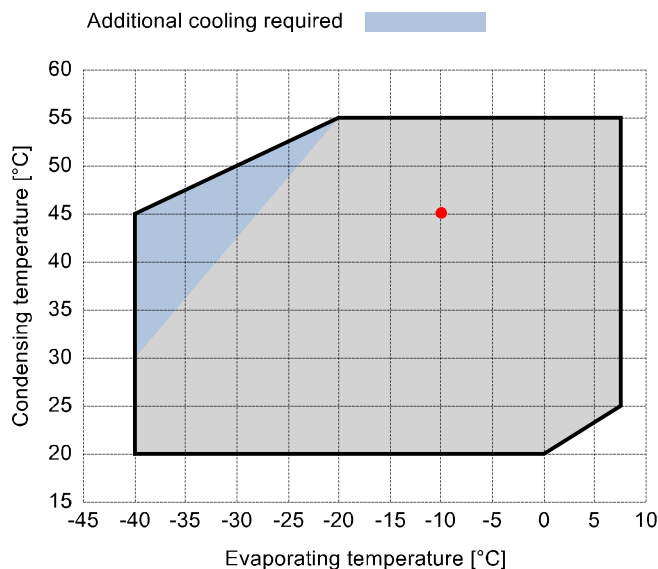


Input data

Refrigerant	R404A	
Reference temperature	Dew point temperature	
Calculation mode	Refrigeration / Air Cond.	
Operating mode	Subcritical	
Power supply	400/3/50	
<hr/>		
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

Compressor :		Q9-36.1Y
Number of compressors :		FSx1
<hr/>		
Refrigerating capacity	kW	17,698
Refrigerating capacity [*ref]	kW	18,963
Evaporator capacity	kW	17,698
Power input	W	8900
Condenser capacity, theor.	kW	26,598
Current	A	15,55
COP/EER	W/W	1,99
Mass flow	kg/h	628
Operating frequency	Hz	50
Connection	-	DOL-STAR
Operating mode	-	100%
Discharge temperature	°C	74,42
Ratio (%)	%	100,0%
Note	-	
<hr/>		
Oil flow	l/min	-
Heat Exchanged (oil Cooler)	kW	-
Oil Temp. at Oil Cooler Outlet	°C	-
Certified by	-	Frascold

Certified by:

- Frascold tentative data

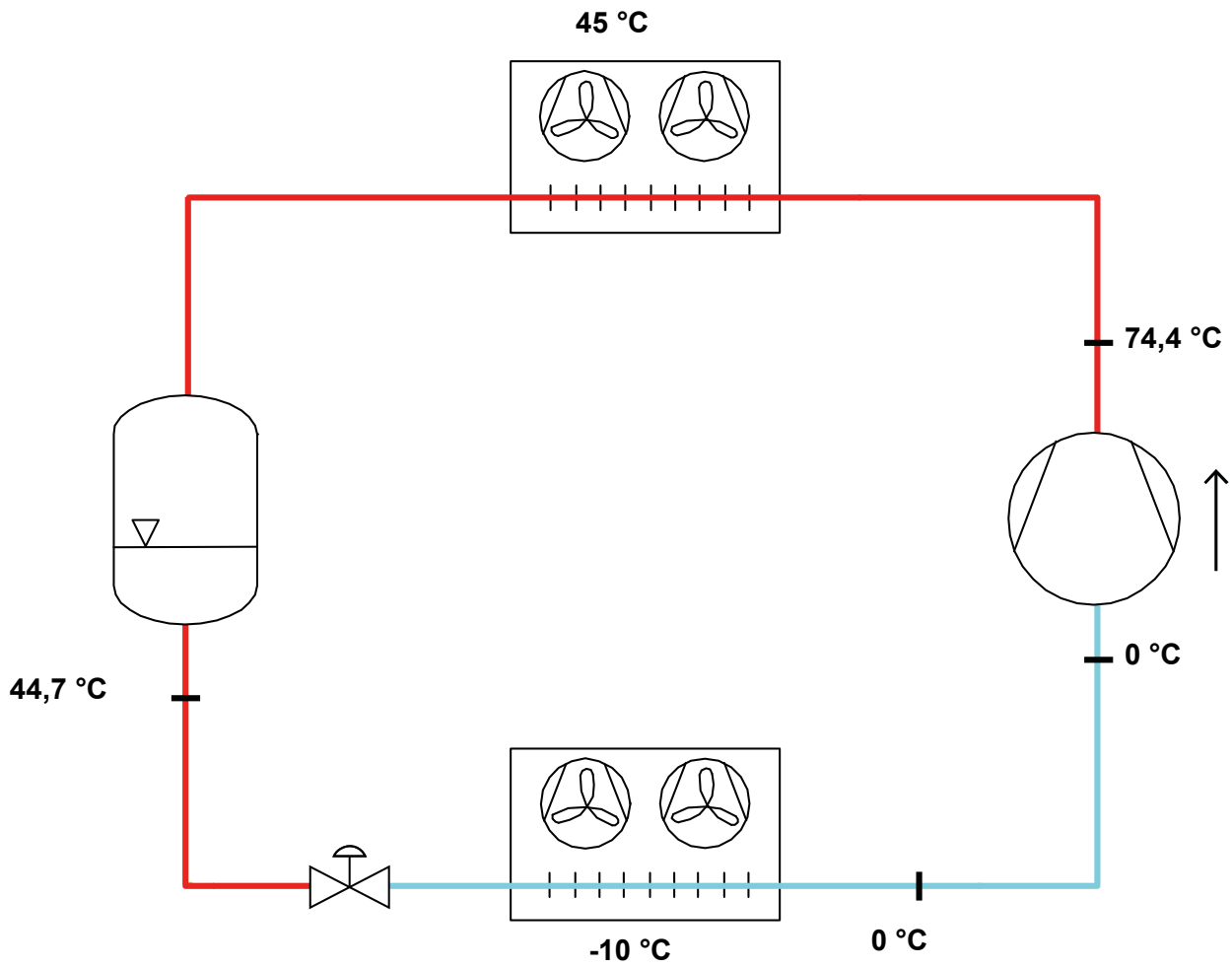


Legend:

- *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:



Model: Q9-36.1Y

Refrigerant: R404A

Power supply: 400/3/50 DOL-STAR

Technical data:

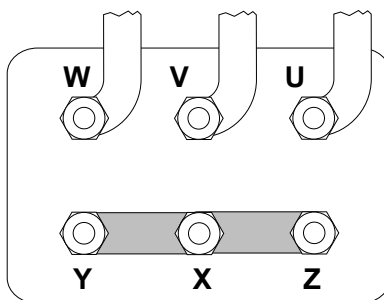
Displacement	35,86 m ³ /h
Nominal compressor speed	1450 rpm
Motor voltage	400 V
Nominal operating frequency	50 Hz
Maximum allowed operating current (MRA)	22,2 A
Locked rotor current (LRA)	96,8 A
Number of pistons	4
Net weight	83 kg
Lubricant	FRASCOLD POE32
Oil charge	1,3 l
Maximum static pressure LP	20,5 bar
Maximum operating pressure HP	30 bar

Sound level:

Sound power level -10/45°C R404A @50Hz	73,5 dB(A)
Sound pressure (*) - Distance: 1 m	65,5 dB(A)

*half sphere model

Motor connections:



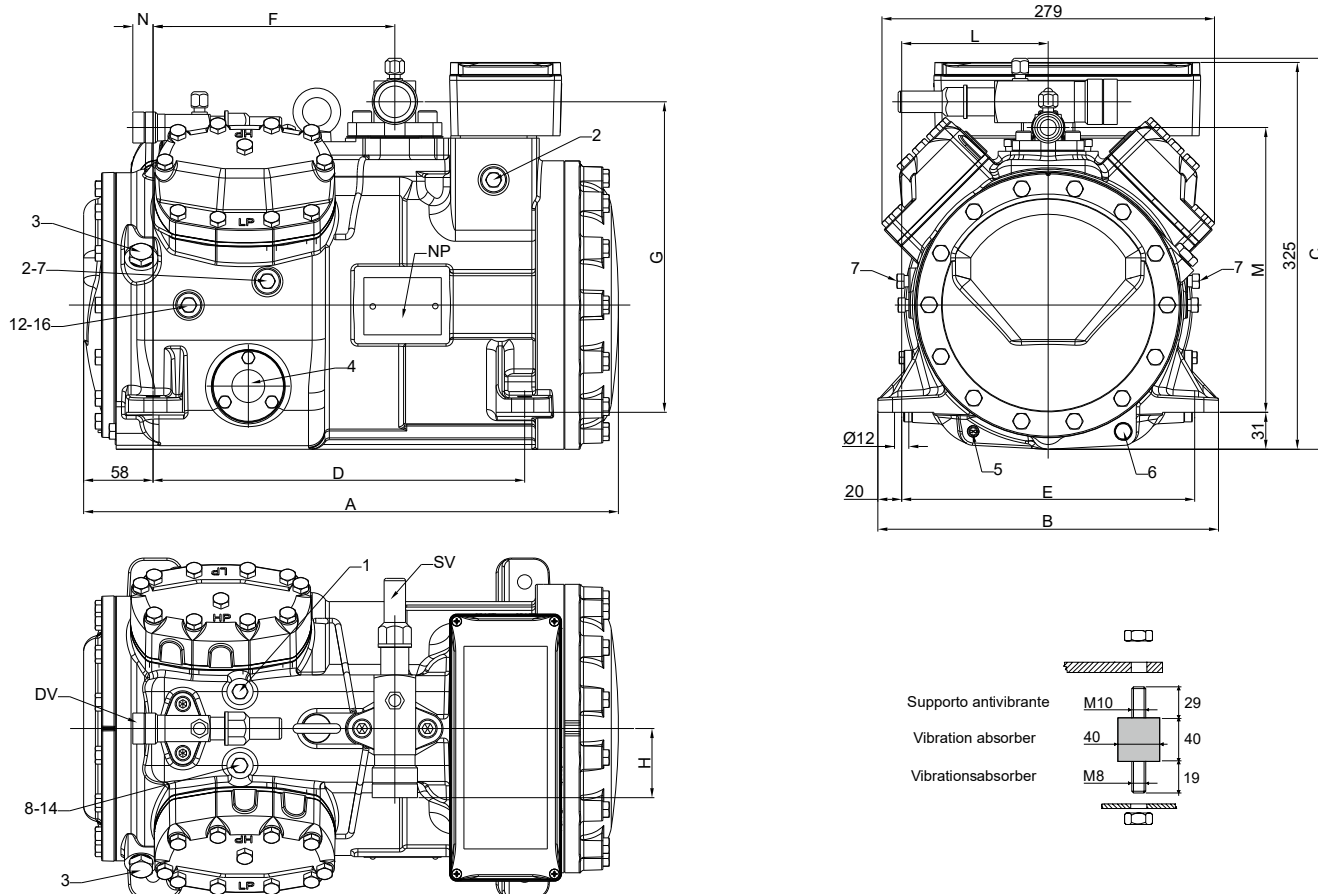
All data subject to change without notice

Model: Q9-36.1Y

Refrigerant: R404A

Power supply: 400/3/50 DOL-STAR

Dimensions:



Legend:

SV: Suction Valve	1 3/8" in - 35 mm	2: Low pressure connection	1/8" NPT
DV: Discharge valve	1 1/8" - 28,575 mm	3: Oil charge plug	1/4" GAS
A: Length	464 mm	4: Oil level sight glass	-
B: Width	286 mm	5: Crankcase heater seat	-
C: Height	328 mm	6: Oil drain plug	M8 x 22
D: Base mounting	312 mm	7: Liquid injection plug	1/8" NPT
E: Base mounting	246 mm	8: Liquid injection sensor plug	1/8" NPT
F: Suction Valve	203 mm	12: Oil return plug	1/8" NPT
G: Suction Valve	261 mm	14: Max discharge temperature sensor connection	1/8" NPT
H: Suction Valve	58 mm	16: Crankcase pressure plug	1/8" NPT
L: Discharge valve	123 mm	NP: Nameplate	
M: Discharge valve	239 mm	DIMENSION UNITS:	mm
N: Discharge valve	28 mm	SECONDARY DIMENSION UNITS:	[in]
1: High pressure connection	1/8" NPT		

All data subject to change without notice

Model: Q9-36.1Y

Refrigerant: R404A

Power supply: 400/3/50 DOL-STAR

Polynomial coefficients according to EN12900 for Q9-36.1Y:

*S = T_{evap} ; D = T_{cond}

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	5,209347E+004	2,465499E+003
C2	1,719075E+003	-1,159065E+002
C3	-5,328762E+002	2,321736E+002
C4	1,897851E+001	-3,117053E+000
C5	-1,561998E+001	6,616169E+000
C6	-2,806884E-001	-1,233763E+000
C7	6,337475E-002	-1,790914E-002
C8	-1,396880E-001	4,404239E-002
C9	-5,493452E-003	-1,489860E-002
C10	2,877950E-003	1,061020E-003

$$Y = C1 + C2*S + C3*D + C4*S^2 + C5*S*D + C6*D^2 + C7*S^3 + C8*D*S^2 + C9*S*D^2 + C10*D^3$$