"-16	[mm]
Discharge valve	1/2"-12	[mm]
Oil charge	0.5	[L]
Net weight	17.0	[kg]
RPM min.	500.0	RPM
RPM max.	1450.0	RPM
Recommended drive motor	0,75-4	[HP]

Overall dimensions [mm]



1HVS 31-3-14

DL - Discharge service valve

SL - Suction service valve

A - Oil sight glass

B - Oil charge plug

C - Low pressure connection

D - High pressure connection

Configuration: Standard \ Optional

FW=Flywheel	Optional
CH=Crankcase heater	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.