

Invotech Selection Software

REFRIGERANT R410A

Operation Conditions :

Evaporating Temperature (°C) : 5,0
 Condensing Temperature (°C) : 50,0
 Liquid subcooling: 0,0
 Suction Superheat: 10,0

Required Capacity(Kw):

Compressor Selected: YH325C1-100

PERFORMANCE AT SPECIFIED OPERATING POINT

Capacity (KW)	29,97
Power Input (KW)	9,17
COP	3,27
Current (A)	17,29

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Length/Width/Height (mm)	260/244/508
Weight (kg)	56
Stub Suction (inch)	1 1/8
Stub Discharge (inch)	7/8
Base mounting (hole dia)	190X190(8.5)
Oil type	POE
Initial charge of oil quantity (L)	3.0
Recharge of oil quantity (L)	2.85
High Side PS Max., (MPa)	4.3
Low Side PS Max., (MPa)	2.0
Displacement(m ³ /h)	21.4

COMPRESSOR ELECTRICAL DATA

Electricity	380V/50Hz/3P
Standard Conditions	7.2/54.4/11.1/8.3
Normal Power (HP)	11
Normal Capacity (W)	32500
Normal Power input (W)	10100
Normal COP (W/W)	3.22
Normal Current (A)	17.7
Locked Rotor Current (A)	121
Maximum operating current (A)	25

Model: YH325C1-100

Refrigerant: R410A

Suction Superheat: 10,0

Liquid subcooling: 0,0

Capacity (KW)

Tc \ Te	-25	-20	-15	-10	-5	0	5	10	15	20
25	12,05	15,41	19,05	23,14	27,83	33,29	39,69	47,18		
30	11,07	14,38	17,91	21,82	26,29	31,47	37,52	44,62	52,91	
35	10,16	13,43	16,88	20,64	24,91	29,82	35,55	42,27	50,13	
40	9,24	12,5	15,88	19,52	23,59	28,27	33,7	40,05	47,5	56,19
45		11,5	14,82	18,36	22,27	26,71	31,87	37,88	44,93	53,17
50			13,62	17,07	20,84	25,08	29,97	35,67	42,34	50,14
55				15,58	19,22	23,28	27,93	33,33	39,64	47,03
60					17,33	21,23	25,66	30,78	36,75	43,74
65						18,83	23,06	27,92	33,58	40,2

Power Input (KW)

Tc \ Te	-25	-20	-15	-10	-5	0	5	10	15	20
25	5,28	5,25	5,22	5,2	5,19	5,22	5,28	5,4		
30	6,06	6,01	5,95	5,9	5,86	5,86	5,89	5,97	6,11	
35	6,88	6,81	6,73	6,65	6,59	6,55	6,54	6,59	6,7	
40	7,77	7,68	7,58	7,48	7,39	7,32	7,29	7,3	7,38	7,53
45		8,66	8,54	8,42	8,3	8,21	8,15	8,14	8,18	8,3
50			9,64	9,5	9,37	9,25	9,17	9,13	9,15	9,23
55				10,76	10,61	10,48	10,37	10,31	10,3	10,36
60					12,07	11,92	11,79	11,71	11,68	11,71
65						13,61	13,47	13,37	13,31	13,32

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Liquid subcooling: 0,0

Current (A)

Tc \ Te	-25	-20	-15	-10	-5	0	5	10	15	20
25	12,38	12,4	12,35	12,28	12,25	12,29	12,47	12,84		
30	13,15	13,1	12,95	12,77	12,59	12,47	12,46	12,62	12,99	
35	14,21	14,14	13,95	13,7	13,44	13,21	13,07	13,07	13,26	
40	15,42	15,39	15,22	14,96	14,66	14,38	14,16	14,06	14,13	14,41
45		16,72	16,62	16,41	16,13	15,85	15,61	15,46	15,46	15,65
50			18,03	17,92	17,72	17,5	17,29	17,15	17,13	17,29
55				19,36	19,3	19,19	19,07	18,99	19,01	19,19
60					20,74	20,79	20,81	20,86	20,98	21,22
65						22,19	22,4	22,62	22,89	23,26

Mass Flow (Kg/h)

Tc \ Te	-25	-20	-15	-10	-5	0	5	10	15	20
25	232,96	300,52	368,25	441,03	523,72	621,2	738,34	880,03		
30	219,2	287,71	355,21	426,57	506,67	600,38	712,58	848,14	1011,94	
35	210,86	281,61	350,17	421,42	500,23	591,47	700,01	830,74	988,53	
40	203,53	277,83	348,75	421,18	499,99	590,05	696,24	823,44	976,52	1160,35
45		271,96	346,54	421,45	501,56	591,74	696,87	821,83	971,49	1150,73
50			339,16	417,84	500,54	592,14	697,51	821,52	969,06	1145
55				405,95	492,54	586,85	693,75	818,12	964,84	1138,77
60					473,16	571,48	681,21	807,23	954,42	1127,65
65						541,63	655,49	784,46	933,41	1107,23