

EUROKLIMAT RAK.W R410A 2023		30-1-1	35-1-1	50-1-1	60-2-1	70-2-1	105-2-1	135-2-1	170-2-1	210-4-2	270-4-2
HEATING 40/45 °C											
Heating capacity ⁽¹⁾	[kW]	28,1	32,9	48,3	56	66,2	97,2	124	157	194	251
Total power input ⁽¹⁾	[kW]	7,01	8,2	12,2	14,3	16,4	24,5	30,8	39,3	49,7	61,2
COP - Coefficient Of Performance ⁽¹⁾	-	4,01	4,01	3,96	3,92	4,04	3,97	4,03	3,99	3,90	4,10
Condenser water flow ⁽¹⁾	[m ³ /h]	4,9	5,7	8,4	9,7	11,5	16,8	21,5	27,2	33,6	43,5
Condenser pressure drop ⁽¹⁾	[kPa]	18,8	20,5	26,5	34,5	20,5	27,4	28,0	31,9	34,0	25,3
Evaporator water flow ⁽¹⁾	[m ³ /h]	6,1	7,1	10,4	12,1	14,4	21,0	27,1	34,0	41,9	54,8
Evaporator pressure drop ⁽¹⁾	[kPa]	34,8	34,2	37,0	36,8	41,8	52,1	68,2	67,9	79,7	66,0
SCOP LT / SCOP MT	-	4,648/3,551	4,650/3,548	4,537/3,510	5,799/4,476	5,977/4,580	5,870/4,524	6,117/4,668	6,000/4,610	6,032/4,718	6,470/4,982
$\eta_{s,h,LT} / \eta_{s,h,MT}$	[%]	177,9/134	178/133,9	173,5/132,4	224/171,1	231,1/175,2	226,8/173	236,7/178,7	232/176,4	233,3/180,7	250,8/191,3
COOLING 12/7 °C											
Cooling capacity ⁽²⁾	[kW]	24,3	28,4	41,6	48,1	57,4	84	108	136	167	219
Total power input ⁽²⁾	[kW]	5,82	6,8	10,2	11,9	13,6	20,6	25,4	32,6	41,6	50,5
EER - Energy Efficiency Ratio ⁽²⁾	-	12,02	14,07	21,24	24,24	28,16	42,56	45,31	58,23	85,45	90,52
Condenser water flow ⁽²⁾	[m ³ /h]	5,2	6,1	8,9	10,3	12,2	18,0	23,0	29,0	35,9	46,5
Condenser pressure drop ⁽²⁾	[kPa]	22,0	24,0	31,0	40,3	24,0	32,3	32,9	37,4	40,0	29,8
Evaporator water flow ⁽²⁾	[m ³ /h]	4,2	4,9	7,2	8,3	9,9	14,5	18,6	23,4	28,8	37,8
Evaporator pressure drop ⁽²⁾	[kPa]	17,7	17,3	18,7	18,8	21,3	26,5	34,7	34,6	40,6	33,8
REFRIGERANT CIRCUIT											
Refrigerant / GWP	-	R410A / 2088									
Charge of refrigerant - Base unit	[kg]	2,4	2,8	4,2	4,6	5,6	5,8	7,4	7,7	7,5 x 2	11,2 x 2
Independent gas circuits	[n°]	1								2	
Compressors quantity / Compressors type	[n°]	1 / Scroll				2 / Scroll				4 / Scroll	
Expansion valve type	-	Electronic									
Electrical data											
Power supply	-	400/3/50									
Maximum power input without pump	[kW]	10,0	11,6	17,0	20,0	23,2	34,0	43,2	54,2	68,0	86,4
Maximum absorbed current - MRA without pump	[A]	18,2	21,6	34,0	36,4	43,2	68,0	73,4	97,4	136,0	146,8
Locked rotor current – LRA without pump	[A]	128,0	139,0	174,0	146,2	160,6	208,0	276,7	335,7	276,0	350,1
Water connections											
Condenser dimension (nominal external diameter)	[inch/DN]	1" (DN 25)	1" 1/4 (DN 32)	1" 1/2 (DN 40)	1" 1/2 (DN 40)	1" 1/2 (DN 40)	2" (DN 50)	2" 1/2 (DN 65)	2" 1/2 (DN 65)	3" (DN 80)	3" (DN 80)
Evaporator dimension (nominal external diameter)	[inch/DN]	1" (DN 25)	1" (DN 25)	1" 1/4 (DN 32)	1" 1/4 (DN 32)	1" 1/2 (DN 40)	2" (DN 50)	2" (DN 50)	2" 1/2 (DN 65)	2" 1/2 (DN 65)	3" (DN 80)
DIMENSIONS AND WEIGHTS - Standard unit											
Length	[mm]	1155	1155	1155	1905	1905	1905	1905	1905	2820	2820
Width	[mm]	800	800	800	800	800	800	800	800	1200	1200
Height	[mm]	1420	1420	1420	1420	1420	1420	1420	1420	1640	1640
Shipping weight (A BP/ST/AS/BP/OO version)	[kg]	460	470	515	710	720	750	810	935	1045	1145
Noise levels ⁽³⁾											
Total sound power (ST version)	[db(A)]	71	72	77	74	75	80	87	88	83	90
Total sound pressure (ST version) - at 1 m distance	[db(A)]	55	56	61	58	59	64	71	72	65	72
Total sound pressure (ST version) - at 10 m distance	[db(A)]	40	41	46	42	43	48	55	56	51	58
Total sound power (LN version)	[db(A)]	70	71	76	73	74	79	86	87	82	89
Total sound pressure (LN version) - at 1 m distance	[db(A)]	54	55	60	57	58	63	70	71	64	71
Total sound pressure (LN version) - at 10 m distance	[db(A)]	39	40	45	41	42	47	54	55	50	57
Total sound power (SL version)	[db(A)]	68	69	74	71	72	77	84	85	80	87
Total sound pressure (SL version) - at 1 m distance	[db(A)]	52	53	58	55	56	61	68	69	62	69
Total sound pressure (SL version) - at 10 m distance	[db(A)]	37	38	43	39	40	45	52	53	48	55
Reference conditions:											
(1) Condenser fluid temperature IN/OUT = 40/45 °C - Condenser Fluid: water - Evaporator fluid temperature IN/OUT = 10/7 °C - Evaporator Fluid: water - Results according to UNI EN 14511-2022											
(3) Condenser fluid temperature IN/OUT = 30/35 °C - Condenser Fluid: water - Evaporator fluid temperature IN/OUT = 12/7 °C - Evaporator Fluid: water - Results according to UNI EN 14511-2022											