

## Model: D2-11.1Y

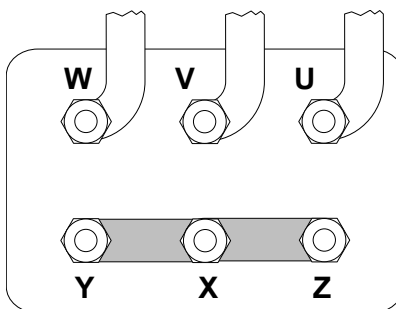
Refrigerant: R404A

Power supply: 400/3/50 DOL-STAR

### Technical data:

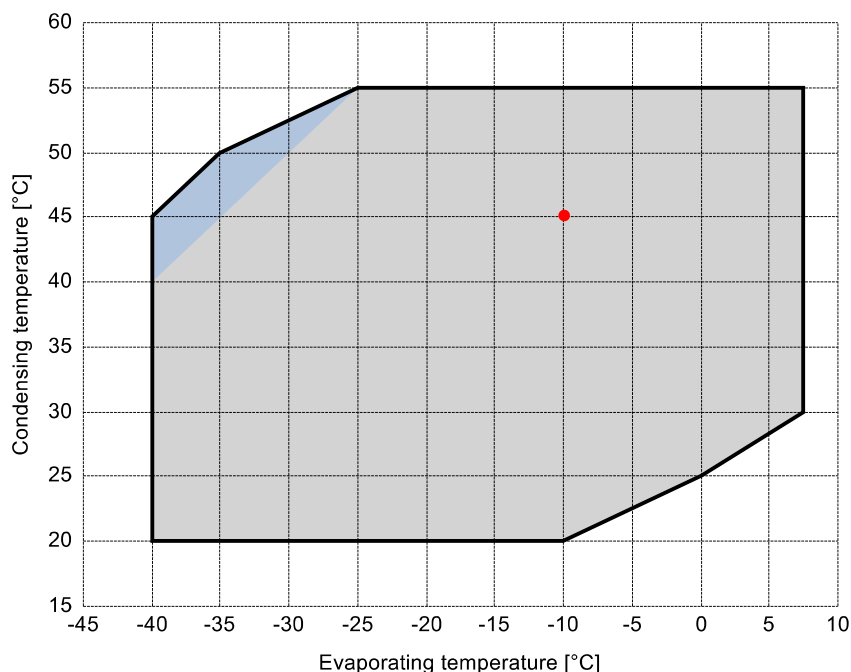
Displacement	11.26 m³/h
Nominal compressor speed	1450 rpm
Motor voltage	400 V
Nominal operating frequency	50 Hz
maximum allowed operating current (MRA)	7.1 A
locked rotor current (LRA)	35.9 A
Number of pistons	2
Net weight	45 kg
Lubricant	FRASCOLD POE32
Oil charge	1.1 l

### 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.)

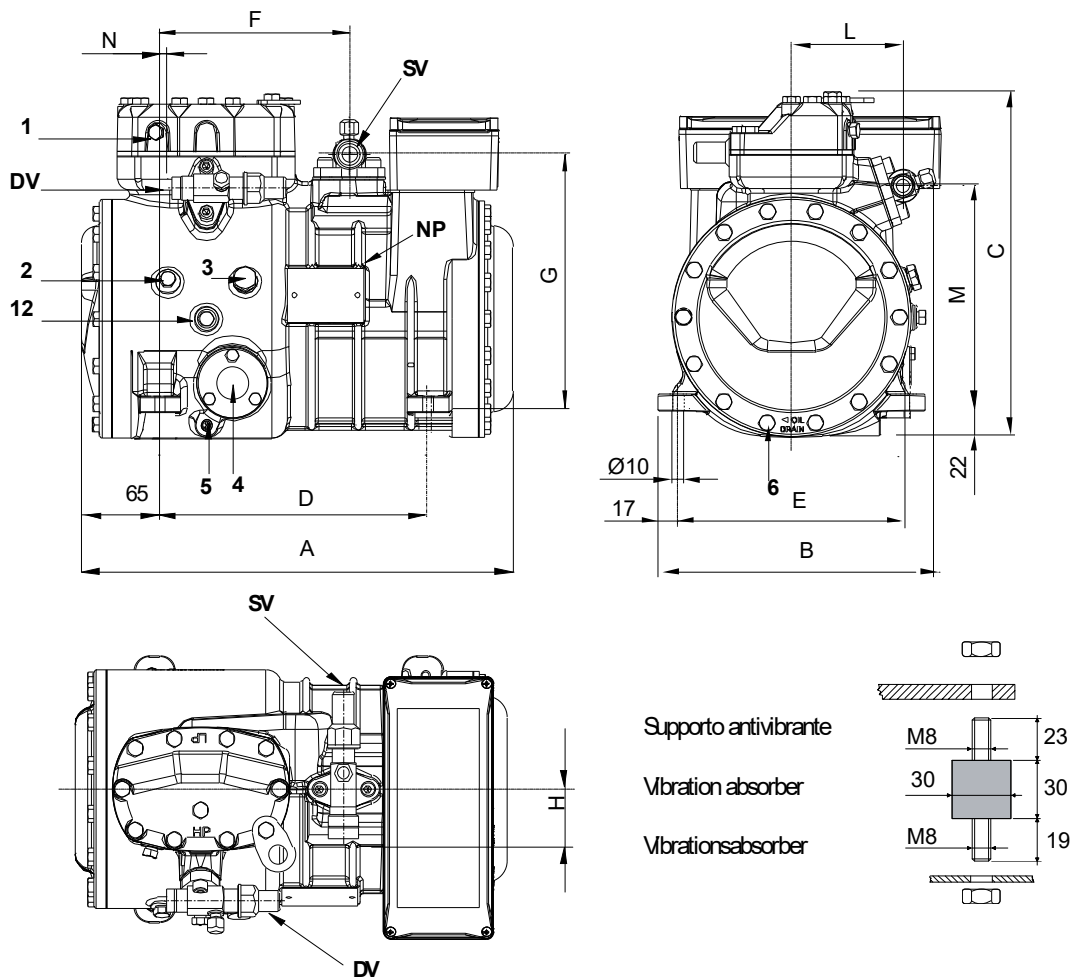
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## Dimensions:



