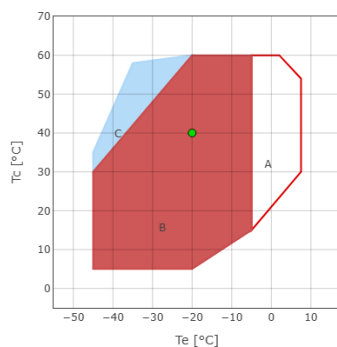




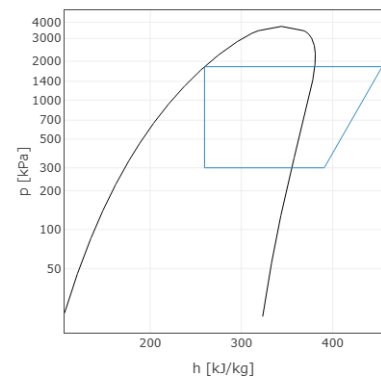
## Calculation - H

### Input

|                               |                       |
|-------------------------------|-----------------------|
| Model                         | H251CC                |
| 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                 |
| Voltage / phases / frequency  | 380-420 V / 3 / 50 Hz |
| Capacity control system       | 100%                  |



A = "CC" models only  
B = Standard application  
C = Head cooling fan or max superheating 20K  
• = Dew temperature



### Performance calculation

|                       | Standard conditions | At evaporator | At compressor |
|-----------------------|---------------------|---------------|---------------|
| Cooling capacity      | 3880 W              | 3880 W        | 3880 W        |
| Absorbed power        | 2.01 kW             | 2.01 kW       | 2.01 kW       |
| Condenser capacity    | 5.89 kW             | 5.89 kW       | 5.89 kW       |
| COP                   | 1.93                | 1.93          | 1.93          |
| Mass flow             | 105.9 kg/h          | 105.9 kg/h    | 105.9 kg/h    |
| Absorbed current      | 4.8 A               | 4.8 A         | 4.8 A         |
| Discharge temperature | 99.9 °C             | 99.9 °C       | 99.9 °C       |
| Max operating current | 7.3 A               | 7.3 A         | 7.3 A         |
| Locked rotor current  | 32.0 A              | 32.0 A        | 32.0 A        |



OFFICINE MARIO DORIN SINCE 1918

**DORIN**  
INNOVATION

Model: H251CC - PAGE 2

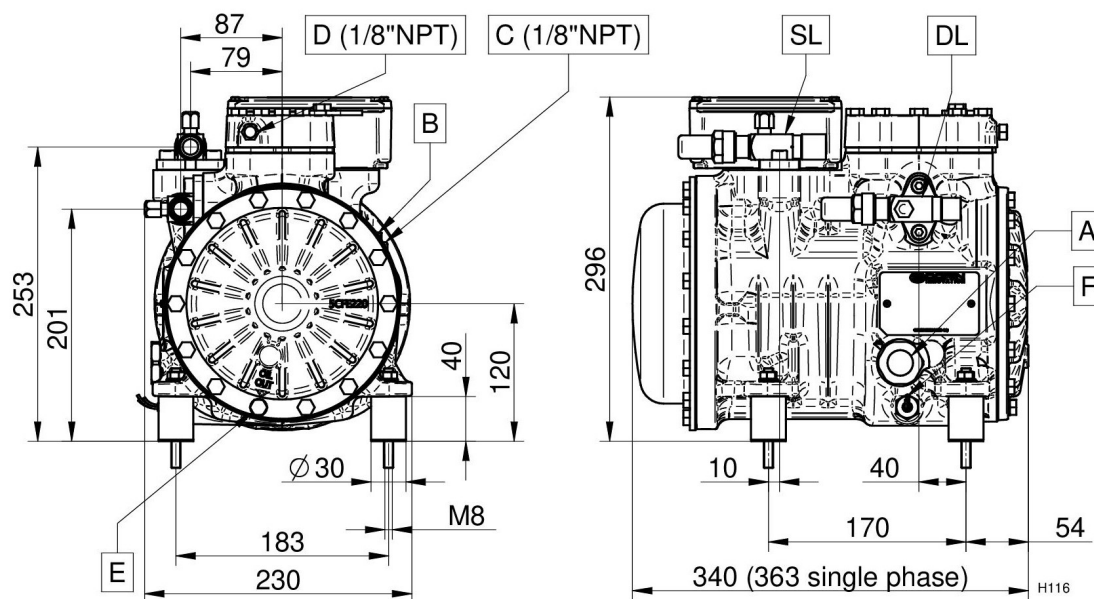
28/05/2026 - Dorin Software v. 26.02

All data subject to change

### Technical data

|                                |       |                     |
|--------------------------------|-------|---------------------|
| No. cylinders                  | 2.0   |                     |
| Bore                           | 42.0  | [mm]                |
| Stroke                         | 44.0  | [mm]                |
| Displacement @ 50 Hz           | 10.61 | [m <sup>3</sup> /h] |
| Displacement @ 60 Hz           | 12.73 | [m <sup>3</sup> /h] |
| Suction valve                  | 18 s. | [mm]                |
| Discharge valve                | 16 s. | [mm]                |
| Oil charge                     | 1.0   | [L]                 |
| Net weight                     | 43.0  | [kg]                |
| Maximum absorbed power @ 50 Hz | 4.2   | [kW]                |
| Maximum absorbed power @ 60 Hz | 5.1   | [kW]                |

### Overall dimensions [mm]



A - Oil sight glass

B - Oil charge plug

C - Low pressure connection

D - High pressure connection

E - Oil drain plug

F - Crankcase heater

DL - Discharge service valve

SL - Suction service valve



Configuration: Standard \ Optional

|                                                                                                                                                                        |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| TE=Thermistor protection                                                                                                                                               | Standard |
| REL=Motor protection electronic module                                                                                                                                 | Standard |
| CH=Crankcase heater                                                                                                                                                    | Optional |
| TCH=Self-regulated crankcase heater                                                                                                                                    | Optional |
| BF=Head cooling fan                                                                                                                                                    | Optional |
| WH=Water cooled head                                                                                                                                                   | Optional |
| IP65=Electrical box IP65                                                                                                                                               | Standard |
| UL=UL approved compressor                                                                                                                                              | Optional |
| CB=CB approved compressor                                                                                                                                              | Optional |
| CCC=CCC approved compressor                                                                                                                                            | 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. |          |
| HFC (POE 32) - HCFC (MIN 32)                                                                                                                                           | Standard |
| Motors suitable for operation at different voltage from those listed above may be supplied on request.                                                                 |          |
| For low temperature application external cooling must be provided.                                                                                                     |          |
| 220-240/1/50                                                                                                                                                           | Optional |
| 220-240/3/50 (Δ) 380-420/3/50 (Y)                                                                                                                                      | Standard |
| 208-230/1/60                                                                                                                                                           | Optional |
| 265-290/3/60 (Δ) 440-480/3/60 (Y)                                                                                                                                      | Optional |
| 475-525/3/50 570-630/3/60                                                                                                                                              | Optional |
| 200/3/50-60 (Δ)                                                                                                                                                        | Optional |
| 208-230/3/60 (Δ) 360-400/3/60 (Y)                                                                                                                                      | Optional |