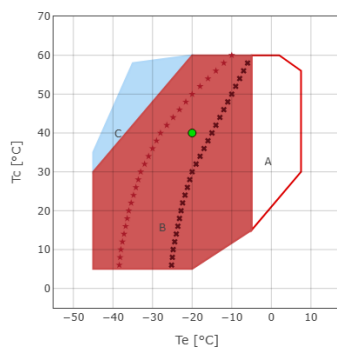




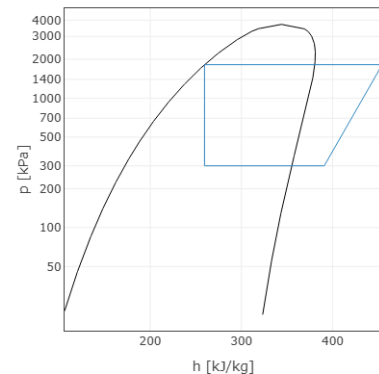
Calculation - H

Input

Model	H1003CC
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
- x = Min Te 50%
- * = Min Te 50% Head cooling fan or max superheating 20K
- = Dew temperature

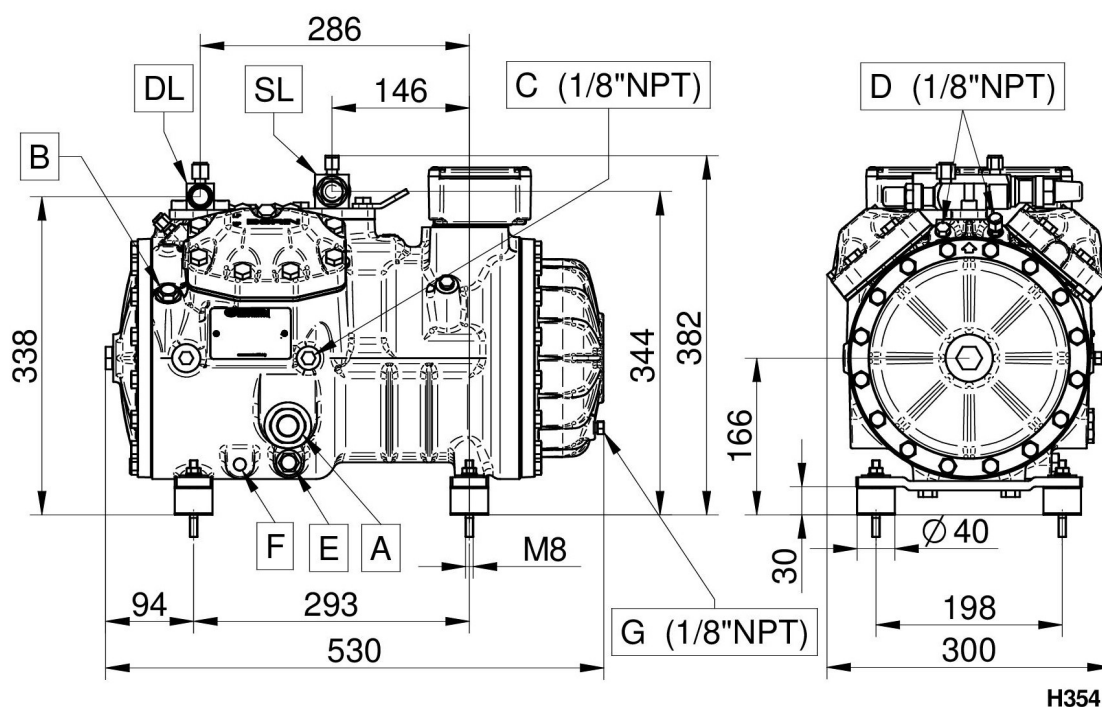


Performance calculation

	Standard conditions	At evaporator	At compressor
Cooling capacity	15560 W	15560 W	15560 W
Absorbed power	7.60 kW	7.60 kW	7.60 kW
Condenser capacity	23.16 kW	23.16 kW	23.16 kW
COP	2.05	2.05	2.05
Mass flow	424.2 kg/h	424.2 kg/h	424.2 kg/h
Absorbed current	13.8 A	13.8 A	13.8 A
Discharge temperature	95.6 °C	95.6 °C	95.6 °C
Max operating current	23.0 A	23.0 A	23.0 A
Locked rotor current	92.0 A	92.0 A	92.0 A

Technical data

No. cylinders	4.0	
Bore	61.0	[mm]
Stroke	43.0	[mm]
Displacement @ 50 Hz	43.73	[m³/h]
Displacement @ 60 Hz	52.48	[m³/h]
Suction valve	35 s.	[mm]
Discharge valve	22 s.	[mm]
Oil charge	2.0	[L]
Net weight	99.0	[kg]
Maximum absorbed power @ 50 Hz	13.8	[kW]
Maximum absorbed power @ 60 Hz	16.6	[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

G - Oil return plug

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
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