



Producer: **Frascold**

Line: **V**

Cooling capacity [kW]: **32.46**

Displacement [m<sup>3</sup>/h]: **70.8**

Refrigerant: **R22, R134a, R404A, R407A, R407C, R407F, R448A, R449A, R450A, R452A, R507, R513A**

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

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

## Data

### Technical data

Displacement	[m <sup>3</sup> /h]	70.8
Cylinders quantity		4
Oil charge	[l]	4.00
Oil type		POE68
Type of lubrication		Oil pump
Net weight	[kg]	184.00

### Electrical data

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	43.5
Locked rotor amperage	[A]	118.3
Locked rotor amperage, DOL	[A]	202.7
Maximum motor frequency	[Hz]	70
Minimum motor frequency	[Hz]	30
Nominal motor power for 50 Hz	[kW]	18.64
Nominal motor power for 50 Hz	[HP]	25.00
Motor connection		PWS

### Dimensions

Suction valve diameter (SV)	[inch]	2 1/8
Suction valve diameter (SV)	[mm]	54.0
Discharge valve diameter (DV)	[inch]	1 3/8
Discharge valve diameter (DV)	[mm]	35.0
Length	[mm]	703
Height	[mm]	463
Width	[mm]	460

### Other

Approved refrigerants	R22, R134a, R404A, R407A, R407C, 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: 0K

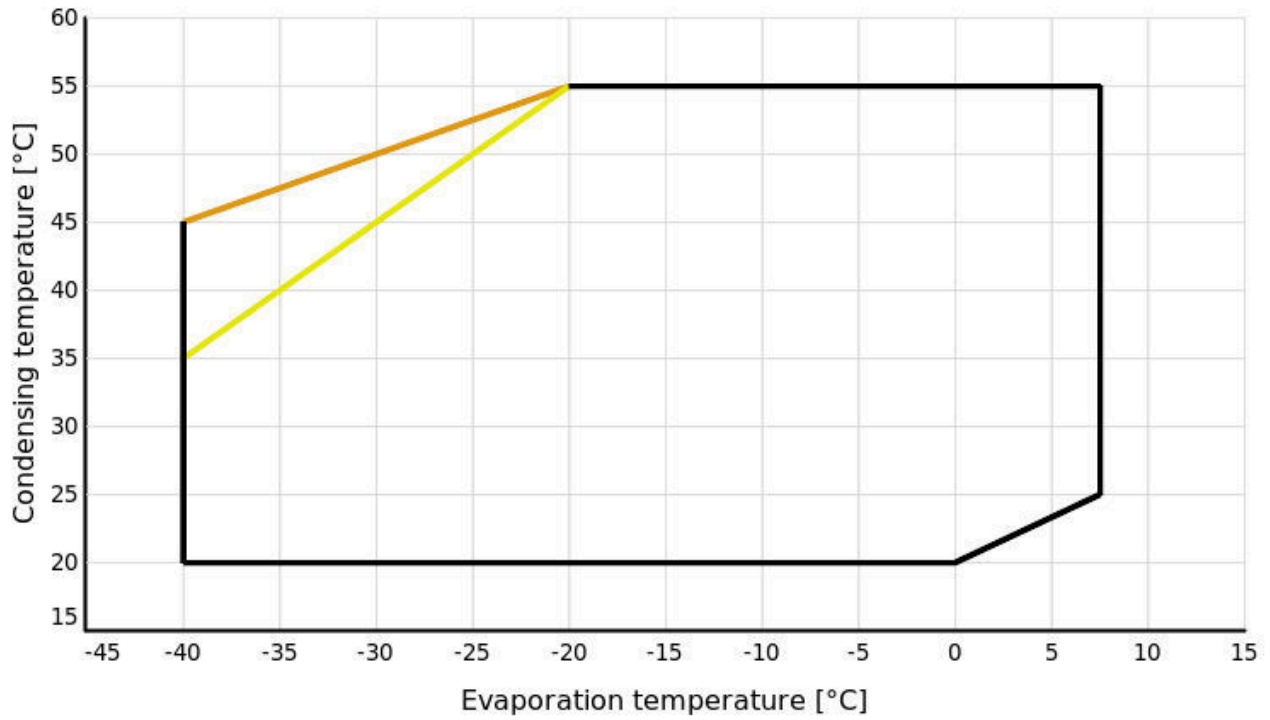
### Cooling capacity

		Evaporation temperature [°C]										
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	7.5
Condensation temperature [°C]	55					14.50	19.11	24.70	31.43	39.50	49.10	54.52
	50			9.24	12.78	17.09	22.29	28.56	36.06	44.95	55.43	61.31
	45	4.97	7.67	10.94	14.91	19.72	25.52	<b>32.46</b>	40.72	50.45	61.81	68.15
	40	6.14	9.09	12.69	17.08	22.39	28.79	36.42	45.43	56.00	68.24	75.04
	35	7.34	10.54	14.48	19.28	25.11	32.10	40.42	50.20	61.59	74.73	81.98
	30	8.59	12.03	16.30	21.53	27.87	35.47	44.47	55.01	67.24	81.26	88.98
	25	9.87	13.56	18.16	23.82	30.67	38.87	48.56	59.87	72.94	87.85	96.03
	20	11.17	15.11	20.05	26.14	33.52	42.32	52.70	64.79	78.69		



