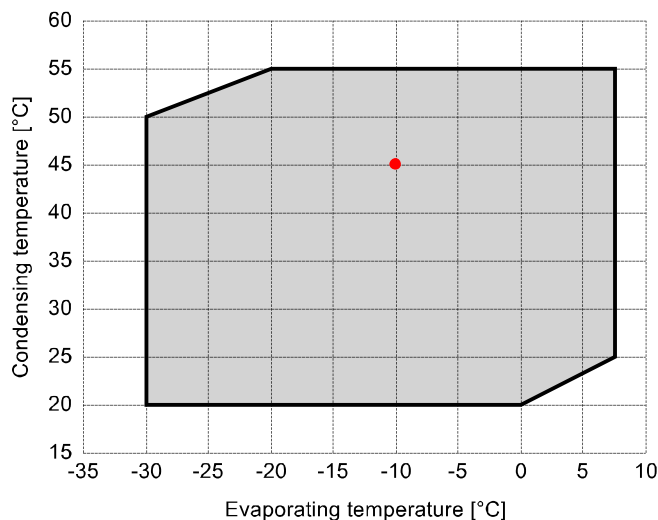


Input data

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 :		W80-240Y
Number of compressors :		FSx1
<hr/>		
Refrigerating capacity	kW	107,617
Refrigerating capacity [*ref]	kW	115,308
Evaporator capacity	kW	107,617
Power input	W	51359
Condenser capacity, theor.	kW	158,976
Current	A	94,32
COP/EER	W/W	2,1
Mass flow	kg/h	3816
Operating frequency	Hz	50
Connection	-	PWS
Operating mode	-	100%
Discharge temperature	°C	72,28
Ratio (%)	%	100,0%
Note	-	
<hr/>		
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.)

