

# eComfort

Air cooled chillers / Heat pumps



R32



AIR COOLED *Inverter*

❄️ 170 - 400 kW

🔥 220 - 450 kW

LENNOX participates in the ECP programme for LCP-HP. Check ongoing validity of certificate : [www.eurovent-certification.com](http://www.eurovent-certification.com)

- # **Fast and easy installation and commissioning** thanks to the integration of a complete hydraulic module with buffer tank and immersed heating rods.
- # **Total system modulation** granted by EC motor fans and inverter technology on compressors and pumps.
- # **Excellent seasonal energy efficiencies** (SEER) that exceed the European EcoDesign 2021 requirements. And SCOP that exceed the European EcoDesign 2017.
- # **Precise water temperature control** in cooling and heating mode thanks to highly efficient components.

## CONTROL

- # eClimatic electronic controller and intelligent control parameters optimising part-load efficiency.
- # Integrated communication solutions offering flexibility (master/slave, Modbus, BACnet LonWorks®).
- # DC Advanced display, equipped with a graphic screen providing access to the main user parameters, with two optional displays:
  - Remote Display
  - Service Display

eCLIMATIC



DC Advanced



## eDRIVE

Variable speed drive pump option, which modulates the water flow through the plate heat exchanger and reduces energy costs:

- # Saves energy consumption especially at part-load conditions and during off period, reaching up to 75% reduction of the pump consumption.
- # Savings on the initial system cost, due to fewer pumps and piping connections than primary-secondary systems.
- # Flexibility and accuracy of the pump operation control: smooth start and stop, gradual change of speed, accuracy and stability of control.
- # Reduction of the repeated stress on the pump and piping resulting in longer equipment lifetime.
- # Elimination of the start-up current thanks to variable frequency drive that controls a gradual pump motor supply.



## REMOTE MONITORING

- # Connectivity through **LennoxHydrocontrol**, a user-friendly interface for local supervision of the entire hydraulic system.
- # Connectivity through **LennoxCloud** (LENNOX WEB PORTAL for Multi sites / units).
- # BMS through:
  - **LennoxOneWeb**.
  - **ADALINK II\*** (LENNOX WEB SERVER One site / Several units).
  - **LennoxTouch**.\*

\* Check the availability of this feature in your country.

## ACOUSTIC COMFORT

Three different noise level configurations available:

- # **Quiet operation** (standard), achieved with compact design, silent compressors and pumps, and with high-performance propeller fans, all installed in a closed box.
- # **Low noise level option:** High performance acoustic compressor jacket can halve the noise produced by the unit.
- # **Active Acoustic Attenuation System** with variable fan speed allows progressive adaptation of the unit to the building load while respecting the noise level constraints and the operating limits (as an option).

## CASING & DESIGN

- # Casing made of white painted galvanised steel.
- # Compact design, granted by the V-shaped coils.
- # All thermodynamic and hydraulic components installed below the coils.



## THERMODYNAMIC SYSTEM

- # Multi-scroll compressors, mounted in tandem or trio, to provide the best seasonal efficiencies.
- # Aluminium microchannel condenser coil on cooling only units.
- # Large surface exchangers built with copper tubing and aluminium fins on heat-pump units.
- # High performance propeller fans with profiled blades to improve efficiency and reduce noise level (EC version available as an option).
- # Thermally insulated and frost-protected water heat exchangers made from stainless steel plates with copper brazing.
- # One or two independent circuits, each equipped with electronic expansion valves.
- # Desuperheater (as an option): additional plate heat exchanger on each circuit to recover the rejected heat and provide free hot water for sanitary or industrial purposes.



# G<sub>(A)</sub> A<sub>(B)</sub> C<sub>(C)</sub> 170<sub>(D)</sub> D<sub>(E)</sub> P<sub>(F)</sub> 1<sub>(G)</sub> M<sub>(H)</sub>

- (A) **G** = eComfort
- (B) **A** = Air cooled unit
- (C) **C** = Cooling only unit - **H** = Heat pump unit
- (D) **170** = Approximate power in kW
- (E) **D** = Dual circuit
- (F) **P** = Refrigerant R32
- (G) **1** = Revision number
- (H) **M** = 400V/3/50Hz



