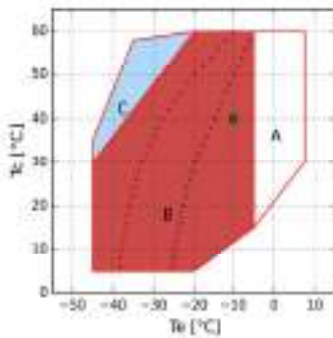




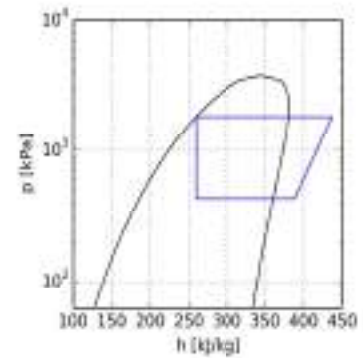
## Calculation - H

### Input

|                               |                       |
|-------------------------------|-----------------------|
| Model                         | H2401CC               |
| Refrigerant                   | R404A                 |
| Evaporating temperature       | -10.0 °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
- x = Min  $T_e$  50%
- \* = Min  $T_e$  50% Head cooling fan or max superheating 20K
- = Dew temperature



### Performance calculation

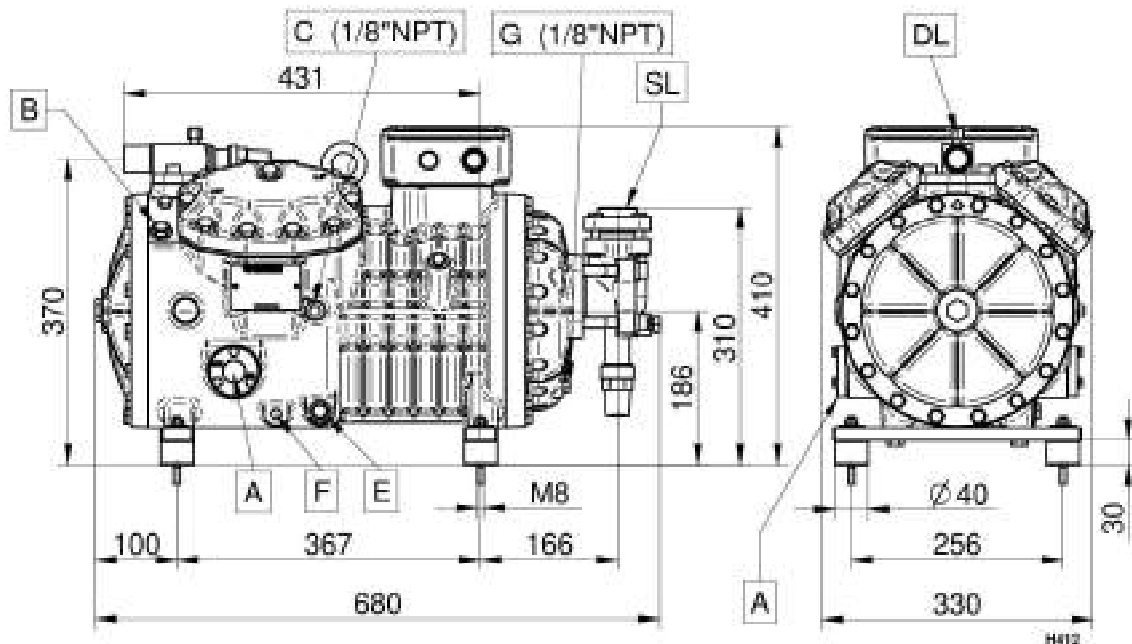
|                       | Standard conditions | At evaporator | At compressor |
|-----------------------|---------------------|---------------|---------------|
| Cooling capacity      | 41540 W             | 41540 W       | 41540 W       |
| Absorbed power        | 15.72 kW            | 15.72 kW      | 15.72 kW      |
| Condenser capacity    | 57.24 kW            | 57.24 kW      | 57.24 kW      |
| COP                   | 2.64                | 2.64          | 2.64          |
| Mass flow             | 1159.1 kg/h         | 1159.1 kg/h   | 1159.1 kg/h   |
| Absorbed current      | 30.4 A              | 30.4 A        | 30.4 A        |
| Discharge temperature | 81.6 °C             | 81.6 °C       | 81.6 °C       |
| Max operating current | 45.0 A              | 45.0 A        | 45.0 A        |
| Locked rotor current  | 203.0 A             | 203.0 A       | 203.0 A       |



Technical data

|                      |       |                     |
|----------------------|-------|---------------------|
| No. cylinders        | 4.0   |                     |
| Bore                 | 72.0  | [mm]                |
| Stroke               | 50.0  | [mm]                |
| Displacement @ 50 Hz | 70.84 | [m <sup>3</sup> /h] |
| Displacement @ 60 Hz | 85.01 | [m <sup>3</sup> /h] |
| Suction valve        | 42 s. | [mm]                |
| Discharge valve      | 28 s. | [mm]                |
| Oil charge           | 2.5   | [L]                 |
| Net weight           | 136.0 | [kg]                |

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 |
| SLCR=Stepless capacity regulator   | Optional |
| BF=Head cooling fan  | Optional |
| WH=Water cooled head   | Optional |
| US=Unloaded start by-pass  | Optional |
| ALL=Oil level warning device   | Optional |
| IP65=Electrical box IP65   | Standard |
| CR1=Capacity control 50-100%   | Optional |
| UL=UL 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 46) - HCFC (MIN 46-68)  | Standard |
| For low temperature application external cooling must be provided.   |          |
| Motors suitable for operation at different voltage from those listed above may be supplied on request.   |          |
| 220-240/3/50 (Δ) 380-420/3/50 (Y)  | Optional |
| 265-290/3/60 (Δ) 440-480/3/60 (Y)  | Optional |
| 380-420/3/50 (PWS) 440-480/3/60 (PWS)  | Standard |
| 208-230/3/60 (Δ) 360-400/3/60 (Y)  | Optional |
| 208-230/3/60 (PWS)   | Optional |
| 220-240/3/50 (PWS)   | Optional |
| 360-400/3/60 (PWS)   | Optional |
| 475-525/3/50 (PWS) 570-630/3/60 (PWS)  | Optional |