

ekkoair
by jeremias

ROOMMASTER

3-in-1 ventilation/heating/cooling unit with
heat and moisture recovery

ROOMMASTER 3-IN-1: VENTILATION & HEATING & COOLING IN ONE STANDALONE UNIT

As a standalone ventilation unit or as a replacement for existing radiators, the ROOMMASTER can be quickly and easily installed on the exterior wall of classrooms, residential and commercial buildings, or hotels.

The ROOMMASTER is a fully functional ventilation system with an optional heating function that can provide the required heat output of the existing radiator and offers an additional cooling option. If no radiator is available or more heat output is required, an additional electric heat exchanger is available upon request.

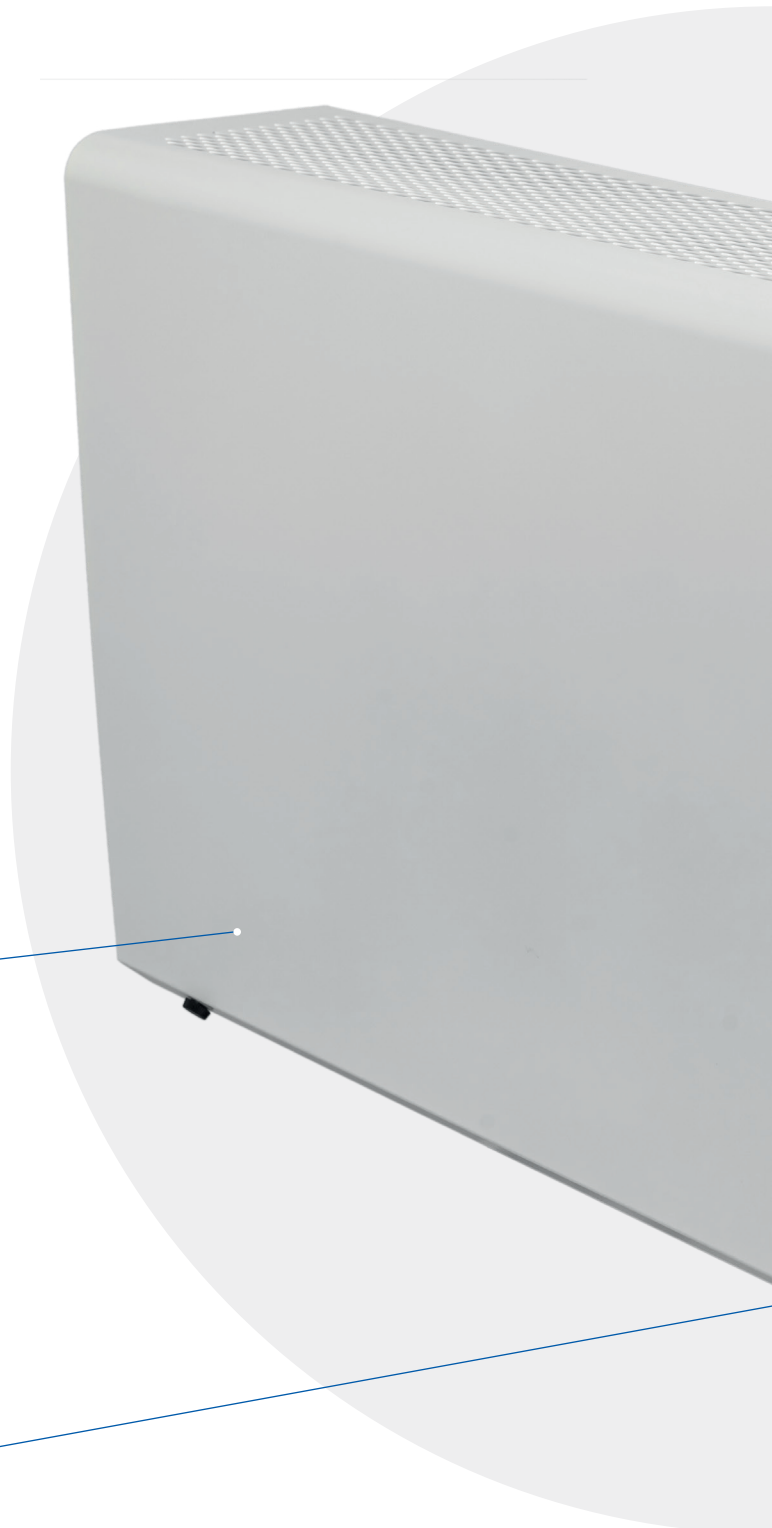
The unit features quiet and energy-saving EC motors, which, together with the highly efficient cross-counterflow heat exchanger, ensure optimal ventilation and extraction at low operating costs.

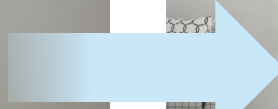
The auxiliary heating is simply controlled via a thermostatic valve, just like the existing radiator. An integrated CO2 sensor and an optional radon sensor automatically control the air flow as needed. The speed of the ventilation fan can be manually limited via the control panel, for example, to reduce noise at night.

REMOVABLE FRONT COVER IN
WHITE OR ANTHRACITE



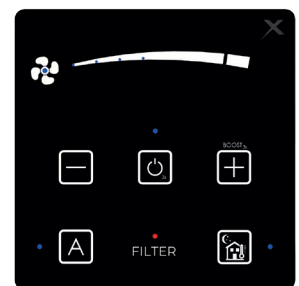
BODY MADE OF BLACK EPP
(EXPANDED POLYPROPYLENE)



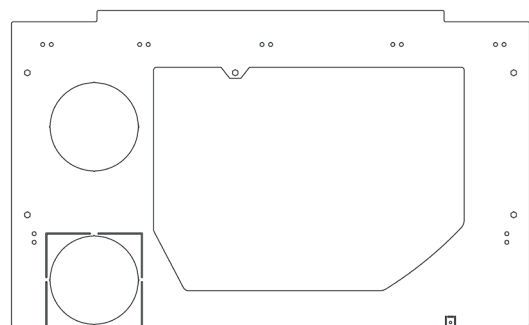


The ROOMMASTER 3-in-1 unit is therefore the ideal replacement for existing radiators – without requiring additional space!

ROOMMASTER is designed as both a ventilation and heating/cooling unit. The ventilation and heating/cooling modes operate independently of each other and can also be used simultaneously. The hot water or electric heating coil does not serve as preheating, but as a standalone integrated heating or cooling system.



INTEGRATED TOUCH PANEL FOR CONTROLLING VENTILATION AND ELECTRICAL HEATING OUTPUT AS WELL AS FOR SELECTING THE OPERATING MODE



THE SUPPLIED METAL MOUNTING PLATE WITH PRE-DRILLED OPENINGS FOR SUPPLY AND EXHAUST AIR AS WELL AS INTEGRATED STUD BOLTS FOR DEVICE SUSPENSION ENSURES EASY INSTALLATION

ROOMMASTER 3-IN-1: VENTILATION & HEATING & COOLING IN ONE STANDALONE UNIT

THE HOT WATER/COOLING WATER COIL IS CONTROLLED BY AN EXTERNAL THERMOSTATIC VALVE. THE (OPTIONAL) ELECTRIC AUXILIARY HEATER, HOWEVER, CAN BE ADJUSTED VIA THE ROOMMASTER CONTROL PANEL.

