EUROKLIMAT
Cooling System Solutions

RKO.E 2S 2019		302 S	402 S	502 S	602 S	702 S	802 S	1002 S	1102 S	1402 S	1502 S
COOLING											
Cooling capacity [1]	**[kW]**	**70,9**	**78,8**	**100,4**	**114,5**	**141,1**	**166,6**	**195,8**	**227,8**	**268,9**	**288,7**
Cooling capacity [1] (EN 14511 VALUE)	[kW]	70,6	78,5	100,0	114,1	140,6	166,0	195,1	227,0	268,0	287,9
Total compressors power input (1)	[kW]	21,3	24,8	29,7	35,6	43,3	52,6	63,1	74,2	86,2	94,0
EER - Energy Efficiency Ratio	-	**2,99**	**2,90**	**3,05**	**2,95**	**3,06**	**2,89**	**2,81**	**2,74**	**2,79**	**2,77**
Saved CO2 equivalent Ton (*)	Ton	20.400	21.290	40.800	44.350	60.320	70.960	78.060	92.320	106.440	111.760
"Ecodesign" compliance for comfort application (SEER)	-	√	√	√	√	√	√	√	√	√	√
DESUPERHEATER (option)											
Heating capacity [2]	**[kW]**	**18,9**	**21,0**	**26,8**	**30,6**	**37,7**	**44,5**	**52,3**	**55,8**	**71,9**	**77,2**
Water flow	[m^3/h]	3,3	3,7	4,7	5,3	6,6	7,8	9,1	6,9	12,5	13,4
Pressure drop (water side)	[kPa]	33	35	29	31	30	26	28	32	34	38
REFRIGERANT CIRCUIT											
Refrigerant	-	R290	R290	R290	R290	R290	R290	R290	R290	R290	R290
Independent gas circuits	[n°]	2	2	2	2	2	2	2	2	2	2
Compressors type	-	Semihermetic reciprocating									
Compressors quantity	[n°]	2	2	2	2	2	2	2	2	2	2
Steps of capacity	-	4	4	4	4	6	6	6	6	6	6
Fans type	-	Axial (AC)	Axial (AC)	Axial (AC)	Axial (AC)	Axial (AC)	Axial (AC)	Axial (AC)	Axial (AC)	Axial (AC)	Axial (AC)
Fans quantity	[n°]	3	3	4	4	4	3	4	5	6	6
Fans power input [1] (total)	[kW]	2,4	2,4	3,2	3,2	2,8	5,0	6,6	8,8	10,2	10,2
Total air flow	[m^3/h]	28.400	35.300	37.500	45.000	50.000	58.500	80.000	92.000	114.000	114.000
Evaporator water flow [1]	[m^3/h]	12,2	13,5	17,2	19,6	24,2	28,6	33,6	33,6	46,1	49,5
Evaporator pressure drop [1]	[kPa]	25	19	30	26	29	31	35	35	35	30
HYDRONIC KIT - 100 kPa useful head (option)											
Buffer tank capacity	[L]	160	160	290	290	290	460	460	460	460	460
Pump type	-	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Pump motor nominal power	[kW]	0,9	1,5	1,5	2,2	2,2	2,2	2,2	3	3	4
Electrical data											
Power supply	-	400V/3ph/50Hz + 230V/1ph/50Hz (for gas detector)									
Maximum power input without pump	[kW]	32,4	37,6	42,6	51,0	62,2	74,4	91,4	97,5	123,0	134,0
Locked rotor current – LRA without pump	[A]	151	177,3	246,9	275	300	346	412	435	675	716
Maximum absorbed current - FLA without pump	[A]	62,6	77,0	80,8	95,0	115,0	134,0	166,0	205,0	230,0	240,0
Noise levels [3]											
Total sound power - ST version	[dB(A)]	93	93	95	95	95	97	98	100	102	102
Total sound pressure - ST version	[dB(A)]	61	61	63	63	63	65	66	68	69	69
Total sound power - LN version	[dB(A)]	90	90	92	92	93	95	95	97	99	99
Total sound pressure - LN version	[dB(A)]	58	58	60	60	60	62	63	65	66	66
DIMENSIONS AND WEIGHT - Base Solution											
Lenght	[mm]	3.030	3.030	3.970	3.970	4.250	4.250	5.450	5.450	5.250	5.250
Width	[mm]	990	990	990	990	1.150	1.150	1.500	1.500	2.000	2.000
Height (ST - LN)	[mm]	2.155	2.155	2.215	2.215	2.135	2.135	2.300	2.300	2.250	2.250
Shipping weight	[Kg]	1.200	1.250	1.800	1.900	2.000	2.050	2.300	2.420	2.700	2.750
DIMENSIONS AND WEIGHT - Integrata Solution											
Lenght	[mm]	3.030	3.030	3.970	3.970	5.050	5.050	5.450	5.450	5.250	5.250
Width	[mm]	990	990	990	990	1.150	1.150	1.500	1.500	2.000	2.000
Height (ST - LN)	[mm]	2.155	2.155	2.215	2.215	2.135	2.135	2.300	2.300	2.250	2.250
Shipping weight	[Kg]	1.260	1.310	1.890	1.990	2.200	2.250	2.400	2.550	2.820	2.870

Reference conditions:

(1) Condenser air intake temperature = 35°C - Evaporator water temperature IN/OUT = 12/7°C - Fluid: pure water - Condensing coil: Cu/Al

(2) Plate heat exchanger water temp. IN/OUT = 40/45°C - Condenser air intake temperature = 35°C - Evaporator water temperature IN/OUT = 12/7°C - Fluid: pure water - Condensing coil: Cu/Al

(1) - (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).

(3) Sound power level in compliance with ISO 3744 - Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

(*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant