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# **ErP Eco - design**

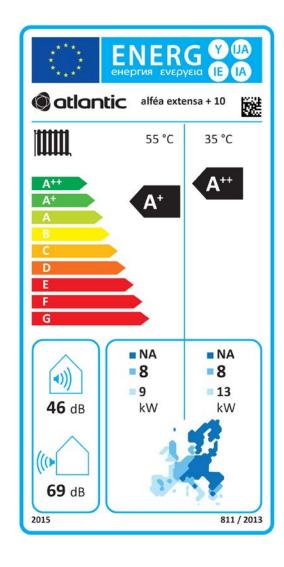




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## 5 ErP performance values

#### 5.1 ErP Definition

" $\ensuremath{\mathsf{ErP}}$ " includes two directives that are part of the program for the reduction of green house gas emission :

- Eco-design directive sets effiency thresholds and prohibits the sale of any product with efficiency lower than the set thresholds.
- According to labelling directive, energetic efficiency shall be displayed to encourage end-users to purchase energy-efficient products.

### 5.2 ErP specifications Extensa (+)

Trade name / Models :	atlantic /	Alféa	exten	sa + 5	exten	sa + 6	exten	sa + 8	extens	sa + 10
Reference			522	220	522	221	522	222	522	225
Heating ranges			35°C	55°C	35°C	55°C	35°C	55°C	35°C	55°C
Air-to-water heat pump				*		Y	es		,	
Equipped with a supplementary heater					Ye	es (require	d accesso	ry)		
Average climate - Space heating character	cteristics									
Energy class	-	-	A++	A+	A++	A+	A++	A+	A++	A+
Rated heat output (2)	P <sub>rated</sub>	kW	4	4	5	5	7	6	8	8
Seasonal space heating energy efficiency	$\eta_{\rm s}$	%	169	115	169	115	156	118	155	113
Seasonal efficiency for package with outdoor temperature sensor (1)	$\eta_{\rm s}$	%	171	117	171	117	158	120	157	115
Seasonal efficiency with room unit (1)	$\eta_{\rm s}$	%	173	119	173	119	160	122	159	117
Annual energy consumption	Q <sub>he</sub>	kWh	2160	3027	2505	3180	3375	3886	4415	5415
Colder climate - Space heating character	eristics									
Rated heat output (2)	P <sub>rated</sub>	kW								
Seasonal space heating energy efficiency	$\eta_{\rm s}$	%				N	IA			
Annual energy consumption	Q <sub>he</sub>	kWh								
Warmer climate - Space heating character	teristics									
Rated heat output (2)	P <sub>rated</sub>	kW	7	5	7	6	9	7	13	9
Seasonal space heating energy efficiency	$\eta_{\rm s}$	%	217	138	221	139	218	142	203	134
Annual energy consumption	Q <sub>he</sub>	kWh	1539	1778	1648	1967	2084	2422	3105	3124
Acoustic values										
Sound power level of indoor unit	L <sub>wa</sub>	dBa				4	6			
Sound power level of outdoor unit	L <sub>wa</sub>	dBa	6	3	6	3	6	9	6	9
Declared capacity for heating for part lo	ad at indoor	tempera	ture 20°C	and outdo	or tempera	ature Tj				
Tj = -7°C	Pdh	kW	4,0	3,8	4,6	4,0	5,8	5,3	7,5	6,7
Tj = +2°C	Pdh	kW	2,4	2,3	2,8	2,5	3,5	3,1	4,5	4,1
Tj = +7°C	Pdh	kW	2,0	1,7	2,3	1,7	2,3	2,0	3,5	3,2
Tj = +12°C	Pdh	kW	2,3	2,1	2,3	2,1	2,4	2,2	4,0	4,0
Tj = bivalent temperature	Pdh	kW	4,0	3,8	4,6	4,0	5,8	5,3	7,5	6,7
Tj = operation limit temperature	Pdh	kW	3,9	3,2	4,5	3,5	5,6	4,9	7,0	5,9
Bivalent temperature	T <sub>biv</sub>	°C	-7	-7	-7	-7	-7	-7	-7	-7
Degradation coefficient (3)	Cdh	-	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9

Trade name / Models :	atlantic /	Alféa	exten	sa + 5	exten	sa + 6	extensa + 8		extens	sa + 10
Reference			522	220	522	221	522	222	522	225
Heating ranges			35°C	55°C	35°C	55°C	35°C	55°C	35°C	55°C
Declared coefficient of performance or p	orimary ener	gy ratio f	or part loa	d at indoo	r temperat	ure 20°C a	and outdoo	r tempera	ture Tj	
Tj = -7°C	COP <sub>d</sub>	-	2,9	1,9	2,7	1,8	2,4	1,8	2,4	1,7
Tj = +2°C	COP <sub>d</sub>	-	4,1	2,8	4,2	2,9	3,8	2,9	3,8	2,7
Tj = +7°C	COP <sub>d</sub>	-	5,0	4,0	6,0	4,0	5,7	4,1	5,7	4,1
Tj = +12°C	COP <sub>d</sub>	-	8,1	5,8	8,3	5,8	8,2	5,8	7,2	5,7
Tj = bivalent temperature	COP <sub>d</sub>	-	2,9	1,9	2,7	1,8	2,4	1,8	2,4	1,7
Tj = operation limit temperature	COP <sub>d</sub>	-	2,7	1,5	2,6	1,6	2,0	1,5	2,2	1,4
For Air-to-water heat pump: Operation limit temperature	TOL	°C	-10	-10	-10	-10	-10	-10	-10	-10
Heating water operating limit temperature	WTOL	°C	55	55	55	55	55	55	55	55
Supplementary heater										
Rated heat output (2)	P <sub>sup</sub>	kW	0,6	1,1	0,7	1,0	0,9	0,8	1,4	1,7
Type of energy input	-	-				Elec	tricity			
Power consumption in modes other than	n active mod	le								
Off mode	P <sub>OFF</sub>	W	6	6	6	6	6	6	5	5
Thermostat-off mode	$P_{TO}$	W	19	17	23	16	30	16	43	22
Standby mode	$P_{\mathtt{SB}}$	W	10	10	10	10	9	9	8	8
Crankcase heater mode	Рск	W	0	0	0	0	0	0	0	0
Other items										
Capacity control	-	-				Inve	erter			
For Air-to-water heat pump, rated air flow rate	-	m³/h	20	70	23	40	36	00	62	200

<sup>(1)</sup> Seasonal efficiency calculation is detailed in package fiche - room units are available as option and includes: thermostat and room sensors, room unit controller wether they are, or not, integrated in kits.

<sup>(2)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output P<sub>rated</sub> is equal to the design load for heating P<sub>designh</sub>, and the rated heat output of the supplementary heater P<sub>Sup</sub> is equal to the supplementary capacity for heating sup(Tj).

<sup>(3)</sup> If Cdh is not determinated by measurement then the default degradation coefficient is Cdh=0.9.

