



OFFICINE MARIO DORIN SINCE 1918

DORIN
INNOVATION

Model: 2GVS - PAGE 1

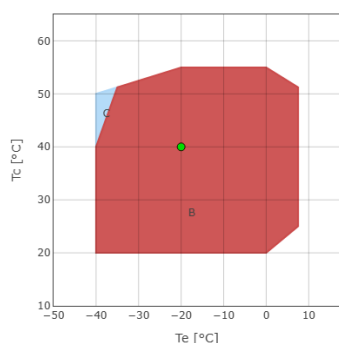
28/05/2026 - Dorin Software v. 26.02

All data subject to change

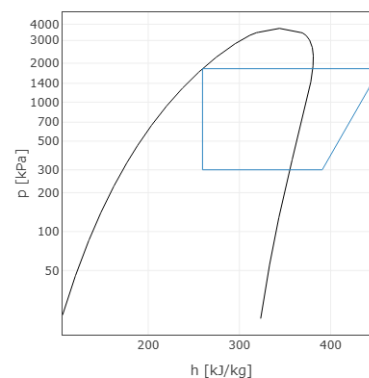
Calculation - APE

Input

Model	2GVS
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

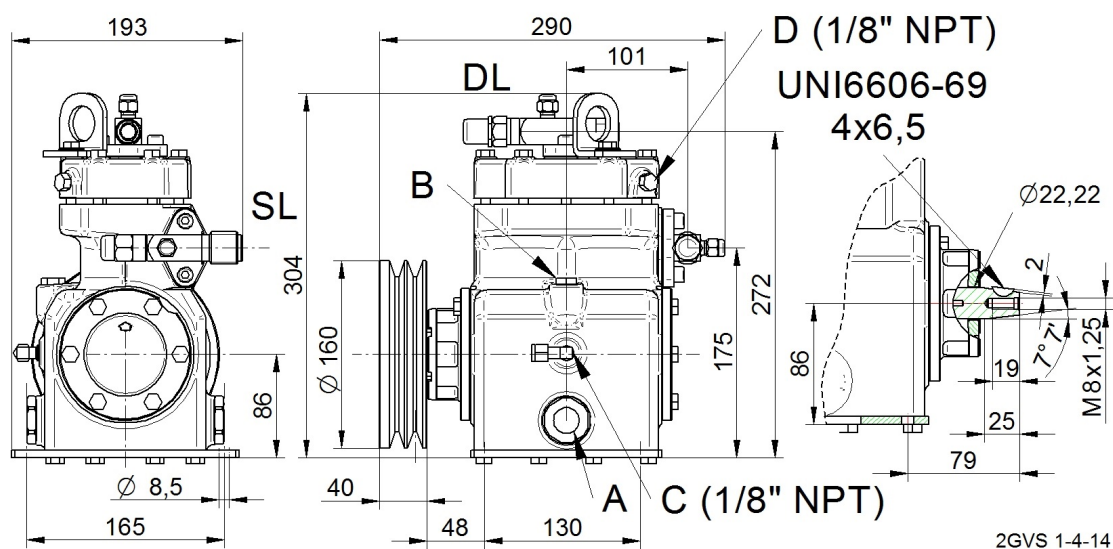


Performance calculation

	Standard conditions	At evaporator	At compressor
Cooling capacity	5220 W	5220 W	5220 W
Shaft power	2.67 kW	2.67 kW	2.67 kW
Condenser capacity	7.89 kW	7.89 kW	7.89 kW
COP	1.95	1.95	1.95
Mass flow	143.2 kg/h	143.2 kg/h	143.2 kg/h
Discharge temperature	97.5 °C	97.5 °C	97.5 °C

Technical data

No. cylinders	2.0	
Bore	60.0	[mm]
Stroke	30.0	[mm]
Swept volume	170.0	[cm ³]
Flywheel	160-2A	[mm]
Suction valve	3/4"-18	[mm]
Discharge valve	5/8"-16	[mm]
Oil charge	1.0	[L]
Net weight	22.0	[kg]
RPM min.	500.0	RPM
RPM max.	1450.0	RPM
Recommended drive motor	2-7,5	[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

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.