

Model: S15-52Y

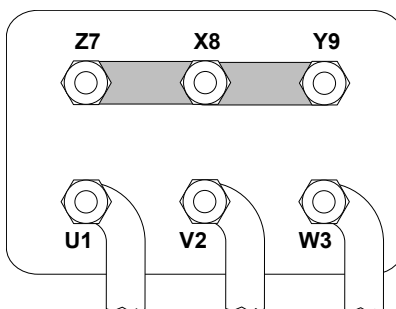
Refrigerant: R404A

Power supply: 400/3/50 DOL-STAR

Technical data:

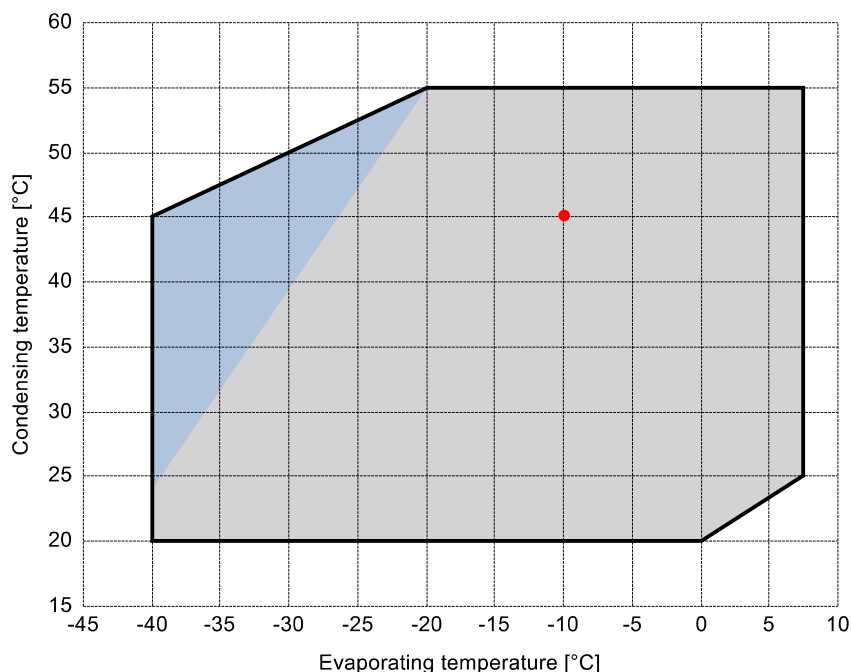
Displacement	51.5 m³/h
Nominal compressor speed	1450 rpm
Motor voltage	400 V
Nominal operating frequency	50 Hz
maximum allowed operating current (MRA)	31 A
locked rotor current (LRA)	118 A
Number of pistons	4
Net weight	126 kg
Lubricant	FRASCOLD POE32
Oil charge	2.9 l

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

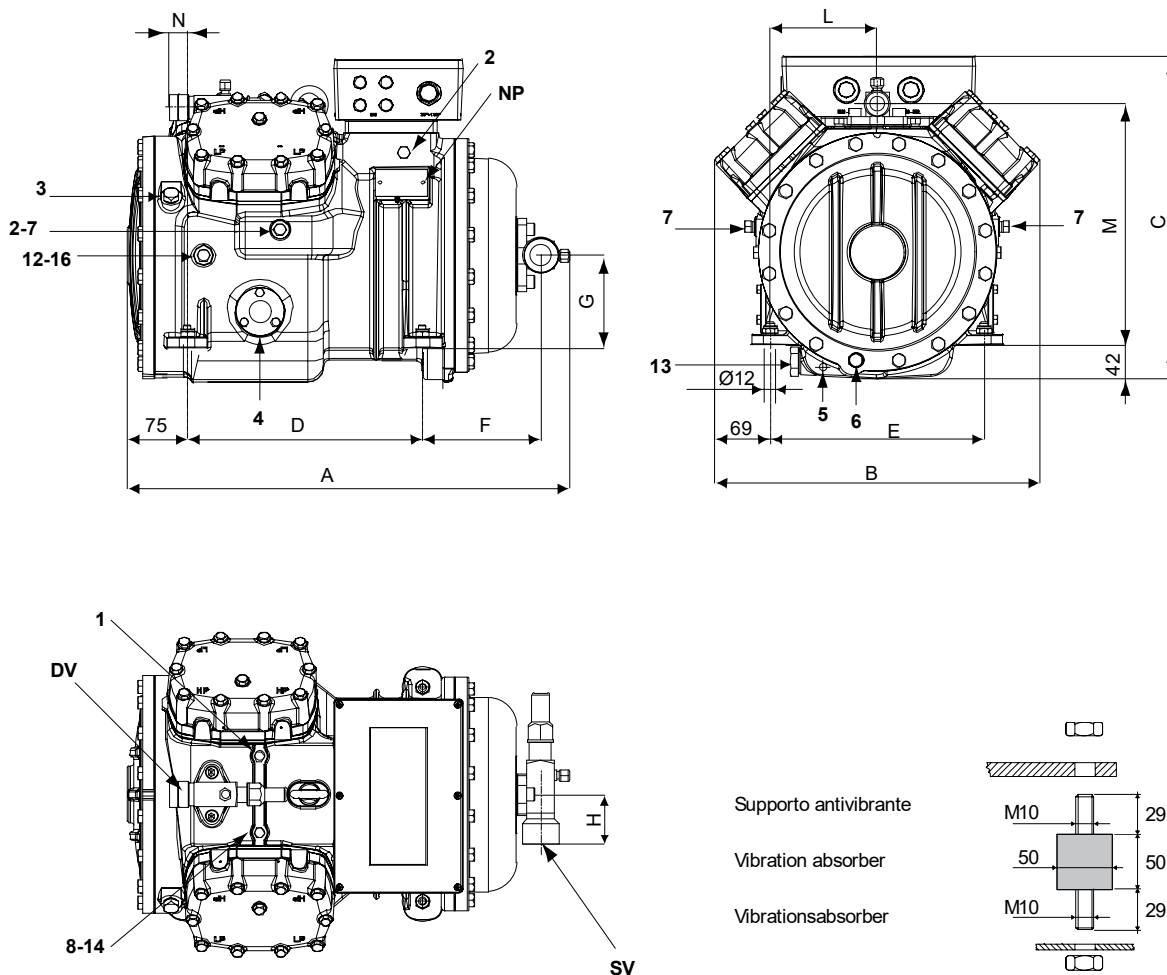
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Power supply: 400/3/50 DOL-STAR

