

Product fiche

Heat pump combination heater		Outdoor	EMRQ8AAY1	EMRQ10AAY1	EMRQ12AAY1	EMRQ14AAY1	EMRQ16AAY1
		Indoor	4 x EKHVMYD50ABV1	2 x EKHBROD014AD	2 x EKHBROD016AD	7 x EKHVMYD50ABV1	4 x EKHBROD011AD
		Tank	4 x EKHTS260AC	2 x EKHTS260AC	2 x EKHTS260AC	7 x EKHTS260AC	4 x EKHTS260AC
Indoor unit sound power (*)	[dB(A)]		54	59	60	54	59
Outdoor unit sound power (*)	[dB(A)]		78	78	80	83	84
Water heating	Declared load profile	-	XL	XL	XL	XL	XL
	Energy efficiency class	-	A	A	A	A	A
Space heating	Energy efficiency class 55°C (High temp. app.)	-	A+	A+	A+	A+	A+
Average climate (Design temperature = -10°C)							
Water heating	Water heating energy efficiency (η_{wh})	[%]	93	93	93	84	93
	Annual electricity consumption (AEC)	[kWh]	7251	3626	3626	13959	7251
Space heating	P_{rated} (declared heating capacity) @ -10°C	[kW]	22,4	28,0	33,6	39,2	44,8
	Seasonal space heating efficiency (η_s)	[%]	108	104	103	106	103
	Annual energy consumption	[kWh]	15700	20700	25400	28700	34100
off peak operation function integrated in Heat pump		Y/N	Y	Y	Y	Y	Y
Colder climate (Design temperature = -22°C)							
Water heating	Annual energy consumption	[kWh]	10261	5131	5131	19753	10261
	Seasonal water heating efficiency (η_s)	[%]	66	66	66	59	66
Space heating	P_{rated} (declared heating capacity) @ -22°C	[kW]	25,9	37,9	44,0	53,5	59,0
	Seasonal space heating efficiency (η_s)	[%]	94	84	83	90	84
	Annual energy consumption	[kWh]	25700	41900	50000	56100	66300
Warmer climate (Design temperature = 2°C)							
Water heating	Annual energy consumption	[kWh]	6854	3427	3427	13194	6854
	Seasonal water heating efficiency (η_s)	[%]	98	98	98	89	98
Space heating	P_{rated} (declared heating capacity) @ 2°C	[kW]	19,1	24,0	28,7	32,7	37,6
	Seasonal space heating efficiency (η_s)	[%]	125	109	101	131	112
	Annual energy consumption	[kWh]	6800	10200	13600	11900	16300
Ecodesign technical data							
Product description		Air-to-water heat pump	Y/N	Y	Y	Y	Y
		Water-to-water heat pump	Y/N	N	N	N	N
		Brine-to-water heat pump	Y/N	N	N	N	N
		Low-temperature heat pump	Y/N	N	N	N	N
		Equipped with a supplementary heater	Y/N	N	N	N	N
		Heat pump combination heater	Y/N	Y	Y	Y	Y
Air to water unit	Rated airflow (outdoor)	[m³/h]	5700,0	10260,0	11100,0	11760,0	13980,0
Brine/water to water unit	Rated water/brine flow (outdoor H/E)	[m³/h]	0,0	0,0	0,0	0,0	0,0
Other		Capacity control	-	Yes	Yes	Yes	Yes
	P_{off} (Power consumption Off mode)	[kW]	0,116	0,116	0,116	0,116	0,116
	P_{to} (Power consumption Thermostat off mode)	[kW]	0,126	0,126	0,126	0,126	0,126
	P_{sb} (Power consumption Standby mode)	[kW]	0,116	0,116	0,116	0,116	0,116
	P_{ck} (Power crankcase heater model)	[kW]	0,116	0,116	0,116	0,116	0,116
	Q_{elec} (Daily electricity consumption)	[kWh]	19,9	9,9	9,9	38,2	19,9
	Q_{fuel} (Daily fuel consumption)	[kWh]	0,0	0,0	0,0	0,0	0,0
Part load conditions space heating average climate							
(A) condition (-7°C)	P_{dh} (declared heating capacity)	[kW]	18,7	23,3	27,9	30,8	34,5
	COP_d (declared COP)	-	1,98	1,88	1,86	1,84	1,87
	Cdh (degradation coefficient)	-	1,0	1,0	1,0	1,0	1,0
(B) condition (2°C)	P_{dh} (declared heating capacity)	[kW]	12,5	15,6	18,7	21,9	25,0
	COP_d (declared COP)	-	2,88	2,62	2,51	2,80	2,66
	Cdh (degradation coefficient)	-	1,0	1,0	1,0	1,0	1,0
(C) condition (7°C)	P_{dh} (declared heating capacity)	[kW]	12,9	12,9	12,9	12,9	15,5
	COP_d (declared COP)	-	3,79	3,79	3,79	3,79	3,34
	Cdh (degradation coefficient)	-	1,0	1,0	1,0	1,0	1,0
(D) condition (12°C)	P_{dh} (declared heating capacity)	[kW]	7,4	7,4	7,4	7,4	7,4
	COP_d (declared COP)	-	4,76	4,76	4,76	4,76	4,76
	Cdh (degradation coefficient)	-	0,9	0,9	0,9	0,9	0,9
(E) Tol (temperature operating limit)	Tol (Temperature Operating Limit)	[°C]	-10	-10	-10	-10	-10
	P_{dh} (declared heating capacity)	[kW]	14,4	18,0	21,1	24,1	26,2
	COP_d (declared COP)	-	1,70	1,64	1,63	1,60	1,65
	WTOL (Heating water Operation Limit)	[°C]	55	55	55	55	55
(F) Tivalent temperature	T_{biv}	[°C]	-6	-6	-6	-5	-5
	P_{dh} (declared heating capacity)	[kW]	19,9	24,8	29,7	33,2	37,6
	COP_d (declared COP)	-	2,10	1,99	1,95	1,97	1,95
Capacity of the back-up heater integrated in the unit	P_{sup} back-up heater (@Tdesignh: -10°C)	[kW]	0,0	0,0	0,0	0,0	0,0
Supplementary capacity at P_design	P_{sup} @Tdesignh: -10°C	[kW]	8,0	10,0	12,5	15,2	18,6

