

Invotech Selection Software

REFRIGERANT R407C

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: YW110T2-100

PERFORMANCE AT SPECIFIED OPERATING POINT

Capacity (KW)	14,11
Power Input (KW)	3,61
COP	3,91
Current (A)	16,4

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Length/Width/Height (mm)	239/239/418
Weight (kg)	33
Stub Suction (inch)	7/8
Stub Discharge (inch)	1/2
Base mounting (hole dia)	190X190(8.5)
Oil type	POE
Initial charge of oil quantity (L)	1.4
Recharge of oil quantity (L)	1.25
High Side PS Max., (MPa)	3.0
Low Side PS Max., (MPa)	2.0
Displacement(m ³ /h)	11.8

COMPRESSOR ELECTRICAL DATA

Electricity	220V/50Hz/1P
Standard Conditions	5/55/11.1/8.3
Normal Power (HP)	4
Normal Capacity (W)	14650
Normal Power input (W)	3900
Normal COP (W/W)	3.76
Normal Current (A)	18.5
Locked Rotor Current (A)	109
Maximum operating current (A)	30.5

Model: YW110T2-100

Refrigerant: R407C

Suction Superheat: 10,0

Liquid subcooling: 0,0

Capacity (KW)

Tc \ Te	-20	-15	-10	-5	0	5	10	15		
20	7,08	8,41	9,94	11,7	13,72					
25	6,99	8,29	9,77	11,47	13,4					
30	6,93	8,18	9,62	11,26	13,13	15,25				
35	6,88	8,1	9,5	11,07	12,88	14,93	17,26			
40	6,86	8,04	9,39	10,91	12,66	14,64	16,88	19,41		
45	6,84	8	9,3	10,78	12,46	14,37	16,51	18,96		
50	6,83	7,96	9,22	10,66	12,28	14,11	16,19	18,53		
55		7,92	9,16	10,55	12,1	13,88	15,86	18,13		
60			9,09	10,43	11,94	13,65	15,57	17,74		
65				10,33	11,78	13,42	15,27	17,36		
70					11,61	13,19	14,98	16,98		

Power Input (KW)

Tc \ Te	-20	-15	-10	-5	0	5	10	15		
20	1,85	1,94	2,03	2,15	2,32					
25	2,02	2,11	2,2	2,3	2,43					
30	2,19	2,29	2,38	2,47	2,58	2,73				
35	2,36	2,48	2,58	2,66	2,76	2,89	3,07			
40	2,54	2,68	2,79	2,88	2,98	3,09	3,24	3,44		
45	2,72	2,9	3,03	3,13	3,23	3,33	3,45	3,63		
50	2,91	3,12	3,28	3,41	3,51	3,61	3,72	3,87		
55		3,36	3,56	3,71	3,82	3,93	4,03	4,17		
60			3,85	4,03	4,17	4,29	4,4	4,52		
65				4,39	4,55	4,69	4,81	4,93		
70					4,97	5,13	5,27	5,39		

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Current (A)

T _c \ T _e	-20	-15	-10	-5	0	5	10	15		
20	8,98	9,29	9,64	10,1	10,75					
25	9,56	9,91	10,24	10,64	11,19					
30	10,19	10,61	10,96	11,33	11,8	12,46				
35	10,88	11,39	11,79	12,16	12,59	13,15	13,92			
40	11,62	12,25	12,73	13,13	13,54	14,03	14,7	15,61		
45	12,4	13,2	13,78	14,24	14,66	15,12	15,7	16,48		
50	13,24	14,21	14,94	15,49	15,95	16,4	16,92	17,6		
55		15,31	16,2	16,87	17,4	17,87	18,37	18,98		
60			17,55	18,37	19,01	19,53	20,04	20,6		
65				20,01	20,77	21,38	21,92	22,46		
70					22,69	23,41	24,01	24,57		

Mass Flow (Kg/h)

T _c \ T _e	-20	-15	-10	-5	0	5	10	15		
20	114,85	139,47	168,1	200,74	237,37					
25	114,03	138,12	166,28	198,51	234,82					
30	113,44	137,07	164,84	196,74	232,79	272,96				
35	112,79	136,03	163,49	195,15	231,02	271,08	315,34			
40	111,8	134,75	161,97	193,46	229,23	269,26	313,55	362,1		
45	110,22	132,94	160	191,4	227,14	267,22	311,62	360,35		
50	107,75	130,32	157,31	188,7	224,49	264,69	309,28	358,26		
55		126,64	153,62	185,07	221	261,39	306,25	355,57		
60			148,66	180,25	216,39	257,06	302,26	351,99		
65				173,97	210,39	251,42	297,04	347,26		
70					202,72	244,18	290,31	341,09		