

Model: S15-56Y

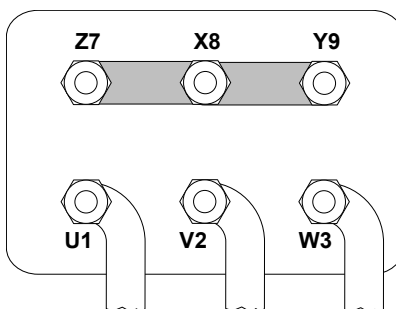
Refrigerant: R404A

Power supply: 400/3/50 DOL-STAR

Technical data:

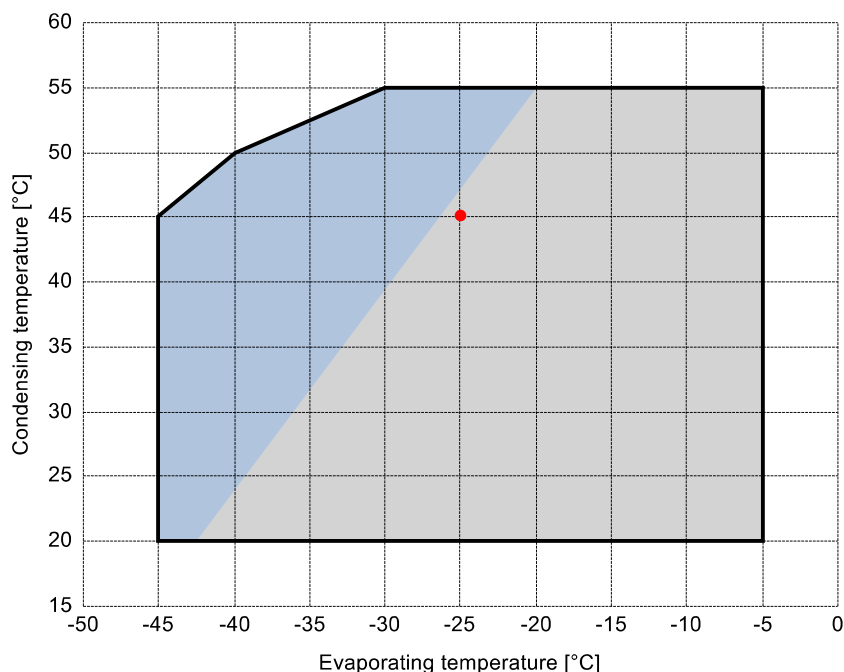
Displacement	56 m³/h
Nominal compressor speed	1450 rpm
Motor voltage	400 V
Nominal operating frequency	50 Hz
maximum allowed operating current (MRA)	31 A
locked rotor current (LRA)	118 A
Number of pistons	4
Net weight	130 kg
Lubricant	FRASCOLD POE32
Oil charge	2.9 l

Motor connections:



Application range:

Additional cooling required



Reference conditions according to EN12900

- Suction gas temperature = 20 °C
- Liquid subcooling = 0 K
- 100% of the capacity

Certified by:

- Frascold tentative data

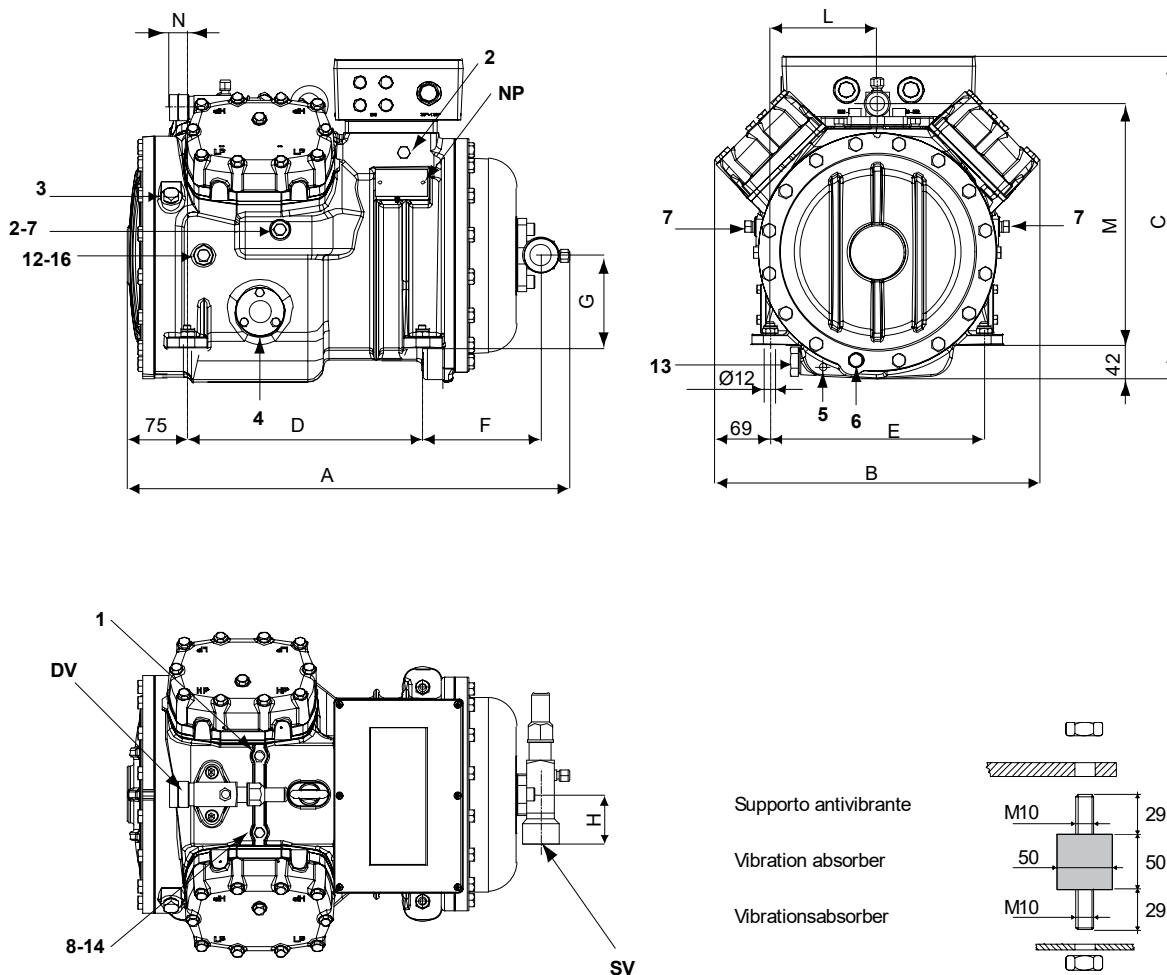
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Dimensions:



Legend:

SV: Suction Valve	1 5/8" in - 42 mm	1: High pressure connection	1/8" NPT
DV: Discharge valve	1 1/8" in - 28.575 mm	2: Low pressure connection	1/8" NPT
A: Length	550 mm	3: Oil charge plug	1/4" GAS
B: Width	405 mm	4: Oil level sight glass	-
C: Height	405 mm	5: Crankcase heater seat	-
D: Base mounting	292 mm	6: Oil drain plug	M10 x 30
E: Base mounting	266 mm	7: Liquid injection plug	1/4" NPT
F: Suction Valve	147 mm	8: Liquid injection sensor plug	1/8" NPT
G: Suction Valve	115 mm	12: Oil return plug	1/4" NPT
H: Suction Valve	61 mm	13: Magnetic plug	1/2" GAS
L: Discharge valve	133 mm	14: Max discharge temperature sensor connection	1/8" NPT
M: Discharge valve	298 mm	16: Crankcase pressure plug	1/4" NPT
N: Discharge valve	23 mm	NP: Nameplate	

