

TECHNICAL DATASHEET: YH119A7

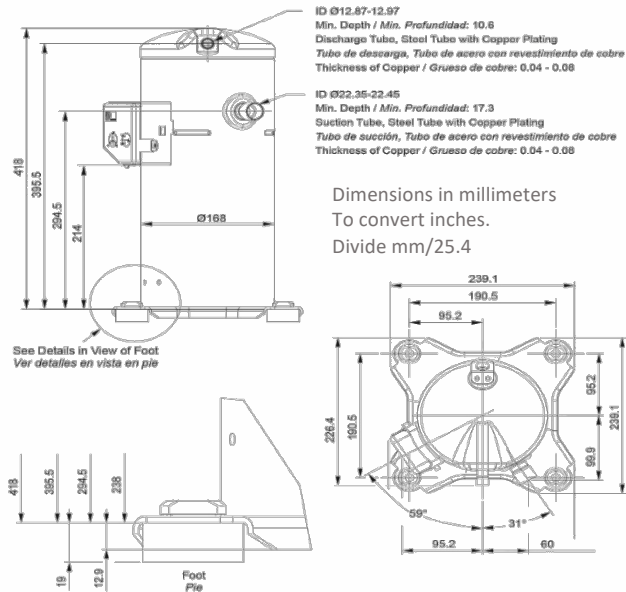
Archivo	Revisión	Elaboro	Hoja
YH119A7_TDS	03/2023	RGE	1

TEST CONDITION AHRI-540-2020 HIGH TEMPERATURE/AIR CONDITINING/CHILLERS						REFRIGERANT	ELECTRIC SUPPLY	TOLERANCE
Units	Te	Tc	SH	SC	Tret.	R-22	208-230V /3PH/50-60Hz	± 10%
Imperial °F	45	130	20	15	65			

NOMINAL TEST CONDITION PARAMETERS	Value	Imperial	Value	International	Comments
Frigorific potency	49076	Btuh	14,392	Watt	
Instant energy consumption	4250	Watt	3,201	Watt	
Efficiency BTU/h/W (EER) W/W (COP)	11.55	Btuh/W	3.35	W/W	
Nominal current consumption	13.33	A	13.33	A	
Nominal Displacement	4.03	ln/Rev	66.1	Cm ² /Rev.	
Total heat rejection	63,569	Btuh	13,937	Watt	

Mechanical data	
Displacement at 3500 RPM	6.11 CFM
Commercial Horsepower	4 HP
Compressor Weight	31 kg (68.2 Lb.)
3GS Oil original charge	1.4 L (49 Oz.)
3GS oil refilling charge	1.25 L (44 Oz.)
Center holes mounting	7.5 x 7.5 in
Required food print	9.5 x 9.5 in
Total height	418mm 16.5 in
Ø Discharge tube	½"
Ø Suction Tube	7/8"

Electrical data	
Max braker protection	15.5A
Locked Rotor Amp. LRA	99A
Voltage range	208 – 230 V AC
Phases	1
Electric supply frequency	50 - 60 HZ
VFD app range	30 - 70 Hz
Run capacitor	
Start capacitor	None
Start relay	None
Crankcase heater	70 W



Frigorific potency in Btuh performance at different conditions in °F								
↓Tc Te→	-13	0	10	20	30	40	50	54
77	17622	24726	31249	38831	47642	57717	69260	74280
80	17281	24350	30839	38352	47061	57068	68508	73529
90	16222	23052	29371	36645	45115	54848	65947	70831
100	15129	21755	27834	34869	43065	52457	63215	67962
110		20423	26229	32991	40880	49930	60346	64888
120			24589	31044	38592	47266	57273	61644
130				28995	36167	44466	54028	58229

Current consumption in Ampere							
-13	0	10	20	30	40	50	54
8.27	8.56	8.7	8.8	8.87	8.95	9.06	9.11
8.43	8.72	8.86	8.96	9.04	9.12	9.22	9.28
9.01	9.3	9.44	9.54	9.62	9.7	9.81	9.87
9.71	9.99	10.13	10.23	10.3	10.38	10.48	10.54
	10.83	10.96	11.05	11.11	11.18	11.27	11.32
		11.97	12.04	12.09	12.14	12.22	12.26
			13.24	13.27	13.3	13.36	13.4

Instantaneous potency in W performance at different conditions in °F								
↓Tc Te→	-13	0	10	20	30	40	50	54
77	2031	2165	2232	2280	2317	2355	2403	2427
80	2114	2247	2314	2361	2398	2435	2483	2507
90	2408	2536	2600	2644	2679	2715	2761	2785
100	2739	2861	2920	2961	2992	3024	3067	3089
110		3232	3285	3320	3345	3372	3411	3432
120			3708	3735	3754	3774	3806	3825
130				4218	4228	4240	4264	4280

Mass flow in Lb/h							
-13	0	10	20	30	40	50	54
99.23	139.51	174.79	214.61	259.96	311.5	370.26	395.9
98.56	138.91	174.24	214.13	259.56	311.19	370.04	395.71
96.37	136.83	172.29	212.33	257.94	309.77	368.85	394.63
94.19	134.62	170.08	210.15	255.81	307.73	366.92	392.75
	132.21	167.55	207.53	253.12	305	364.18	390.01
		164.62	204.38	249.79	301.5	360.55	386.33
			200.65	245.74	297.18	355.97	381.66