## Air cooled version - Standard version

## Cooling only units

eCOMFORT - GAC		170D	200D	230D	270D	300D	330D	370D	400D		
<b>Nominal thermal performances - Cooling mode</b>											
Cooling capacity <sup>(1)</sup>		kW	178,0	200,2	213,5	264,6	298,4	332,2	367,8	402,2	
Total absorbed power <sup>(1)</sup>		kW	53,4	64,3	70,5	85,0	101,5	106,6	123,4	140,1	
EER <sup>(1)</sup>			3,33	3,11	3,03	3,11	2,94	3,12	2,98	2,87	
Eurovent energy class <sup>(1)</sup> - Full load operation			A	A	B	A	B	A	B	C	
Comfort Application	Standard Fans	Seasonal Energy Efficiency Ratio <sup>(2)</sup> <b>SEER</b>		4,98	4,89	4,86	4,92	4,92	4,85	4,95	4,97
		Seasonal energy efficiency <sup>(3)</sup> <b>η<sub>s,c</sub></b>		%	196,3	192,7	191,3	193,6	194	190,9	194,8
Process Application	Standard Fans	Seasonal Energy Performance Ratio <sup>(4)</sup> <b>SEPR - High temperature (7°C)</b>		5,59	5,44	5,48	5,35	5,49	5,38	5,53	5,64
<b>Nominal thermal performances - Heating mode</b>											
Heating capacity <sup>(1)</sup>		kW	-	-	-	-	-	-	-	-	
Total absorbed power <sup>(1)</sup>		kW	-	-	-	-	-	-	-	-	
COP <sup>(1)</sup>			-	-	-	-	-	-	-	-	
Eurovent energy class <sup>(1)</sup> - Full load operation			-	-	-	-	-	-	-	-	
Comfort Application	Standard Fans	Seasonal Coefficient of Performance <sup>(6)</sup> <b>SCOP</b>		-	-	-	-	-	-	-	
		Seasonal energy efficiency <sup>(7)</sup> <b>η<sub>s,h</sub></b>		%	-	-	-	-	-	-	-
Seasonal efficiency class <sup>(8)</sup>			-	-	-	-	-	-	-	-	
<b>Acoustic data</b>											
Global sound power level - Standard unit		dB(A)	87,5	88,0	89,2	89,4	91,2	90,4	91,9	92,9	
<b>Electrical data</b>											
Maximum power		kW	72,5	85,7	92,2	117,7	135,4	149,7	167,4	185,1	
Maximum current		A	265,6	314,8	272,6	366,7	383,3	418,6	445,0	461,6	
Starting current		A	121,2	141,6	151,0	193,5	219,8	245,4	271,7	298,2	
Short circuit current		kA	50	50	50	50	50	50	50	50	
<b>Refrigeration circuit</b>											
Number of circuits			2	2	2	2	2	2	2	2	
Number of compressors			2 / 2	2 / 2	3 / 3	2 / 3	2 / 3	3 / 3	3 / 3	3 / 3	
Total refrigerant load - R32		kg	18,5	18,9	20,3	27,4	28,1	36,0	34,8	40,1	
<b>Evaporator</b>											
Nominal water flow rate		m <sup>3</sup> /h	30,70	34,54	36,82	45,64	51,47	57,30	63,45	69,37	
Nominal pressure drop		kPa	29	31	30	38	44	50	56	65	
<b>Hydraulic connection</b>											
Type			Victaulic								
Diameter			4"	4"	4"	4"	4"	5"	5"	5"	

(1) EUROVENT certified data, in accordance with standard EN 14511.

**Cooling mode:** Evaporator water temperature = 12/7°C | Outdoor air temperature = 35°C / **Heating mode:** Condenser water temperature = 40/45°C | Outdoor air temperature = 7°C  
 (2) SEER in accordance with standard EN 14825. | (3) Following ecodesign regulation EU 2016/2281 on space cooling, normalized leaving water temperature at 7°C, in accordance with standard EN 14825. | (4) Following ecodesign regulation EU 2016/2281 on process cooling units, normalized leaving water temperature at 7°C, in accordance with standard EN 14825. | (5) Following ecodesign regulation EU 2015/1095 on process cooling chillers, normalized leaving water temperature at -8°C, in accordance with standard EN 14825. | (6) SCOP in accordance with standard EN 14825. Heating mode performance is defined for average climate conditions. | (7) Following ecodesign regulation EU 813/2013 on space heaters, normalized leaving water temperature at 7°C, in accordance with standard EN 14825, average climate conditions. | (8) Following energy labelling regulation EU 811/2013 on space heaters.

# G<sup>(A)</sup> A<sup>(B)</sup> C<sup>(C)</sup> 170<sup>(D)</sup> D<sup>(E)</sup> P<sup>(F)</sup> 1<sup>(G)</sup> M<sup>(H)</sup>

- (A) **G** = eComfort  
 (B) **A** = Air cooled unit  
 (C) **C** = Cooling only unit - **H** = Heat pump unit  
 (D) **170** = Approximate power in kW  
 (E) **D** = Dual circuit  
 (F) **P** = Refrigerant R32  
 (G) **1** = Revision number  
 (H) **M** = 400V/3/50Hz



## Air cooled version - Premium version with EC fans (SEAS)

## Cooling only units

eCOMFORT - GAC			170D	200D	230D	270D	300D	330D	370D	400D	
<b>Nominal thermal performances - Cooling mode</b>											
Cooling capacity <sup>(1)</sup>		kW	178,4	200,8	270,3	264,6	304,7	339,4	376,0	411,0	
Total absorbed power <sup>(1)</sup>		kW	52,9	63,7	70,5	85,0	101,8	106,3	123,2	140,2	
EER <sup>(1)</sup>			3,40	3,20	3,10	3,20	3,00	3,20	3,10	2,90	
Eurovent energy class <sup>(1)</sup> - Full load operation			A	A	A	A	B	A	B	B	
Comfort Application	EC Fans	Seasonal Energy Efficiency Ratio <sup>(2)</sup> <b>SEER</b>		5,2	5,1	5,1	5,1	5,1	5,2	5,1	
		Seasonal energy efficiency <sup>(3)</sup> <b>η<sub>s,c</sub></b>		%	203,5	199,6	199,8	200	200,9	204,8	203
Process Application	EC Fans	Seasonal Energy Performance Ratio <sup>(4)</sup> <b>SEPR - High temperature (7°C)</b>		5,8	5,6	5,6	5,6	5,7	5,5	5,6	5,7
<b>Nominal thermal performances - Heating mode</b>											
Heating capacity <sup>(1)</sup>		kW	-	-	-	-	-	-	-	-	
Total absorbed power <sup>(1)</sup>		kW	-	-	-	-	-	-	-	-	
COP <sup>(1)</sup>			-	-	-	-	-	-	-	-	
Eurovent energy class <sup>(1)</sup> - Full load operation			-	-	-	-	-	-	-	-	
Comfort Application	EC Fans	Seasonal Coefficient of Performance <sup>(6)</sup> <b>SCOP</b>		-	-	-	-	-	-	-	
		Seasonal energy efficiency <sup>(7)</sup> <b>η<sub>s,h</sub></b>		%	-	-	-	-	-	-	-
Seasonal efficiency class <sup>(8)</sup>			-	-	-	-	-	-	-	-	
<b>Acoustic data</b>											
Global sound power level - Standard unit		dB(A)	88,0	88,4	89,5	89,9	91,6	90,9	92,3	93,2	
<b>Electrical data</b>											
Maximum power		kW	72,0	85,3	91,7	117,3	135,0	149,3	167,0	184,7	
Maximum current		A	264,5	313,7	271,5	365,6	382,2	417,5	443,9	460,5	
Starting current		A	117,8	138,2	147,6	189,0	215,4	239,8	266,2	292,6	
Short circuit current		kA	50	50	50	50	50	50	50	50	
<b>Refrigeration circuit</b>											
Number of circuits			2	2	2	2	2	2	2	2	
Number of compressors			2 / 2	2 / 2	3 / 3	2 / 3	2 / 3	3 / 3	3 / 3	3 / 3	
Total refrigerant load - R32		kg	18,5	18,9	20,3	27,4	28,1	36,0	34,8	40,1	
<b>Evaporator</b>											
Nominal water flow rate		m <sup>3</sup> /h	30,7	34,5	37,5	46,5	52,4	58,4	64,7	70,7	
Nominal pressure drop		kPa	29	31	30	38	44	50	56	65	
<b>Hydraulic connection</b>											
Type			Victaulic								
Diameter			4"	4"	4"	4"	4"	5"	5"	5"	

(1) EUROVENT certified data, in accordance with standard EN 14511.