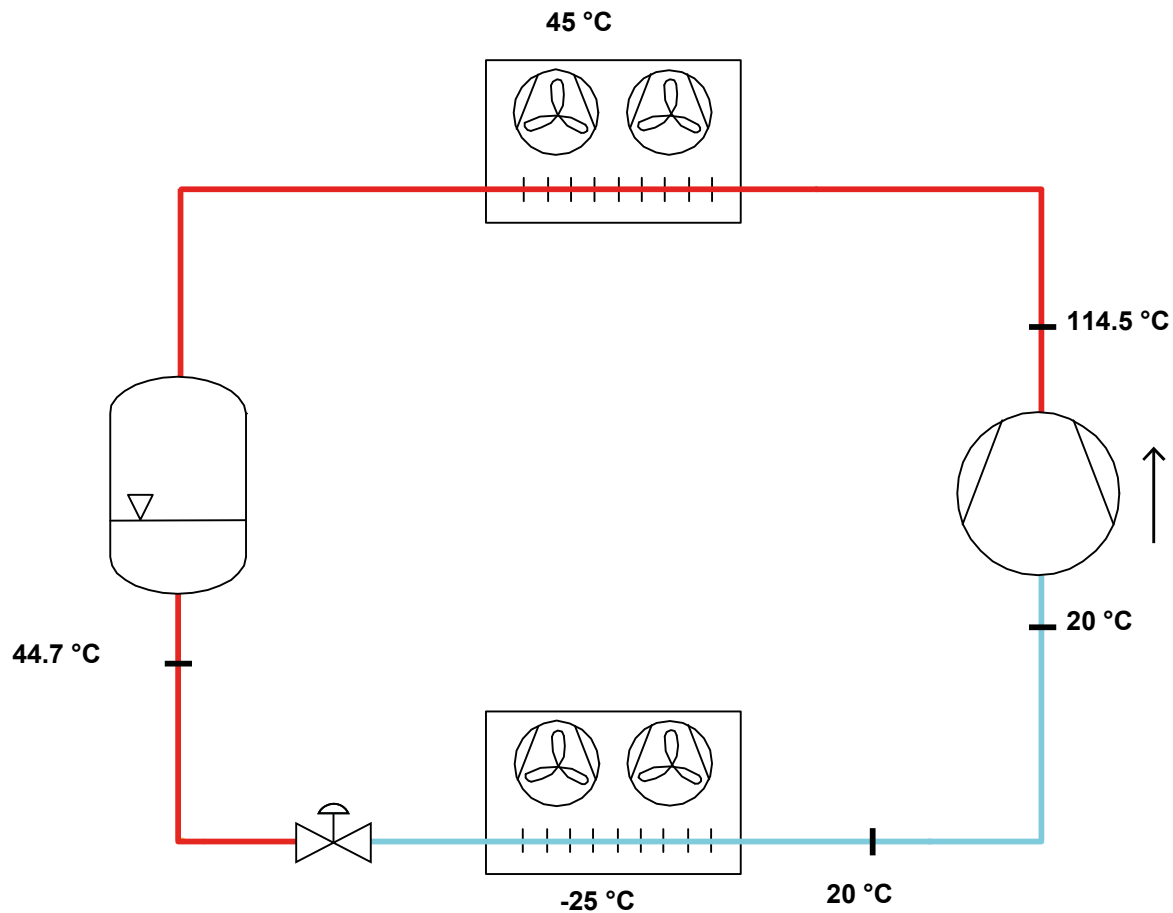
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P&I Diagram:



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Performance data:

Operating mode	Subcritical, 100 % of the capacity
Liquid subcooling	0 K
Suction gas temperature	20 °C
Useful fraction of superheating	100 %
Frequency	50 Hz
Additional cooling required	

Refrigerating capacity [kW]

T.Evap	-45 °C	-40 °C	-35 °C	-30 °C	-25 °C	-20 °C	-15 °C	-10 °C	-5 °C
T.Cond									
55 °C	-	-	-	8.993	11.867	15.151	18.981	23.491	28.816
50 °C	-	5.061	7.635	10.412	13.527	17.114	21.309	26.245	32.058
45 °C	3.546	6.11	8.803	11.762	15.121	19.014	23.577	28.943	35.248
40 °C	4.472	7.097	9.914	13.059	16.665	20.867	25.801	31.601	38.401
35 °C	5.349	8.039	10.983	14.316	18.173	22.688	27.996	34.232	41.531
30 °C	6.192	8.95	12.024	15.549	19.66	24.491	30.178	36.854	44.655
25 °C	7.017	9.846	13.054	16.774	21.142	26.293	32.361	39.48	47.786
20 °C	7.837	10.741	14.086	18.005	22.634	28.107	34.56	42.126	50.941

