

## Model: D2-15.1Y

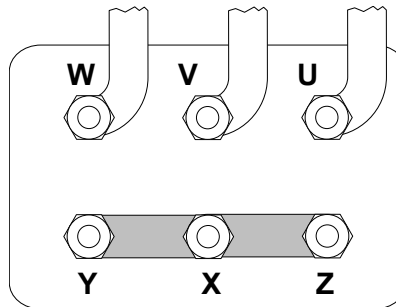
Refrigerant: R404A

Power supply: 400/3/50 DOL-STAR

### Technical data:

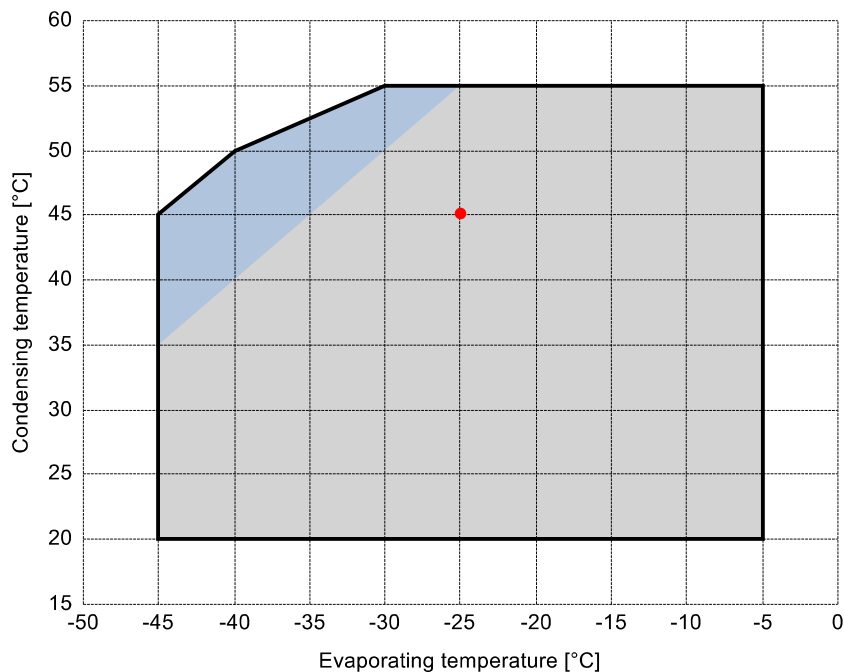
Displacement	15.36 m³/h
Nominal compressor speed	1450 rpm
Motor voltage	400 V
Nominal operating frequency	50 Hz
maximum allowed operating current (MRA)	8.4 A
locked rotor current (LRA)	35.9 A
Number of pistons	2
Net weight	45 kg
Lubricant	FRASCOLD POE32
Oil charge	1.1 l