**Cooling mode:** Evaporator water temperature = 12/7°C | Outdoor air temperature = 35°C / **Heating mode:** Condenser water temperature = 40/45°C | Outdoor air temperature = 7°C  
 (2) SEER in accordance with standard EN 14825. | (3) Following ecodesign regulation EU 2016/2281 on space cooling, normalized leaving water temperature at 7°C, in accordance with standard EN 14825. | (4) Following ecodesign regulation EU 2016/2281 on process cooling units, normalized leaving water temperature at 7°C, in accordance with standard EN 14825. | (5) Following ecodesign regulation EU 2015/1095 on process cooling chillers, normalized leaving water temperature at -8°C, in accordance with standard EN 14825. | (6) SCOP in accordance with standard EN 14825. Heating mode performance is defined for average climate conditions. | (7) Following ecodesign regulation EU 813/2013 on space heaters, normalized leaving water temperature at 7°C, in accordance with standard EN 14825, average climate conditions. | (8) Following energy labelling regulation EU 811/2013 on space heaters.

# G<sub>(A)</sub> A<sub>(B)</sub> C<sub>(C)</sub> 170<sub>(D)</sub> D<sub>(E)</sub> P<sub>(F)</sub> 1<sub>(G)</sub> M<sub>(H)</sub>

- (A) **G** = eComfort
- (B) **A** = Air cooled unit
- (C) **C** = Cooling only unit - **H** = Heat pump unit
- (D) **170** = Approximate power in kW
- (E) **D** = Dual circuit
- (F) **P** = Refrigerant R32
- (G) **1** = Revision number
- (H) **M** = 400V/3/50Hz



## Air cooled version - Modulating version with high pressure EC fans (HIFP) and inverter compressor (VSCP)

### Cooling only units

eCOMFORT - GAC		170D	200D	230D	270D	300D	330D	370D	400D			
<b>Nominal thermal performances - Cooling mode</b>												
Cooling capacity <sup>(1)</sup>		kW	192,9	213,1	232,1	280,5	320,2	350,4	389,4	426,7		
Total absorbed power <sup>(1)</sup>		kW	58,3	67,3	75,0	88,7	104,7	108,7	125,0	140,8		
EER <sup>(1)</sup>			3,30	3,20	3,10	3,20	3,10	3,20	3,10	3,00		
Eurovent energy class <sup>(1)</sup> - Full load operation			A	A	A	A	B	A	A	B		
Comfort Application	EC Fans	Seasonal Energy Efficiency Ratio <sup>(2)</sup> <b>SEER</b>		5,0	4,9	4,8	4,8	4,9	4,9	5,0	5,0	
		Seasonal energy efficiency <sup>(3)</sup> <b>η<sub>s,c</sub></b>		%	195,2	193,1	190,1	190,5	194,3	192,5	195,4	197,5
Process Application		Seasonal Energy Performance Ratio <sup>(4)</sup> <b>SEPR - High temperature (7°C)</b>		5,7	5,5	5,5	5,5	5,6	5,6	5,5	5,7	
<b>Nominal thermal performances - Heating mode</b>												
Heating capacity <sup>(1)</sup>		kW	-	-	-	-	-	-	-	-		
Total absorbed power <sup>(1)</sup>		kW	-	-	-	-	-	-	-	-		
COP <sup>(1)</sup>			-	-	-	-	-	-	-	-		
Eurovent energy class <sup>(1)</sup> - Full load operation			-	-	-	-	-	-	-	-		
Comfort Application	EC Fans	Seasonal Coefficient of Performance <sup>(6)</sup> <b>SCOP</b>		-	-	-	-	-	-	-	-	
		Seasonal energy efficiency <sup>(7)</sup> <b>η<sub>s,h</sub></b>		%	-	-	-	-	-	-	-	-
		Seasonal efficiency class <sup>(8)</sup>			-	-	-	-	-	-	-	-
<b>Acoustic data</b>												
Global sound power level - Standard unit		dB(A)	92,0	92,1	92,8	93,6	94,4	94,9	95,9	95,9		
<b>Electrical data</b>												
Maximum power		kW	76,1	89,3	95,8	123,4	141,1	157,4	175,1	192,8		
Maximum current		A	264,5	313,7	271,5	365,6	382,2	417,5	443,9	460,5		
Starting current		A	124,0	144,4	153,8	198,3	224,7	252,2	278,6	305,0		
Short circuit current		kA	50	50	50	50	50	50	50	50		
<b>Refrigeration circuit</b>												
Number of circuits			2	2	2	2	2	2	2	2		
Number of compressors			2 / 2	2 / 2	3 / 3	2 / 3	2 / 3	3 / 3	3 / 3	3 / 3		
Total refrigerant load - R32		kg	18,5	18,9	20,3	27,4	28,1	36,0	34,8	40,1		
<b>Evaporator</b>												
Nominal water flow rate		m <sup>3</sup> /h	33,2	36,7	39,9	48,2	55,1	60,3	67,0	73,4		
Nominal pressure drop		kPa	29	31	30	38	44	50	56	65		
<b>Hydraulic connection</b>												
Type			Victaulic									
Diameter			4"	4"	4"	4"	4"	5"	5"	5"		

