

Invotech Selection Software

REFRIGERANT R134a

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: YW240J1-100

PERFORMANCE AT SPECIFIED OPERATING POINT

Capacity (KW)	26,4
Power Input (KW)	6,22
COP	4,24
Current (A)	13,82

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Length/Width/Height (mm)	260/244/508
Weight (kg)	54
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
Recharge of oil quantity (L)	2.8
High Side PS Max., (MPa)	3.0
Low Side PS Max., (MPa)	2.0
Displacement(m ³ /h)	32.9

COMPRESSOR ELECTRICAL DATA

Electricity	380V/50Hz/3P
Standard Conditions	5/55/11.1/8.3
Normal Power (HP)	12
Normal Capacity (W)	29220
Normal Power input (W)	6720
Normal COP (W/W)	4.35
Normal Current (A)	12.5
Locked Rotor Current (A)	121
Maximum operating current (A)	24

Model: YW240J1-100

Refrigerant: R134a

Suction Superheat: 10,0

Liquid subcooling: 0,0

Capacity (KW)

Tc \ Te	-15	-10	-5	0	5	10	15	20	25	
30	14,04	16,87	20,55	25,18	30,84	37,6				
35	14,06	16,67	20,07	24,35	29,59	35,85	43,22			
40	14,03	16,46	19,63	23,59	28,43	34,22	41,05	49,01	58,16	
45	13,95	16,25	19,2	22,88	27,36	32,73	39,06	46,44	54,93	
50	13,85	16,05	18,82	22,25	26,4	31,38	37,24	44,08	51,96	
55	13,71	15,85	18,48	21,69	25,56	30,17	35,6	41,93	49,23	
60	13,58	15,67	18,19	21,23	24,84	29,12	34,16	40,01	46,77	
65	13,43	15,52	17,96	20,85	24,25	28,23	32,91	38,32	44,57	
70	13,26	15,39	17,8	20,57	23,79	27,53	31,85	36,87	42,64	
75	13,11	15,31	17,71	20,41	23,47	26,98	31,02	35,66	40,99	
80			17,71	20,36	23,31	26,63	30,41	34,71	39,63	
85					23,3	26,47	30,01	34,02	38,56	

Power Input (KW)

Tc \ Te	-15	-10	-5	0	5	10	15	20	25	
30	3,71	3,96	4,15	4,27	4,32	4,29				
35	4,02	4,31	4,55	4,75	4,89	4,95	4,93			
40	4,3	4,61	4,91	5,16	5,37	5,52	5,6	5,61	5,53	
45	4,57	4,91	5,23	5,53	5,8	6,03	6,2	6,31	6,34	
50	4,89	5,23	5,57	5,91	6,22	6,51	6,76	6,96	7,1	
55	5,27	5,61	5,96	6,31	6,66	7	7,31	7,59	7,82	
60	5,77	6,08	6,42	6,79	7,16	7,53	7,9	8,24	8,55	
65	6,4	6,68	7	7,36	7,75	8,14	8,55	8,94	9,32	
70	7,2	7,43	7,73	8,07	8,46	8,87	9,29	9,73	10,16	
75	8,21	8,39	8,64	8,96	9,32	9,73	10,18	10,64	11,11	
80			9,77	10,05	10,39	10,78	11,23	11,7	12,21	
85					11,68	12,05	12,48	12,96	13,48	

Model: YW240J1-100
 Suction Superheat: 10,0

Refrigerant: R134a
 Liquid subcooling: 0,0

Current (A)

Tc \ Te	-15	-10	-5	0	5	10	15	20	25
30	11,23	11,48	11,63	11,64	11,52	11,22			
35	11,47	11,82	12,08	12,24	12,28	12,17	11,91		
40	11,66	12,07	12,42	12,69	12,87	12,94	12,87	12,64	12,24
45	11,83	12,28	12,7	13,07	13,37	13,58	13,67	13,64	13,46
50	12,06	12,53	13	13,43	13,82	14,15	14,39	14,52	14,53
55	12,41	12,87	13,36	13,84	14,3	14,71	15,07	15,35	15,53
60	12,93	13,37	13,84	14,34	14,85	15,33	15,79	16,19	16,51
65	13,69	14,07	14,52	15,01	15,54	16,07	16,59	17,09	17,53
70	14,75	15,05	15,44	15,91	16,43	16,98	17,55	18,12	18,66
75	16,16	16,36	16,67	17,08	17,58	18,13	18,72	19,33	19,94
80			18,27	18,61	19,04	19,57	20,16	20,79	21,45
85					20,89	21,37	21,93	22,56	23,25

Mass Flow (Kg/h)

Tc \ Te	-15	-10	-5	0	5	10	15	20	25
30	239,98	297,48	361,6	434,39	517,91	614,21			
35	239,06	297,31	362,17	435,71	519,98	617,02	728,91		
40	236,57	295,28	360,6	434,59	519,3	616,8	729,13	858,36	1006,53
45	233,06	291,92	357,4	431,55	516,43	614,08	726,57	855,95	1004,27
50	229,05	287,78	353,13	427,14	511,87	609,39	721,74	850,98	999,16
55	225,08	283,38	348,3	421,88	506,18	603,26	715,18	843,98	991,73
60	221,68	279,26	343,45	416,3	499,88	596,23	707,41	835,49	982,5
65	219,39	275,94	339,11	410,94	493,49	588,83	698,99	826,04	972,03
70	218,72	273,96	335,81	406,33	487,57	581,58	690,43	816,15	960,82
75	220,23	273,86	334,1	403,01	482,63	575,03	682,26	806,38	949,43
80			334,49	401,49	479,21	569,71	675,03	797,23	938,38
85					477,85	566,14	669,26	789,26	928,2