### Power consumption

		Evaporation temperature [°C]										
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	7.5
Condensation temperature [°C]	55					13.34	15.14	16.93	18.66	20.31	21.83	22.53
	50			9.83	11.48	13.17	14.85	16.50	18.07	19.53	20.85	21.45
	45	6.87	8.29	9.80	11.35	12.92	14.48	<b>15.97</b>	17.37	18.65	19.76	20.24
	40	6.92	8.28	9.70	11.15	12.60	14.02	15.35	16.58	17.65	18.55	18.92
	35	6.92	8.20	9.54	10.88	12.21	13.47	14.64	15.68	16.55	17.23	17.48
	30	6.87	8.08	9.31	10.54	11.73	12.84	13.83	14.68	15.34	15.78	15.91
	25	6.77	7.89	9.02	10.13	11.17	12.12	12.93	13.57	14.02	14.22	14.22
	20	6.62	7.65	8.67	9.64	10.53	11.30	11.93	12.36	12.58		

Application range

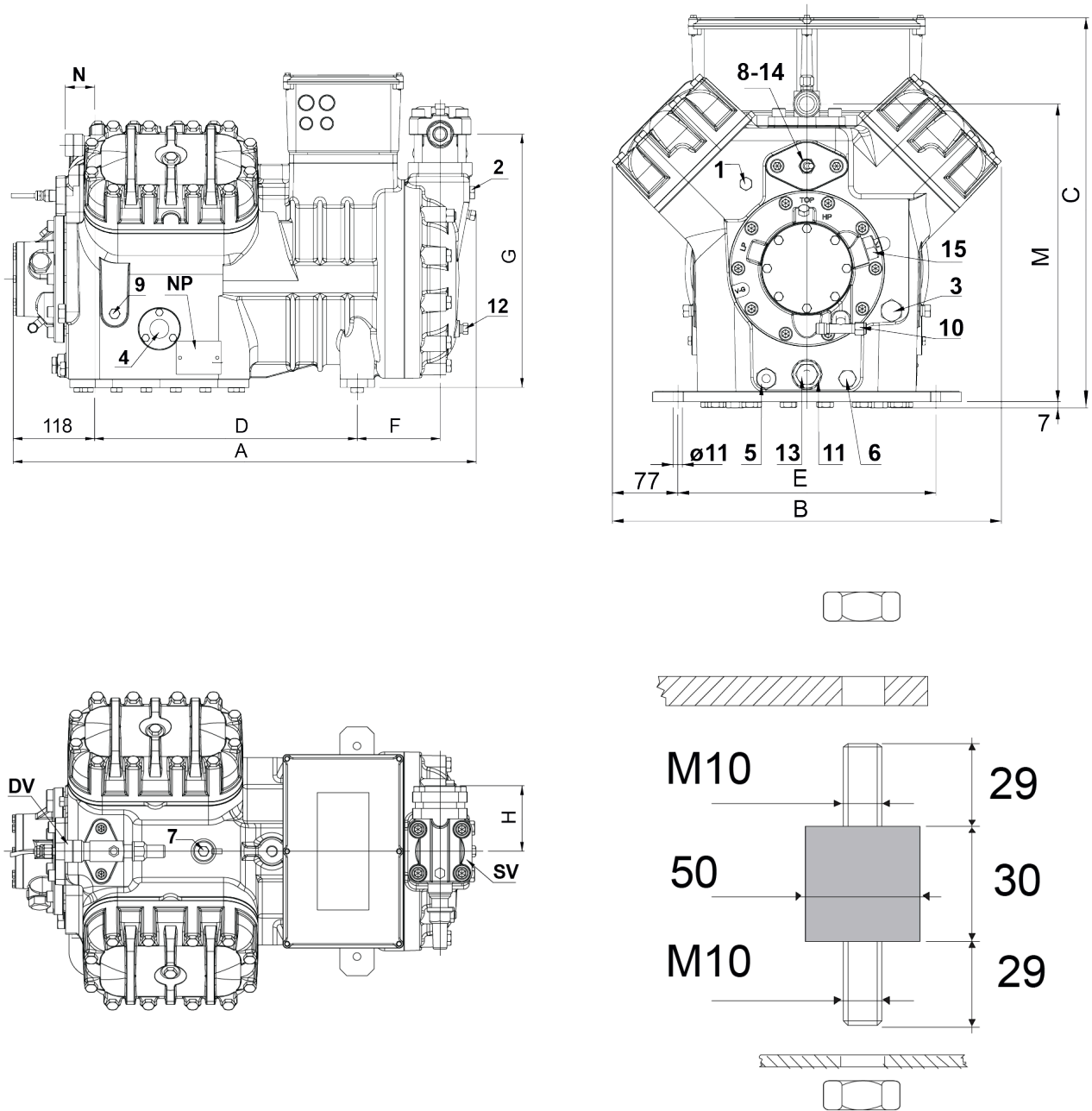


Legend

-  With additional header cooling
-  Without cooling

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

**Dimensions**



**Symbols**

1	High pressure connection	1/8" NPT
2	Low pressure connection	1/8" 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	3/4 UNF

DV	Discharge valve
SV	Suction valve
NP	Nameplate

**Compressor dimensions**

Dimension A	[mm]	703
Dimension B	[mm]	460
Dimension C	[mm]	463
Dimension D	[mm]	381
Dimension E	[mm]	305

**Valves position**

Dimension F	[mm]	133
Dimension G	[mm]	389
Dimension H	[mm]	130
Dimension L	[mm]	152
Dimension M	[mm]	352
Dimension N	[mm]	48