Power input [W]

T.Evap	-45 °C	-40 °C	-35 °C	-30 °C	-25 °C	-20 °C	-15 °C	-10 °C	-5 °C
T.Cond									
55 °C	-	-	-	8211	9707	11252	12803	14319	15757
50 °C	-	5625	6831	8154	9550	10978	12396	13761	15031
45 °C	4655	5653	6792	8030	9324	10634	11915	13126	14225
40 °C	4685	5631	6700	7851	9042	10230	11372	12428	13354
35 °C	4680	5571	6568	7630	8714	9778	10780	11677	12427
30 °C	4651	5485	6408	7378	8353	9291	10148	10884	11456
25 °C	4611	5385	6231	7107	7970	8779	9491	10063	10455
20 °C	4571	5282	6049	6828	7578	8255	8818	9225	9433

COP/EER [W/W]

T.Evap	-45 °C	-40 °C	-35 °C	-30 °C	-25 °C	-20 °C	-15 °C	-10 °C	-5 °C
T.Cond									
55 °C	-	-	-	1.1	1.22	1.35	1.48	1.64	1.83
50 °C	-	0.9	1.12	1.28	1.42	1.56	1.72	1.91	2.13
45 °C	0.76	1.08	1.3	1.46	1.62	1.79	1.98	2.2	2.48
40 °C	0.95	1.26	1.48	1.66	1.84	2.04	2.27	2.54	2.88
35 °C	1.14	1.44	1.67	1.88	2.09	2.32	2.6	2.93	3.34
30 °C	1.33	1.63	1.88	2.11	2.35	2.64	2.97	3.39	3.9
25 °C	1.52	1.83	2.1	2.36	2.65	2.99	3.41	3.92	4.57
20 °C	1.71	2.03	2.33	2.64	2.99	3.4	3.92	4.57	5.4

Current [A]

T.Evap	-45 °C	-40 °C	-35 °C	-30 °C	-25 °C	-20 °C	-15 °C	-10 °C	-5 °C
T.Cond									
55 °C	-	-	-	19.65	21.32	23.23	25.3	27.45	29.58
50 °C	-	17.25	18.28	19.59	21.14	22.88	24.74	26.65	28.49
45 °C	16.55	17.27	18.25	19.46	20.88	22.45	24.1	25.75	27.31
40 °C	16.57	17.26	18.16	19.27	20.55	21.95	23.39	24.79	26.07
35 °C	16.56	17.21	18.04	19.05	20.19	21.4	22.63	23.78	24.79
30 °C	16.55	17.14	17.9	18.8	19.8	20.84	21.85	22.76	23.49
25 °C	16.52	17.07	17.75	18.54	19.4	20.26	21.07	21.75	22.22
20 °C	16.49	16.99	17.6	18.28	19	19.69	20.3	20.76	21

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Performance data:

Operating mode	Subcritical, 100 % of the capacity
Liquid subcooling	0 K
Suction gas temperature	20 °C
Useful fraction of superheating	100 %
Frequency	50 Hz
Additional cooling required	

Mass flow [kg/h]	T.Evap	-45 °C	-40 °C	-35 °C	-30 °C	-25 °C	-20 °C	-15 °C	-10 °C	-5 °C
T.Cond										
55 °C	-	-	-	307	407	524	664	831	1034	
50 °C	-	157	238	326	426	543	682	850	1051	
45 °C	102	176	254	342	442	560	700	868	1069	
40 °C	120	191	268	355	455	574	716	885	1087	
35 °C	135	204	280	366	468	587	730	901	1105	
30 °C	148	215	290	377	479	600	744	917	1122	
25 °C	160	225	299	386	489	612	758	932	1139	
20 °C	171	234	308	396	499	624	772	948	1156	