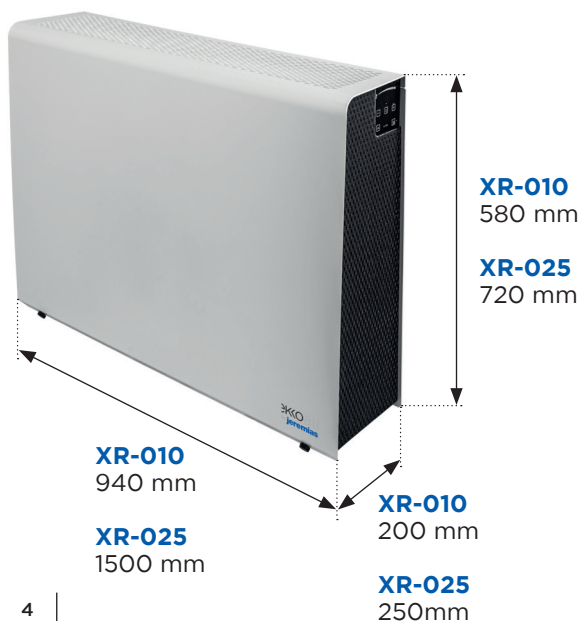
EASY FILTER REPLACEMENT

CROSS-FLOW HEAT EXCHANGER WITH HEAT RECOVERY OR ENTHALPY WITH ADDITIONAL MOISTURE RECOVERY

THE MINI PLEATED FILTERS ARE EASILY ACCESSIBLE. THE UNIT IS SUPPLIED WITH CLASS M5 FILTERS. CLASS F7 FILTERS ARE AVAILABLE AS ACCESSORIES.

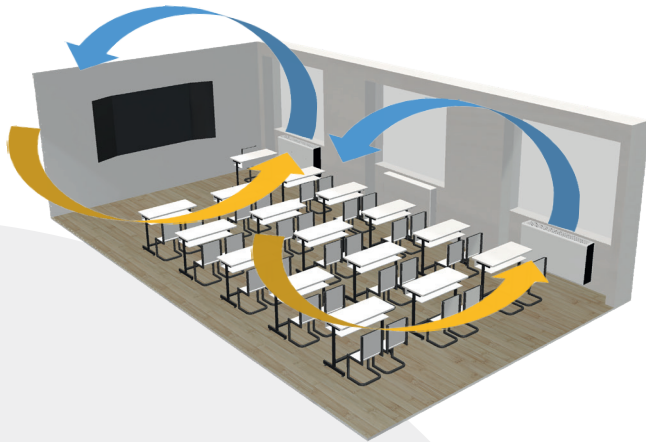
RESET BUTTON FILTER WARNING

BASIC DIMENSIONS





ROOM AIR SCHEME



IN THE OFFICE...
...FOR HIGHER PRODUCTIVITY...



IN LIVING SPACES...
...FOR BETTER AIR QUALITY...



IN SCHOOLS...
...FOR IMPROVED CONCENTRATION...



IN HOSPITALS...
...FRESH AIR WITHOUT OPEN WINDOWS...



IN HOTELS...
...FOR HEALTHIER SLEEP...

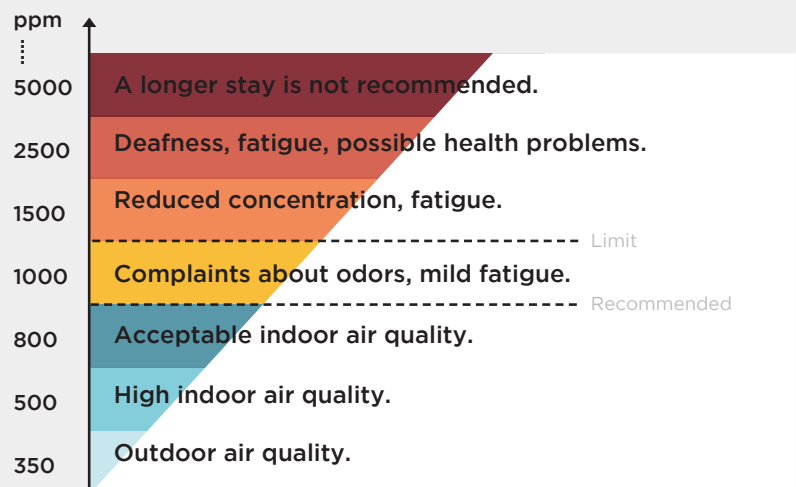


ROOMMASTER

VENTILATION - HEATING - COOLING

THE IMPACT OF CO₂ CONCENTRATION ON HUMANS

The standard integrated CO₂ sensor automatically controls the system's ventilation function only when necessary (in the range of approximately 600–1,200 ppm). This results in optimal comfort while minimizing operating costs.

