

Technische Daten - RAS 601-2002 F Kp

RAS F		601	801	1301	1601	1701	2002
Cooling capacity							
Cooling capacity	kW	52,7	72	105,1	139	159	177,5
Absorbed power	kW	15,8	22,1	32,6	46,8	51,8	55,1
Cooling Capacity in Free-cooling 1)	kW	30,9	37,1	63,9	66,6	63,8	100,5
EER Gross		3,34	3,26	3,22	2,97	3,07	3,22
EER NET		2,88	2,93	2,80	2,69	2,80	2,84
ESEER		3,45	3,38	3,35	3,08	3,14	3,42
Compressors							
Quantity	n	1	1	1	1	1	2
Standard steps capacity	n	1	1	1	1	1	2
Circuits	n	1	1	1	1	1	2
Maximum absorbed current	A	36,9	47	89,3	103,3	111,2	122
Inrush current	A	203	239	367	548	584	273
Axial fans							
Quantity	n	1	1	2	2	2	3
Rotation speed	rpm	885	885	885	885	885	885
Motors power	kW	2,48	2,48	4,96	4,96	4,96	7,44
Total air flow	m ³ /h	25770	23300	51540	48860	45780	81450
Nominal absorbed current	A	5,2	5,2	10,3	10,3	10,3	15,5
Evaporator							
Quantity	n	1	1	1	1	1	1
Water flow rate	m ³ /h	11	15	23,4	28,6	32,4	36,5
Pressure drop	kPa	113	80	127	142	101	100
Pump Group P1							
Available pressure	kPa	118	146	128	92	98	90
Motor power	kW	3	3	4	4	4	4
Absorbed current	A	6,3	6,3	8,5	8,5	8,5	8,5
Weight	Kg	35	35	41	41	41	44
Pump Group P1H							
Available pressure	kPa	204	231	210	181	211	177
Motor power	kW	4	4	5,5	5,5	5,5	9,2
Absorbed current	A	8,5	8,5	12,1	12,1	12,1	18,3
Weight	Kg	55	55	50	50	50	75
Pump Group P2							
Available pressure	kPa	118	146	128	92	98	90
Motor power	kW	3	3	4	4	4	4
Absorbed current	A	6,3	6,3	8,5	8,5	8,5	8,5
Weight	Kg	70	70	82	82	82	88
Pump Group P2H							
Available pressure	kPa	204	231	210	181	211	177
Motor power	kW	4	4	5,5	5,5	5,5	9,2
Absorbed current	A	8,5	8,5	12,1	12,1	12,1	18,3
Weight	Kg	110	110	100	100	100	150
Hydraulik kit							
Buffer tank water volume	l	100	100	200	200	200	300
Electrical data							
Total absorbed power	kW	18,28	24,58	37,56	51,76	56,76	62,54
Total nominal absorbed current	A	35,5	43,1	67,5	96,1	105,1	109,6
Maximum absorbed current	A	42,1	52,2	99,6	113,6	121,5	137,5
Total inrush current	A	208,2	244,2	377,3	558,3	594,3	288,5
Sound pressure level							
Sound pressure level 2)	dB(A)	67,9	70,3	71,6	73,5	74,5	73
Dimensions							
Length	mm	1730	1730	2770	2770	2770	3810
Width	mm	1370	1370	1370	1370	1370	1370
Height	mm	2420	2420	2420	2420	2420	2420
Transport weight 3)	kg	998	1095	1362	1520	1585	1964
Weight in operation	kg	1138	1235	1612	1770	1835	2344
Refrigerant charge for each circuit	kg	4	6	8	12	16	12
Power supply							
Power supply	V / ph / Hz	400 V / 50Hz / 3Ph + N + T					

NOTES

Nominal condition referred to: air 35 °C - chilled water 7/12 °C.

1) For free-cooling work mode: air 3 °C - unit's inlet fluid 12° C - glycol 20%

2) Measured at 1 m in open field (ISO 3746) with air suction and air discharge in ducts.