Details and precautions on installation, maintenance and assembly can be found in the installation and/or operation manuals.
 Energy labels and product fiches for additional combinations, packages and other products can be found on "energylabel.daikin.eu".
 (*) Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825.
 This data is for comparison of Energy efficiencies according to Energy label directive 2010/30/EC, for correct selection of products for your application, contact your dealer.
 Depending on your application and the product selected an additional supplementary heater may have to be installed.



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DAIKIN EMRQ8AAY1 + 4 x EKHVMYD50ABV1
+ 4 x EKHTS260AC

3P422756-1

Heating: A+
Cooling: A

54 dB(A)
78 dB(A)

25,9 kW
22,4 kW
19,1 kW

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DAIKIN EMRQ10AAY1 + 2 x EKHBRD014AD
+ 2 x EKHTS260AC

3P422756-2

Heating: A+
Cooling: A

59 dB(A)
78 dB(A)

37,9 kW
28,0 kW
24,0 kW

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DAIKIN EMRQ12AAY1 + 2 x EKHBRD016AD
+ 2 x EKHTS260AC


3P422756-3

Heating: A+
Cooling: A

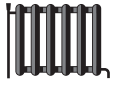

60 dB(A)
80 dB(A)

44,0 kW
33,6 kW
28,7 kW

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DAIKIN EMRQ14AAY1 + 7 x EKHVMYD50ABV1
 + 7 x EKHTS260AC


A++ A+ A+ B C D E F G
A+

A B C D E F G
A

 54 dB(A)
 83 dB(A)




■ 53,5 kW
 ■ 39,2 kW
 ■ 32,7 kW

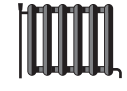



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3P422756-4




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DAIKIN EMRQ16AAY1 + 4 x EKHBRD011AD
 + 4 x EKHTS260AC


A++ A+ A+ B C D E F G
A+

A B C D E F G
A

 59 dB(A)
 84 dB(A)



■ 59,0 kW
 ■ 44,8 kW
 ■ 37,6 kW



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3P422756-5