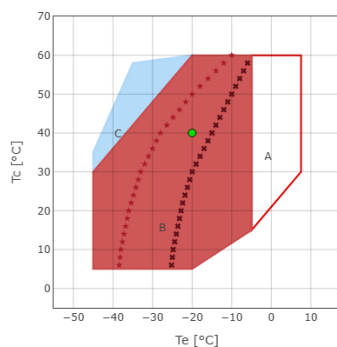




Calculation - H

Input

Model	H3000CC
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

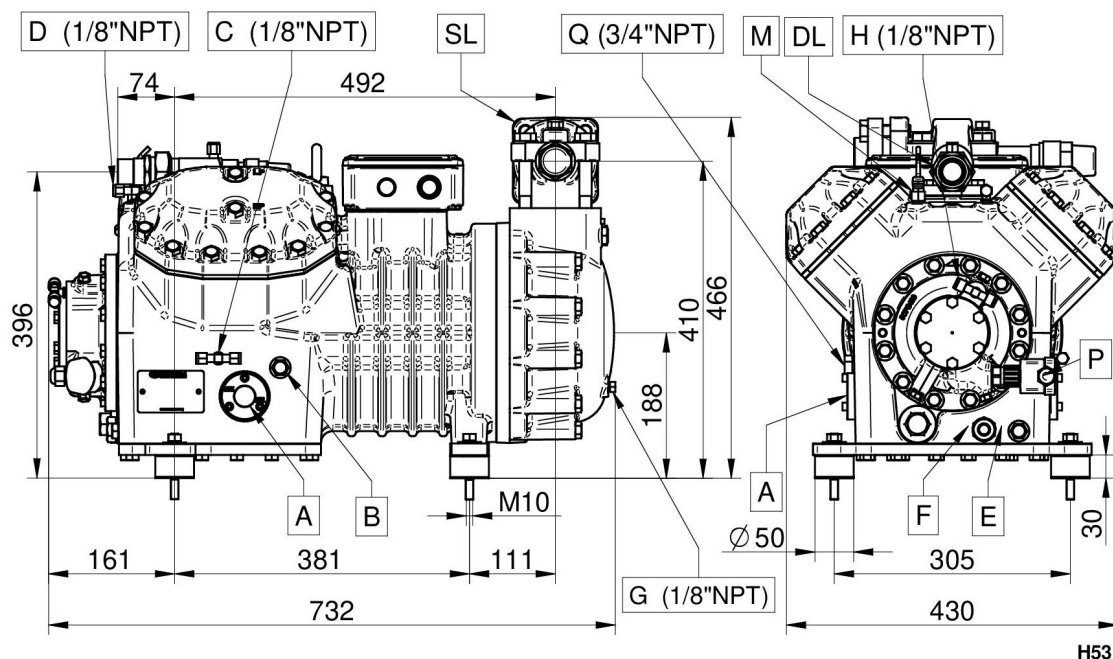


Performance calculation

	Standard conditions	At evaporator	At compressor
Cooling capacity	31570 W	31570 W	31570 W
Absorbed power	14.09 kW	14.09 kW	14.09 kW
Condenser capacity	45.65 kW	45.65 kW	45.65 kW
COP	2.24	2.24	2.24
Mass flow	861.5 kg/h	861.5 kg/h	861.5 kg/h
Absorbed current	30.0 A	30.0 A	30.0 A
Discharge temperature	90.4 °C	90.4 °C	90.4 °C
Max operating current	56.0 A	56.0 A	56.0 A
Locked rotor current	245.0 A	245.0 A	245.0 A

Technical data

No. cylinders	4.0	
Bore	72.0	[mm]
Stroke	60.0	[mm]
Displacement @ 50 Hz	85.01	[m ³ /h]
Displacement @ 60 Hz	102.01	[m ³ /h]
Suction valve	54 s.	[mm]
Discharge valve	28 s.	[mm]
Oil charge	3.5	[L]
Net weight	199.0	[kg]
Maximum absorbed power @ 50 Hz	33.4	[kW]
Maximum absorbed power @ 60 Hz	40.1	[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

G - Oil return plug

H - Oil pressure tap

M - Max. discharge temperature sensor

P - Oil differential pressure switch

Q - Gas equalisation

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
US=Unloaded start by-pass	Optional
ISV=Internal safety valve	Standard
IP65=Electrical box IP65	Standard
CR1=Capacity control 50-100%	Optional
UL=UL approved compressor	Optional
ODPS=Oil differential pressure switch	Standard
TMAX=Max discharge temperature sensor	Standard
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
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.	
220-240/3/50 (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