

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: YW75T2-102

PERFORMANCE AT SPECIFIED OPERATING POINT

Capacity (KW)	9,74
Power Input (KW)	2,58
COP	3,77
Current (A)	11,75

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Length/Width/Height (mm)	239/239/418
Weight (kg)	31
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)	8.1

COMPRESSOR ELECTRICAL DATA

Electricity	220V/50Hz/1P
Standard Conditions	5/55/11.1/8.3
Normal Power (HP)	3
Normal Capacity (W)	10000
Normal Power input (W)	2740
Normal COP (W/W)	3.65
Normal Current (A)	12.7
Locked Rotor Current (A)	76
Maximum operating current (A)	20.7

Model: YW75T2-102

Refrigerant: R407C

Suction Superheat: 10,0

Liquid subcooling: 0,0

Capacity (KW)

Tc \ Te	-20	-15	-10	-5	0	5	10	15		
20	4,89	5,8	6,85	8,05	9,43					
25	4,84	5,72	6,73	7,9	9,22					
30	4,8	5,66	6,64	7,76	9,04	10,5				
35	4,77	5,62	6,57	7,65	8,88	10,28	11,88			
40	4,76	5,58	6,5	7,55	8,73	10,08	11,62	13,35		
45	4,76	5,56	6,45	7,46	8,61	9,9	11,38	13,05		
50	4,75	5,54	6,4	7,38	8,49	9,74	11,16	12,77		
55		5,52	6,37	7,31	8,39	9,59	10,96	12,5		
60			6,33	7,25	8,29	9,45	10,77	12,25		
65				7,19	8,19	9,31	10,57	12		
70					8,09	9,18	10,39	11,76		

Power Input (KW)

Tc \ Te	-20	-15	-10	-5	0	5	10	15		
20	1,33	1,39	1,46	1,54	1,66					
25	1,45	1,51	1,57	1,65	1,74					
30	1,57	1,64	1,7	1,77	1,85	1,96				
35	1,69	1,78	1,85	1,91	1,98	2,07	2,2			
40	1,82	1,92	2	2,07	2,13	2,21	2,32	2,46		
45	1,95	2,08	2,17	2,24	2,31	2,38	2,47	2,6		
50	2,08	2,24	2,35	2,44	2,51	2,58	2,66	2,77		
55		2,41	2,55	2,65	2,74	2,81	2,89	2,98		
60			2,76	2,89	2,99	3,07	3,15	3,24		
65				3,14	3,26	3,36	3,44	3,53		
70					3,56	3,68	3,77	3,86		

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Current (A)

Tc \ Te	-20	-15	-10	-5	0	5	10	15		
20	6,44	6,66	6,9	7,23	7,7					
25	6,85	7,1	7,34	7,62	8,02					
30	7,3	7,6	7,85	8,12	8,45	8,92				
35	7,79	8,16	8,45	8,71	9,02	9,42	9,97			
40	8,32	8,78	9,12	9,41	9,7	10,05	10,53	11,18		
45	8,89	9,45	9,87	10,2	10,5	10,83	11,25	11,81		
50	9,48	10,18	10,7	11,1	11,43	11,75	12,12	12,61		
55		10,96	11,6	12,08	12,46	12,8	13,16	13,59		
60			12,58	13,16	13,62	13,99	14,35	14,76		
65				14,33	14,88	15,32	15,7	16,09		
70					16,25	16,77	17,2	17,6		

Mass Flow (Kg/h)

Tc \ Te	-20	-15	-10	-5	0	5	10	15		
20	78,3	95,09	114,61	136,87	161,85					
25	77,75	94,17	113,37	135,35	160,1					
30	77,34	93,45	112,39	134,14	158,72	186,11				
35	76,9	92,75	111,47	133,06	157,51	184,83	215			
40	76,23	91,87	110,43	131,91	156,29	183,58	213,78	246,89		
45	75,15	90,64	109,09	130,5	154,87	182,19	212,47	245,69		
50	73,47	88,86	107,26	128,66	153,06	180,47	210,87	244,27		
55		86,34	104,74	126,19	150,68	178,22	208,81	242,43		
60			101,36	122,9	147,54	175,27	206,09	240		
65				118,61	143,45	171,42	202,53	236,77		
70					138,22	166,49	197,94	232,56		