

# TECHNICAL DATASHEET: YH307A7

Archivo	Revisión	Elaboro	Hoja
YH69A1_TDS.docx	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	126498	Btuh	10,864	Watt	
Instant energy consumption	10643	Watt	3,386	Watt	
Efficiency   BTUh/W (EER)   W/W (COP)	10.94	Btuh/W	3.21	W/W	
Nominal current consumption	33.39	A	11	A	
Nominal Displacement	3.01	In/Rev	10	Cm <sup>3</sup> /Rev.	
Total heat rejection	48,593	Btuh	14,250	Watt	

Mechanical data	
Displacement at 3500 RPM	6.11 CFM
Commercial Horsepower	3.0 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									Current consumption in Ampere							
↓Tc   Te→	-13	0	10	20	30	40	50	54	-13	0	10	20	30	40	50	54
77	45422	63727	80564	100133	122776	148765	178511	191489	20.73	21.44	21.8	22.04	22.23	22.43	22.7	22.84
80	44568	62737	79471	98835	121307	147092	176599	189474	21.12	21.84	22.2	22.44	22.64	22.84	23.11	23.25
90	41768	59424	75646	94464	116287	141320	170008	182541	22.58	23.3	23.66	23.91	24.11	24.31	24.58	24.72
100	39001	56043	71719	89888	110959	135173	162972	175130	24.32	25.04	25.39	25.63	25.81	26.01	26.27	26.4
110		52594	67621	85072	105358	128684	155493	167241		27.14	27.47	27.68	27.84	28.01	28.25	28.37
120			63352	80018	99416	121819	147604	158908			29.99	30.17	30.3	30.43	30.62	30.73
130				74758	93234	114579	139271	150097				33.17	33.25	33.33	33.48	33.57
Instantaneous potency in W performance at different conditions in °F									Mass flow in Lb/h							
↓Tc   Te→	-13	0	10	20	30	40	50	54	-13	0	10	20	30	40	50	54
77	5087	5422	5590	5709	5802	5896	6017	6077	255.86	359.72	450.67	553.35	670.27	803.16	954.66	1020.77
80	5295	5627	5794	5911	6004	6098	6217	6278	254.12	358.15	449.26	552.11	669.23	802.35	954.08	1020.29
90	6030	6352	6512	6622	6709	6798	6914	6974	248.46	352.8	444.23	547.47	665.05	798.69	951.02	1017.48
100	6859	7165	7314	7414	7492	7572	7680	7736	242.86	347.11	438.54	541.85	659.57	793.42	946.04	1012.64
110		8094	8228	8314	8378	8445	8541	8594		340.89	432.02	535.09	652.64	786.39	938.98	1005.58
120			9287	9354	9401	9452	9532	9578			424.45	526.97	644.04	777.38	929.62	996.11
130																