



Producer: **Frascold**

Line: **Z**

Model: **Z40-154Y**

Cooling capacity [kW]: **72.55**

Displacement [m³/h]: **154.4**

Refrigerant: **R22, R134a, R404A, R407A, R407F, R448A, R449A, R450A, R452A, R507, R513A**

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

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

Data

Technical data

Displacement	[m ³ /h]	154.4
Cylinders quantity		6
Oil charge	[l]	7.20
Oil type		POE68
Type of lubrication		Oil pump
Net weight	[kg]	240.00

Electrical data

Power supply		400V/3Ph/50Hz
Maximum operating current	[A]	77.9
Locked rotor amperage	[A]	159.2
Locked rotor amperage, DOL	[A]	273.0
Maximum motor frequency	[Hz]	70
Minimum motor frequency	[Hz]	30
Nominal motor power for 50 Hz	[kW]	29.83
Nominal motor power for 50 Hz	[HP]	40.00
Motor connection		PWS

Dimensions

Suction valve diameter (SV)	[inch]	2 5/8
Suction valve diameter (SV)	[mm]	67.0
Discharge valve diameter (DV)	[inch]	1 5/8
Discharge valve diameter (DV)	[mm]	42.0
Length	[mm]	794
Height	[mm]	536
Width	[mm]	509

Other

Approved refrigerants	R22, R134a, R404A, R407A, R407F, R448A, R449A, R450A, R452A, R507, R513A
Capacity control	None, Step (option), Inverter (option)

Performance

Nominal conditions: refrigerant: R404A, evaporation: -10°C (dew point), condensation: 45°C (dew point), superheating: 10K, subcooling: 0°C

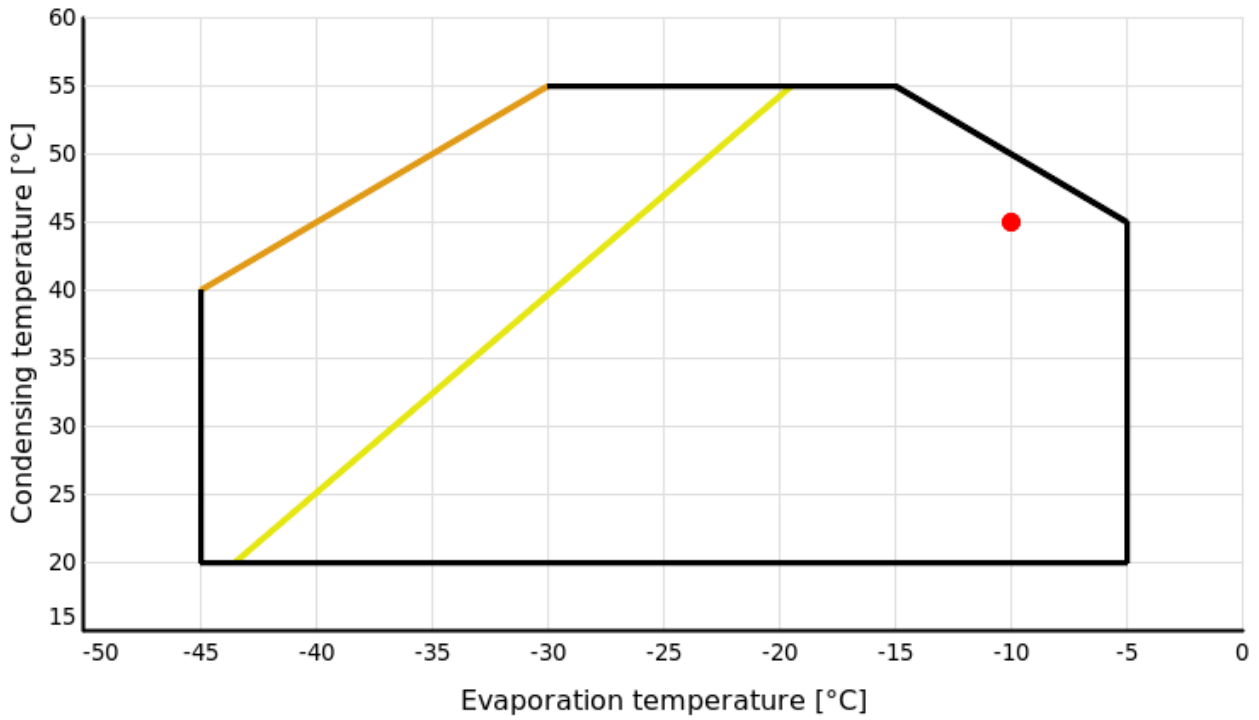
Cooling capacity

		Evaporation temperature [°C]								
		-45	-40	-35	-30	-25	-20	-15	-10	-5
Condensation temperature [°C]	55				19.84	26.95	35.23	45.08		
	50			17.00	23.87	31.68	40.81	51.70	64.78	
	45		13.71	20.40	27.82	36.33	46.33	58.25	72.55	89.69
	40	10.06	16.63	23.72	31.68	40.90	51.79	64.78	80.31	98.84
	35	12.64	19.46	26.94	35.46	45.41	57.21	71.28	88.07	108.03
	30	15.13	22.19	30.08	39.17	49.87	62.59	77.78	95.86	117.27
	25	17.50	24.82	33.12	42.80	54.28	67.96	84.29	103.68	126.58
	20	19.76	27.34	36.08	46.38	58.65	73.33	90.82	111.56	135.97




