

# TECHNICAL DATASHEET: YH89A3

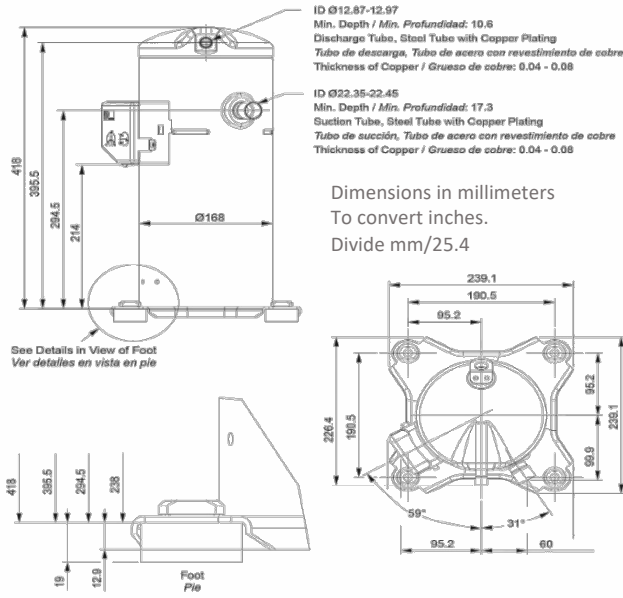
Archivo	Revisión	Elaboro	Hoja
YH89A3_TDS	03/2023	RGE	1

TEST CONDITION AHRI-540-2020   HIGH TEMPERATURE/AIR CONDITINING/CHILLERS								TOLERANCE
Units	Te	Tc	SH	SC	Tret.	R-22	460V /3PH/50-60Hz	± 10%
Imperial °F	45	130	20	15	65			

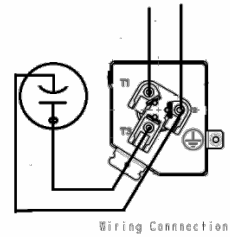
NOMINAL TEST CONDITION PARAMETERS	Value	Imperial	Value	International	Comments
Frigorific potency	36645	Btuh	8,303	Watt	
Instant energy consumption	3377	Watt	2661	Watt	
Efficiency   BTUh/W (EER)   W/W (COP)	10.64	Btuh/W	3.12	W/W	
Nominal current consumption	15.75	A	12.45	A	
Nominal Displacement	0.01	In/Rev	49.4	Cm³/Rev.	
Total heat rejection	37,386	Btuh	15,286	Watt	

Mechanical data	
Displacement at 3500 RPM	4.76 CFM
Commercial Horsepower	3HP
Compressor Weight	33 kg (72.6 Lb.)
POE Oil original charge	1.4 L (49 Oz.)
POE 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	16.5 in
Ø Discharge tube	½"
Ø Suction Tube	7/8"

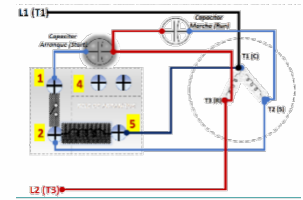
Electrical data	
Braker protection MOC	10 A.
Locked Rotor Amp. LRA	45 A.
Voltage range	460 VAC
Phases	3
Electric supply frequency	50 - 60 HZ
VFD app range	35 - 65 HZ
Run capacitor	None
Start capacitor	None
Start relay	None
Crankcase heater	70 W



Ending model: N10<sub>2</sub>



Ending model:



Frigorific potency in Btuh performance at different conditions in °F								
↓ Tc   Te →	-13	0	10	20	30	40	50	54
77	13148	18442	23326	28995	35552	43100	51706	55463
80	12909	18169	23018	28619	35142	42587	51159	54882
90	12090	17212	21925	27356	33674	40914	49247	52867
100	11304	16222	20764	26024	32137	39138	47198	50715
110		15232	19569	24623	30498	37260	45046	48427
120			18340	23189	28790	35279	42758	46037
130				21652	27014	33196	40333	43475

Instantaneous potency in W performance at different conditions in °F								
↓ Tc   Te →	-13	0	10	20	30	40	50	54
77	1679	1781	1833	1869	1898	1926	1963	1982
80	1742	1844	1895	1931	1959	1988	2024	2043
90	1967	2066	2114	2148	2175	2202	2237	2256
100	2221	2314	2360	2390	2414	2438	2472	2489
110		2598	2639	2665	2685	2706	2735	2751
120			2963	2983	2998	3013	3038	3052
130				3353	3361	3370	3388	3400

Current consumption in Ampere								
-13	0	10	20	30	40	50	54	
8	8.45	8.67	8.82	8.94	9.07	9.24	9.33	
8.27	8.72	8.94	9.09	9.21	9.34	9.5	9.59	
9.23	9.67	9.89	10.04	10.15	10.27	10.44	10.52	
10.35	10.78	10.98	11.12	11.22	11.33	11.49	11.57	
	12.07	12.26	12.38	12.47	12.56	12.7	12.78	
		13.77	13.87	13.94	14.01	14.13	14.19	
			15.63	15.67	15.72	15.8	15.86	

Mass flow in Lb/h								
-13	0	10	20	30	40	50	54	
74.07	104.14	130.47	160.2	194.05	232.52	276.38	295.52	
73.57	103.69	130.06	159.84	193.75	232.28	276.21	295.38	
71.93	102.14	128.61	158.5	192.54	231.22	275.33	294.57	
70.31	100.49	126.96	156.87	190.95	229.7	273.88	293.16	
	98.69	125.07	154.91	188.94	227.67	271.84	291.12	
		122.88	152.56	186.45	225.06	269.13	288.38	
			149.77	183.44	221.83	265.71	284.89	