(1) EUROVENT certified data, in accordance with standard EN 14511.

**Cooling mode:** Evaporator water temperature = 12/7°C | Outdoor air temperature = 35°C / **Heating mode:** Condenser water temperature = 40/45°C | Outdoor air temperature = 7°C  
 (2) SEER in accordance with standard EN 14825. | (3) Following ecodesign regulation EU 2016/2281 on space cooling, normalized leaving water temperature at 7°C, in accordance with standard EN 14825. | (4) Following ecodesign regulation EU 2016/2281 on process cooling units, normalized leaving water temperature at 7°C, in accordance with standard EN 14825. | (5) Following ecodesign regulation EU 2015/1095 on process cooling chillers, normalized leaving water temperature at -8°C, in accordance with standard EN 14825. | (6) SCOP in accordance with standard EN 14825. Heating mode performance is defined for average climate conditions. | (7) Following ecodesign regulation EU 813/2013 on space heaters, normalized leaving water temperature at 7°C, in accordance with standard EN 14825, average climate conditions. | (8) Following energy labelling regulation EU 811/2013 on space heaters.

# G<sup>(A)</sup> A<sup>(B)</sup> H<sup>(C)</sup> 220<sup>(D)</sup> D<sup>(E)</sup> P<sup>(F)</sup> 2<sup>(G)</sup> M<sup>(H)</sup>

- (A) **G** = eComfort  
 (B) **A** = Air cooled unit  
 (C) **C** = Cooling only unit - **H** = Heat pump unit  
 (D) **220** = Approximate power in kW  
 (E) **D** = Dual circuit  
 (F) **P** = Refrigerant R32  
 (G) **2** = Revision number  
 (H) **M** = 400V/3/50Hz



## Air cooled version - Standard version

## Heat pumps units

eCOMFORT - GAH		220D	250D	280D	300D	350D	370D	400D	450D		
<b>Nominal thermal performances - Cooling mode</b>											
Cooling capacity <sup>(1)</sup>		kW	211,9	248,9	274,2	303,7	342,2	366	404,7	441	
Total absorbed power <sup>(1)</sup>		kW	69,7	81,7	86,3	99,3	112,6	117	130,1	143	
EER <sup>(1)</sup>			3,04	3,05	3,18	3,06	3,04	3,13	3,11	3,08	
Comfort Application	EC Fans	Seasonal Energy Efficiency Ratio <sup>(2)</sup> <b>SEER</b>		199	193	195	196	195	211	210	204
		Seasonal energy efficiency <sup>(3)</sup> <b>η<sub>s,c</sub></b>	%	6,56	6,68	6,59	6,77	6,62	7	6,85	6,68
Process Application	EC Fans	Seasonal Energy Performance Ratio <sup>(4)</sup> <b>SEPR - High temperature (7°C)</b>		3,99	4,09	4,11	4,02	4,05	4,07	4,08	4,08
<b>Nominal thermal performances - Heating mode</b>											
Heating capacity <sup>(1)</sup>		kW	210,8	242,6	270,3	299,3	341,8	350,1	392,5	434,3	
Total absorbed power <sup>(1)</sup>		kW	68,6	79,2	85,6	97,2	112,3	112,7	127,2	142	
COP <sup>(1)</sup>			3,07	3,06	3,16	3,08	3,04	3,11	3,08	3,06	
Eurovent energy class <sup>(1)</sup> - Full load operation			B	B	B	B	B	A	B	B	
Comfort Application	EC Fans	Seasonal Coefficient of Performance <sup>(6)</sup> <b>SCOP</b>		3,55	3,58	3,65	3,6	3,68	3,85	3,83	3,65
		Seasonal energy efficiency <sup>(7)</sup> <b>η<sub>s,h</sub></b>	%	139	140	143	141	144	151	150	143
		Seasonal efficiency class <sup>(8)</sup>			A+	A+	A+	A+	A+	A+	A+
<b>Acoustic data</b>											
Global sound power level - Standard unit		dB(A)	91,8	92,3	91,5	92,0	93,7	91,8	93,5	94,7	
<b>Electrical data</b>											
Maximum power		kW	96,00	108,4	118,5	133	152,7	157,7	177,4	197,1	
Maximum current		A	325,1	327,2	375,8	367,4	431,1	407,6	471,2	503,7	
Starting current		A	160,4	176,6	193,9	216,8	249,2	256,9	289,3	321,8	
Short circuit current		kA	50								
<b>Refrigeration circuit</b>											
Number of circuits			2	2	2	2	2	2	2	2	
Number of compressors			2+2	2+2	2+2	2+3	2+3	3+3	3+3	3+3	
Total refrigerant load - R32		kg	45	46	60	60	63	74	79,5	85	
<b>Evaporator</b>											
Nominal water flow rate		m <sup>3</sup> /h	36,56	42,93	47,3	52,38	59,03	63,12	69,81	76,07	
Nominal pressure drop		kPa	29,47	28,83	34,72	42,25	49,07	29,69	32,80	38,65	
<b>Hydraulic connection</b>											
Type			Vitaulic								
Diameter			4"	4"	4"	4"	4"	5"	5"	5"	