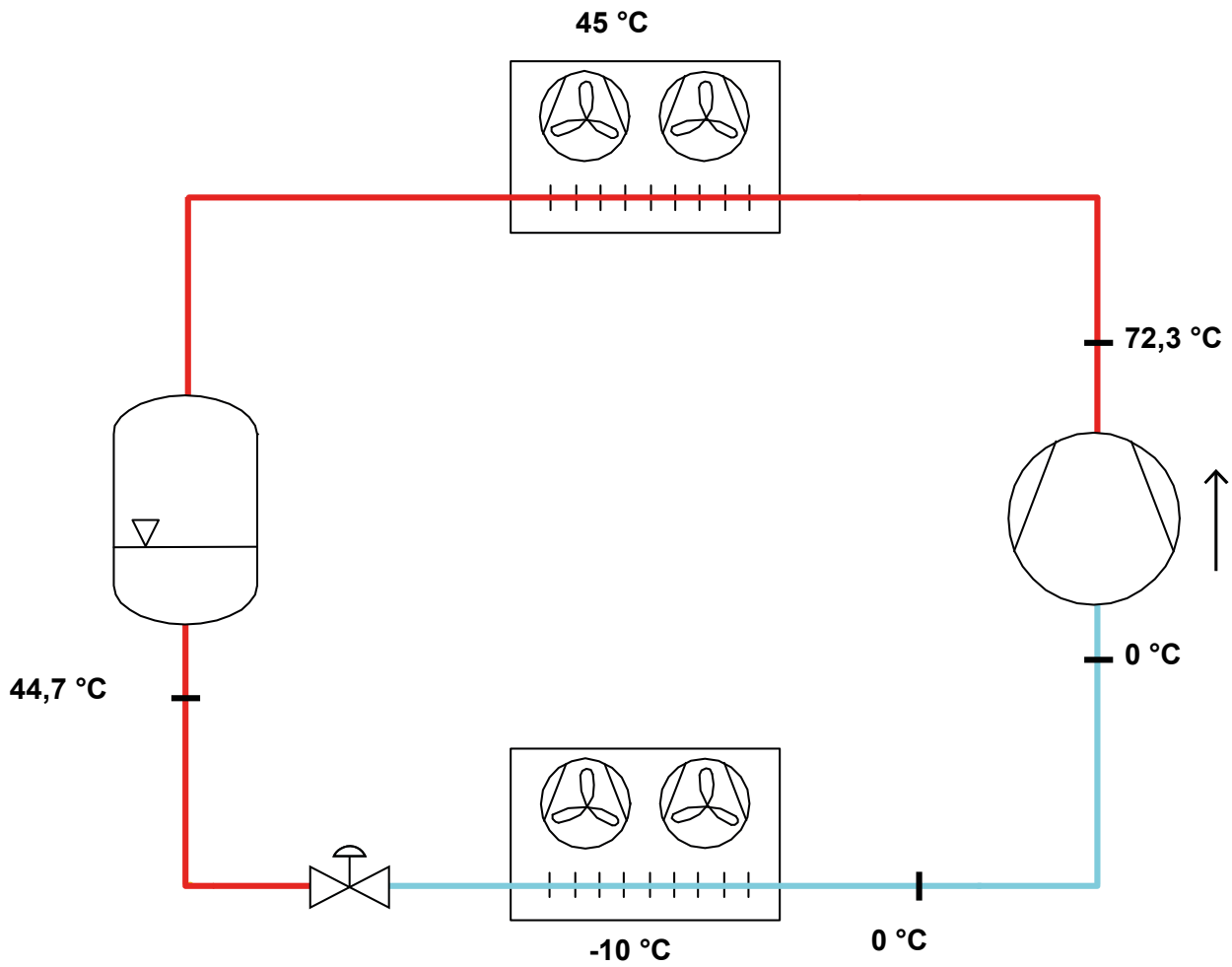


Legend:

- *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:



Model: W80-240Y

Refrigerant: R404A

Power supply: 400/3/50 PWS

Technical data:

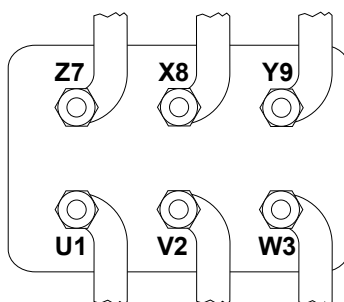
Displacement	239,02 m ³ /h
Nominal compressor speed	1450 rpm
Motor voltage	400 V
Nominal operating frequency	50 Hz
Maximum allowed operating current (MRA)	135,7 A
Locked rotor current (LRA)	417 A
Locked rotor current (LRA), DOL	584 A
Number of pistons	8
Net weight	328 kg
Lubricant	FRASCOLD POE68
Oil charge	7,7 l
Maximum static pressure LP	20,5 bar
Maximum operating pressure HP	30 bar

Sound level:

Sound power level 5/50°C R404A @50Hz	88 dB(A)
Sound pressure (*) - Distance: 1 m	80 dB(A)
Sound power level -10/45°C R404A @50Hz	91 dB(A)
Sound pressure (*) - Distance: 1 m	83 dB(A)

*half sphere model

Motor connections:



