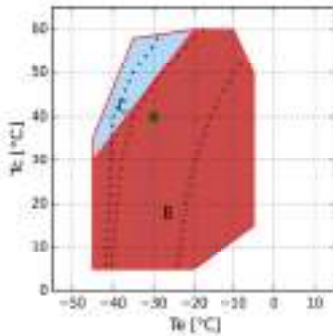




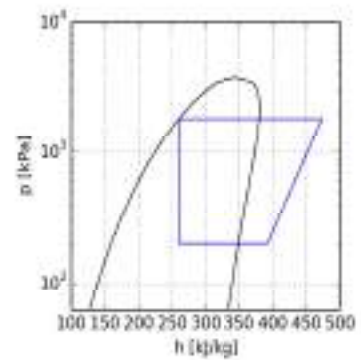
## Calculation - H

### Input

Model	H3500CS
Refrigerant	R404A
Evaporating temperature	-30.0 °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
- x = Min Te 33%
- \* = Min Te 66%
- + = Min Te 33% Head cooling fan or max superheating 20K
- = Min Te 66% Head cooling fan or max superheating 20K
- = Dew temperature



### Performance calculation

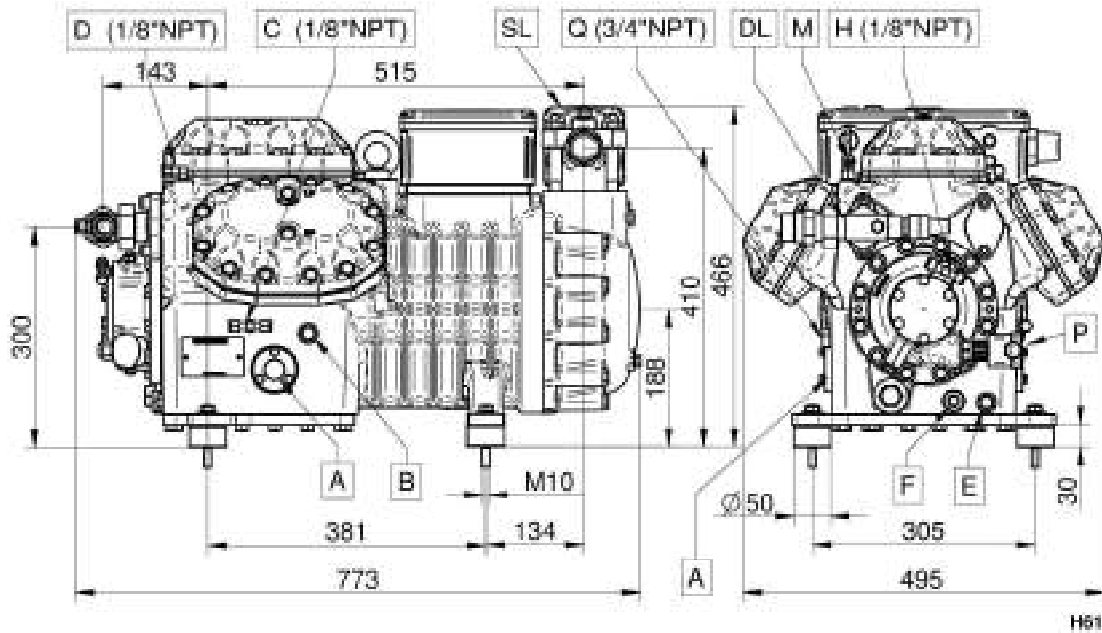
	Standard conditions	At evaporator	At compressor
Cooling capacity	30790 W	30790 W	30790 W
Absorbed power	16.29 kW	16.29 kW	16.29 kW
Condenser capacity	47.07 kW	47.07 kW	47.07 kW
COP	1.89	1.89	1.89
Mass flow	834.3 kg/h	834.3 kg/h	834.3 kg/h
Absorbed current	32.6 A	32.6 A	32.6 A
Discharge temperature	99.2 °C	99.2 °C	99.2 °C
Max operating current	60.0 A	60.0 A	60.0 A
Locked rotor current	245.0 A	245.0 A	245.0 A



Technical data

No. cylinders	6.0	
Bore	72.0	[mm]
Stroke	60.0	[mm]
Displacement @ 50 Hz	127.52	[m <sup>3</sup> /h]
Displacement @ 60 Hz	153.02	[m <sup>3</sup> /h]
Suction valve	54 s.	[mm]
Discharge valve	35 s.	[mm]
Oil charge	3.5	[L]
Net weight	233.0	[kg]

Overall dimensions [mm]



- |                              |                                       |
|------------------------------|---------------------------------------|
| A - Oil sight glass          | H - Oil pressure tap                  |
| B - Oil charge plug          | M - Max. discharge temperature sensor |
| C - Low pressure connection  | P - Oil differential pressure switch  |
| D - High pressure connection | Q - Gas equalisation                  |
| E - Oil drain plug           | DL - Discharge service valve          |
| F - Crankcase heater         | SL - Suction service valve            |
| G - Oil return plug          |                                       |



Configuration: Standard \ Optional

TE=Thermistor protection	Standard
RELTM=Motor protection electronic module with delay	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
CR2=Capacity control 33-66-100%	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 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.	
220-240/3/50 (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