

Refrigeration compressor CXH51-125-468Y



Producer: **Frascold**

Line: **CXH**

Model: **CXH51-125-468Y**

Cooling capacity [kW]: **151.75**

Displacement [m³/h]: **468.0**

Refrigerant: **R134a, R450A, R513A, R1234yf**

Capacity control: **None, Step (option), Inverter (option)**

Power supply: **400V/3Ph/50Hz**

Data

Technical data

Displacement	[m ³ /h]	468.0
Oil charge	[l]	19.00
Oil type		POE170
Type of lubrication		Oil pump
Net weight	[kg]	803.00

Electrical data

Power supply		400V/3Ph/50Hz
Maximum operating current	[A]	198.0
Locked rotor amperage	[A]	530.0
Locked rotor amperage, DOL	[A]	838.0
Nominal motor power for 50 Hz	[kW]	93.21
Nominal motor power for 50 Hz	[HP]	125.00
Motor connection		PWS

Dimensions

Suction tube diameter (SL) ¹	[inch]	4 1/8
Suction valve diameter (SV) ²	[inch]	4 1/8
Suction valve diameter (SV) ²	[mm]	105.0
Discharge valve diameter (DV)	[inch]	DN80
Discharge valve diameter (DV)	[mm]	80.0
Length	[mm]	1,533
Height	[mm]	723
Width	[mm]	586

Other

Approved refrigerants	R134a, R450A, R513A, R1234yf
Capacity control	None, Step (option), Inverter (option)

¹ No valve version.

² Valve version.

Performance

Nominal conditions: refrigerant: R134a, evaporation: -10°C (dew point), condensation: 45°C (dew point), superheating: 10K, subcooling: 0°C

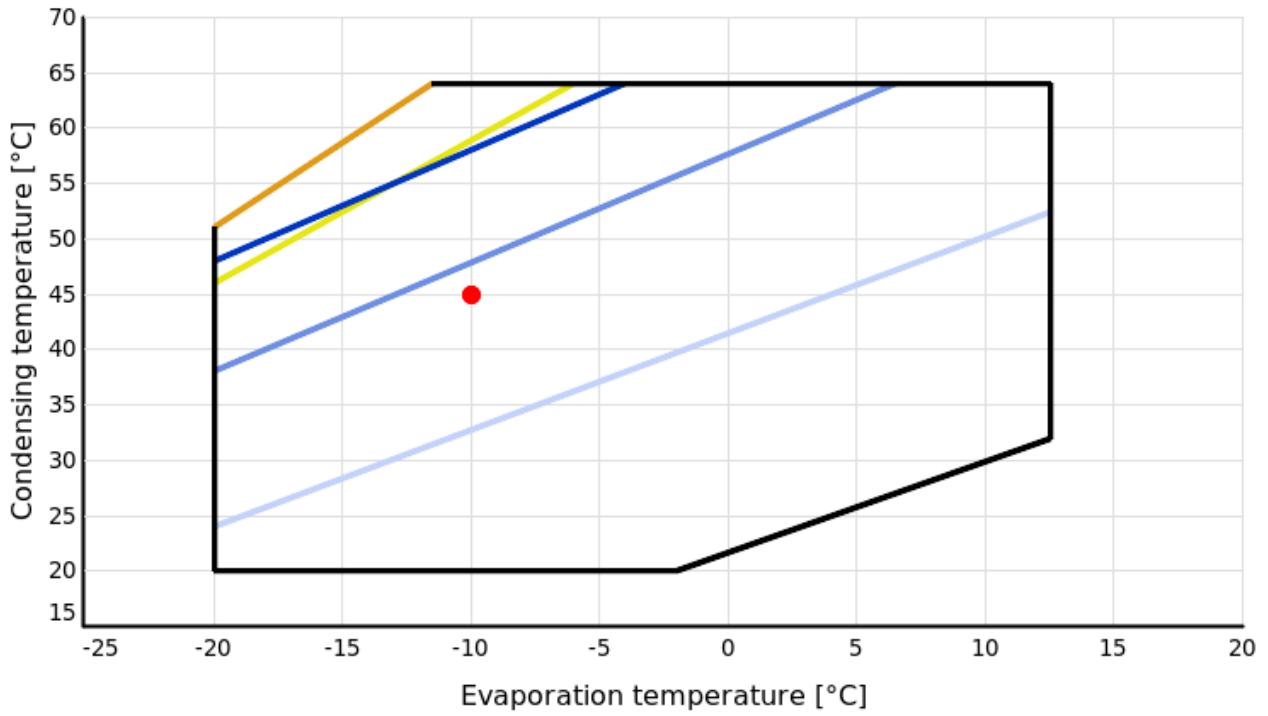
Cooling capacity

		Evaporation temperature [°C]								
		-20	-15	-10	-5	0	5	7.5	10	12.5
Condensation temperature [°C]	60			103.35	138.20	180.83	231.45	259.82	290.28	322.84
	55		87.70	118.67	157.17	203.41	257.61	287.77	320.00	354.33
	50	74.00	100.92	135.11	176.80	226.21	283.56	315.27	349.06	384.94
	45	85.05	114.77	151.75	196.19	248.32	308.36	341.41	376.52	413.73
	40	96.26	128.35	167.65	214.40	268.81	331.09	365.26	401.48	439.78
	35	106.73	140.73	181.92	230.52	286.76	350.85	385.91	423.02	462.19
	30	115.52	150.99	193.62	243.64	301.26	366.71	402.43	440.20	
	25	121.72	158.21	201.84	252.82	311.38				
	20	124.40	161.47	205.65	257.15					

