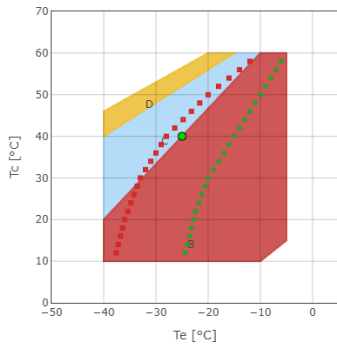




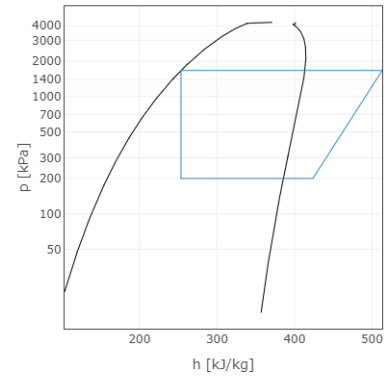
Calculation - H

Input

| | |
|-------------------------------|-----------------------|
| Model | H701CS |
| Refrigerant | R449A |
| Evaporating temperature | -25.0 °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% |



- B = Standard application
- C = Head cooling fan or max superheating 20K
- D = Head cooling fan + 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 | 7570 W | 7570 W | 7570 W |
| Absorbed power | 4.04 kW | 4.04 kW | 4.04 kW |
| Condenser capacity | 11.61 kW | 11.61 kW | 11.61 kW |
| COP | 1.87 | 1.87 | 1.87 |
| Mass flow | 160.2 kg/h | 160.2 kg/h | 160.2 kg/h |
| Absorbed current | 7.6 A | 7.6 A | 7.6 A |
| Discharge temperature | 116.6 °C | 116.6 °C | 116.6 °C |
| Max operating current | 14.5 A | 14.5 A | 14.5 A |
| Locked rotor current | 63.1 A | 63.1 A | 63.1 A |



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 |
| CB=CB 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) | Standard |
| 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 |
| 380-420/3/50 (PWS) 440-480/3/60 (PWS) | Optional |
| 208-230/3/60 (Δ) 360-400/3/60 (Y) | Optional |