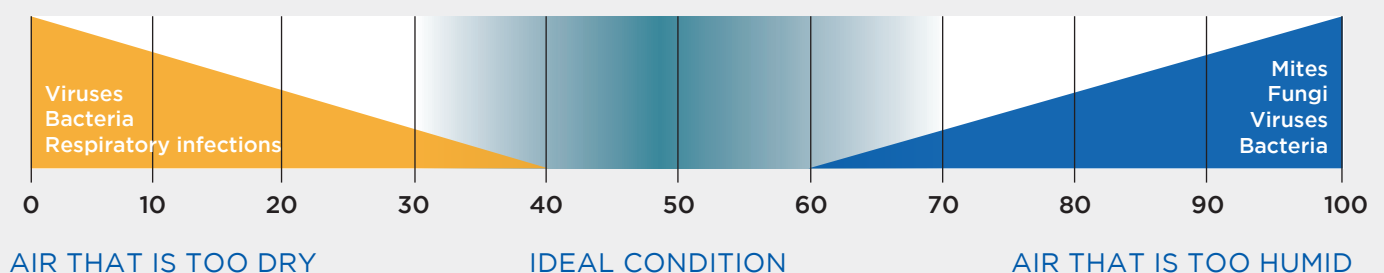


THE IMPACT OF INDOOR HUMIDITY ON HUMANS

The fresh air supplied by a ventilation unit is often very dry in winter and can reduce indoor humidity so drastically that it can lead to drying out of skin and mucous membranes, damage to wooden furniture and floors, and impair general well-being.

To prevent this and maintain an optimal indoor humidity of approximately 50%, we recommend using the optionally available enthalpy heat exchanger with a humidity recovery rate of up to 85%.

INDOOR CONDITIONS (RELATIVE HUMIDITY %)





TECHNICAL PARAMETERS

ROOMMASTER - 100		ventilation		water-based heating		Electric heating		Ventilation with preheater		Water-based heating, preheater		Electric heater, preheater	
Recovery exchanger type		HRV	ERV	HRV	ERV	HRV	ERV	HRV	ERV	HRV	ERV	HRV	ERV
Device with	Preheater	-	-	-	-	-	-	-	-	electric (0,27kW)			
	Heating/Cooling	-	-	water	water	electric	electric	-	-	water	water	electric	electric
Nominal airflow / boost pressure*		100 / 215 (HRV) , 90 / 205 (ERV)											
Heating capacity range**		-	-	0,33 - 1,38	0,33 - 1,38	0,5	0,5	--	--	0,33 - 1,38	0,33 - 1,38	0,5	0,5
Cooling capacity range*****		-	-	0,18- 1,4	0,18- 1,4	-	-	--	--	0,18-1,4	0,18-1,4	-	-
Noise level***		32,1											
Weight****		16,3	16,3	18,3	18,3	19,3	19,3	16,8	16,8	18,8	18,8	19,8	19,8
Water volume in heat exchanger		-	-	0,51	0,51	-	-	-	-	0,51	0,51	-	-
Power supply		1 - 230 / 50-60											
Nominal power consumption / boost*		30 / 167	30 / 167	30 / 165	30 / 165	530 / 667	530 / 667	300 / 437	300 / 437	300 / 437	300 / 437	800 / 937	800 / 937
Nominal current / boost*		0,3 / 1,32	0,3 / 1,32	0,3 / 1,32	0,3 / 1,32	2,5 / 3,5	2,5 / 3,5	1,5 / 2,5	1,5 / 2,5	1,5 / 2,5	1,5 / 2,5	3,7 / 4,7	3,7 / 4,7
Recovery EN308	Heat	87	90	87	90	87	90	87	90	87	90	87	90
	Humidity	-	85	-	85	-	85	-	85	-	85	-	85
Protection class		20											
Energy efficiency class (SEC)		cold climate A+ (-47 HRV, -45,9 ERV) ; moderate climate A (-40,4 HRV, -38,9 ERV) ; warm climate A (-34,1 HRV), warm climate B(-33,1 ERV)											

