



Producer: **Frascold**

Line: **W**

Model: **W60-187Y**

Cooling capacity [kW]: **86.90**

Displacement [m³/h]: **186.1**

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 ³ /h]	186.1
Cylinders quantity		8
Oil charge	[l]	7.70
Oil type		POE68
Type of lubrication		Oil pump
Net weight	[kg]	315.00

Electrical data

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	103.5
Locked rotor amperage	[A]	326.0
Locked rotor amperage, DOL	[A]	455.0
Maximum motor frequency	[Hz]	70
Minimum motor frequency	[Hz]	30
Nominal motor power for 50 Hz	[kW]	44.74
Nominal motor power for 50 Hz	[HP]	60.00
Motor connection		PWS

Dimensions

Suction valve diameter (SV)	[inch]	3 1/8
Suction valve diameter (SV)	[mm]	80.0
Discharge valve diameter (DV)	[inch]	1 5/8
Discharge valve diameter (DV)	[mm]	42.0
Length	[mm]	838
Height	[mm]	588
Width	[mm]	511

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: 0°C

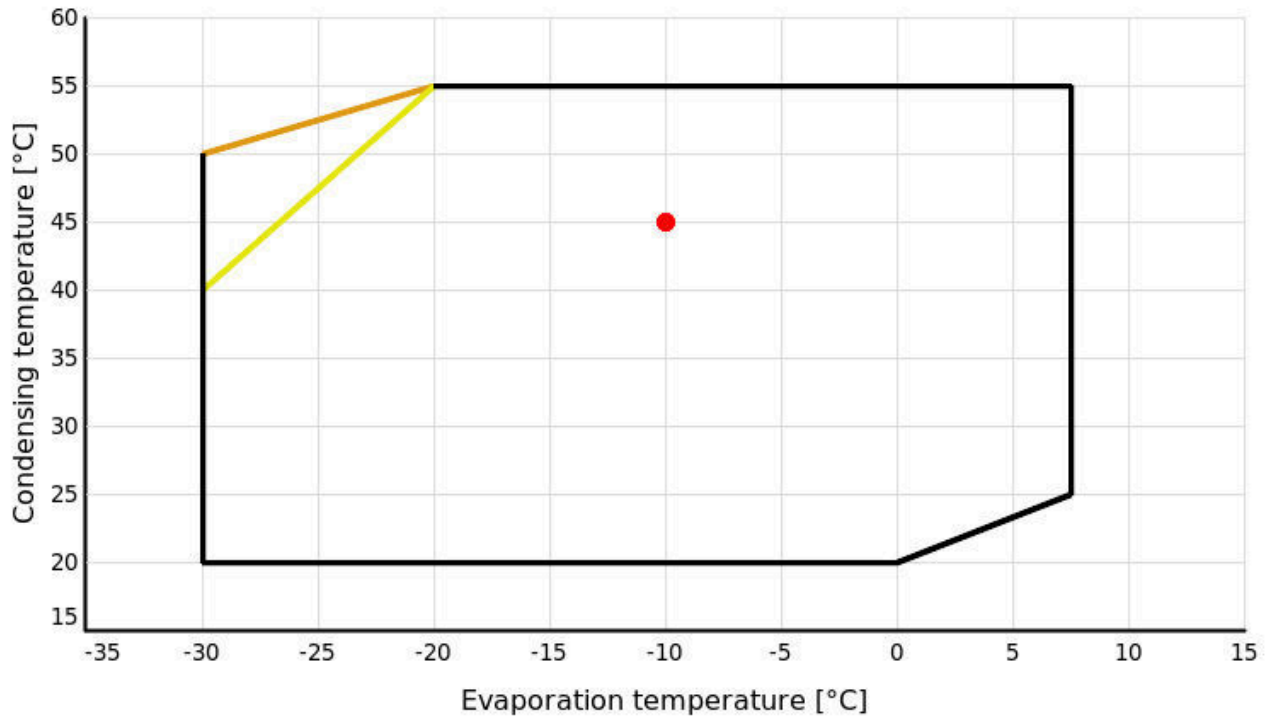
Cooling capacity

		Evaporation temperature [°C]								
		-30	-25	-20	-15	-10	-5	0	5	7.5
Condensation temperature [°C]	55			39.76	51.73	66.23	83.75	104.80	129.90	144.14
	50	25.95	35.28	46.55	60.18	76.60	96.30	119.74	147.43	163.02
	45	30.30	40.72	53.34	68.59	86.90	108.73	134.54	164.77	181.69
	40	34.70	46.18	60.13	76.96	97.12	121.04	149.17	181.92	200.14
	35	39.16	51.66	66.89	85.28	107.25	133.24	163.65	198.87	218.37
	30	43.66	57.14	73.63	93.54	117.29	145.30	177.96	215.60	236.37
	25	48.18	62.62	80.32	101.72	127.22	157.22	192.09	232.12	254.13
	20	52.72	68.08	86.97	109.83	137.04	168.99	206.03		

Power consumption

		Evaporation temperature [°C]								
		-30	-25	-20	-15	-10	-5	0	5	7.5
Condensation temperature [°C]	55			33.54	38.32	43.17	47.99	52.66	57.07	59.14
	50	24.75	28.84	33.16	37.59	42.03	46.36	50.46	54.23	55.95
	45	24.66	28.53	32.56	36.63	40.62	44.43	47.93	51.02	52.38
	40	24.44	28.06	31.76	35.43	38.95	42.20	45.07	47.46	48.43
	35	24.08	27.42	30.76	34.00	37.00	39.67	41.88	43.53	44.10
	30	23.58	26.61	29.57	32.34	34.80	36.85	38.37	39.24	39.40
	25	22.96	25.64	28.18	30.45	32.34	33.74	34.53	34.60	34.33
	20	22.21	24.51	26.60	28.34	29.62	30.34	30.37		

Application range

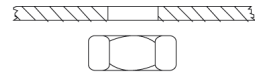
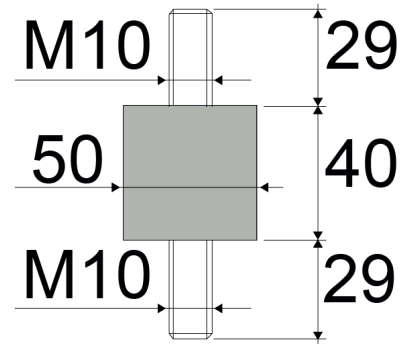
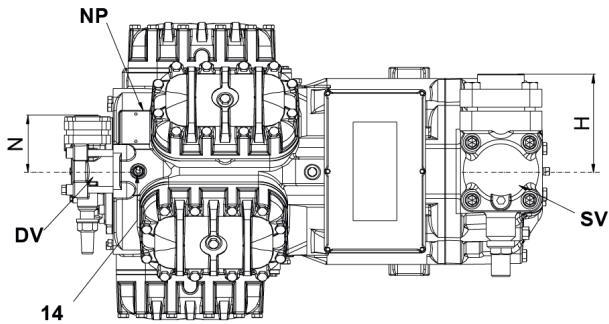
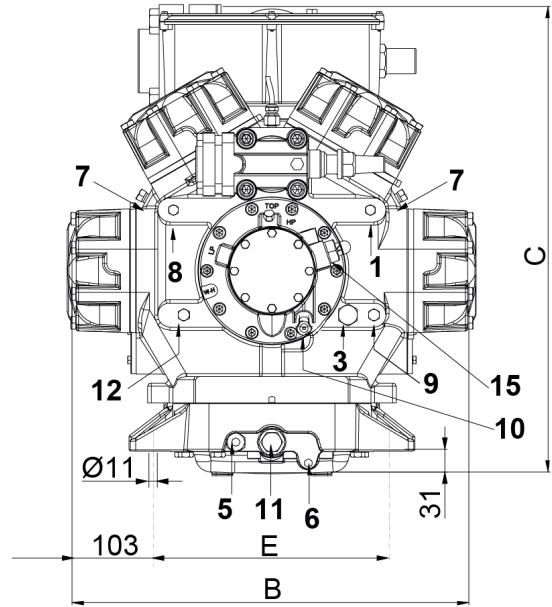
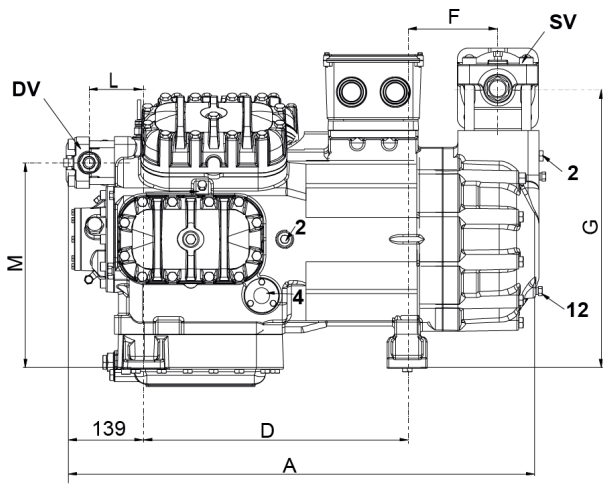


Legend

- 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	1/8" 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]	838
Dimension B	[mm]	511
Dimension C	[mm]	588
Dimension D	[mm]	458
Dimension E	[mm]	305

Valves position

Dimension F	[mm]	158
Dimension G	[mm]	486
Dimension H	[mm]	160
Dimension L	[mm]	95
Dimension M	[mm]	358
Dimension N	[mm]	95