

Model: D2-13.1Y

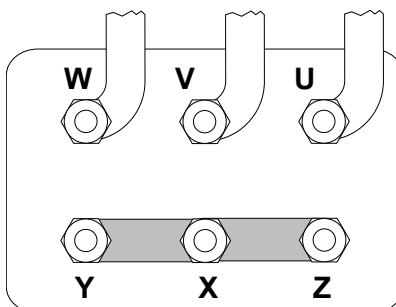
Refrigerant: R404A

Power supply: 400/3/50 DOL-STAR

Technical data:

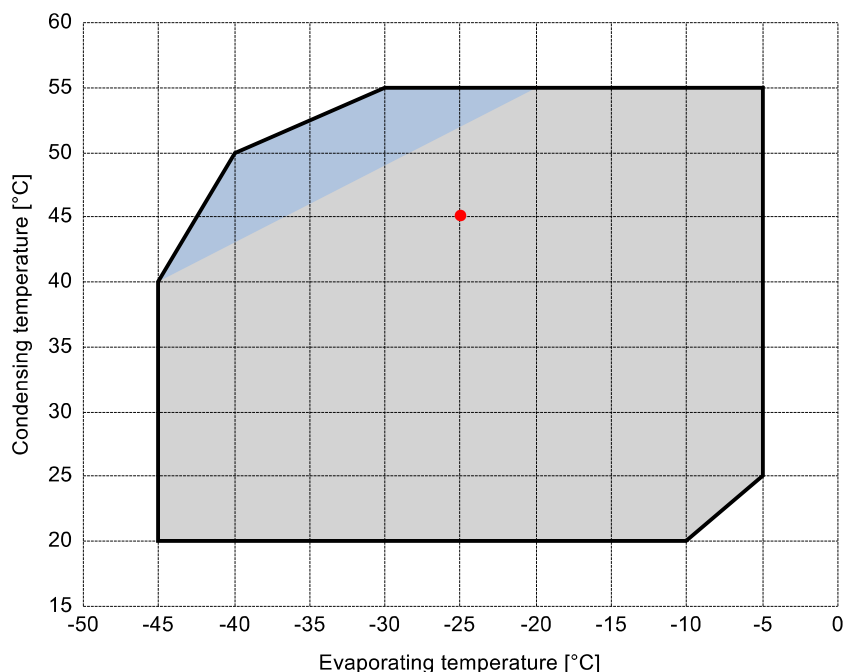
Displacement	13.15 m³/h
Nominal compressor speed	1450 rpm
Motor voltage	400 V
Nominal operating frequency	50 Hz
maximum allowed operating current (MRA)	7.1 A
locked rotor current (LRA)	35.9 A
Number of pistons	2
Net weight	45 kg
Lubricant	FRASCOLD POE32
Oil charge	1.1 l

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:

- ASERCOM (ref. EN12900, 50 Hz, 100% cap.)

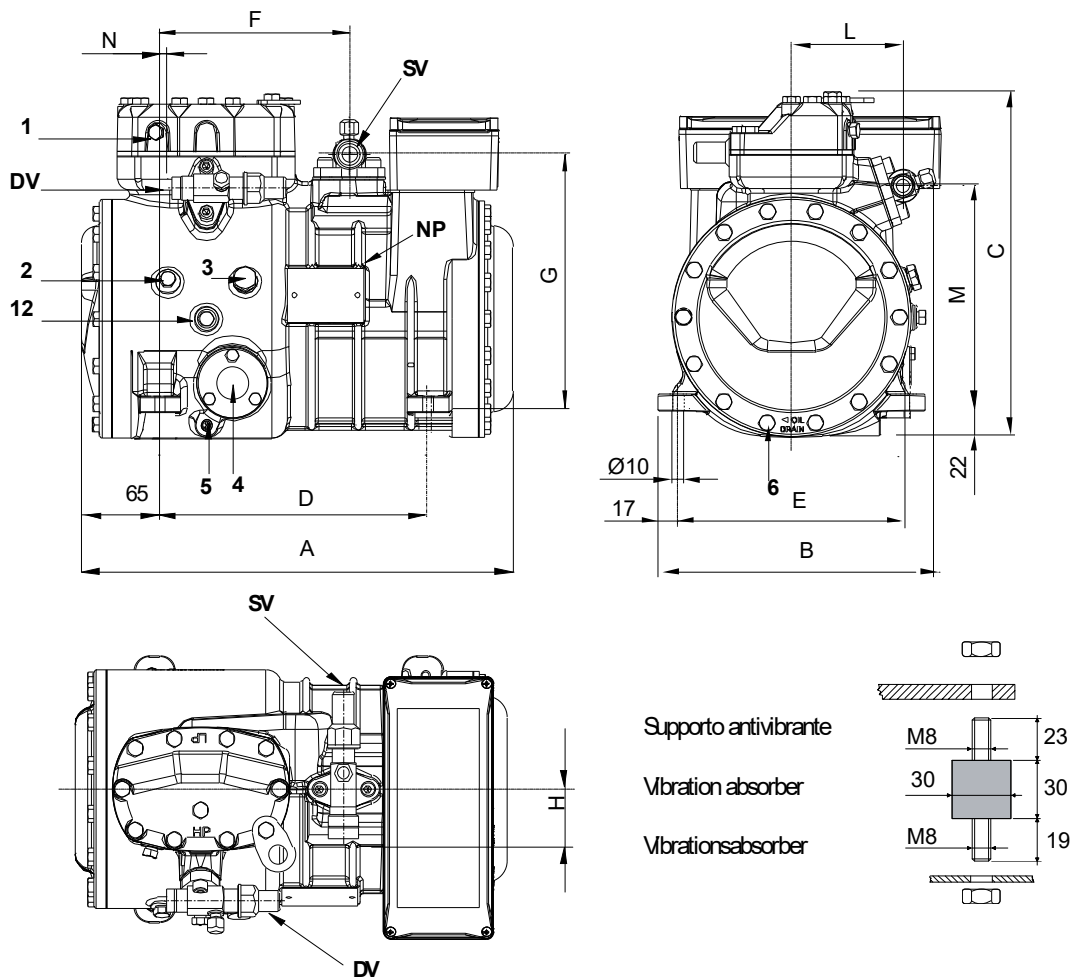
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Dimensions:



Legend:

SV: Suction Valve	7/8" in - 22.225 mm	M: Discharge valve	192 mm
DV: Discharge valve	5/8" in - 16 mm	N: Discharge valve	13 mm
A: Length	369 mm	1: High pressure connection	1/8" NPT
B: Width	242 mm	2: Low pressure connection	1/8" NPT
C: Height	294 mm	3: Oil charge plug	1/4" GAS
D: Base mounting	234 mm	4: Oil level sight glass	-
E: Base mounting	194 mm	5: Crankcase heater seat	-
F: Suction Valve	165 mm	6: Oil drain plug	M8 x 22
G: Suction Valve	221 mm	12: Oil return plug	1/8" NPT
H: Suction Valve	42 mm	NP: Nameplate	
L: Discharge valve	94 mm		

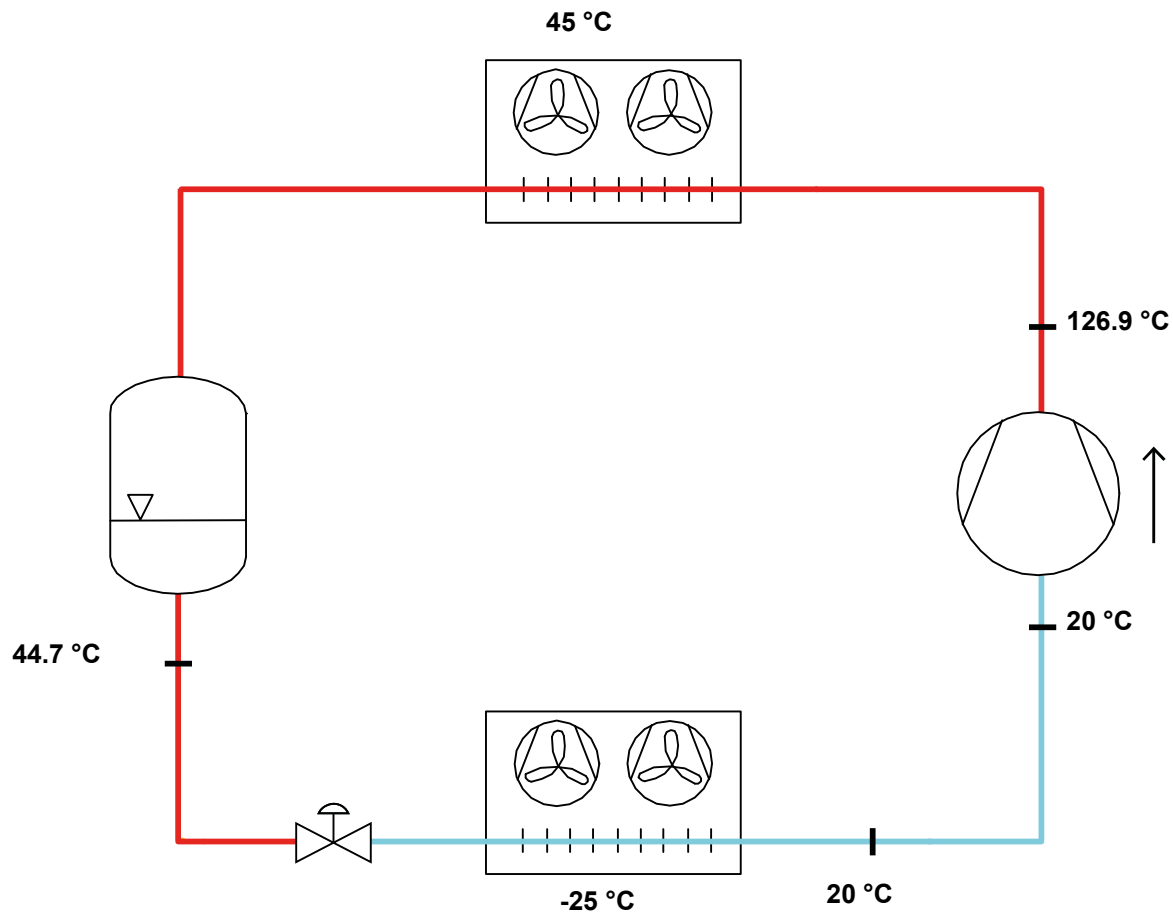
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P&I Diagram:



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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	-	-	-	2.078	2.688	3.422	4.294	5.321	6.52
50 °C	-	1.288	1.753	2.32	3.005	3.824	4.795	5.933	7.255
45 °C	-	1.427	1.942	2.571	3.331	4.237	5.307	6.556	8.002
40 °C	1.118	1.574	2.141	2.833	3.668	4.661	5.831	7.192	8.762
35 °C	1.236	1.732	2.35	3.106	4.016	5.098	6.368	7.842	9.537
30 °C	1.366	1.901	2.571	3.391	4.378	5.548	6.919	8.506	10.326
25 °C	1.507	2.082	2.805	3.689	4.753	6.013	7.485	9.186	11.132
20 °C	1.661	2.277	3.052	4.003	5.144	6.494	8.068	9.883	-

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	-	-	-	2358	2689	3026	3362	3689	3999
50 °C	-	1665	1945	2245	2555	2867	3175	3469	3743
45 °C	-	1596	1864	2147	2437	2725	3004	3266	3503
40 °C	1304	1541	1797	2064	2333	2597	2848	3078	3279
35 °C	1269	1498	1742	1992	2241	2481	2704	2902	3067
30 °C	1244	1465	1696	1931	2160	2375	2570	2737	2866
25 °C	1226	1439	1659	1877	2086	2278	2446	2580	2673
20 °C	1214	1419	1627	1829	2019	2187	2327	2430	-

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	-	-	-	0.88	1	1.13	1.28	1.44	1.63
50 °C	-	0.77	0.9	1.03	1.18	1.33	1.51	1.71	1.94
45 °C	-	0.89	1.04	1.2	1.37	1.55	1.77	2.01	2.28
40 °C	0.86	1.02	1.19	1.37	1.57	1.8	2.05	2.34	2.67
35 °C	0.97	1.16	1.35	1.56	1.79	2.05	2.36	2.7	3.11
30 °C	1.1	1.3	1.52	1.76	2.03	2.34	2.69	3.11	3.6
25 °C	1.23	1.45	1.69	1.97	2.28	2.64	3.06	3.56	4.16
20 °C	1.37	1.6	1.88	2.19	2.55	2.97	3.47	4.07	-

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	-	-	-	5.06	5.44	5.83	6.24	6.66	7.07
50 °C	-	4.33	4.62	4.94	5.28	5.64	6.01	6.38	6.73
45 °C	-	4.27	4.54	4.83	5.15	5.48	5.8	6.12	6.42
40 °C	4	4.21	4.47	4.75	5.04	5.33	5.62	5.89	6.14
35 °C	3.97	4.17	4.41	4.67	4.94	5.2	5.45	5.68	5.88
30 °C	3.95	4.14	4.37	4.61	4.85	5.08	5.3	5.49	5.64
25 °C	3.94	4.12	4.33	4.55	4.77	4.98	5.16	5.31	5.42
20 °C	3.93	4.1	4.3	4.5	4.7	4.88	5.03	5.14	-

All data subject to change without notice

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Power supply: 400/3/50 DOL-STAR

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	-	-	-	71	92	118	150	188	234	
50 °C	-	40	55	73	95	121	154	192	238	
45 °C	-	41	56	75	97	125	157	197	243	
40 °C	30	42	58	77	100	128	162	201	248	
35 °C	31	44	60	79	103	132	166	206	254	
30 °C	33	46	62	82	107	136	171	212	259	
25 °C	34	48	64	85	110	140	175	217	265	
20 °C	36	50	67	88	114	144	180	222	-	