ROOMMASTER - 250		ventilation		water-based heating		Electric heating		Ventilation with preheater		Water-based heating, preheater		Electric heater, preheater	
Recovery exchanger type		HRV	ERV	HRV	ERV	HRV	ERV	HRV	ERV	HRV	ERV	HRV	ERV
Device with	Preheater	-	-	-	-	-	-	-	-	electric (0,54kW)			
	Heating/Cooling	-	-	water	water	electric	electric	-	-	water	water	electric	electric
Nominal airflow / boost pressure*		250/ 350 (HRV) , 240 / 335 (ERV)											
Heating capacity range**		-	-	1,34 - 3,49	1,34 - 3,49	1	1	--	--	1,34 - 3,49	1,34 - 3,49	1	1
Cooling capacity range*****		-	-	0,3-3	0,3-3	-	-	--	--	0,3-3	0,3-3	-	-
Noise level***		32,6											
Weight****		36	36	39,4	39,4	41,2	41,2	37	37	40,4	40,4	42,2	42,2
Water volume in heat exchanger		-	-	1,17	1,17	-	-	-	-	1,17	1,17	-	-
Power supply		1 - 230 / 50-60											
Nominal power consumption / boost*		0,59 / 169	0,59 / 169	0,59/ 169	0,59/ 169	1061 / 1169	1061 / 1169	479 / 709	479 / 709	480 / 709	480 / 709	1480 / 1709	1480 / 1709
Nominal current / boost*		0,61 / 1,42	0,61 / 1,42	0,61 / 1,42	0,61 / 1,42	5 / 5,8	5 / 5,8	3 / 3,8	3 / 3,8	3 / 3,8	3 / 3,8	7,3 / 8,2	7,3 / 8,2
Recovery EN308	Heat	87	86	87	86	87	86	87	86	87	86	87	86
	Humidity	-	75	-	75	-	75	-	75	-	75	-	75
Protection class		20											
Energy efficiency class (SEC)		cold climate A+ (-47,5 HRV, -47,2 ERV) ; moderate climate A (-40,5 HRV, -40,2 ERV) ; warm climate A (-34,6 HRV, -34,4 ERV)											

* BOOST (maximum fan speed for 10 min.)

** Water temperature 75/60°C, supply air temperature 20°C

*** Sound pressure level at 3 m (free space)

**** Unit weight (without water and packaging)

***** Water temperature 7/12°C, supply air temperature 24°C



ROOMMASTER 100

CODE		ENTHALPY RECOVERY	HEATING	HEATING/ COOLING	PRE- HEATER	SEN- SOR	PRICE
WHITE	ANTHRACITE						
403-COVE00018	403-COVE00019						1.996 €
403-COVE00020	403-COVE00021				✓		2.087 €
403-COVE00022	403-COVE00023	✓					2.068 €
403-COVE00024	403-COVE00025	✓			✓		2.104 €
403-COVE00026	403-COVE00027						2.156 €
403-COVE00028	403-COVE00029		Water		✓		2.247 €
403-COVE00030	403-COVE00031	✓					2.221 €
403-COVE00032	403-COVE00033	✓			✓		2.264 €
403-COVE00034	403-COVE00035		Electrical			CO ₂	2.179 €
403-COVE00036	403-COVE00037				✓		2.298 €
403-COVE00038	403-COVE00039	✓					2.251 €
403-COVE00040	403-COVE00041	✓			✓		2.315 €
403-COVE00042	403-COVE00043						2.377 €
403-COVE00044	403-COVE00045			Water	✓		2.469 €
403-COVE00046	403-COVE00047	✓					2.444 €
403-COVE00048	403-COVE00049	✓			✓		2.486 €
403-COVE00050	403-COVE00051						2.127 €
403-COVE00052	403-COVE00053				✓		2.219 €
403-COVE00054	403-COVE00055	✓					2.199 €
403-COVE00056	403-COVE00057	✓			✓		2.236 €
403-COVE00058	403-COVE00059						2.287 €
403-COVE00060	403-COVE00061				✓		2.379 €
403-COVE00062	403-COVE00063	✓					2.353 €
403-COVE00064	403-COVE00065	✓	Electrical		✓	CO ₂ /RH	2.395 €
403-COVE00066	403-COVE00067						2.310 €
403-COVE00068	403-COVE00069				✓		2.429 €
403-COVE00070	403-COVE00071	✓					2.382 €
403-COVE00072	403-COVE00073	✓			✓		2.446 €
403-COVE00074	403-COVE00075						2.509 €
403-COVE00076	403-COVE00077			Water	✓		2.600 €
403-COVE00078	403-COVE00079	✓					2.575 €
403-COVE00080	403-COVE00081	✓			✓		2.617 €