### 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.)

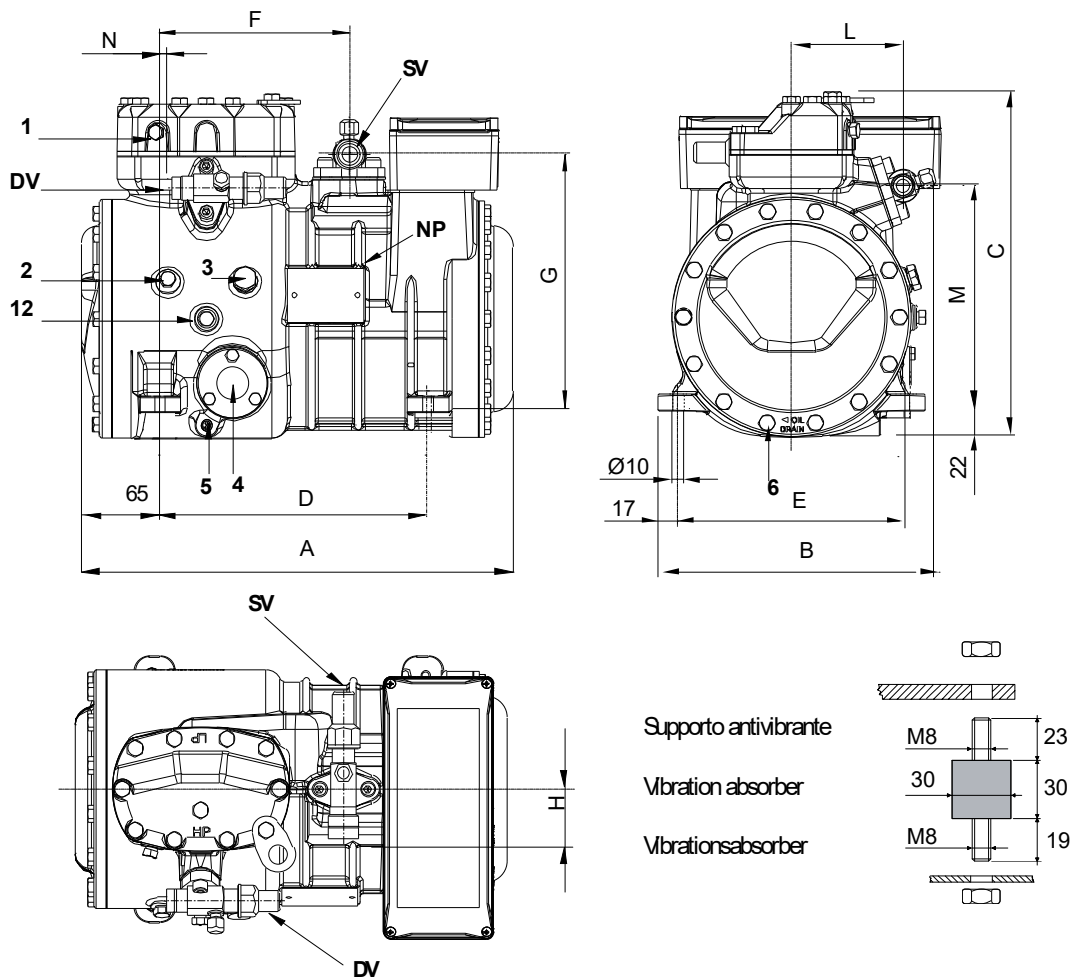
All data subject to change without notice

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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		

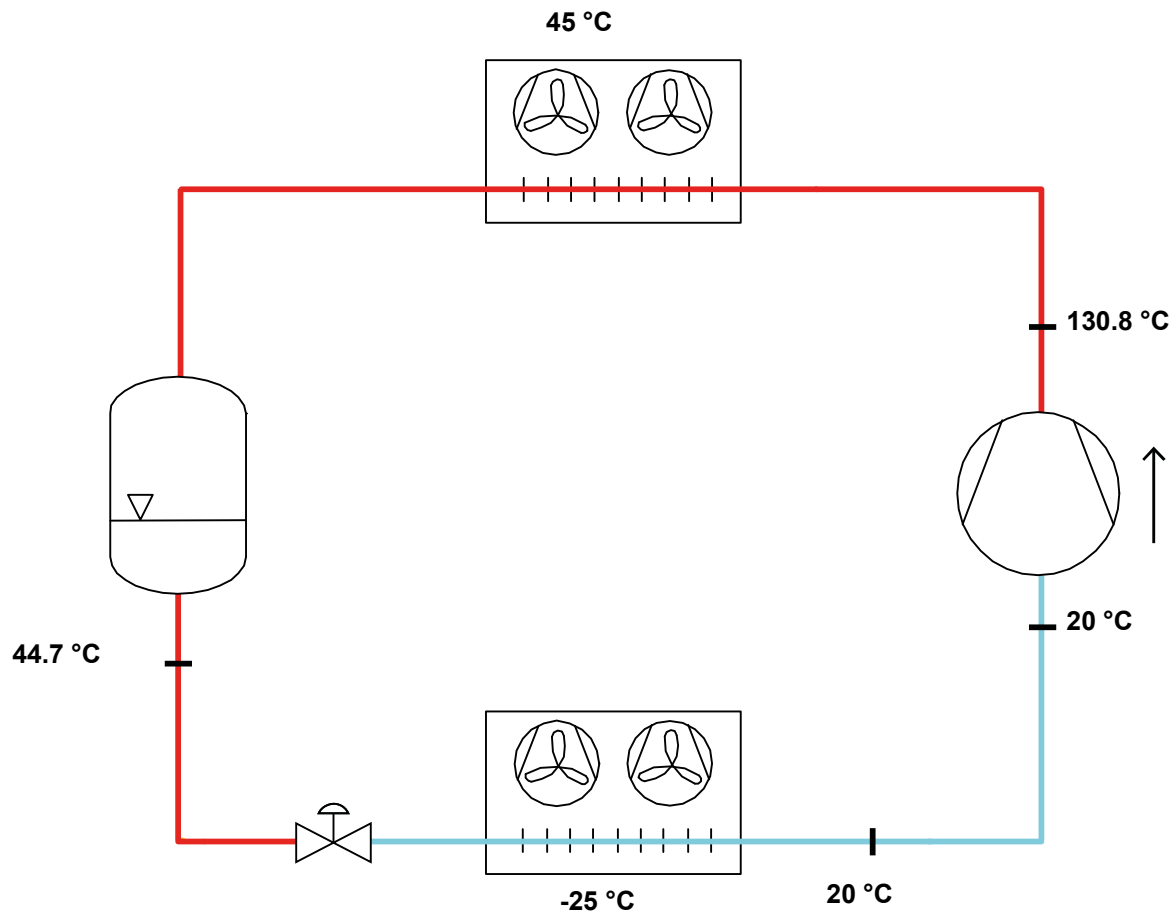
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## P&I Diagram:



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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	-	-	-	2.35	3.029	3.827	4.764	5.856	7.125
50 °C	-	1.431	1.974	2.615	3.373	4.266	5.313	6.533	7.945
45 °C	1.096	1.593	2.185	2.891	3.73	4.721	5.882	7.233	8.793
40 °C	1.229	1.761	2.405	3.179	4.103	5.196	6.475	7.961	9.672
35 °C	1.368	1.939	2.638	3.485	4.497	5.695	7.096	8.719	10.584
30 °C	1.517	2.13	2.889	3.811	4.915	6.221	7.747	9.512	11.535
25 °C	1.679	2.338	3.159	4.16	5.36	6.778	8.432	10.342	12.526
20 °C	1.857	2.566	3.453	4.536	5.835	7.368	9.155	11.213	13.562

## 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	-	-	-	2655	3056	3451	3833	4197	4538
50 °C	-	1831	2207	2586	2961	3327	3678	4010	4315
45 °C	1454	1803	2158	2512	2861	3199	3519	3818	4088
40 °C	1442	1772	2104	2435	2757	3066	3357	3622	3858
35 °C	1427	1737	2047	2354	2650	2930	3190	3423	3623
30 °C	1408	1698	1987	2269	2539	2791	3020	3219	3385
25 °C	1387	1657	1924	2182	2425	2648	2846	3013	3143
20 °C	1362	1612	1857	2091	2308	2502	2669	2803	2898

## 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	0.99	1.11	1.24	1.4	1.57
50 °C	-	0.78	0.89	1.01	1.14	1.28	1.44	1.63	1.84
45 °C	0.75	0.88	1.01	1.15	1.3	1.48	1.67	1.89	2.15
40 °C	0.85	0.99	1.14	1.31	1.49	1.69	1.93	2.2	2.51
35 °C	0.96	1.12	1.29	1.48	1.7	1.94	2.22	2.55	2.92
30 °C	1.08	1.25	1.45	1.68	1.94	2.23	2.57	2.95	3.41
25 °C	1.21	1.41	1.64	1.91	2.21	2.56	2.96	3.43	3.99
20 °C	1.36	1.59	1.86	2.17	2.53	2.94	3.43	4	4.68

## 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	-	-	-	5.4	5.87	6.35	6.85	7.33	7.76
50 °C	-	4.5	4.9	5.32	5.75	6.2	6.64	7.08	7.48
45 °C	4.13	4.47	4.85	5.24	5.63	6.04	6.44	6.83	7.18
40 °C	4.12	4.44	4.79	5.15	5.51	5.88	6.23	6.57	6.88
35 °C	4.11	4.41	4.73	5.06	5.39	5.72	6.03	6.32	6.57
30 °C	4.09	4.37	4.66	4.97	5.27	5.55	5.82	6.06	6.27
25 °C	4.07	4.33	4.6	4.87	5.14	5.39	5.62	5.81	5.97
20 °C	4.05	4.28	4.53	4.77	5.01	5.22	5.41	5.57	5.68

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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	-	-	-	80	104	132	167	207	256	
50 °C	-	44	61	82	106	135	170	212	261	
45 °C	31	46	63	84	109	139	175	217	267	
40 °C	33	47	65	86	112	143	180	223	274	
35 °C	35	49	67	89	116	147	185	229	281	
30 °C	36	51	70	92	120	152	191	237	290	
25 °C	38	53	72	96	124	158	198	244	299	
20 °C	40	56	76	100	129	163	204	252	308	