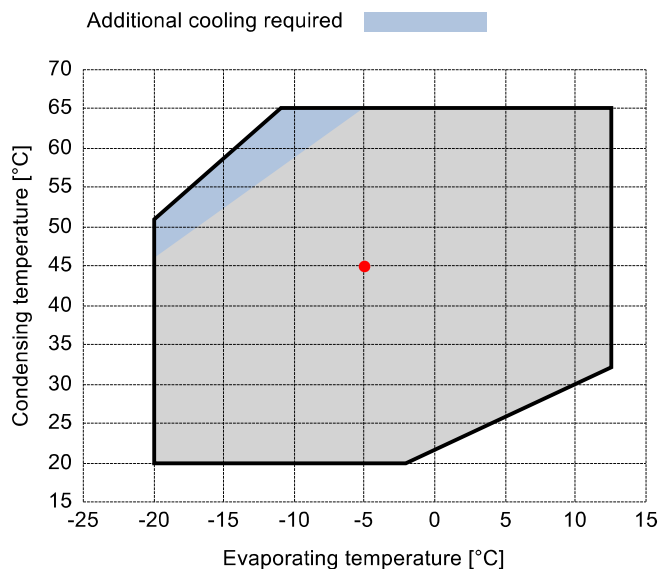


Input data

Refrigerant	R134a	
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	11,6
Liquid subcooling	K	2
Liquid temperature	°C	43
Evaporating temperature	°C	-5
Evaporating pressure	bar	2,43
Suction gas temperature	°C	20
Evaporator superheating	K	5



Output data

Compressor :	CXHI91-160-620Y	
Number of compressors :	VSx1	
Refrigerating capacity	kW	172,923
Refrigerating capacity [*ref]	kW	165,37
Evaporator capacity	kW	153,317
Power input	W	56521
Condenser capacity, theor.	kW	229,444
Current	A	111,02
COP/EER	W/W	2,71
Mass flow	kg/h	3992
Operating frequency	Hz	30
Connection	-	SDS
Operating mode	-	Inverter
Discharge temperature	°C	86,43
Ratio (%)	%	100,0%
Note	-	
Oil flow	l/min	21,82
Heat Exchanged (oil Cooler)	kW	-
Oil Temp. at Oil Cooler Outlet	°C	-
Certified by	-	Frascold

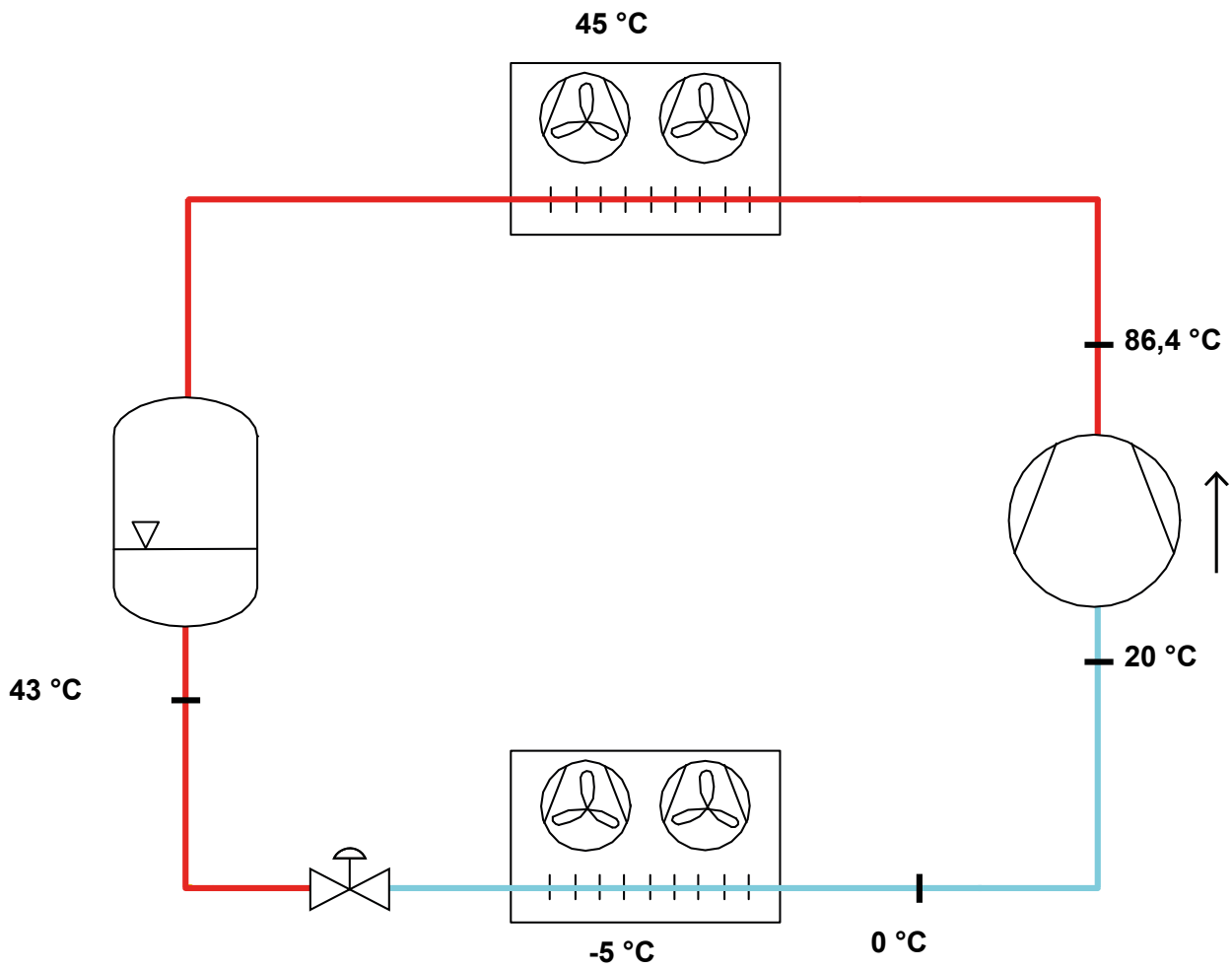
Certified by:

- Frascold tentative data

Legend:

- *ref: At conditions according to EN12900
- Suction gas superheating = 10 K
- Liquid subcooling = 0 K

P&I Diagram:



All data subject to change without notice

Oil separator:

Name	WK201
Number of separators	1

Results

Number of compressors, maximum		3
Utilization (Number of separators)	%	33,33
Refrigerant mass flow, maximum	kg/h	5279
Utilization (Refrigerant mass flow)	%	75,61
Oil flow, maximum	l/min	112,5
Utilization (Oil flow)	%	19,39

Selection parameters

Number of compressors		1
Mass flow, Compressors	kg/h	3992
Oil flow, Compressors	l/min	21,82

Operating conditions

Evaporating temperature	°C	-5
Suction gas temperature	°C	20
Condensing temperature	°C	45
Liquid temperature	°C	43

All data subject to change without notice

Model: CXHI91-160-620Y

Refrigerant: R134a

Power supply: 400/3/50 SDS

Technical data:

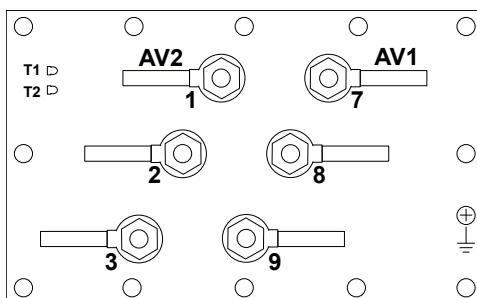
Displacement	620 m³/h
Nominal compressor speed	2900 rpm
Motor voltage	400 V
Nominal operating frequency	50 Hz
Maximum allowed operating current (MRA)	283 A
Locked rotor current (LRA)	436 A
Locked rotor current (LRA), DOL	1364 A
Net weight	1348 kg
Lubricant	FRASCOLD POE170
Oil charge	26 l
Maximum static pressure LP	20,5 bar
Maximum operating pressure HP	30 bar

Sound level:

Sound power level 5/50°C R134a @50Hz	90,4 dB(A)
Sound pressure (*) - Distance: 1 m	82,4 dB(A)

*half sphere model

Motor connections:



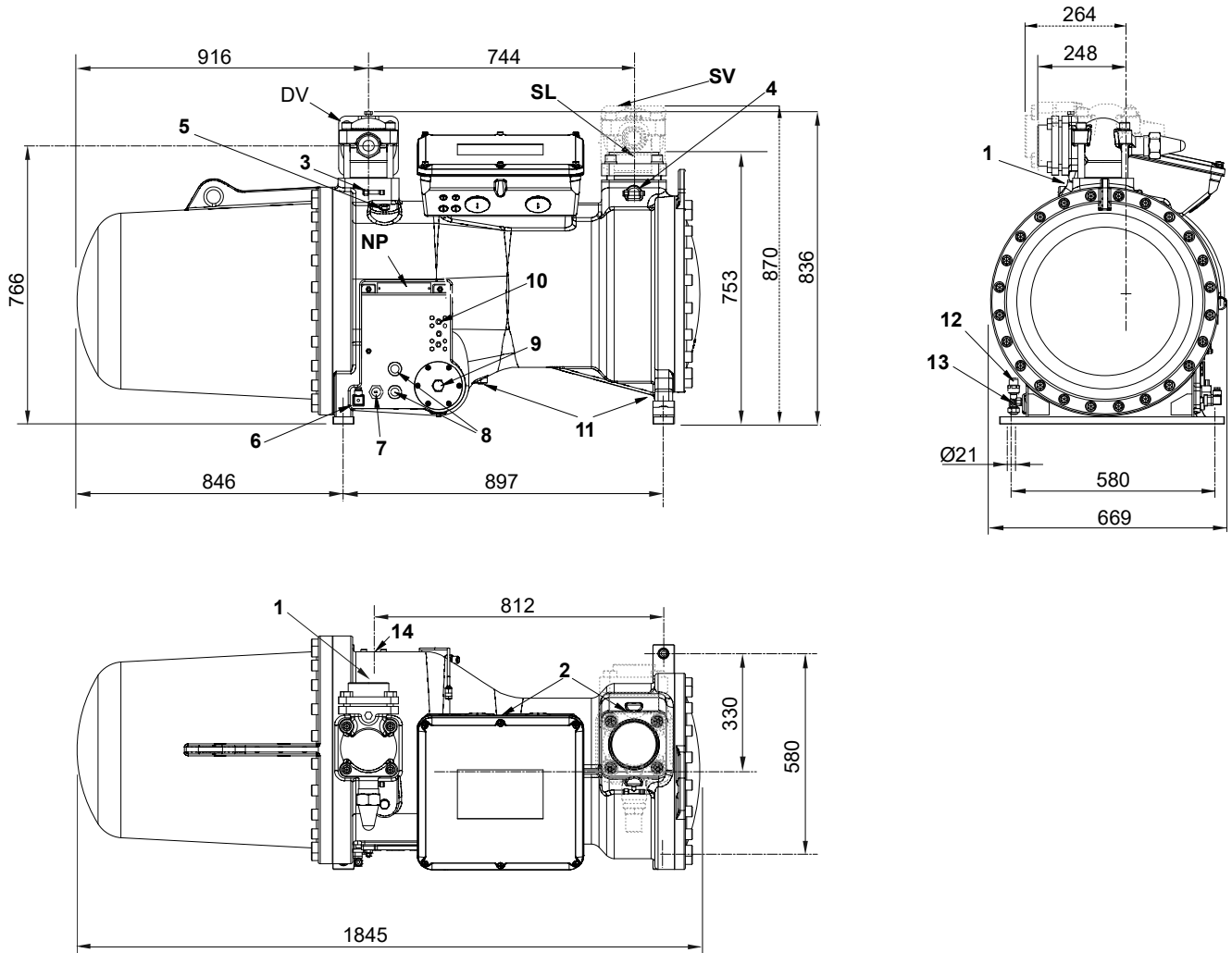
All data subject to change without notice

Model: CXHI91-160-620Y

Refrigerant: R134a

Power supply: 400/3/50 SDS

Dimensions:



Legend:

SV: Suction Valve	4 1/8" in - 105 mm	7: Oil level regulator connection	3/4" NPT
DV: Discharge valve	DN80	8: Oil level sight glass	-
SL: Suction line	4 1/8"	9: Filter clogging sensor connection	1/2" GAS
1: High pressure connection	1/8" NPT	10: Oil cooler connection	1/2" NPT
2: Low pressure connection	1/8" NPT	11: Oil drain plug	1/4" NPT
3: High pressure connection	1/4" SAE x 1/4" SAE	12: Oil drain valve	1/8" NPT
4: Low pressure connection	1/4" SAE x 1/4" SAE	13: Maximum oil temperature sensor	-
5: Oil charge plug	3/8" GAS	14: ECO/liquid injection connection	1 3/8"
6: Crankcase heater	-	NP: Nameplate	-

All data subject to change without notice

Model: CXHI91-160-620Y

Refrigerant: R134a

Power supply: 400/3/50 SDS

Polynomial coefficients according to EN12900 for CXHI91-160-620Y:

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

Reference conditions

Refrigerant	R134a
Ambient temperature	35 °C
Suction gas superheating	10 K
Liquid subcooling	0 K
Frequency	50 Hz

	Refrigerating capacity [W]	Power input [W]
C1	4,862930E+005	6,270080E+004
C2	1,833500E+004	1,742770E+003
C3	5,256840E+002	3,262430E+002
C4	1,985700E+002	4,330590E+001
C5	-1,464080E+001	-3,407540E+001
C6	-1,121670E+002	5,314390E+000
C7	1,163140E+000	6,938320E-001
C8	-1,920970E-002	-5,748610E-001
C9	-1,432540E+000	3,557100E-001
C10	6,702510E-001	1,263120E-001

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