

Model: YH150C3

Power supply	1Ph/208-230V/60Hz	Total Dimension: Length(L)(mm)	239
Refrigerant	R410A	Total Dimension: Width(W)(mm)	239
Nominal Horse Power(HP)	5	Total Dimension: Height(H)(mm)	463
Rated Cooling Capacity(W)	18000	Grommet Hole (Diameter)	190.5*190.5(8.8)
Rated Input Power(W)	5941	Oil Type	POE
Rated COP(W)	3.03	Initial filling amount of lubricating oil(L)	1.6
RLA(A)	30	Refilling amount of lubricating oil(L)	1.45
LRA(A)	140	Maximum working pressure: discharge side(MPa)	4.3
MOC(A)	43	Maximum working pressure: suction side(MPa)	2
Crankcase Heater Power(W)	70	Weight(Kg)	37
Discharge connection pipe size OD	1/2	Displacement(m³/h)	12.43
Suction connection pipe size OD	7/8	Displacement(cc/rev)	59.2

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	YH150C3
Cooling Capacity(kW)	15.977
Cooling EER(W/W)	3.021
Heating capacity(kW)	21.265
Heating COP(W/W)	4.021
Power(kW)	5.288
Current(A)	25.680
Mass flow(kg/h)	387.833

Cooling Capacity(kW)

Tc\Te dew	-25	-20	-15	-10	-5	0	5	10
65	-	-	-	-	-	9.154	11.199	13.573
60	-	-	-	-	8.761	10.719	12.999	15.642
55	-	-	-	8.117	9.950	12.083	14.561	17.430
50	-	-	7.353	9.056	11.029	13.319	15.977	19.050
45	-	6.509	8.098	9.919	12.024	14.463	17.289	20.553
40	5.593	7.096	8.789	10.725	12.957	15.540	18.527	21.975
35	6.050	7.649	9.446	11.495	13.852	16.575	19.720	23.346
30	6.492	8.188	10.089	12.251	14.733	17.595	20.896	24.697
25	6.942	8.738	10.744	13.021	15.628	18.629	22.085	26.060

Heating capacity(kW)

Tc\Te dew	-25	-20	-15	-10	-5	0	5	10
65	-	-	-	-	-	17.049	18.969	21.231
60	-	-	-	-	15.680	17.564	19.768	22.355
55	-	-	-	14.173	15.978	18.070	20.515	23.379
50	-	-	12.646	14.365	16.328	18.605	21.265	24.377
45	-	11.129	12.773	14.614	16.722	19.168	22.026	25.367
40	9.619	11.213	12.951	14.903	17.144	19.748	22.791	26.346
35	9.671	11.337	13.160	15.217	17.583	20.335	23.551	27.309
30	9.753	11.484	13.388	15.542	18.025	20.918	24.299	28.250
25	9.851	11.643	13.622	15.869	18.464	21.490	25.030	29.166

Input power(kW)

Tc\Te dew	-25	-20	-15	-10	-5	0	5	10
65	-	-	-	-	-	7.895	7.771	7.658
60	-	-	-	-	6.919	6.845	6.769	6.713
55	-	-	-	6.056	6.028	5.987	5.954	5.948
50	-	-	5.294	5.309	5.299	5.286	5.288	5.327
45	-	4.621	4.676	4.695	4.698	4.705	4.737	4.813
40	4.025	4.117	4.162	4.178	4.187	4.209	4.263	4.371
35	3.621	3.688	3.715	3.722	3.731	3.760	3.831	3.963
30	3.261	3.296	3.299	3.291	3.292	3.323	3.403	3.553
25	2.910	2.905	2.878	2.848	2.836	2.861	2.944	3.106

Current(A)

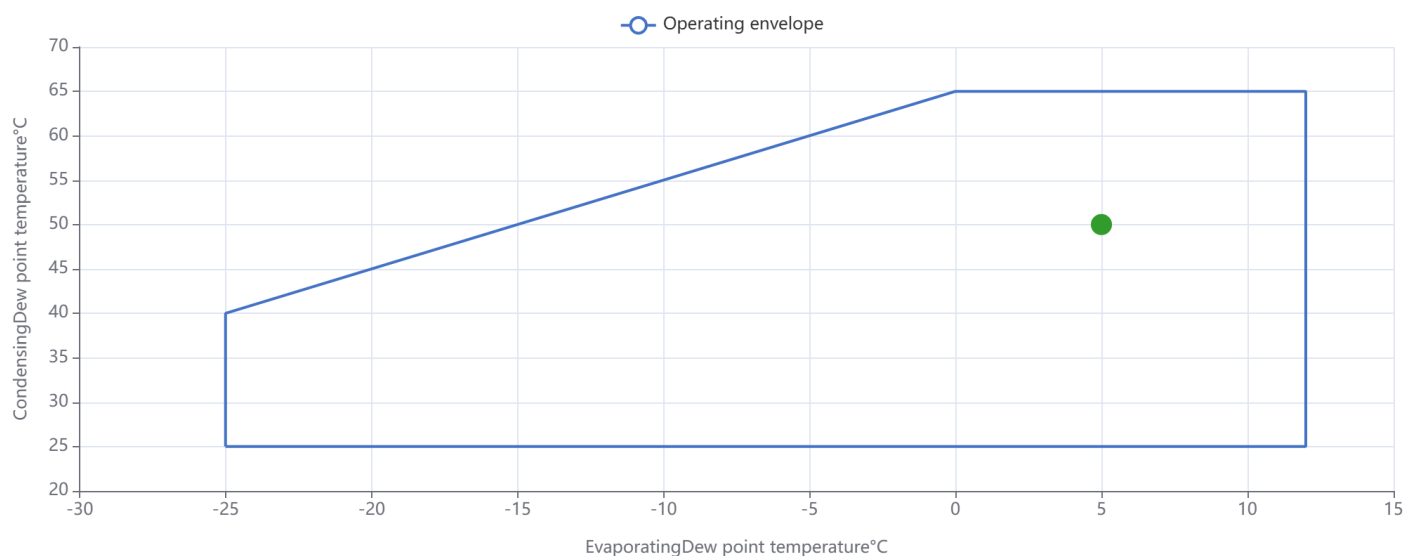
Tc\Te dew	-25	-20	-15	-10	-5	0	5	10
65	-	-	-	-	-	36.214	35.738	35.291
60	-	-	-	-	32.169	31.898	31.615	31.391
55	-	-	-	28.657	28.572	28.434	28.314	28.285
50	-	-	25.631	25.712	25.699	25.664	25.680	25.817
45	-	23.043	23.272	23.365	23.396	23.436	23.557	23.831
40	20.846	21.202	21.383	21.460	21.505	21.592	21.790	22.174
35	19.456	19.705	19.809	19.841	19.873	19.977	20.225	20.689
30	18.284	18.397	18.396	18.355	18.345	18.437	18.706	19.221
25	17.174	17.122	16.988	16.845	16.763	16.817	17.077	17.615

Mass flow(kg/h)

Tc\Te dew	-25	-20	-15	-10	-5	0	5	10
65	-	-	-	-	-	299.904	360.884	430.956
60	-	-	-	-	258.624	311.429	372.189	441.996
55	-	-	-	221.871	267.731	320.414	381.007	450.607
50	-	-	188.754	228.897	274.733	327.349	387.833	457.281
45	-	158.386	194.036	234.254	280.122	332.727	393.158	462.509
40	129.881	162.261	198.085	238.433	284.389	337.039	397.473	466.785
35	132.685	165.338	201.391	241.926	288.027	340.779	401.272	470.601
30	135.126	168.108	204.447	245.225	291.527	344.437	405.046	474.448
25	137.695	171.062	207.744	248.822	295.381	348.507	409.288	478.820

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