

Essentō



Silent Mode



On Demand
Defrost



Magic Coil

Comfort and new technologies

ESSENTO is a comprehensive and high-quality solution with R32 refrigerant, offering A++/A+ cooling and heating performance, leading to real energy savings and comfort all year round.



FEATURES



Silent CDU Mode (outdoor unit) that reduces the noise of the outdoor unit by up to -6dB(A)



Ultra-quiet operation as low as 19dB(A)



On Demand Defrost: In extremely low outdoor temperatures, you can manually defrost the outdoor unit at any time by pressing the SET button for 5 seconds



HI POWER Mode that enables faster cooling or heating operation



Magic Coil innovative, self-cleaning coating of the heat exchanger



Self-Cleaning Mode: Removes moisture from the inside of the air conditioner, preventing mold and bacteria buildup that cause unpleasant odors when the unit starts

TECHNICAL CHARACTERISTICS

PERFORMANCE DATA

OUTDOOR UNIT			RAS-10B2AVG-E2	RAS-13B2AVG-E2	RAS-16B2AVG-E2	RAS-18B2AVG-E2	RAS-24B2AVG-E2
INDOOR UNIT			RAS-B10B2KV2G-E	RAS-B13B2KV2G-E	RAS-B16B2KV2G-E	RAS-B18B2KV2G-E	RAS-B24B2KV2G-E
Cooling capacity	kW		2,50	3,30	4,20	5,00	6,50
Cooling capacity	BTU/H		8.530	11.260	14.330	17.061	22.179
Cooling range (min.-max.)	kW		0,80 - 3,00	1,00 - 3,50	1,10 - 4,70	1,10 - 5,35	1,10 - 7,05
Cooling range (min.-max.)	BTU/H		2.730 - 10.236	3.412 - 11.942	3.753 - 16.037	3.753 - 18.255	3.753 - 24.056
Power input (min.-rated-max.)	kW	C	0,26 - 0,75 - 0,95	0,25 - 1,20 - 1,25	0,28 - 1,40 - 1,70	0,30 - 1,78 - 1,90	0,30 - 2,45 - 2,50
EER	W/W		3.33	2.75	3.00	2.81	2.65
SEER			6.10	6.10	6.10	6.10	6.10
Energy efficiency class		C	A++	A++	A++	A++	A++
Seasonal electricity consumption	kWh/a	C	143	189	241	287	373
Heating capacity	kW		3,20	3,60	5,00	5,40	7,00
Heating capacity	BTU/H		10.919	12.284	17.061	18.426	23.885
Heating range (min.-max.)	kW		0,76 - 3,90	0,76 - 4,30	0,90 - 6,00	1,10 - 6,00	1,20 - 7,90
Heating range (min.-max.)	BTU/H		2.593 - 13.307	2.593 - 14.672	3.071 - 20.473	3.753 - 20.473	4.095 - 26.956
Power input (min.-rated-max.)	kW	H	0,21 - 0,84 - 1,11	0,18 - 1,02 - 1,34	0,22 - 1,45 - 1,90	0,27 - 1,67 - 1,88	0,23 - 2,00 - 2,30
COP	W/W		3.81	3.53	3.45	3.23	3.50
SCOP (average)			4.00	4.00	4.00	4.00	4.00
Energy efficiency class (average)		H	A+	A+	A+	A+	A+
SCOP (warmer)			4.60	4.60	4.60	4.70	4.80
Energy efficiency class (warmer)		H	A++	A++	A++	A++	A++
Seasonal electricity consumption	kWh/a	H	735	805	1.155	1.294	1.539

PHYSICAL DATA INDOOR

INDOOR UNIT			RAS-B10B2KV2G-E	RAS-B13B2KV2G-E	RAS-B16B2KV2G-E	RAS-B18B2KV2G-E	RAS-B24B2KV2G-E
Airflow (h)	m³/h-l/s	C	630 - 175	660 - 184	780 - 217	820 - 228	1.100 - 306
Airflow (l)	m³/h-l/s	C	230 - 64	230 - 64	330 - 92	480 - 133	660 - 183
Sound pressure level (h/q)	dB(A)	C	42/19	43/19	45/22	47/26	48/29
Sound power level (h)	dB(A)	C	55	56	58	60	61
Airflow (h)	m³/h-l/s	H	630 - 175	630 - 175	770 - 214	850 - 236	880 - 245
Airflow (l)	m³/h-l/s	H	230 - 64	230 - 64	340 - 94	500 - 139	730 - 203
Sound pressure level (h/q)	dB(A)	H	41/20	42/20	44/23	48/26	48/29
Sound power level (h)	dB(A)	H	54	55	57	61	61
Dimensions (H×W×D)	mm		288 x 770 x 225	288 x 770 x 225	293 x 798 x 230	293 x 798 x 230	320x1050x250
Weight	Kg		9	9	9	9	13

PHYSICAL DATA OUTDOOR

OUTDOOR UNIT			RAS-10B2AVG-E2	RAS-13B2AVG-E2	RAS-16B2AVG-E2	RAS-18B2AVG-E2	RAS-24B2AVG-E2
Airflow (max)	m³/h-l/s	C	1.800 - 500	1.980 - 550	2.160 - 600	2.160 - 600	2.220 - 617
Sound pressure level (h)	dB(A)	C	49	50	52	52	56
Sound pressure level (silent CDU#2)	dB(A)	C	45	45	45	46	51
Sound power level (h)	dB(A)	C	62	63	65	65	69
Sound power level (silent CDU#2)	dB(A)	C	58	58	58	59	64
Operating range	°C	C	-15 - 46	-15 - 46	-15 - 46	-15 - 46	-15 - 46
Airflow (max)	m³/h-l/s	H	1.800 - 500	1.980 - 550	2.160 - 600	2.160 - 600	2.220 - 617
Sound pressure level (h)	dB(A)	H	51	52	53	53	57
Sound pressure level (silent CDU#2)	dB(A)	H	45	45	47	48	51
Sound power level (h)	dB(A)	H	64	65	66	66	70
Sound power level (silent CDU#2)	dB(A)	H	58	58	60	61	64
Operating range	°C	H	-15 - 24	-15 - 24	-15 - 24	-15 - 24	-15 - 24
Dimensions (H×W×D)	mm		530 x 660 x 240	530 x 660 x 240	550x780x290	550x780x290	550x780x290
Weight	Kg		21	22	26	29	32
Compressor type			DC Rotary	DC Rotary	DC Rotary	DC Rotary	DC Rotary
Flare connections (gas-liquid)			3/8" - 1/4"	3/8" - 1/4"	1/2" - 1/4"	1/2" - 1/4"	1/2" - 1/4"
Minimum pipe length	m		2	2	2	2	2
Maximum pipe length	m		10	10	15	15	15
Maximum height difference	m		8	8	8	8	8
Chargeless pipe length	m		10	10	10	10	10
Refrigerant charging (R-32)	Kg		0,51	0,58	0,68	0,93	1,23
Power supply	V/Hz/Ph		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50

C = Cooling Mode H = Heating Mode



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