Power consumption

		Evaporation temperature [°C]								
		-20	-15	-10	-5	0	5	7.5	10	12.5
Condensation temperature [°C]	60			90.10	94.24	98.40	102.75	105.03	107.41	109.91
	55		78.65	82.45	86.26	90.21	94.45	96.72	99.11	101.65
	50	68.72	72.22	75.69	79.26	83.09	87.31	89.62	92.08	94.71
	45	63.32	66.47	69.69	73.13	76.93	81.24	83.63	86.20	88.97
	40	58.37	61.26	64.34	67.74	71.62	76.11	78.63	81.36	84.32
	35	53.77	56.50	59.53	62.99	67.04	71.81	74.51	77.45	80.64
	30	49.39	52.06	55.14	58.76	63.07	68.22	71.15	74.35	
	25	45.13	47.83	51.05	54.93	59.61				
	20	40.86	43.70	47.16	51.39					

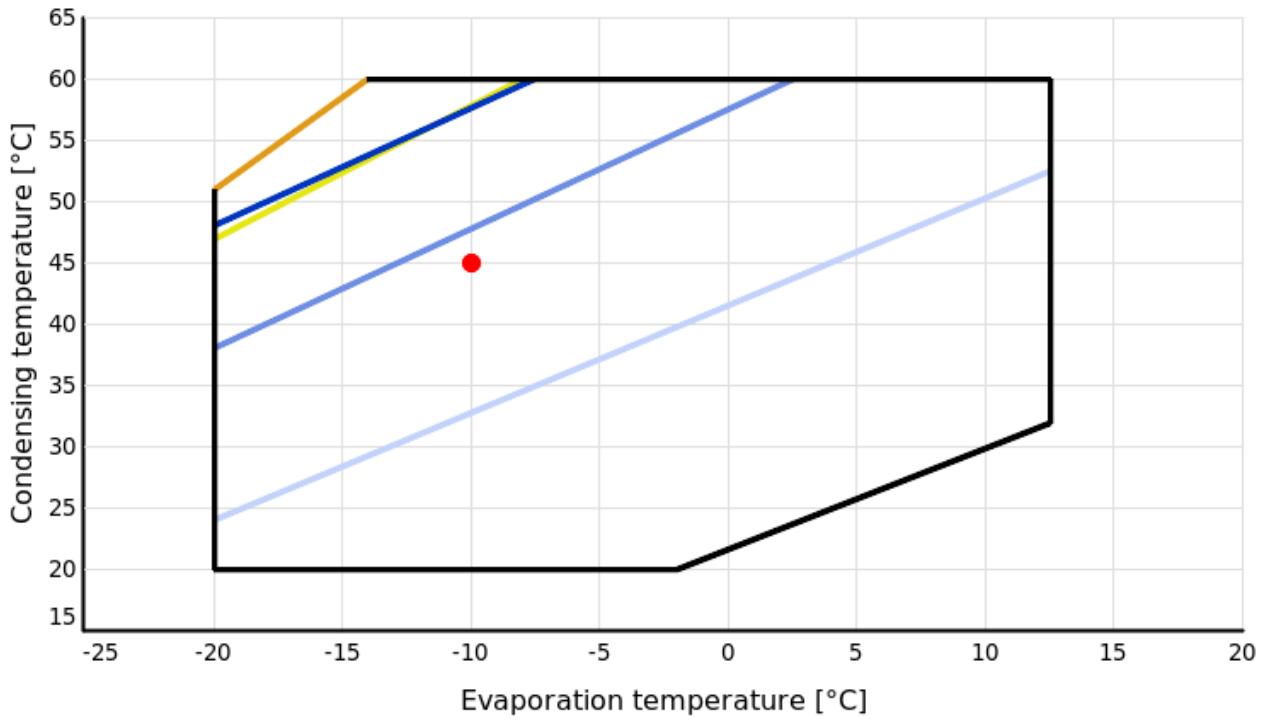
Application range (without economiser version)



Legend

- With additional header cooling
- Without cooling
- Limit at 75% of capacity
- Limit at 50% of capacity
- Limit at 25% of capacity
- Current operating conditions

Application range (with economiser version)