Power consumption

		Evaporation temperature [°C]								
		-45	-40	-35	-30	-25	-20	-15	-10	-5
Condensation temperature [°C]	55				23.06	27.37	31.77	36.14		
	50			19.04	22.87	26.87	30.91	34.89	38.67	
	45		15.58	18.89	22.45	26.14	29.83	33.40	36.73	39.71
	40	12.70	15.47	18.57	21.86	25.23	28.55	31.71	34.59	37.07
	35	12.65	15.25	18.11	21.13	24.18	27.14	29.88	32.30	34.27
	30	12.52	14.93	17.57	20.31	23.03	25.62	27.95	29.90	31.36
	25	12.36	14.58	16.98	19.44	21.84	24.05	25.96	27.44	28.39
	20	12.21	14.24	16.40	18.57	20.63	22.46	23.95	24.96	25.39

Application range

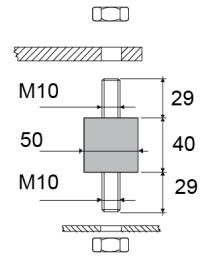
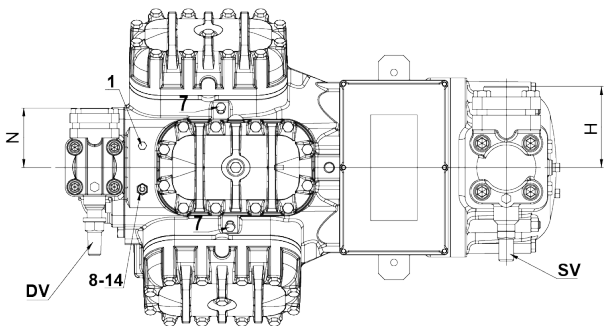
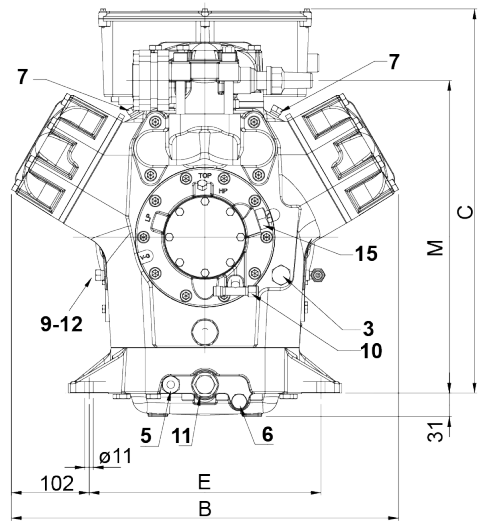
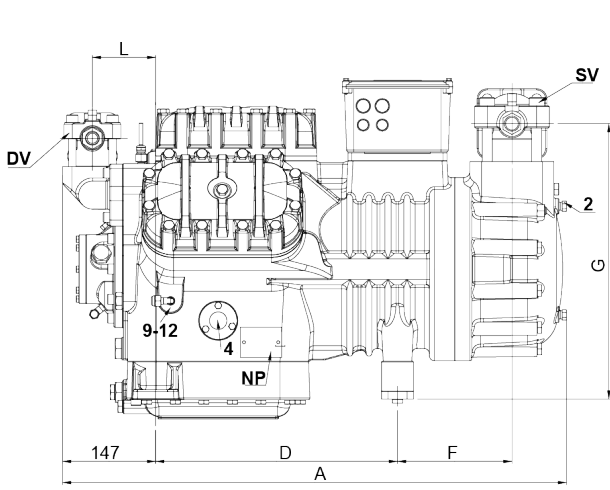


Legend

-  With additional header cooling
-  Without cooling
-  Current operating conditions

Reference conditions - suction gas temperature: 20°C, subcooling: 0 K.

Dimensions



Symbols

1	High pressure connection	1/8" NPT
2	Low pressure connection	1/4" NPT
3	Oil charge plug	3/8" GAS
4	Oil level sight glass	-
5	Crankcase heater seat	-
6	Oil drain plug	1/4" GAS
7	Liquid injection plug	1/4" NPT
8	Liquid injection sensor plug	1/8" NPT
9	Oil pressure switch connection (LP)	1/4" NPT
10	Oil pressure switch connection (HP)	1/4" SAE
11	Oil filter	3/8" GAS
12	Oil return plug	1/4" NPT
14	Max. discharge temperature sensor connection	1/8" NPT
15	Electronic oil pressure switch connection	-

DV	Discharge valve
SV	Suction valve
NP	Nameplate

Compressor dimensions

Dimension A	[mm]	794
Dimension B	[mm]	509
Dimension C	[mm]	536
Dimension D	[mm]	381
Dimension E	[mm]	305

Valves position

Dimension F	[mm]	180
Dimension G	[mm]	433
Dimension H	[mm]	130
Dimension L	[mm]	100
Dimension M	[mm]	411
Dimension N	[mm]	95