(1) EUROVENT certified data, in accordance with standard EN 14511.

**Cooling mode:** Evaporator water temperature = 12/7°C | Outdoor air temperature = 35°C / **Heating mode:** Condenser water temperature = 40/45°C | Outdoor air temperature = 7°C  
 (2) SEER in accordance with standard EN 14825. | (3) Following ecodesign regulation EU 2016/2281 on space cooling, normalized leaving water temperature at 7°C, in accordance with standard EN 14825. | (4) Following ecodesign regulation EU 2016/2281 on process cooling units, normalized leaving water temperature at 7°C, in accordance with standard EN 14825. | (5) Following ecodesign regulation EU 2015/1095 on process cooling chillers, normalized leaving water temperature at -8°C, in accordance with standard EN 14825. | (6) SCOP in accordance with standard EN 14825. Heating mode performance is defined for average climate conditions. | (7) Following ecodesign regulation EU 813/2013 on space heaters, normalized leaving water temperature at 7°C, in accordance with standard EN 14825, average climate conditions. | (8) Following energy labelling regulation EU 811/2013 on space heaters.

# G<sup>(A)</sup> A<sup>(B)</sup> H<sup>(C)</sup> 220<sup>(D)</sup> D<sup>(E)</sup> P<sup>(F)</sup> 2<sup>(G)</sup> M<sup>(H)</sup>

- (A) **G** = eComfort
- (B) **A** = Air cooled unit
- (C) **C** = Cooling only unit - **H** = Heat pump unit
- (D) **220** = Approximate power in kW
- (E) **D** = Dual circuit
- (F) **P** = Refrigerant R32
- (G) **2** = Revision number
- (H) **M** = 400V/3/50Hz