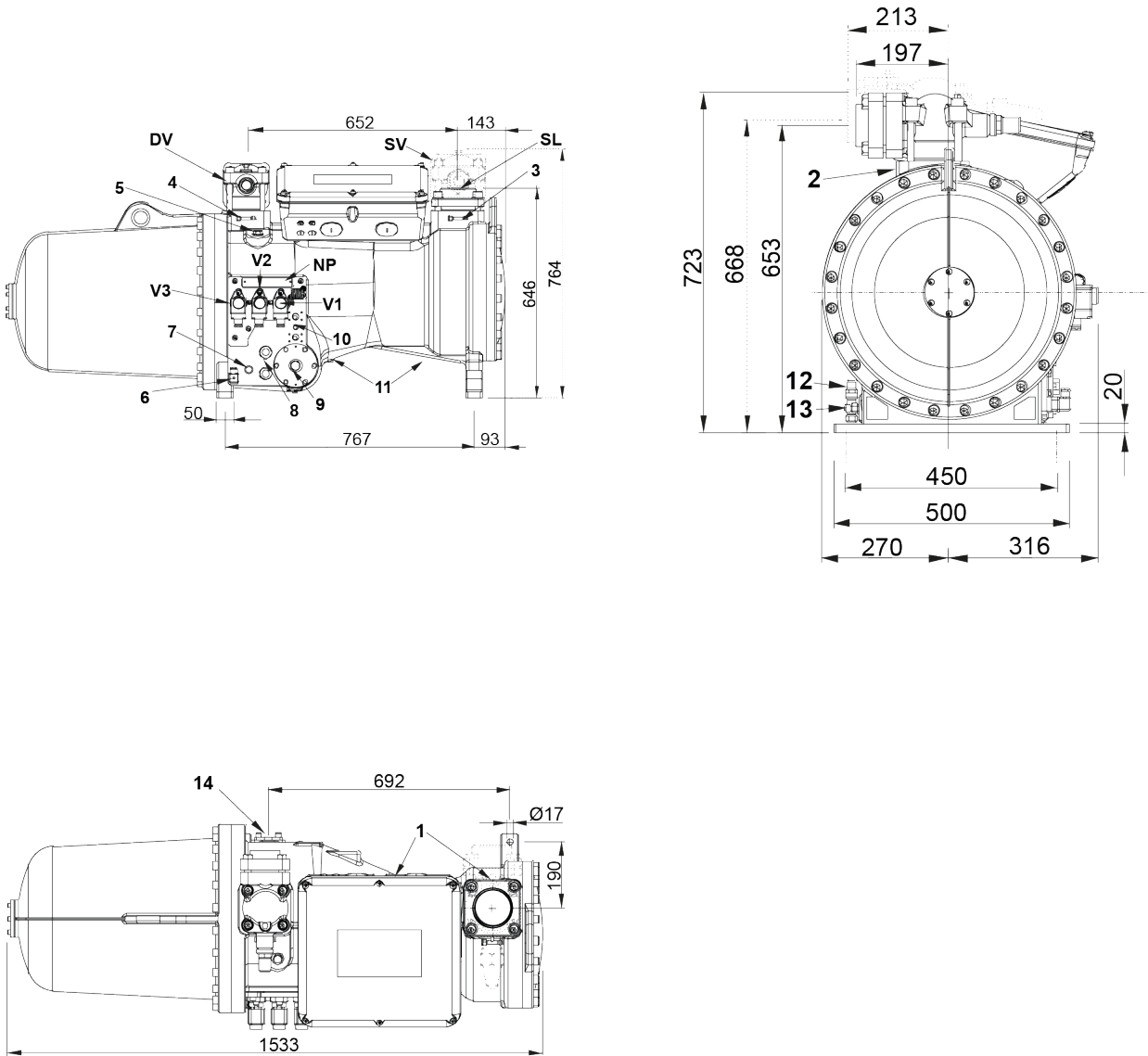


Legend

- With additional header cooling
- Without cooling
- Limit at 75% of capacity
- Limit at 50% of capacity
- Limit at 25% of capacity
- Current operating conditions

Reference conditions - suction gas superheating: 10 K, subcooling: 0 K.

Dimensions



Symbols

1	High pressure connection	1/8" NPT
2	Low pressure connection	1/8" NPT
3	High pressure connection	1/4" SAE x 1/4" SAE
4	Low pressure connection	1/4" SAE x 1/4" SAE
5	Oil charge plug	3/8" GAS
6	Crankcase heater	-
7	Oil level regulator connection	3/4" NPT
8	Oil level sight glass	-
9	Filter clogging sensor connection	1/2" GAS
10	Oil cooler connection	1/2" NPT
11	Oil drain plug	1/4" NPT
12	Oil drain valve	1/8" NPT
13	Maximum oil temperature sensor	-
14	ECO/liquid injection connection	1 1/8"

V1-V3	Capacity control valve
DV	Discharge valve
SV	Suction valve
SL	Suction line
NP	Nameplate