

# TECHNICAL DATASHEET: YH355C1

Archivo	Revisión	Elaboro	Hoja
YH355C1_TDS	03/2023	RGE	1

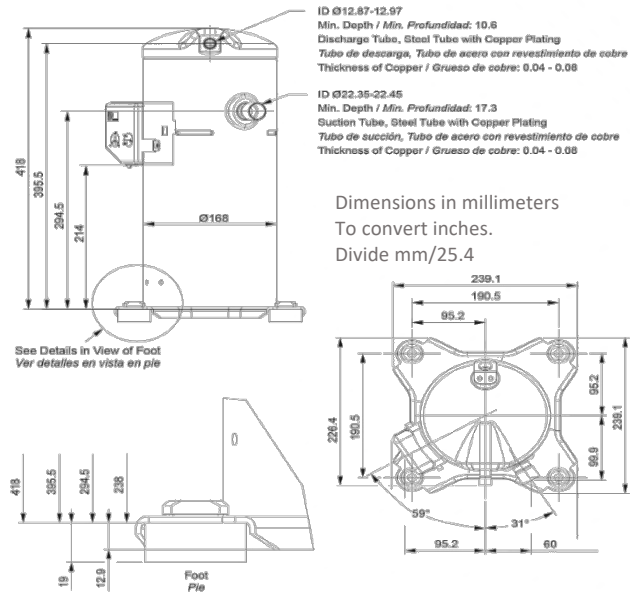
TEST CONDITION AHRI-540-2020   HIGH TEMPERATURE/AIR CONDITINING/CHILLERS						R-410A	460V /3PH/50-60Hz	TOLERANCE ± 10%
Units	Te	Tc	SH	SC	Tret.			
Imperial °F	45	130	20	15	65			

NOMINAL TEST CONDITION PARAMETERS	Value	Imperial	Value	International	Comments
Frigorific potency	144052	Btuh	39,450	Watt	
Instant energy consumption	13109	Watt	134524	Watt	
Efficiency   BTUH/W (EER)   W/W (COP)	1.00	Btuh/W	0.29	W/W	
Nominal current consumption	20.15	A	18.82	A	
Nominal Displacement	0.00	In/Rev	131.6	Cm <sup>3</sup> /Rev.	
Total heat rejection	593,251	Btuh	173,974	Watt	

Mechanical data	
Displacement at 3500 RPM	4.76 CFM
Commercial Horsepower	12HP
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



Frigorific potency in Btuh performance at different conditions in °F								
↓Tc   Te→	-13	0	10	20	30	40	50	54
77	56965	80257	100475	123732	151258	183942	222977	
80	55360	78481	98425	121341	148355	180458	218776	
90	50374	73085	92278	114033	139544	169769	205833	248762
100	45627	68065	86609	107373	131519	159967	193880	234315
110		62908	80940	100850	123698	150541	182473	220518
120			74690	93815	115570	140876	170930	206721
130				85789	106519	130494	158806	192479

Current consumption in Ampere								
-13	0	10	20	30	40	50	54	
6784	6737	6697	6676	6696	6777	6941		
7118	7055	7001	6965	6969	7034	7180		
8250	8138	8042	7961	7916	7927	8017	8206	
9468	9312	9179	9057	8967	8930	8968	9101	
	10632	10465	10307	10177	10097	10088	10170	
		11965	11775	11609	11490	11438	11475	
			13513	13317	13164	13074	13069	

Instantaneous potency in W performance at different conditions in °F								
↓Tc   Te→	-13	0	10	20	30	40	50	54
77	13.26	13.26	13.18	13.12	13.14	13.32	13.75	
80	13.49	13.45	13.32	13.19	13.14	13.25	13.58	
90	14.55	14.41	14.17	13.9	13.67	13.56	13.65	14
100	13.26	13.26	13.18	13.12	13.14	13.32	13.75	
110	13.49	13.45	13.32	13.19	13.14	13.25	13.58	
120	14.55	14.41	14.17	13.9	13.67	13.56	13.65	14

Mass flow in Lb/h								
-13	0	10	20	30	40	50	54	
299.55	424.7	524.35	636.11	768.98	931.08	1131.6		
292.52	417.82	516.88	627.41	758.44	918.07	1115.48		
276.57	404.33	502.88	610.83	737.2	890.1	1078.69	1311.36	
266.1	399.28	499.61	607.27	731.26	879.7	1061.76	1285.79	
	394.96	499.36	609	732.9	879.18	1056.98	1274.69	
		494.35	608.27	734.36	880.76	1056.6	1270.25	