



Producer: **Frascold**

Line: **W**

Model: **W75-240Y**

Cooling capacity [kW]: **110.77**

Displacement [m<sup>3</sup>/h]: **239**

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 <sup>3</sup> /h]	239
Cylinders quantity		8
Oil charge	[l]	7.70
Oil type		POE68
Type of lubrication		Oil pump
Net weight	[kg]	328.00

### Electrical data

Power supply		400V/3Ph/50Hz
Maximum operating current	[A]	115.3
Locked rotor amperage	[A]	417.0
Locked rotor amperage, DOL	[A]	584.0
Maximum motor frequency	[Hz]	70
Minimum motor frequency	[Hz]	30
Nominal motor power for 50 Hz	[kW]	55.93
Nominal motor power for 50 Hz	[HP]	75.00
Motor connection		PWS

### Dimensions

Suction valve diameter (SV)	[inch]	3 1/8
Suction valve diameter (SV)	[mm]	80.0
Discharge valve diameter (DV)	[inch]	2 1/8
Discharge valve diameter (DV)	[mm]	54.0
Length	[mm]	864
Height	[mm]	588
Width	[mm]	519

### 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 (dew point): -10 °C, condensation (dew point): 45 °C, superheating: 10 K, subcooling: 0 °C

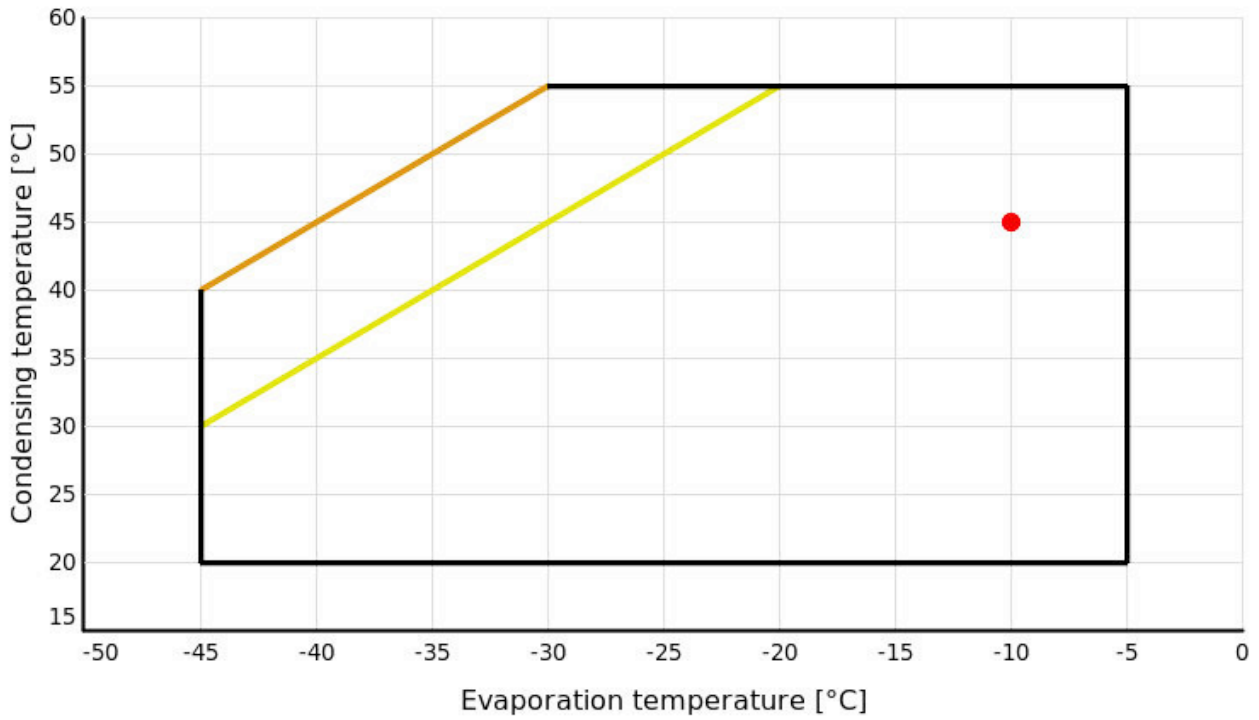
### Cooling capacity [kW]

		Evaporation temperature [°C]								
		-45	-40	-35	-30	-25	-20	-15	-10	-5
Condensation temperature [°C]	55				28.04	38.13	50.86	66.69	86.11	109.64
	50			24.04	33.16	44.72	59.14	76.86	98.37	124.14
	45		19.97	28.09	38.46	51.48	67.58	87.19	110.77	138.78
	40	16.10	23.17	32.32	43.94	58.43	76.21	97.70	123.35	153.58
	35	18.67	26.56	36.76	49.63	65.59	85.05	108.42	136.13	168.58
	30	21.45	30.16	41.40	55.53	72.97	94.10	119.35	149.11	183.78
	25	24.43	33.98	46.26	61.66	80.57	103.38	130.50	162.32	199.20
	20	27.63	38.02	51.35	68.02	88.40	112.90	141.89	175.75	214.84

