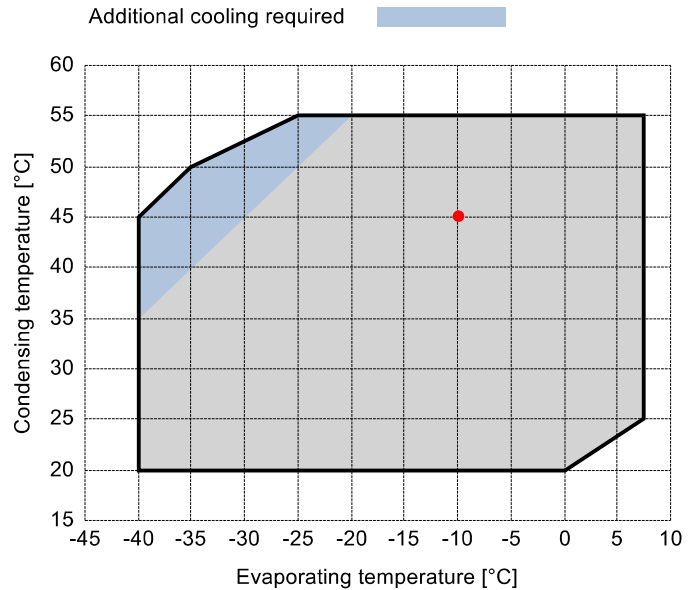


## Input data

Refrigerant	R404A	
Reference temperature	Dew point temperature	
Calculation mode	Refrigeration / Air Cond.	
Operating mode	Subcritical	
Power supply	400/3/50	
Condensing temperature	°C	45
Condensing pressure	bar	20,47
Liquid subcooling	K	0
Liquid temperature	°C	44,67
Evaporating temperature	°C	-10
Evaporating pressure	bar	4,34
Suction gas superheating	K	10
Useful fraction of superheating	%	100



## Output data

<b>Compressor :</b>	<b>B2-10.1Y</b>	
Number of compressors :	FSx1	
Refrigerating capacity	kW	4,35
Refrigerating capacity [ *ref ]	kW	4,661
Evaporator capacity	kW	4,35
Power input	W	2474
Condenser capacity, theor.	kW	6,824
Current	A	5,19
COP/EER	W/W	1,76
Mass flow	kg/h	154
Operating frequency	Hz	50
Connection	-	DOL-STAR
Operating mode	-	100%
Discharge temperature	°C	80
Ratio (%)	%	100,0%
Note	-	
Oil flow	l/min	-
Heat Exchanged (oil Cooler)	kW	-
Oil Temp. at Oil Cooler Outlet	°C	-
Certified by	-	ASERCOM

## Certified by:

- ASERCOM (ref. EN12900, 50 Hz, 100% cap.)