ROOMMASTER 250

CODE		ENTHALPY RECOVERY	HEATING	HEATING/ COOLING	PRE- HEATER	SEN- SOR	PRICE
WHITE	ANTHRACITE						
403-COVE00082	403-COVE00083						2.897 €
403-COVE00084	403-COVE00085				✓		3.048 €
403-COVE00086	403-COVE00087	✓					3.671 €
403-COVE00088	403-COVE00089	✓			✓		3.823 €
403-COVE00090	403-COVE00091						3.082 €
403-COVE00092	403-COVE00093		Water		✓		3.233 €
403-COVE00094	403-COVE00095	✓					3.881 €
403-COVE00096	403-COVE00097	✓			✓		4.033 €
403-COVE00098	403-COVE00099					CO ₂	3.114 €
403-COVE00100	403-COVE00101				✓		3.265 €
403-COVE00102	403-COVE00103	✓	Electrical				3.888 €
403-COVE00104	403-COVE00105	✓			✓		4.040 €
403-COVE00106	403-COVE00107						3.316 €
403-COVE00108	403-COVE00109				✓		3.467 €
403-COVE00110	403-COVE00111	✓		Water			4.116 €
403-COVE00112	403-COVE00113	✓			✓		4.268 €
403-COVE00114	403-COVE00115						3.024 €
403-COVE00116	403-COVE00117				✓		3.175 €
403-COVE00118	403-COVE00119	✓					3.798 €
403-COVE00120	403-COVE00121	✓			✓		3.950 €
403-COVE00122	403-COVE00123						3.209 €
403-COVE00124	403-COVE00125				✓		3.360 €
403-COVE00126	403-COVE00127	✓					4.008 €
403-COVE00128	403-COVE00129	✓	Electrical		✓	CO ₂ /RH	4.160 €
403-COVE00130	403-COVE00131						3.241 €
403-COVE00132	403-COVE00133				✓		3.392 €
403-COVE00134	403-COVE00135	✓					4.015 €
403-COVE00136	403-COVE00137	✓			✓		4.167 €
403-COVE00138	403-COVE00139						3.444 €
403-COVE00140	403-COVE00141				✓		3.595 €
403-COVE00142	403-COVE00143	✓		Water			4.243 €
403-COVE00144	403-COVE00145	✓			✓		4.395 €

ACCESORIES

FILTER	CODE	PRICE
Filter M5 for ROOMMASTER 100	403-COVE00174	13 €
Filter F7 for ROOMMASTER 100	403-COVE00175	21 €
Filter M5 for ROOMMASTER 250	403-COVE00178	17 €
Filter F7 for ROOMMASTER 250	403-COVE00179	25 €

MODUL	CODE	PRICE
BMS Modul for ROOMMASTER 100 and 250	403-COVE00182	56 €

EPS-BOX WITH HOLES FOR PLASTIC TUBES	CODE	PRICE
for ROOMMASTER 100	403-COVE00177	46 €
for ROOMMASTER 250	403-COVE00181	58 €

COMBINED INLET AND OUTLET GRILL	CODE	PRICE
for ROOMMASTER 100	403-COVE00183	61 €
for ROOMMASTER 250	403-COVE00184	83 €

SET OF PLASTIC DUCTS AND FLAPS FOR THE INSTALLATION	CODE	PRICE
for ROOMMASTER 100	403-COVE00176	31 €
for ROOMMASTER 250	403-COVE00180	38 €
for ROOMMASTER 100 & 250 with ROOMMASTER GRILL-125	403-COVE00185	25 €
for ROOMMASTER 100 & 250 with ROOMMASTER GRILL-150	403-COVE00186	33 €



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Jeremias high quality products to be installed only by selected experts.