### Power consumption [kW]

		Evaporation temperature [°C]								
		-45	-40	-35	-30	-25	-20	-15	-10	-5
Condensation temperature [°C]	55				31.89	37.59	43.60	49.80	56.07	62.28
	50			26.58	31.65	37.07	42.70	48.43	54.14	59.70
	45		22.06	26.53	31.38	36.47	41.69	46.92	52.02	56.90
	40	18.25	22.15	26.45	31.03	35.76	40.53	45.21	49.69	53.83
	35	18.43	22.21	26.30	30.57	34.91	39.19	43.29	47.09	50.47
	30	18.56	22.19	26.02	29.95	33.86	37.61	41.10	44.19	46.77
	25	18.62	22.05	25.60	29.15	32.58	35.77	38.60	40.95	42.70
	20	18.56	21.75	24.98	28.11	31.04	33.63	35.77	37.33	38.20

**Application range**

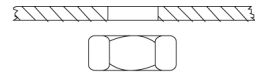
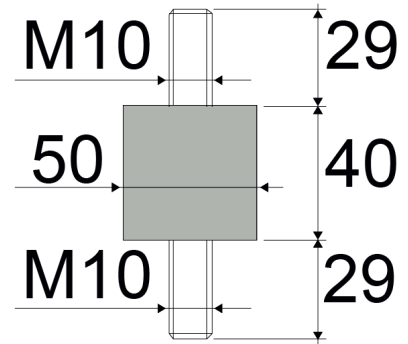
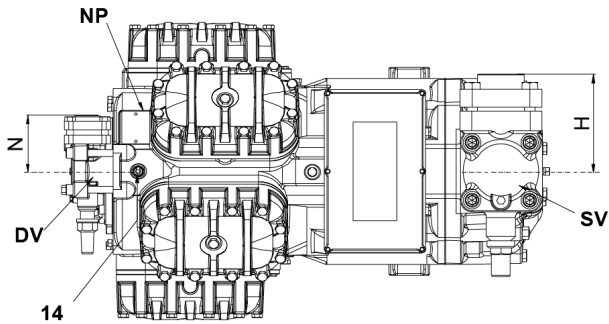
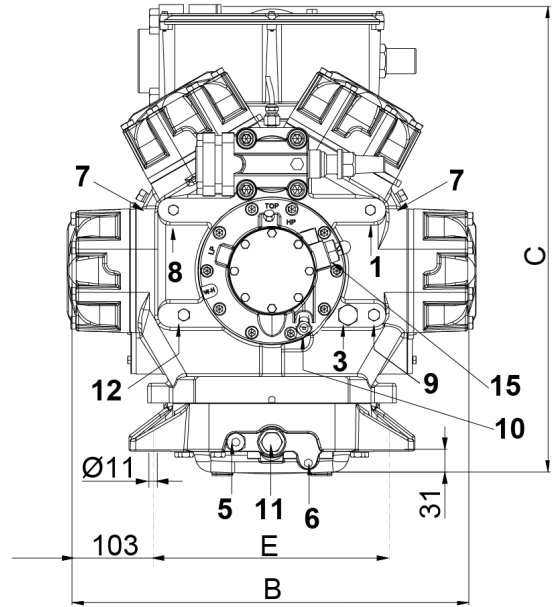
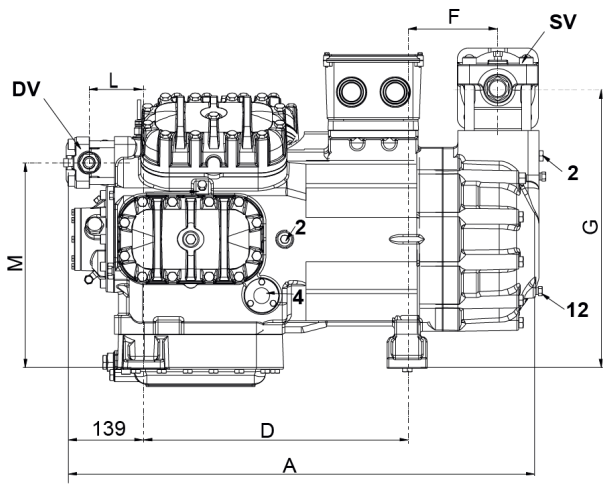


**Legend**

- 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]	864
Dimension B	[mm]	519
Dimension C	[mm]	588
Dimension D	[mm]	458
Dimension E	[mm]	305

## Valves position

Dimension F	[mm]	190
Dimension G	[mm]	486
Dimension H	[mm]	160
Dimension L	[mm]	95
Dimension M	[mm]	358
Dimension N	[mm]	162