

Model: YH95C3

Power supply	1Ph/208-230V/60Hz	Total Dimension: Length(L)(mm)	239
Refrigerant	R410A	Total Dimension: Width(W)(mm)	239
Nominal Horse Power(HP)	3.5	Total Dimension: Height(H)(mm)	418
Rated Cooling Capacity(W)	11500	Grommet Hole (Diameter)	190.5*190.5(8.8)
Rated Input Power(W)	3733	Oil Type	POE
Rated COP(W)	3.08	Initial filling amount of lubricating oil(L)	1.4
RLA(A)	17.3	Refilling amount of lubricating oil(L)	1.25
LRA(A)	109	Maximum working pressure: discharge side(MPa)	4.3
MOC(A)	24	Maximum working pressure: suction side(MPa)	2
Crankcase Heater Power(W)	70	Weight(Kg)	33
Discharge connection pipe size OD	1/2	Displacement(m³/h)	8.09
Suction connection pipe size OD	7/8	Displacement(cc/rev)	38.5

Working conditions

Refrigerant:	R410A		
Evaporating dew point temperature:	5.0 °C	Condensing dew point temperature:	50.0 °C
Evaporating Pressure:	0.933 MPa	Condensing Pressure:	3.063 MPa
Useful superheat:	10.0 K	Subcooling:	0.0 K
Additional superheat:	0.0 K	Additional Subcooling:	0.0 K
Return Gas Temperature:	15.0 °C	Total Subcooling:	0.0 K
		Liquid temperature:	50.0 °C
Rating Conditions:	Custom		
Required cooling capacity:	20.00 kW		

Calculation

Setting Conditions	5.0 / 50.0 °C
Compressor model	YH95C3
Cooling Capacity(kW)	10.355
Cooling EER(W/W)	2.885
Heating capacity(kW)	13.944
Heating COP(W/W)	3.885
Power(kW)	3.589
Current(A)	15.945
Mass flow(kg/h)	251.356

Cooling Capacity(kW)

Tc\Te dew	-25	-20	-15	-10	-5	0	5	10
65	-	-	-	-	-	5.933	7.258	8.797
60	-	-	-	-	5.678	6.947	8.425	10.138
55	-	-	-	5.261	6.449	7.831	9.437	11.297
50	-	-	4.765	5.869	7.148	8.632	10.355	12.346
45	-	4.218	5.248	6.429	7.793	9.373	11.205	13.321
40	3.625	4.599	5.696	6.951	8.398	10.071	12.008	14.242
35	3.921	4.957	6.122	7.450	8.978	10.742	12.781	15.131
30	4.207	5.307	6.539	7.940	9.549	11.403	13.543	16.006
25	4.499	5.663	6.963	8.439	10.129	12.074	14.314	16.889

Heating capacity(kW)

Tc\Te dew	-25	-20	-15	-10	-5	0	5	10
65	-	-	-	-	-	11.291	12.532	13.994
60	-	-	-	-	10.374	11.592	13.019	14.694
55	-	-	-	9.371	10.540	11.894	13.478	15.333
50	-	-	8.358	9.472	10.744	12.219	13.944	15.962
45	-	7.354	8.421	9.615	10.981	12.567	14.420	16.587
40	6.357	7.393	8.521	9.787	11.239	12.928	14.901	17.208
35	6.379	7.460	8.643	9.976	11.509	13.294	15.380	17.820
30	6.421	7.543	8.777	10.173	11.783	13.658	15.852	18.417
25	6.474	7.634	8.916	10.371	12.053	14.015	16.312	18.997

Input power(kW)

Tc\Te dew	-25	-20	-15	-10	-5	0	5	10
65	-	-	-	-	-	5.358	5.274	5.197
60	-	-	-	-	4.696	4.645	4.594	4.556
55	-	-	-	4.110	4.091	4.063	4.041	4.037
50	-	-	3.593	3.603	3.596	3.587	3.589	3.615
45	-	3.136	3.173	3.186	3.188	3.193	3.215	3.267
40	2.732	2.794	2.824	2.835	2.842	2.856	2.893	2.966
35	2.458	2.503	2.521	2.526	2.532	2.552	2.600	2.689
30	2.213	2.237	2.239	2.233	2.234	2.255	2.310	2.411
25	1.975	1.971	1.953	1.933	1.924	1.942	1.998	2.108

Current(A)

