

TECHNICAL DATASHEET: YH119C3

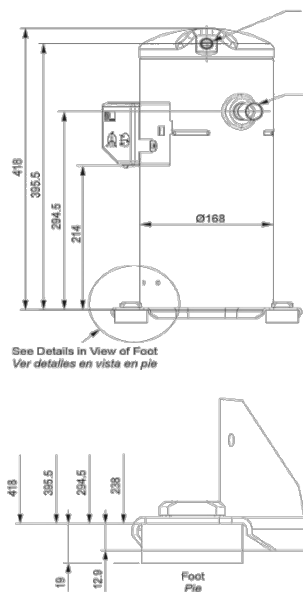
Archivo	Revisión	Elabora	Hoja
YH119C3_TDS	03/2023	RGE	1

TEST CONDITION AHRI-540-2020 HIGH TEMPERATURE/AIR CONDITINING/CHILLERS						REFRIGERANT	ELECTRIC SUPPLY	TOLERANCE
Units	Te	Tc	SH	SC	Tret.	R-410A	208-230V /1PH/50-60Hz	± 10%
Imperial °F	45	130	20	15	65			

NOMINAL TEST CONDITION PARAMETERS	Value	Imperial	Value	International	Comments
Frigorific potency	49213	Btuh	14,432	Watt	
Instant energy consumption	4790	Watt	4,790	Watt	
Efficiency BTUh/W (EER) W/W (COP)	10.27	Btuh/W	3.01	W/W	
Nominal current consumption	22.45	A	22.45	A	
Nominal Displacement	0.00	In/Rev	46.0	Cm ² /Rev.	
Total heat rejection	65,547	Btuh	19,222	Watt	

Mechanical data	
Displacement at 3500 RPM	
Commercial Horsepower	4 HP
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"

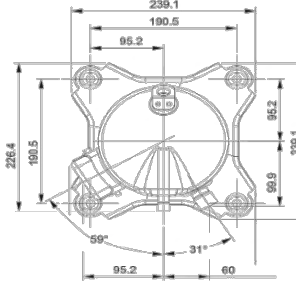
Electrical data	
MOC Braker	35 A.
Locked Rotor Amp. LRA	140 A.
Voltage range	208 – 230 V AC
Phases	1
Electric supply frequency	50 - 60 HZ
VFD app range	35 - 65 Hz
Run capacitor	
Start capacitor	None
Start relay	None
Crankcase heater	70 W



ID Ø12.87-12.97
Min. Depth / Min. Profundidad: 10.6
Discharge Tube, Steel Tube with Copper Plating
Tubo de descarga, Tubo de acero con revestimiento de cobre
Thickness of Copper / Grueso de cobre: 0.04 - 0.08

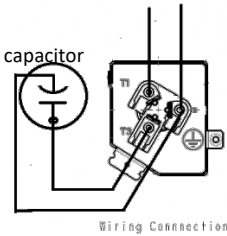
ID Ø22.35-22.45
Min. Depth / Min. Profundidad: 17.3
Suction Tube, Steel Tube with Copper Plating
Tubo de succión, Tubo de acero con revestimiento de cobre
Thickness of Copper / Grueso de cobre: 0.04 - 0.08

Dimensions in millimeters
To convert inches,
Divide mm/25.4

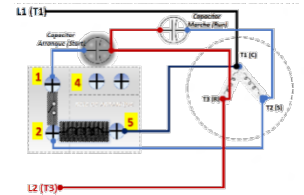


Ending model: N10₂

Run capacitor



Ending model:



Frigorific potency in Btuh performance at different conditions in °F								
↓Tc Te→	-13	0	10	20	30	40	50	54
77	19467	27424	34323	42280	51672	62839	76193	82203
80	18920	26809	33640	41460	50681	61644	74758	80667
90	17212	24965	31522	38967	47676	57990	70319	75885
100	15573	23257	29610	36679	44944	54643	66254	71480
110		21481	27663	34459	42280	51433	62361	67279
120			25511	32069	39479	48154	58400	63044
130				29302	36406	44602	54267	58604

Instantaneous potency in W performance at different conditions in °F								
↓Tc Te→	-13	0	10	20	30	40	50	54
77	2555	2538	2523	2516	2523	2551	2608	2641
80	2672	2650	2631	2618	2619	2642	2693	2723
90	3073	3033	2999	2970	2954	2958	2989	3011
100	3503	3448	3401	3357	3325	3312	3325	3339
110		3915	3856	3799	3753	3725	3721	3728
120			4386	4318	4260	4217	4199	4200
130				4933	4863	4809	4777	4772

Current consumption in Ampere							
-13	0	10	20	30	40	50	54
12.05	11.98	11.91	11.88	11.91	12.04	12.31	12.47
12.56	12.46	12.38	12.32	12.32	12.43	12.67	12.81
14.35	14.16	14	13.86	13.78	13.8	13.94	14.04
16.32	16.06	15.83	15.63	15.47	15.4	15.46	15.52
	18.24	17.96	17.69	17.47	17.33	17.3	17.33
		20.5	20.17	19.89	19.68	19.58	19.58
			23.15	22.82	22.55	22.39	22.36

Mass flow in Lb/h							
-13	0	10	20	30	40	50	54
102.36	145.12	179.17	217.36	262.77	318.16	386.67	418.33
99.95	142.77	176.62	214.39	259.16	313.71	381.17	412.34
94.51	138.16	171.84	208.73	251.9	304.15	368.6	398.37
90.93	136.44	170.72	207.51	249.87	300.6	362.81	391.49
	134.96	170.63	208.1	250.43	300.42	361.18	389.08
		168.92	207.85	250.93	300.96	361.04	388.48
			204.11	248.73	299.57	359.77	387.05