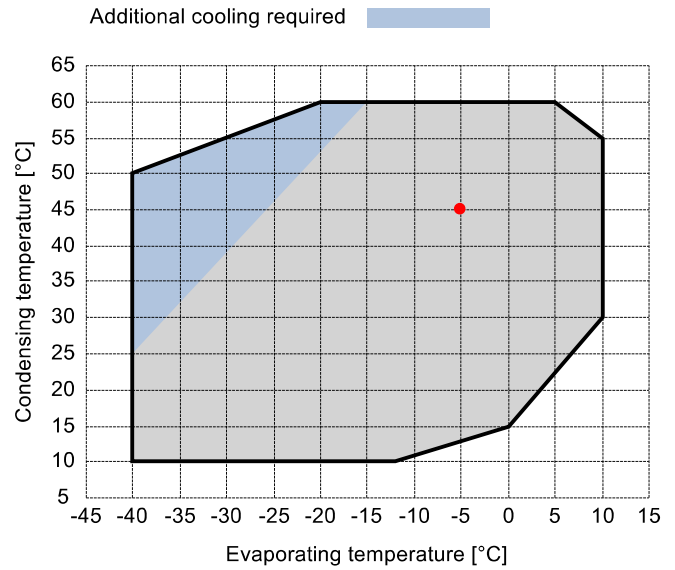


Input data

Refrigerant	R449A	
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	18.86
Liquid subcooling	K	2
Liquid temperature	°C	38.72
Evaporating temperature	°C	-5
Evaporating pressure	bar	4.33
Suction gas temperature	°C	20
Evaporator superheating	K	5



Output data

Compressor :		Z35-106Y
Number of compressors :		FSx1
Refrigerating capacity	kW	64.929
Refrigerating capacity [*ref]	kW	63.568
Evaporator capacity	kW	57.507
Power input	W	23116
Condenser capacity, theor.	kW	88.044
Current	A	39.77
COP/EER	W/W	2.49
Mass flow	kg/h	1455
Operating frequency	Hz	50
Connection	-	PWS
Operating mode	-	100%
Discharge temperature	°C	96.86
Ratio (%)	%	100.0%
Note	-	
Oil flow	l/min	-
Heat Exchanged (oil Cooler)	kW	-
Oil Temp. at Oil Cooler Outlet	°C	-
Certified by	-	Frascold

Certified by:

- Frascold tentative data

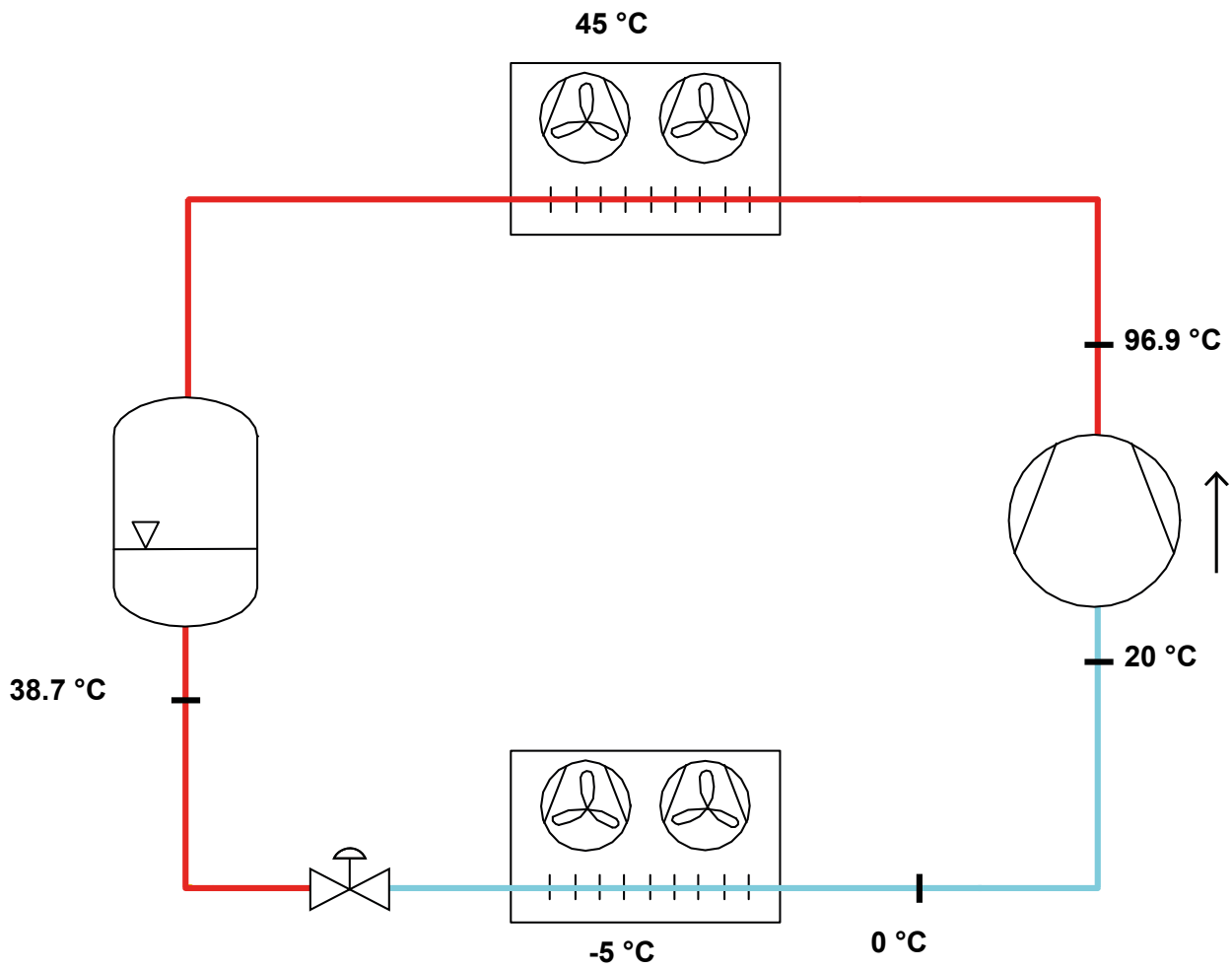


Legend:

- *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: Z35-106Y

Refrigerant: R449A

Power supply: 400/3/50 PWS

Technical data:

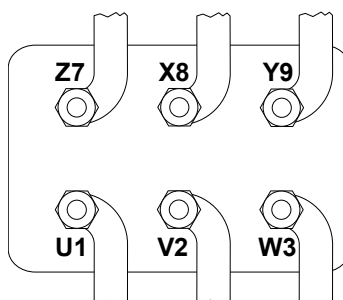
Displacement	106.16 m³/h
Nominal compressor speed	1450 rpm
Motor voltage	400 V
Nominal operating frequency	50 Hz
Maximum allowed operating current (MRA)	60.2 A
Locked rotor current (LRA)	144.5 A
Locked rotor current (LRA), DOL	239.2 A
Number of pistons	6
Net weight	223 kg
Lubricant	FRASCOLD POE68
Oil charge	3.7 l
Maximum static pressure LP	20.5 bar
Maximum operating pressure HP	30 bar

Sound level:

Sound power level 5/50°C R404A @50Hz	81.5 dB(A)
Sound pressure (*) - Distance: 1 m	73.5 dB(A)
Sound power level -10/45°C R404A @50Hz	82 dB(A)
Sound pressure (*) - Distance: 1 m	74 dB(A)

*half sphere model

Motor connections:



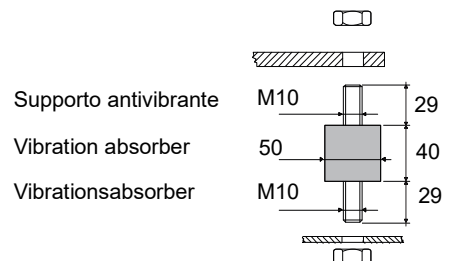
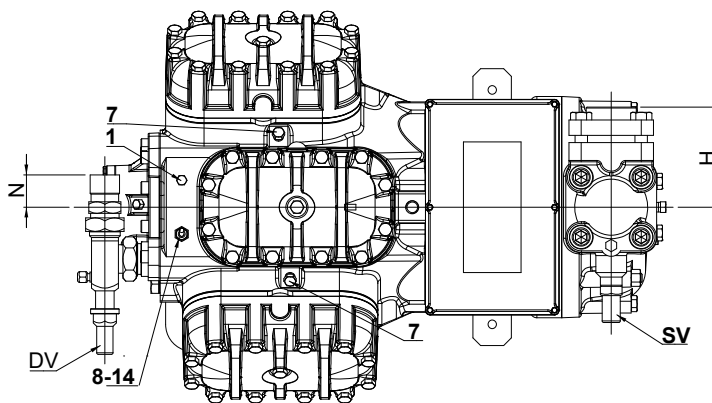
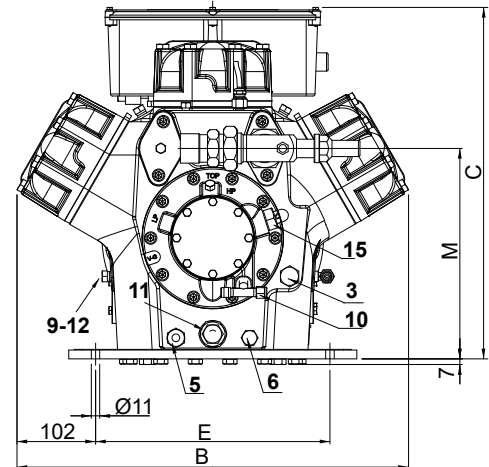
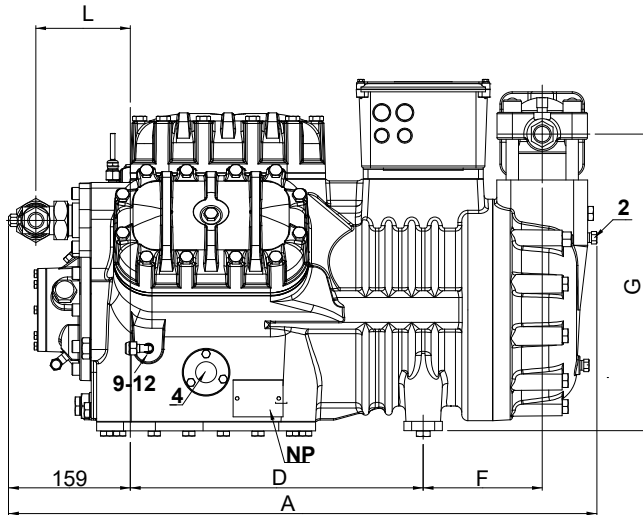
All data subject to change without notice

Model: Z35-106Y

Refrigerant: R449A

Power supply: 400/3/50 PWS

Dimensions:



Legend:

SV: Suction Valve	2 1/8" in - 54 mm	2: Low pressure connection	1/4" NPT
DV: Discharge valve	1 3/8" in - 35 mm	3: Oil charge plug	3/8" GAS
A: Length	806 mm	4: Oil level sight glass	-
B: Width	509 mm	5: Crankcase heater seat	-
C: Height	457 mm	6: Oil drain plug	1/4" GAS
D: Base mounting	381 mm	7: Liquid injection plug	1/4" NPT
E: Base mounting	305 mm	8: Liquid injection sensor plug	1/8" NPT
F: Suction Valve	180 mm	9: Oil pressure switch connection (LP)	1/4" NPT
G: Suction Valve	386 mm	10: Oil pressure switch connection (HP)	1/4" SAE
H: Suction Valve	130 mm	11: Oil filter	3/8" GAS
L: Discharge valve	123 mm	12: Oil return plug	1/4" NPT
M: Discharge valve	274 mm	14: Max discharge temperature sensor connection	1/8" NPT
N: Discharge valve	42 mm	15: Electronic oil pressure switch connection	-
1: High pressure connection	1/8" NPT	NP: Nameplate	-

All data subject to change without notice

Model: Z35-106Y

Refrigerant: R449A

Power supply: 400/3/50 PWS

Polynomial coefficients according to EN12900 for Z35-106Y:

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

Reference conditions

Refrigerant	R449A
Ambient temperature	35 °C
Suction gas temperature	20 °C
Liquid subcooling	0 K
Frequency	50 Hz

	Refrigerating capacity [W]	Power input [W]
C1	1.327830E+005	4.241270E+003
C2	4.849230E+003	-4.032940E+002
C3	-1.259000E+003	6.371380E+002
C4	6.398710E+001	-1.090340E+001
C5	-3.882370E+001	1.989090E+001
C6	1.872760E+000	-4.296310E+000
C7	2.971350E-001	-7.806750E-002
C8	-4.200010E-001	1.110480E-001
C9	-1.160100E-002	-9.353760E-002
C10	-2.248390E-002	6.068650E-003

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