

e-MovAir

Packaged air handling units



R410A



AIR COOLED *Inverter*

❄️ 17 - 146 kW

🔥 20 - 140 kW

🌀 3500 - 30000 m³/h

- # Combines the simplicity of a plug and play rooftop, while offering the **intelligence and flexibility** of an air handling unit.
- # Designed with **smart features** and **highly innovative components** that provide beyond expected energy efficiency performance.
- # Conceived to supply high fresh air rates, combining **comfort with superior indoor air quality**.
- # **Fully compliant with the VDI 6022 certification**, ensuring maximum hygiene in ventilation systems.

ALL YEAR LONG OPERATION

- # The intelligence and design of the unit enables the absence of defrost cycle, and thus prevents any temperature drop, while being able to provide continuous fresh clean air 365 days per year.

ACCURACY & SPEED

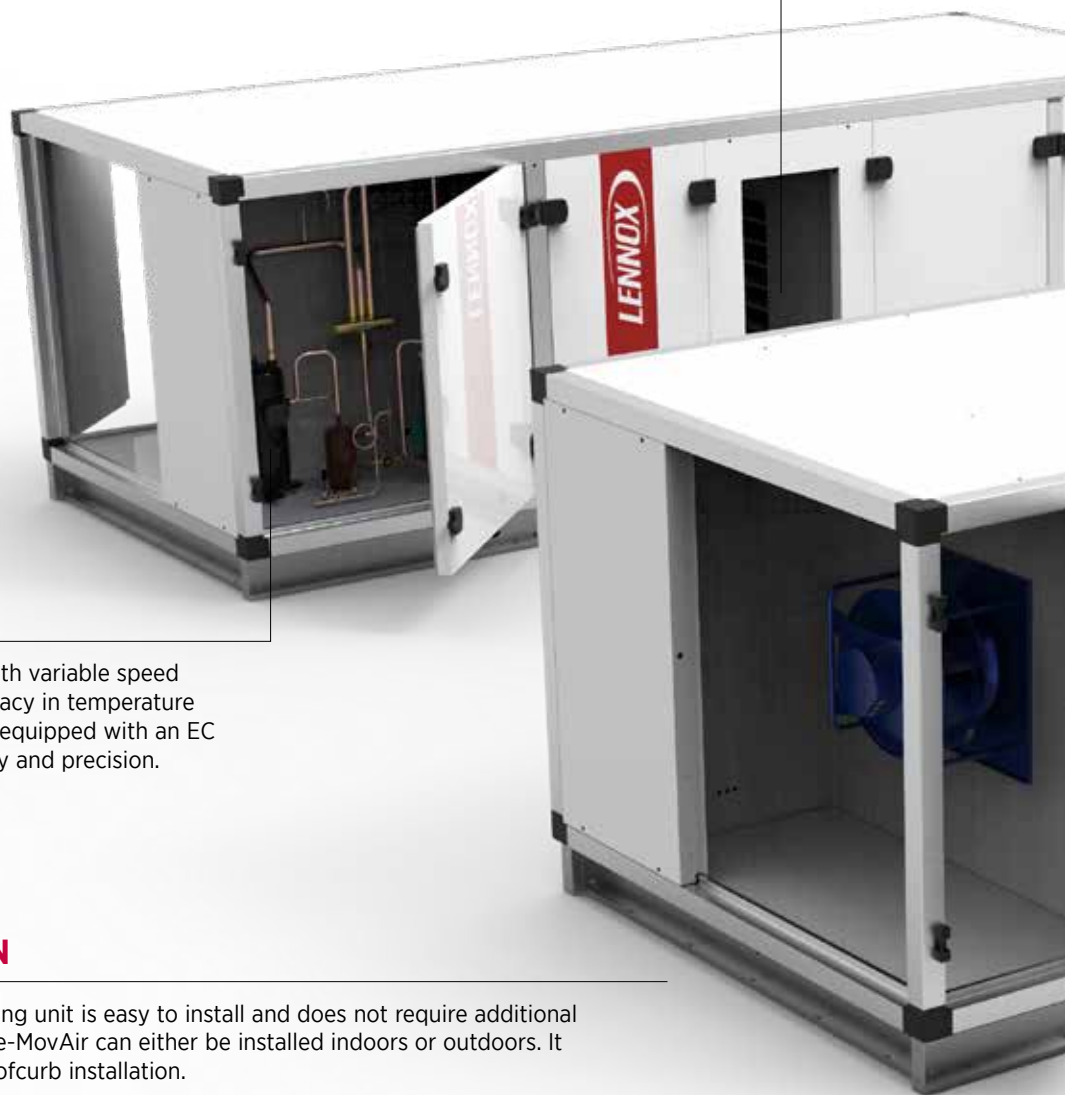
- # The inverter compressor combined with variable speed fans provide high flexibility and accuracy in temperature management. The unit has also been equipped with an EC motor to increase its energy efficiency and precision.

EASY INSTALLATION

- # This plug and play air handling unit is easy to install and does not require additional installation operations. The e-MovAir can either be installed indoors or outdoors. It is also compatible with a roofcurb installation.

ENERGY EFFICIENT

- # The e-MovAir has been designed to use the calorific or frigorific load of the rejected air, thus generating important energy savings.



CUSTOMISED INSULATION

- # The e-MovAir is available with two insulation options in order to best fit the installation requirements.
- # Thermal Insulation - The unit is equipped with thermal insulation through 60mm thick double skin panels with injected polyurethane. Classified T2 for thermal transmittance and TB2 for thermal Bridge from the EN 1886 norm.
- # Acoustic Insulation - The unit is equipped with 50mm thick double skin panels with high-density mineral wool insulation (90kg/m³). Sound acoustic attenuation classified (32db at 500 Hz) from the EN 1886 norm.



PERFECT AIR

- # The e-MovAir combines the most hygienic components to deliver fresh, clean air.
 - drain pan made of stainless steel AISI316
 - internal panels made of prepainted steel
 - coil frame made of aluminum
 - filter frame made of prepainted steel
 - painted fans
 - internal closures made of prepainted steel
 - non porous sealing

eM_(A) 24_(B) A_(C) H_(D) 140_(E)

(A) eM = e-MovAir
(B) Air flow (xx000)
(C) Capacity range
(D) H = Heat pump
(E) A = Air cooled



Air cooled version

Heat pump units

e-MovAir		EM03AH025	EM04AH028	EM05AH030	EM06AH035	EM07AH040	EM09AH055
Nominal thermal performances - Cooling mode							
Cooling capacity ⁽¹⁾	kW	18,1	24,6	29,8	23,2	40,0	49,9
Total Power Input	kW	5,7	7,6	9,4	5,2	7,7	16,8
EER net ⁽¹⁾		3,20	3,24	3,16	4,47	5,22	2,96
Nominal thermal performances - Heating mode							
Heating capacity ⁽²⁾	kW	22,6	25,7	37,4	34,2	36,1	60,5
Total Power Input	kW	4,9	6,4	9,6	6,6	8,2	15,0
COP net ⁽²⁾		4,61	4,0	3,91	5,22	4,41	4,02
Seasonal efficiencies - Cooling mode							
Seasonal Energy Efficiency Ratio - SEER ⁽³⁾		4,0	3,9	4,0	4,3	4,4	4,4
Seasonal energy efficiency - η_{s,c} ⁽⁴⁾	%	156	155	156	169	174	171
Eurovent energy efficiency class - Part load operation		-	-	-	-	-	-
Seasonal efficiencies - Heating mode							
Seasonal Coefficient of Performance - SCOP ⁽⁵⁾		4,0	4,2	3,7	3,9	4,2	4,0
Seasonal energy efficiency - η_{s,h} ⁽⁶⁾	%	158	164	146	153	163	156
Eurovent energy efficiency class - Part load operation		-	-	-	-	-	-
Auxiliary heating							
Gas heating capacity - Standard / High	kW	-	-	-	-	-	-
Electric heater capacity - Standard / High		9 / 18	12 / 24	12 / 24	18 / 36	18 / 36	24 / 48
Electric pre-heater capacity - Standard / High		9 / 18	12 / 24	12 / 24	18 / 36	18 / 36	24 / 48
Hot water coil capacity Air inlet 20°C/Water		Capacity depends on air and water temperatures.					
Ventilation data ⁽⁷⁾							
Minimum airflow rate	m³/h	3500	3500	4000	5500	6300	8300
Nominal airflow rate		3500	4500	5500	5500	7200	9900
Maximum airflow rate		4500	5000	5500	6350	8280	9900
Acoustic data - Standard unit							
Outdoor sound power	dB(A)	48	53	58	53	58	65
Indoor blower outlet sound power		76	82	87	79	85	93
Electrical data							
Maximum power	kW	12,2	12,2	12,2	22,8	22,8	22,8
Maximum current	A	19,5	19,5	19,5	36,5	36,5	36,5
Starting current	A	Depends on operating conditions.					
Short circuit current	kA	Depends on operating conditions.					
Refrigeration circuit							
Number of circuits		1	1	1	1	1	1
Number of compressors		1	1	1	1	1	1
Refrigerant load	kg	11	12	12	18	24	24

(1) **Cooling mode** : According to EN14511 nominal conditions - Outdoor temperature 35°C DB - Indoor temperature 27°C DB / 19°C WB

(2) **Heating mode** : According to EN14511 nominal conditions - Outdoor temperature 7°C DB / 6°C WB - Indoor temperature 20°C DB

(3) SEER in accordance with standard EN14825.