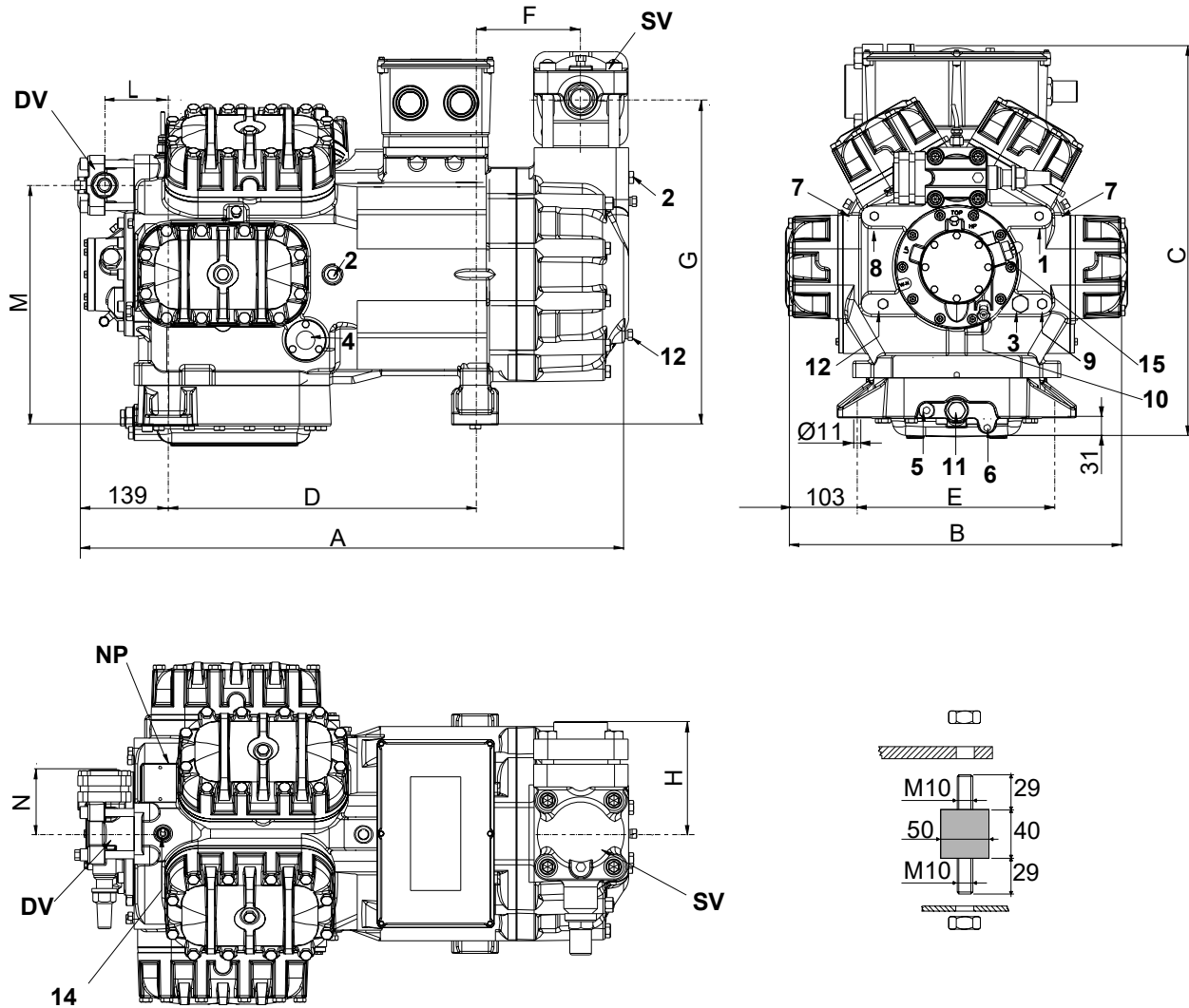
All data subject to change without notice

Model: W80-240Y

Refrigerant: R404A

Power supply: 400/3/50 PWS

Dimensions:



Legend:

SV: Suction Valve	3 1/8" - 80 mm	3: Oil charge plug	3/8" GAS
DV: Discharge valve	2 1/8" - 54 mm	4: Oil level sight glass	-
A: Length	864 mm	5: Crankcase heater seat	-
B: Width	519 mm	6: Oil drain plug	1/4" GAS
C: Height	588 mm	7: Liquid injection plug	1/4" NPT
D: Base mounting	458 mm	8: Liquid injection sensor plug	1/8" NPT
E: Base mounting	305 mm	9: Oil pressure switch connection (LP)	1/4" NPT
F: Suction Valve	190 mm	10: Oil pressure switch connection (HP)	1/4" SAE
G: Suction Valve	486 mm	11: Oil filter	3/8" GAS
H: Suction Valve	160 mm	12: Oil return plug	1/4" NPT
L: Discharge valve	95 mm	14: Max discharge temperature sensor connection	1/8" NPT
M: Discharge valve	358 mm	15: Electronic oil pressure switch connection	-
N: Discharge valve	162 mm	NP: Nameplate	-
1: High pressure connection	1/8" NPT	DIMENSION UNITS: mm	
2: Low pressure connection	1/4" NPT	SECONDARY DIMENSION UNITS: [in]	

All data subject to change without notice

Model: W80-240Y

Refrigerant: R404A

Power supply: 400/3/50 PWS

Polynomial coefficients according to EN12900 for W80-240Y:

*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	3,177847E+005	1,692843E+004
C2	1,115461E+004	-7,421290E+002
C3	-3,075561E+003	1,298006E+003
C4	1,411746E+002	-2,419125E+001
C5	-9,523926E+001	4,032103E+001
C6	-3,746585E+000	-7,143753E+000
C7	5,255983E-001	-1,692000E-001
C8	-1,166455E+000	3,111913E-001
C9	-1,698236E-001	-9,917311E-002
C10	4,582383E-003	5,609170E-004

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