LIQUID CHILLERS - AIR COOLED

Technische Daten - RAS 2302-4304 F Kp

RAS F		2302	2502	2802	3302	3502	4304
Cooling capacity							
Cooling capacity	kW	208,1	225,2	254,2	298,2	317,7	387,3
Absorbed power	kW	66,2	76,6	88,1	100,5	103,7	137,2
Cooling Capacity in Free-cooling 1)	kW	100,2	102	101,6	135,1	134,1	145,7
EER Gross		3,14	2,94	2,89	2,97	3,06	2,82
EER NET		2,83	2,68	2,66	2,70	2,80	2,63
ESEER		3,62	3,22	3,22	3,26	3,28	3,6
Compressors							
Quantity	n	2	2	2	2	2	4
Standard steps capacity	n	2	2	2	2	2	4
Circuits	n	2	2	2	2	2	4
Maximum absorbed current	A	149,2	178,6	199,6	215,8	222,4	298,4
Inrush current	A	321	367	455	548	584	584
Axial fans							
Quantity	n	3	3	3	4	4	4
Rotation speed	rpm	885	885	885	885	885	885
Motors power	kW	7,44	7,44	7,44	9,92	9,92	9,92
Total air flow	m ³ /h	73410	73410	68460	97120	92800	95680
Nominal absorbed current	A	15,5	15,5	15,5	20,6	20,6	20,6
Evaporator							
Quantity	n	1	1	1	1	1	2
Water flow rate	m ³ /h	42,8	46,3	52,1	61,8	64,9	80,1
Pressure drop	kPa	113	124	139	138	148	103
Pump Group P1							
Available pressure	kPa	101	89	126	119	105	115
Motor power	kW	7,5	7,5	9,2	9,2	9,2	11
Absorbed current	A	14,2	14,2	18,3	18,3	18,3	22,3
Weight	Kg	58	58	75	75	75	88
Pump Group P1H							
Available pressure	kPa	159	209	190	225	211	240
Motor power	kW	9,2	11	11	15	15	15
Absorbed current	A	18,3	22,3	22,3	27,6	27,6	27,6
Weight	Kg	75	81	81	93	93	93
Pump Group P2							
Available pressure	kPa	101	89	126	119	105	115
Motor power	kW	7,5	7,5	9,2	9,2	9,2	11
Absorbed current	A	14,2	14,2	18,3	18,3	18,3	22,3
Weight	Kg	116	116	150	150	150	176
Pump Group P2H							
Available pressure	kPa	159	209	190	225	211	240
Motor power	kW	9,2	11	11	15	15	15
Absorbed current	A	18,3	22,3	22,3	27,6	27,6	27,6
Weight	Kg	150	162	162	186	186	186
Hydraulik kit							
Buffer tank water volume	l	300	300	300	800	800	800
Electrical data							
Total absorbed power	kW	73,64	84,04	95,54	110,42	113,62	147,12
Total nominal absorbed current	A	131,3	150,9	172,5	205,6	210	260,4
Maximum absorbed current	A	164,7	194,1	215,1	236,4	243	319
Total inrush current	A	336,5	382,5	470,5	568,6	604,6	604,6
Sound pressure level							
Sound pressure level 2)	dB(A)	73	74,9	75,4	75,9	76,9	76,6
Dimensions							
Length	mm	3810	3810	3810	4850	4850	5890
Width	mm	1370	1370	1370	1370	1370	1370
Height	mm	2420	2420	2420	2420	2420	2420
Transport weight 3)	kg	2070	2202	2319	2605	2726	3361
Weight in operation	kg	2450	2582	2699	3550	3671	4306
Refrigerant charge for each circuit	kg	18	18	25	24	33	31
Power supply							
Power supply	V / ph / Hz	400 V/ 50Hz / 3Ph + N + T					

NOTES
Nominal condition referred to: air 35 °C - chilled water 7/12 °C.

1) For free-cooling work mode: air 3 °C - unit's inlet fluid 12° C - glycol 20%

2) Measured at 1 m in open field (ISO 3746) with air suction and air discharge in ducts.