(4) Space cooling energy efficiency following Ecodesign regulation EU 2016/2281

(5) SCOP in accordance with standard EN 14825 (average climate conditions).

(6) Space heating energy efficiency following Ecodesign regulation EU 2016/2281.

(7) Supply fan ESP: 250 Pa / Exhaust fan ESP: 150Pa / Fresh air percentage: 80%

eM^(A) 24^(B) A^(C) H^(D) 140^(E)

(A) eM = e-MovAir
 (B) Air flow (xx000)
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 (E) A = Air cooled



Air cooled version

Heat pump units

e-MovAir		EM10AH070	EM13AH085	EM17AH100	EM18AH110	EM24AH140	EM30AH170
Nominal thermal performances - Cooling mode							
Cooling capacity ⁽¹⁾	kW	45,8	70,0	102,3	99,2	118,6	147,0
Total Power Input	kW	10,0	18,5	34,5	31,1	37,8	54,5
EER net ⁽¹⁾		4,58	3,79	2,96	3,19	3,14	2,70
Nominal thermal performances - Heating mode							
Heating capacity ⁽²⁾	kW	55,7	84,4	107,2	106,1	140,8	166,3
Total Power Input	kW	11,9	18,1	29,1	23,8	31,7	45,5
COP net ⁽²⁾		4,70	4,67	3,68	4,47	4,45	3,7
Seasonal efficiencies - Cooling mode							
Seasonal Energy Efficiency Ratio - SEER ⁽³⁾		4,1	4,6	4,3	4,4	4,8	4,2
Seasonal energy efficiency - η_{s,c} ⁽⁴⁾	%	160	180	170	171	187	166
Eurovent energy efficiency class - Part load operation		-	-	-	-	-	-
Seasonal efficiencies - Heating mode							
Seasonal Coefficient of Performance - SCOP ⁽⁵⁾		3,9	4,0	4,1	4,0	4,1	3,7
Seasonal energy efficiency - η_{s,h} ⁽⁶⁾	%	153	155	160	156	161	143
Eurovent energy efficiency class - Part load operation		-	-	-	-	-	-
Auxiliary heating							
Gas heating capacity - Standard / High	kW	-	-	-	-	-	-
Electric heater capacity - Standard / High		24 / 48	36 / 72	36 / 72	48 / 96	48 / 96	66 / 126
Electric pre-heater capacity - Standard / High		24 / 48	36 / 72	36 / 72	48 / 96	48 / 96	66 / 126
Hot water coil capacity		Capacity depends on air and water temperatures.					
Air inlet 20°C/Water							
Ventilation data ⁽⁷⁾							
Minimum airflow rate	m³/h	8600	10000	15600	17500	20000	26000
Nominal airflow rate		8600	13500	18500	17500	24000	30000
Maximum airflow rate		10000	15600	18500	20300	27600	30000
Acoustic data - Standard unit							
Outdoor sound power	dB(A)	62	66	72	71	74	79
Indoor blower outlet sound power		90	87	95	93	91	97
Electrical data							
Maximum power	kW	43,5	43,5	43,5	72,3	72,3	72,3
Maximum current	A	69,8	69,8	69,8	116,0	116,0	116,0
Starting current	A	Depends on operating conditions.					
Short circuit current	kA	Depends on operating conditions.					
Refrigeration circuit							
Number of circuits		1	2	2	2	2	2
Number of compressors		2	2	2	2	3	3
Refrigerant load	kg	30	20+20	20+20	21+21	18+27	18+27

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e-MovAir		EM03AH025	EM04AH028	EM05AH030	EM06AH035	EM07AH040	EM09AH055
A	mm	1630			2270		
B		3990			4770		
C		1360			1460		



Air cooled version

e-MovAir		EM10AH070	EM13AH085	EM17AH100	EM18AH110	EM24AH140	EM30AH170
A	mm	2270			2270		
B		5070			5670		
C		1940			2490		

