

# TECHNICAL DATASHEET: YM34A7

Archivo	Revisión	Elaboro	Hoja
YM34A7G_TDS	08/2023	RGE	1

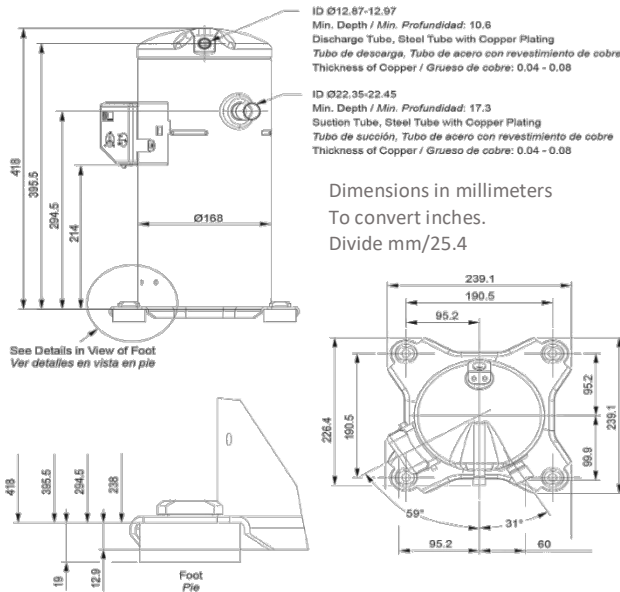
TEST CONDITION AHRI-540-2020   HIGH TEMPERATURE/AIR CONDITINING/CHILLERS						REFRIGERANT	ELECTRIC SUPPLY	TOLERANCE
Units	Te	Tc	SH	SC	Tret.	R-22	208-230V /3PH/50-60Hz	± 10%
Imperial °F	45	130	20	15	65			

NOMINAL TEST CONDITION PARAMETERS	Value	Imperial	Value	International	Comments
Frigorific potency	25341	Btuh	7,431	Watt	2 TR
Instant energy consumption	2679	Watt	2,679	Watt	
Efficiency   BTUh/W (EER)   W/W (COP)	10.31	Btuh/W	3.02	W/W	
Nominal current consumption	8.7	A	8.7	A	
Nominal Displacement	2.03	In/Rev	33.3	Cm³/Rev.	
Total heat rejection	34,476	Btuh	10,110	Watt	

Mechanical data	
Displacement at 3500 RPM	4.12 CFM
Commercial Horsepower	2 HP
Compressor Weight	30 kg (66 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	15A
Locked Rotor Amp. LRA	99A
Voltage range	208 – 230 V AC
Phases	3
Electric supply frequency	50 - 60 HZ
VFD app range	30 - 70 Hz
Run capacitor	None
Start capacitor	None
Start relay	None
Crankcase heater	70 W



Frigorific potency in Btuh performance at different conditions in °F								
↓Tc  Te→	5	10	20	30	40	50	53	
90	13729	15437	19296	23735	28824	34630	36474	
100	12978	14583	18271	22540	27458	33059	34869	
110	12226	13763	17247	21311	26024	31420	33161	
120	11509	12909	16154	20047	24555	29712	31386	
130	10724	12021	15061	18715	22950	27902	29507	
140			13866	17281	21277	25990	27526	
150				15915	19706	24111	25580	

Heat Rejection Btuh								
↓Tc  Te→	5	10	20	30	40	50	53	
90	19,110	20,937	25,028	29,733	35,180	41,498	43,536	
100	18,884	20,632	24,566	29,077	34,295	40,319	42,286	
110	18,695	20,406	24,169	28,482	33,461	39,212	41,082	
120	18,571	20,189	23,779	27,945	32,712	38,179	39,962	
130	18,414	19,987	23,456	27,434	31,946	37,187	38,888	
140	-	-	23,104	26,918	31,231	36,237	37,865	
150	-	-	-	26,462	30,625	35,347	36,911	

Current consumption in Ampere								
	5	10	20	30	40	50	53	
	6.4	6.46	6.58	6.73	6.94	7.25	7.37	
	6.68	6.76	6.89	7.04	7.22	7.49	7.58	
	6.99	7.1	7.26	7.42	7.59	7.82	7.91	
	7.35	7.48	7.7	7.87	8.05	8.26	8.34	
	7.75	7.92	8.19	8.41	8.6	8.81	8.88	
			8.76	9.03	9.26	9.48	9.55	
				9.66	9.93	10.17	10.25	

Instantaneous potency in Watt								
	5	10	20	30	40	50	53	
	1578	1613	1681	1759	1864	2014	2071	
	1732	1774	1846	1917	2005	2129	2175	
	1897	1948	2030	2103	2181	2285	2323	
	2071	2135	2236	2316	2392	2483	2515	
	2255	2336	2462	2557	2638	2723	2751	
			2709	2826	2919	3005	3032	
				3093	3202	3295	3323	