## Air cooled version - Fixed speed AC Fan (SFAC)

## Heat pumps units

eCOMFORT - GAH		220D	250D	280D	300D	350D	370D	400D	450D		
<b>Nominal thermal performances - Cooling mode</b>											
Cooling capacity <sup>(1)</sup>		kW	213,5	247,8	275,7	302,4	341,8	364,2	403,7	440,9	
Total absorbed power <sup>(1)</sup>		kW	70,2	82,3	86,6	100,4	113,4	118,7	131,4	144	
EER <sup>(1)</sup>			3,04	3,01	3,18	3,01	3,02	3,07	3,07	3,06	
Eurovent energy class <sup>(1)</sup> - Full load operation			5,05	4,9	4,95	4,98	4,95	5,35	5,33	5,18	
Comfort Application	AC Fans	Seasonal Energy Efficiency Ratio <sup>(2)</sup> <b>SEER</b>		199	193	195	196	195	211	210	204
		Seasonal energy efficiency <sup>(3)</sup> <b>η<sub>s,c</sub></b>	%	6,56	6,68	6,59	6,77	6,62	7	6,85	6,68
Process Application	AC Fans	Seasonal Energy Performance Ratio <sup>(4)</sup> <b>SEPR - High temperature (7°C)</b>		3,99	4,09	4,11	4,02	4,05	4,07	4,08	4,08
<b>Nominal thermal performances - Heating mode</b>											
Heating capacity <sup>(1)</sup>		kW	212,7	240,9	268,6	296,1	338,7	340,4	385,3	430	
Total absorbed power <sup>(1)</sup>		kW	70,8	79,1	86,4	97,6	112,5	112,7	127,5	142,8	
COP <sup>(1)</sup>			3	3,04	3,11	3,03	3,01	3,02	3,02	3,01	
Eurovent energy class <sup>(1)</sup> - Full load operation			B	B	B	B	B	B	B	B	
Comfort Application	AC Fans	Seasonal Coefficient of Performance <sup>(6)</sup> <b>SCOP</b>		3,55	3,58	3,65	3,6	3,68	3,85	3,83	3,65
		Seasonal energy efficiency <sup>(7)</sup> <b>η<sub>s,h</sub></b>	%	139	140	143	141	144	151	150	143
		Seasonal efficiency class <sup>(8)</sup>		A+	A+						
<b>Acoustic data</b>											
Global sound power level - Standard unit		dB(A)	90,7	91,3	90,7	91,3	92,7	91,4	92,6	93,6	
<b>Electrical data</b>											
Maximum power		kW	96	108,4	118,5	133	152,7	157,7	177,4	197,1	
Maximum current		A	328,3	330,4	380	371,6	435,9	412,8	477	510,1	
Starting current		A	163,6	179,8	198,1	221	254	262,1	295,1	328,2	
Short circuit current		kA	50								
<b>Refrigeration circuit</b>											
Number of circuits			2	2	2	2	2	2	2	2	
Number of compressors			2+2	2+2	2+2	2+3	2+3	3+3	3+3	3+3	
Total refrigerant load - R32		kg	45	46	60	60	63	74	79,5	85	
<b>Evaporator</b>											
Nominal water flow rate		m <sup>3</sup> /h	36,82	42,74	47,56	52,16	58,95	62,82	69,63	76,06	
Nominal pressure drop		kPa	29,87	28,59	35,09	41,90	48,94	29,42	32,64	38,64	
<b>Hydraulic connection</b>											
Type			Victaulic								
Diameter			4"	4"	4"	4"	4"	5"	5"	5"	

(1) EUROVENT certified data, in accordance with standard EN 14511.

**Cooling mode:** Evaporator water temperature = 12/7°C | Outdoor air temperature = 35°C / **Heating mode:** Condenser water temperature = 40/45°C | Outdoor air temperature = 7°C  
 (2) SEER in accordance with standard EN 14825. | (3) Following ecodesign regulation EU 2016/2281 on space cooling, normalized leaving water temperature at 7°C, in accordance with standard EN 14825. | (4) Following ecodesign regulation EU 2016/2281 on process cooling units, normalized leaving water temperature at 7°C, in accordance with standard EN 14825. | (5) Following ecodesign regulation EU 2015/1095 on process cooling chillers, normalized leaving water temperature at -8°C, in accordance with standard EN 14825. | (6) SCOP in accordance with standard EN 14825. Heating mode performance is defined for average climate conditions. | (7) Following ecodesign regulation EU 813/2013 on space heaters, normalized leaving water temperature at 7°C, in accordance with standard EN 14825, average climate conditions. | (8) Following energy labelling regulation EU 811/2013 on space heaters.



**Air cooled version**

**Cooling only units**

eCOMFORT - GAC		170D	200D	230D	270D	300D	330D	370D	400D
A	mm	2250			2250			2250	
B		2704			3976			5248	
C		2402			2402			2402	
<b>Weight of standard units</b>									
Basic unit	kg	1484	1493	1672	2408	2151	2443	2655	2901



**Air cooled version**

**Heat pumps units**

eCOMFORT - GAH		220D	250D	280D	300D	350D	370D	400D	450D
A	mm	2250			2250			2250	
B		2704			3976			5248	
C		2401			2401			2401	
<b>Weight of standard units</b>									
Basic unit	kg	1883	2004	2474	2614	2695	3203	3291	3338