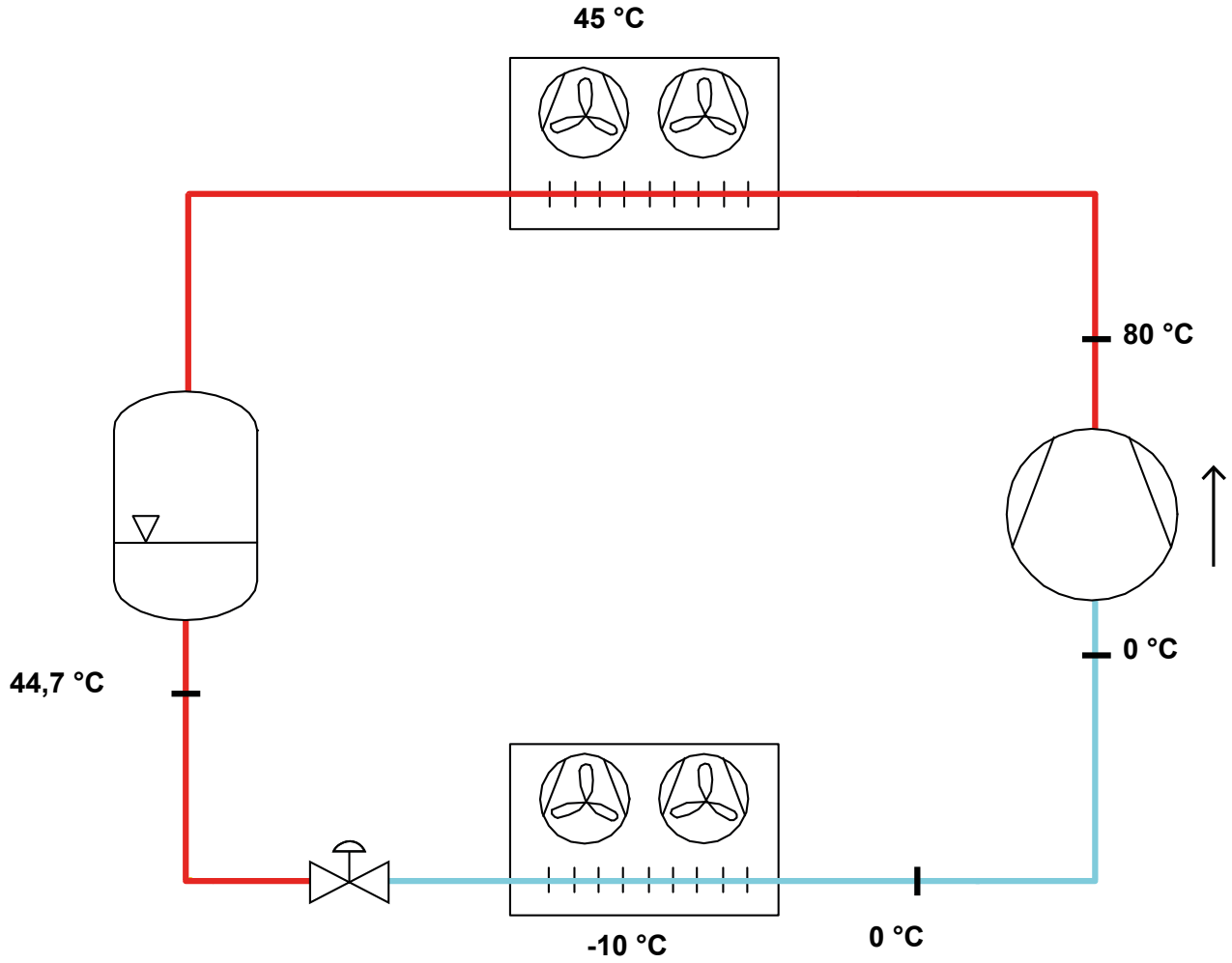


## Legend:

- \*ref: At conditions according to EN12900
- Suction gas temperature = 20 °C
- Liquid subcooling = 0 K

All data subject to change without notice

**P&I Diagram:**



Oil separator:

**Model: B2-10.1Y**

Refrigerant: R404A

Power supply: 400/3/50 DOL-STAR

**Technical data:**

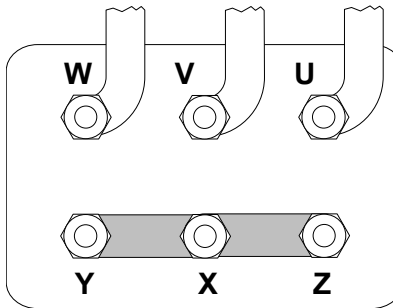
Displacement	9,88 m³/h
Nominal compressor speed	1450 rpm
Motor voltage	400 V
Nominal operating frequency	50 Hz
maximum allowed operating current (MRA)	6,7 A
locked rotor current (LRA)	35,9 A
Number of pistons	2
Net weight	40 kg
Lubricant	FRASCOLD POE32
Oil charge	1 l

**Sound level:**

Sound power level 5/50°C R404A @50Hz	66,5 dB(A)
Sound pressure (*) - Distance: 1 m	58,5 dB(A)
Sound power level -10/45°C R404A @50Hz	66,5 dB(A)
Sound pressure (*) - Distance: 1 m	58,5 dB(A)

\*half sphere model

**Motor connections:**



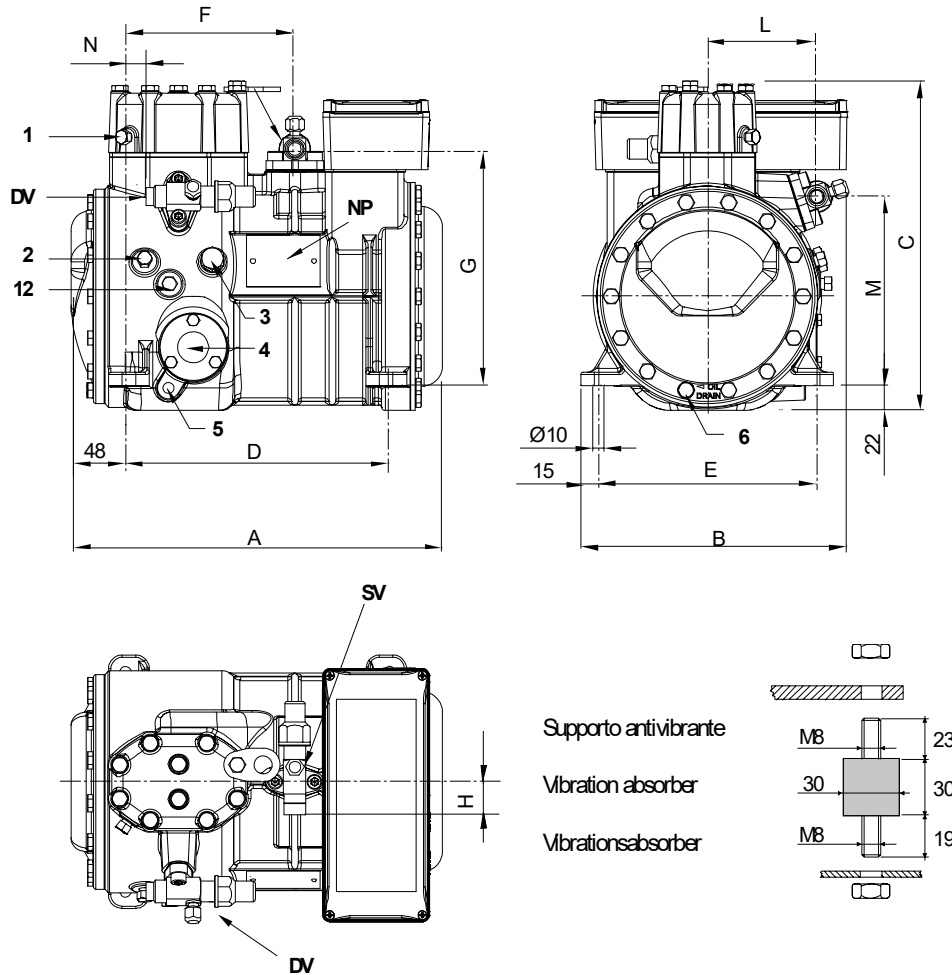
*All data subject to change without notice*

**Model: B2-10.1Y**

Refrigerant: R404A

Power supply: 400/3/50 DOL-STAR

**Dimensions:**



**Legend:**

SV: Suction Valve	3/4" in - 19 mm	M: Discharge valve	167 mm
DV: Discharge valve	5/8" in - 16 mm	N: Discharge valve	18 mm
A: Length	334 mm	1: High pressure connection	1/8" NPT
B: Width	237 mm	2: Low pressure connection	1/8" NPT
C: Height	292 mm	3: Oil charge plug	1/4" GAS
D: Base mounting	234 mm	4: Oil level sight glass	-
E: Base mounting	194 mm	5: Crankcase heater seat	-
F: Suction Valve	150 mm	6: Oil drain plug	M8 x 22
G: Suction Valve	209 mm	12: Oil return plug	1/8" NPT
H: Suction Valve	31 mm	NP: Nameplate	
I: Discharge valve	97 mm		

All data subject to change without notice

**Model: B2-10.1Y**

Refrigerant: R404A

Power supply: 400/3/50 DOL-STAR

**Polynomial coefficients according to EN12900 for B2-10.1Y:**

\*S = T<sub>evap</sub> ; D = T<sub>cond</sub>

Reference conditions

Refrigerant	R404A
Ambient temperature	35 °C
Suction gas temperature	20 °C
Liquid subcooling	0 K
Frequency	50 Hz

	Refrigerating capacity [W]	Power input [W]
C1	1,365961E+004	7,901240E+002
C2	4,741903E+002	-4,849401E+001
C3	-1,676127E+002	6,252876E+001
C4	5,507432E+000	-1,454752E+000
C5	-4,887057E+000	2,103597E+000
C6	4,673863E-001	-4,870674E-001
C7	1,837025E-002	-9,957379E-003
C8	-4,505554E-002	1,882642E-002
C9	2,173098E-003	-7,530324E-003
C10	-1,595165E-003	2,376820E-003

*All data subject to change without notice*