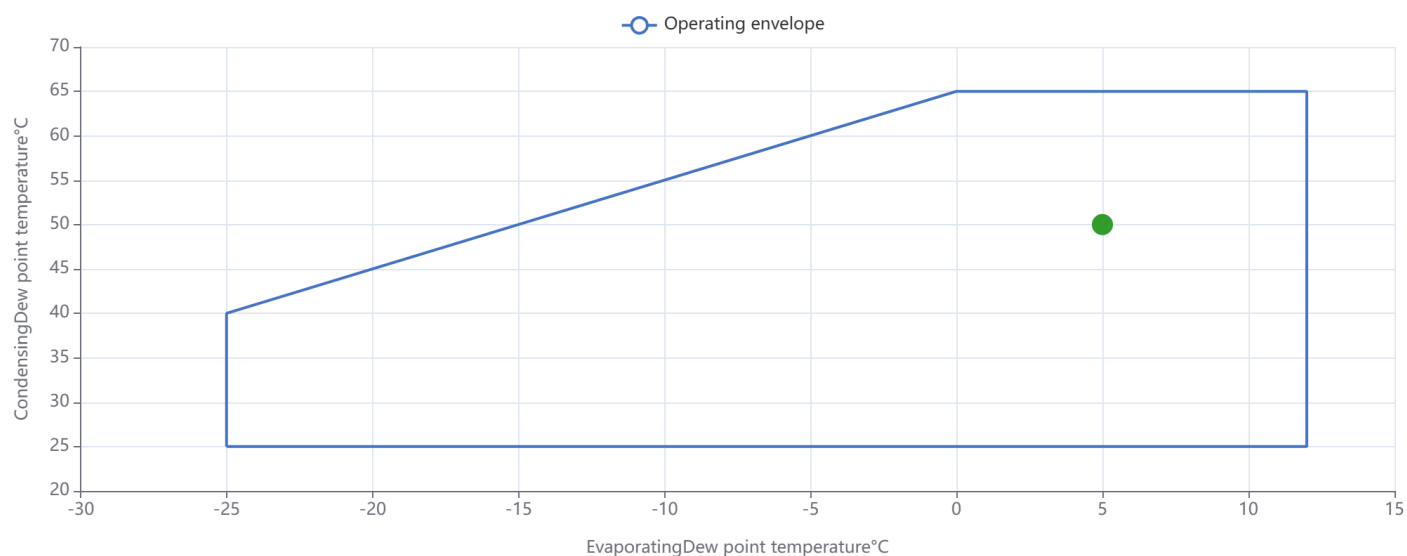
Tc\Te dew	-25	-20	-15	-10	-5	0	5	10
65	-	-	-	-	-	22.486	22.191	21.914
60	-	-	-	-	19.975	19.807	19.631	19.492
55	-	-	-	17.794	17.741	17.655	17.581	17.563
50	-	-	15.915	15.966	15.958	15.936	15.945	16.030
45	-	14.308	14.450	14.508	14.527	14.552	14.627	14.798
40	12.944	13.165	13.277	13.325	13.353	13.407	13.530	13.768
35	12.081	12.235	12.300	12.320	12.340	12.405	12.558	12.846
30	11.353	11.423	11.423	11.397	11.391	11.448	11.615	11.935
25	10.664	10.632	10.548	10.459	10.409	10.442	10.603	10.938

Mass flow(kg/h)

Tc\Te dew	-25	-20	-15	-10	-5	0	5	10
65	-	-	-	-	-	194.368	233.890	279.304
60	-	-	-	-	167.615	201.838	241.217	286.459
55	-	-	-	143.795	173.517	207.661	246.932	292.040
50	-	-	122.332	148.349	178.055	212.156	251.356	296.365
45	-	102.651	125.756	151.821	181.548	215.641	254.807	299.754
40	84.176	105.162	128.379	154.529	184.313	218.436	257.604	302.525
35	85.994	107.156	130.522	156.793	186.671	220.860	260.066	304.998
30	87.576	108.951	132.503	158.931	188.939	223.231	262.512	307.492
25	89.241	110.866	134.639	161.262	191.438	225.868	265.261	310.325

The above performance parameters are obtained through limited compressor tests and data fitting, for reference of compress or selection only. The performance data of the user's unit shall be subject to the test results of the standard laboratory.

Operating Envelope



Website: <https://www.invotechselector.cn>

SoftwareVersion: v2.0.0