## 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		

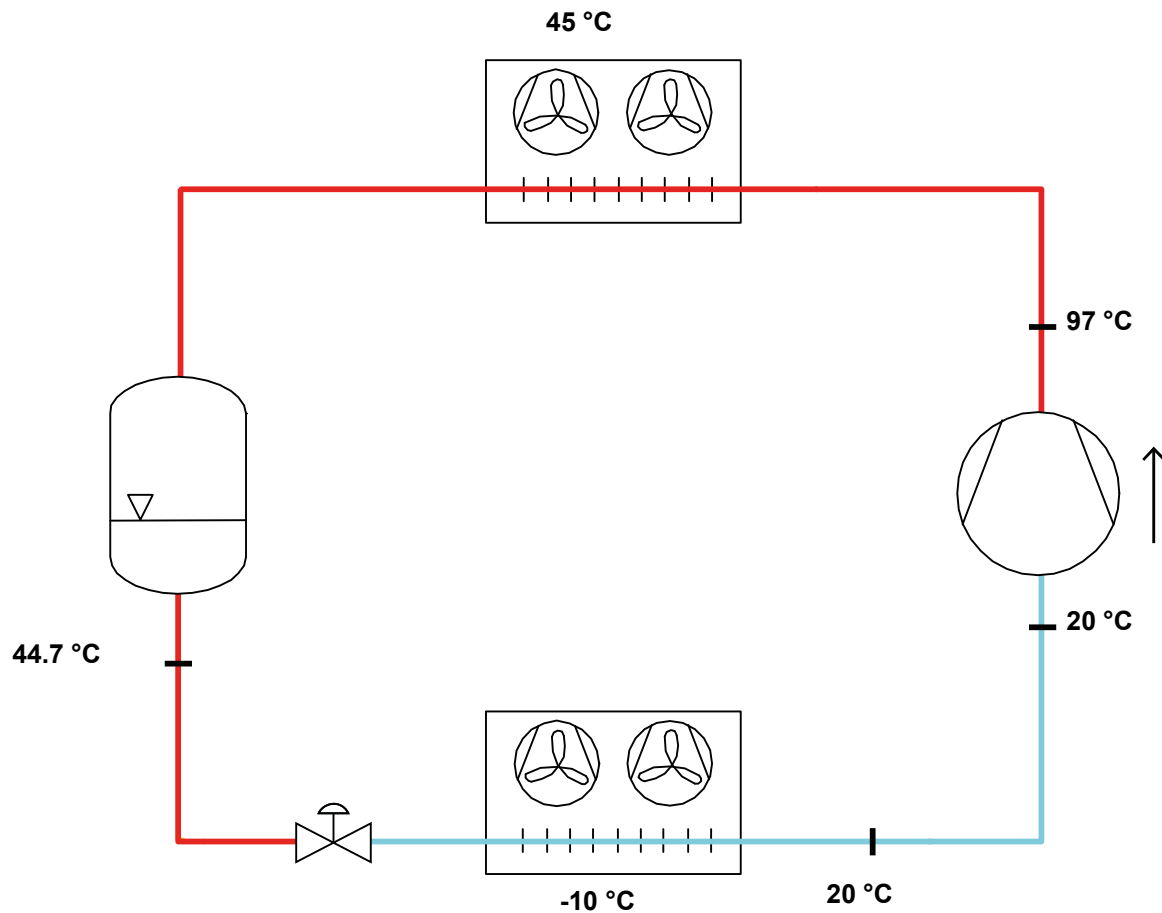
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## P&I Diagram:



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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	-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	-	-	-	2.06	2.692	3.43	4.293	5.302	6.474	7.829	8.582
50 °C	-	1.257	1.779	2.386	3.094	3.924	4.896	6.027	7.337	8.845	9.68
45 °C	0.983	1.473	2.041	2.709	3.494	4.416	5.494	6.748	8.196	9.857	10.774
40 °C	1.166	1.686	2.301	3.029	3.891	4.904	6.089	7.465	9.05	10.864	11.863
35 °C	1.347	1.897	2.557	3.346	4.283	5.388	6.68	8.177	9.9	11.866	12.947
30 °C	1.525	2.104	2.809	3.659	4.672	5.868	7.265	8.884	10.744	12.862	14.025
25 °C	1.699	2.308	3.058	3.967	5.056	6.342	7.846	9.586	11.581	-	-
20 °C	1.869	2.507	3.302	4.271	5.434	6.811	8.42	-	-	-	-

## 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	-	-	-	2069	2346	2629	2913	3188	3446	3679	3783
50 °C	-	1551	1781	2031	2291	2554	2812	3056	3279	3472	3555
45 °C	1328	1528	1750	1987	2230	2470	2700	2913	3098	3249	3309
40 °C	1307	1502	1715	1937	2160	2376	2577	2755	2902	3009	3045
35 °C	1285	1474	1674	1880	2082	2272	2442	2584	2690	2751	2763
30 °C	1261	1441	1628	1815	1994	2156	2293	2398	2461	2475	2461
25 °C	1234	1403	1575	1742	1896	2028	2131	2196	2215	-	-
20 °C	1203	1360	1515	1660	1787	1888	1954	-	-	-	-

## 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	1.15	1.3	1.47	1.66	1.88	2.13	2.27
50 °C	-	0.81	1	1.17	1.35	1.54	1.74	1.97	2.24	2.55	2.72
45 °C	0.74	0.96	1.17	1.36	1.57	1.79	2.03	2.32	2.65	3.03	3.26
40 °C	0.89	1.12	1.34	1.56	1.8	2.06	2.36	2.71	3.12	3.61	3.9
35 °C	1.05	1.29	1.53	1.78	2.06	2.37	2.74	3.16	3.68	4.31	4.69
30 °C	1.21	1.46	1.73	2.02	2.34	2.72	3.17	3.71	4.37	5.2	5.7
25 °C	1.38	1.65	1.94	2.28	2.67	3.13	3.68	4.37	5.23	-	-
20 °C	1.55	1.84	2.18	2.57	3.04	3.61	4.31	-	-	-	-

## 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	-	-	-	4.75	5.05	5.37	5.69	6.02	6.35	6.64	6.78
50 °C	-	4.22	4.45	4.71	4.99	5.28	5.58	5.87	6.14	6.38	6.48
45 °C	4.02	4.2	4.42	4.66	4.92	5.19	5.45	5.69	5.92	6.1	6.17
40 °C	4	4.18	4.38	4.61	4.85	5.08	5.31	5.51	5.68	5.81	5.85
35 °C	3.98	4.15	4.34	4.55	4.76	4.97	5.16	5.32	5.44	5.51	5.52
30 °C	3.96	4.12	4.3	4.49	4.67	4.84	4.99	5.11	5.18	5.19	5.18
25 °C	3.94	4.09	4.25	4.41	4.57	4.71	4.82	4.89	4.91	-	-
20 °C	3.92	4.05	4.19	4.33	4.46	4.56	4.63	-	-	-	-

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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	-	-	-	71	93	120	152	190	236	292	323	
50 °C	-	39	56	75	98	126	158	198	244	300	332	
45 °C	28	43	59	79	103	131	165	205	252	309	341	
40 °C	31	46	63	83	107	136	170	211	260	317	349	
35 °C	34	48	65	86	111	141	176	217	267	324	357	
30 °C	37	51	68	89	114	145	181	223	273	332	364	
25 °C	39	53	70	92	118	149	185	228	279	-	-	
20 °C	41	55	73	94	121	152	189	-	-	-	-	