



OFFICINE MARIO DORIN SINCE 1918

**DORIN**  
INNOVATION

Model: H80CC - PAGE 1

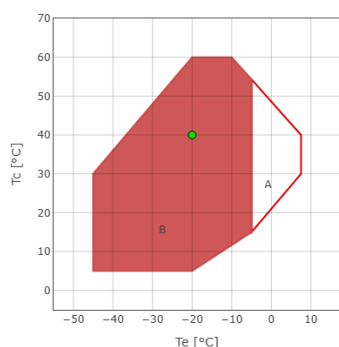
28/05/2026 - Dorin Software v. 26.02

All data subject to change

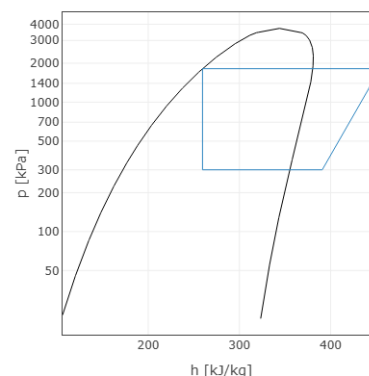
## Calculation - H

### Input

|                               |                       |
|-------------------------------|-----------------------|
| Model                         | H80CC                 |
| 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  | 220-240 V / 1 / 50 Hz |
| Capacity control system       | 100%                  |



A = "CC" models only  
B = Standard application  
• = Dew temperature



### Performance calculation

|                       | Standard conditions | At evaporator | At compressor |
|-----------------------|---------------------|---------------|---------------|
| Cooling capacity      | 1520 W              | 1520 W        | 1520 W        |
| Absorbed power        | 0.82 kW             | 0.82 kW       | 0.82 kW       |
| Condenser capacity    | 2.33 kW             | 2.33 kW       | 2.33 kW       |
| COP                   | 1.86                | 1.86          | 1.86          |
| Mass flow             | 41.3 kg/h           | 41.3 kg/h     | 41.3 kg/h     |
| Absorbed current      | 3.6 A               | 3.6 A         | 3.6 A         |
| Discharge temperature | 101.8 °C            | 101.8 °C      | 101.8 °C      |
| Max operating current | 7.5 A               | 7.5 A         | 7.5 A         |
| Locked rotor current  | 31.0 A              | 31.0 A        | 31.0 A        |



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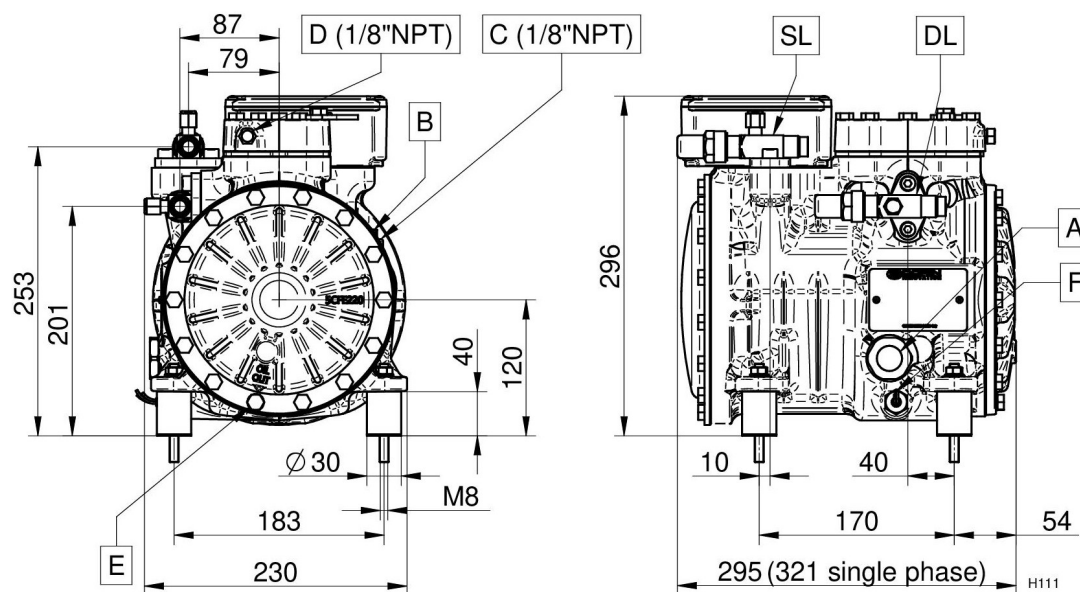
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### Technical data

|                                |       |                     |
|--------------------------------|-------|---------------------|
| No. cylinders                  | 2.0   |                     |
| Bore                           | 34.0  | [mm]                |
| Stroke                         | 28.0  | [mm]                |
| Displacement @ 50 Hz           | 4.42  | [m <sup>3</sup> /h] |
| Displacement @ 60 Hz           | 5.3   | [m <sup>3</sup> /h] |
| Suction valve                  | 12 s. | [mm]                |
| Discharge valve                | 12 s. | [mm]                |
| Oil charge                     | 1.0   | [L]                 |
| Net weight                     | 36.0  | [kg]                |
| Maximum absorbed power @ 50 Hz | 1.3   | [kW]                |
| Maximum absorbed power @ 60 Hz | 1.6   | [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 |