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	

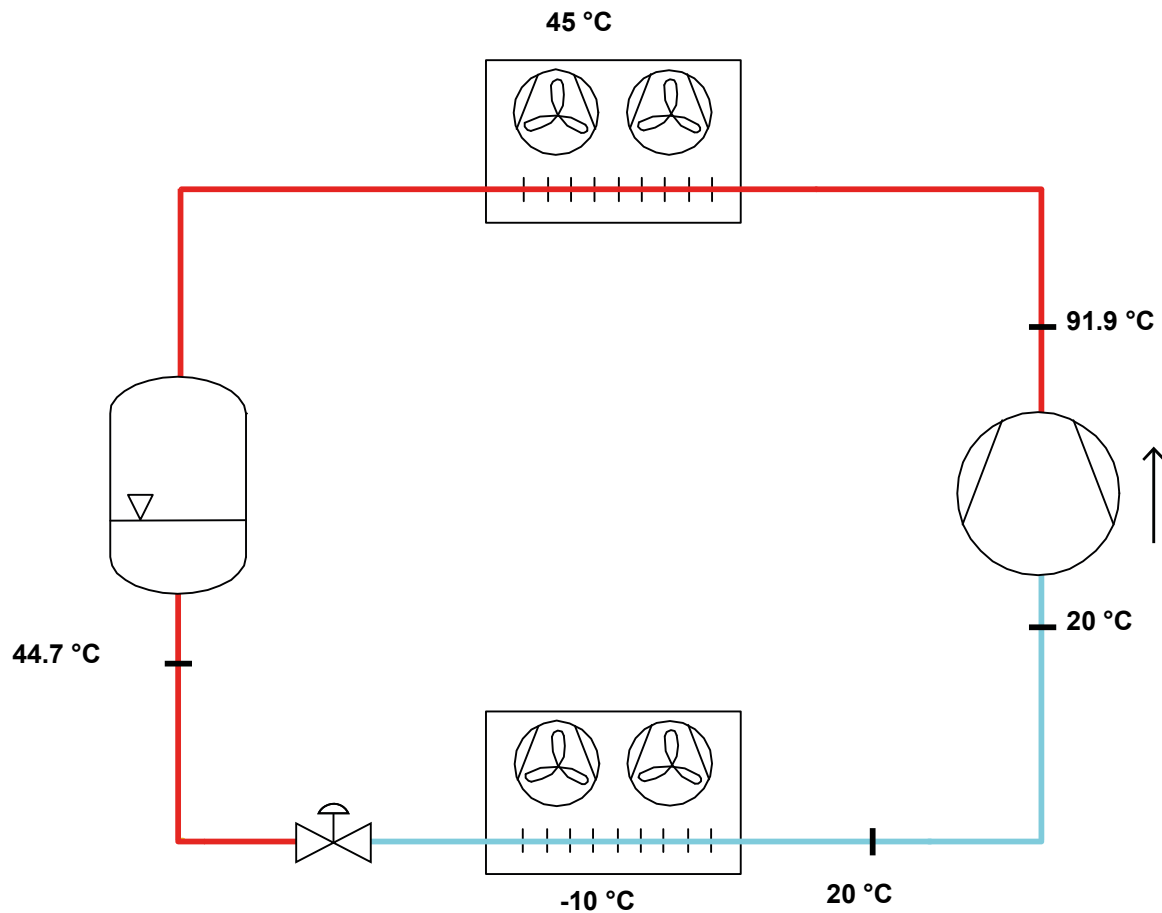
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P&I Diagram:



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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	-40 °C	-35 °C	-30 °C	-25 °C	-20 °C	-15 °C	-10 °C	-5 °C	0 °C	5 °C	7.5 °C
T.Cond											
55 °C	-	-	-	-	14.018	17.551	21.54	26.112	31.396	37.519	-
50 °C	-	-	9.121	12.301	15.764	19.638	24.05	29.128	35.001	41.797	45.58
45 °C	4.285	7.292	10.409	13.764	17.485	21.698	26.534	32.118	38.58	46.047	50.198
40 °C	5.446	8.462	11.671	15.2	19.177	23.731	28.99	35.08	42.13	50.269	54.786
35 °C	6.578	9.603	12.902	16.606	20.84	25.734	31.415	38.01	45.649	54.459	59.343
30 °C	7.679	10.711	14.102	17.979	22.47	27.703	33.806	40.907	49.134	58.615	63.866
25 °C	8.745	11.785	15.267	19.317	24.064	29.637	36.162	43.768	52.583	62.734	68.351
20 °C	9.775	12.823	16.394	20.618	25.621	31.533	38.48	46.591	55.993	-	-

Power input [W]

T.Evap	-40 °C	-35 °C	-30 °C	-25 °C	-20 °C	-15 °C	-10 °C	-5 °C	0 °C	5 °C	7.5 °C
T.Cond											
55 °C	-	-	-	-	10138	11462	12791	14087	15313	16433	-
50 °C	-	-	7572	8710	9904	11119	12317	13460	14514	15439	15842
45 °C	5540	6423	7417	8483	9585	10685	11748	12735	13610	14336	14632
40 °C	5415	6266	7204	8194	9199	10181	11104	11930	12624	13147	13333
35 °C	5263	6075	6955	7865	8768	9627	10406	11067	11574	11889	11964
30 °C	5102	5872	6688	7514	8311	9043	9674	10166	10482	10585	10546
25 °C	4953	5677	6426	7162	7849	8450	8928	9246	9368	9255	9099
20 °C	4837	5510	6187	6830	7403	7868	8189	8329	8251	-	-

COP/EER [W/W]

T.Evap	-40 °C	-35 °C	-30 °C	-25 °C	-20 °C	-15 °C	-10 °C	-5 °C	0 °C	5 °C	7.5 °C
T.Cond											
55 °C	-	-	-	-	1.38	1.53	1.68	1.85	2.05	2.28	-
50 °C	-	-	1.2	1.41	1.59	1.77	1.95	2.16	2.41	2.71	2.88
45 °C	0.77	1.14	1.4	1.62	1.82	2.03	2.26	2.52	2.83	3.21	3.43
40 °C	1.01	1.35	1.62	1.85	2.08	2.33	2.61	2.94	3.34	3.82	4.11
35 °C	1.25	1.58	1.86	2.11	2.38	2.67	3.02	3.43	3.94	4.58	4.96
30 °C	1.51	1.82	2.11	2.39	2.7	3.06	3.49	4.02	4.69	5.54	6.06
25 °C	1.77	2.08	2.38	2.7	3.07	3.51	4.05	4.73	5.61	6.78	7.51
20 °C	2.02	2.33	2.65	3.02	3.46	4.01	4.7	5.59	6.79	-	-

Current [A]

T.Evap	-40 °C	-35 °C	-30 °C	-25 °C	-20 °C	-15 °C	-10 °C	-5 °C	0 °C	5 °C	7.5 °C
T.Cond											
55 °C	-	-	-	-	21.84	23.5	25.28	27.11	28.91	30.61	-
50 °C	-	-	18.99	20.18	21.56	23.06	24.64	26.22	27.73	29.1	29.71
45 °C	17.19	17.92	18.84	19.94	21.18	22.51	23.88	25.21	26.43	27.47	27.91
40 °C	17.09	17.78	18.63	19.63	20.73	21.89	23.04	24.12	25.05	25.78	26.04
35 °C	16.98	17.62	18.4	19.29	20.25	21.23	22.16	22.99	23.65	24.06	24.16
30 °C	16.86	17.45	18.15	18.93	19.75	20.56	21.28	21.87	22.26	22.39	22.34
25 °C	16.75	17.29	17.92	18.59	19.27	19.9	20.43	20.79	20.92	20.8	20.62
20 °C	16.67	17.16	17.71	18.28	18.82	19.29	19.62	19.77	19.69	-	-

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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	-40 °C	-35 °C	-30 °C	-25 °C	-20 °C	-15 °C	-10 °C	-5 °C	0 °C	5 °C	7.5 °C
T.Cond												
55 °C	-	-	-	-	485	614	762	937	1146	1397	-	-
50 °C	-	-	285	387	500	629	779	955	1166	1418	1563	-
45 °C	123	211	302	402	515	644	795	974	1187	1441	1587	-
40 °C	147	229	317	415	528	658	812	993	1209	1465	1612	-
35 °C	167	245	330	427	540	671	827	1011	1229	1489	1636	-
30 °C	185	258	342	438	550	683	841	1028	1249	1511	1660	-
25 °C	200	270	352	447	560	694	854	1043	1267	1532	1682	-
20 °C	213	281	360	455	568	704	866	1058	1285	-	-	-