Trade name / Models : atlantic / Alféa			extens	sa + 13	extens	sa + 16
Reference			522	226	522	227
Heating ranges			35°C	55°C	35°C	55°C
Air-to-water heat pump				Ye	es	
Equipped with a supplementary heater				Yes (require	d accessory)	
Average climate - Space heating characteristics						
Energy class	-	-	A++	A+	A+	A+
Rated heat output <sup>(2)</sup>	P <sub>rated</sub>	kW	11	9	13	11
Seasonal space heating energy efficiency	$\eta_{\rm s}$	%	151	109	148	113
Seasonal efficiency for package with outdoor temperature sensor (1)	$\eta_{\rm s}$	%	153	111	150	115
Seasonal efficiency with room unit (1)	$\eta_{\rm s}$	%	155	113	152	117
Annual energy consumption	Q <sub>he</sub>	kWh	6062	6842	6824	8041
Colder climate - Space heating characteristics						
Rated heat output (2)	P <sub>rated</sub>	kW				
Seasonal space heating energy efficiency	$\eta_{\rm s}$	%		N	Α	
Annual energy consumption	Q <sub>he</sub>	kWh				
Warmer climate - Space heating characteristics						
Rated heat output (2)	P <sub>rated</sub>	kW	15	11	17	14
Seasonal space heating energy efficiency	ης	%	194	117	187	128
Annual energy consumption	Q <sub>he</sub>	kWh	3967	4529	4482	5220
Acoustic values	ne				<u> </u>	L
Sound power level of indoor unit	L <sub>wa</sub>	dBa		4	6	
Sound power level of outdoor unit	L <sub>wa</sub>	dBa	6	9	7	0
Declared capacity for heating for part load at indoor temper		nd outdoor te	mperature Tj			
Tj = -7°C	Pdh	kW	10,0	8,2	11,1	10,0
Tj = +2°C	Pdh	kW	6,1	5,0	6,7	6,1
Tj = +7°C	Pdh	kW	6,2	5,9	6,2	5,9
Tj = +12°C	Pdh	kW	7,4	7,0	7,3	7,1
Tj = bivalent temperature	Pdh	kW	10,0	8,2	11,1	10,0
Tj = operation limit temperature	Pdh	kW	10,0	8,0	10,8	9,3
Bivalent temperature	T <sub>biv</sub>	°C	-7	-7	-7	-7
Degradation coefficient (3)	Cdh	-	0,9	0,9	0,9	0,9
Declared coefficient of performance or primary energy ratio	for part load	at indoor ten	nperature 20°C			
Tj = -7°C	COP	-	2,6	1,9	2,5	1,9
Tj = +2°C	COP	-	3,7	2,7	3,6	2,8
Tj = +7°C	COP	-	5,3	3,8	5,4	3,9
Tj = +12°C	COP	-	6,9	4,8	6,9	5,1
Tj = bivalent temperature	COP	-	2,6	1,9	2,5	1,9
Tj = operation limit temperature	COPd	-	2,2	1,7	2,4	1,7
For Air-to-water heat pump: Operation limit temperature	TOL	°C	-10	-10	-10	-10
Heating water operating limit temperature	WTOL	°C	55	55	55	55

Trade name / Models :	atlantic / Alféa			extens	sa + 13	exten	sa + 16		
Reference				522	226	522 227			
Heating ranges				35°C	55°C	35°C	55°C		
Supplementary heater									
Rated heat output (2)		$P_{sup}$	kW	1,3	1,3	1,7	2,1		
Type of energy input		-	-	- Electricity					
Power consumption in modes other	er than active mode								
Off mode		P <sub>OFF</sub>	W	8	8	8	8		
Thermostat-off mode		P <sub>to</sub>	W	45	22	72	25		
Standby mode		P <sub>SB</sub>	W	12	12	12	12		
Crankcase heater mode		P <sub>ck</sub>	W	0	0	0	0		
Other items									
Capacity control		-	-	Inverter					
For Air-to-water heat pump, rated air flow	rate	-	m³/h	62	200	62	200		

<sup>(1)</sup> Seasonal efficiency calculation is detailed in package fiche - room units are available as option and includes: thermostat and room sensors, room unit controller wether they are, or not, integrated in kits.

<sup>(2)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output P<sub>rated</sub> is equal to the design load for heating P<sub>designh</sub>, and the rated heat output of the supplementary heater P<sub>sup</sub> is equal to the supplementary capacity for heating sup(Tj).

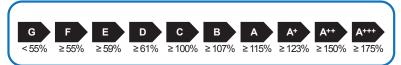
<sup>(3)</sup> If Cdh is not determinated by measurement then the default degradation coefficient is Cdh=0.9.

#### 5.2.1 Package fiche

Outdoor sensor included in the package	
Controller class	=
Contribution to engery efficiency	2%

Room unit references	073951 075313 073954 074061
Controller class	VI
Contribution to engery efficiency	4%

#### - application 35 °C



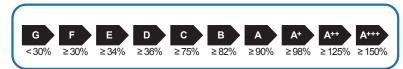
Models Alféa	exten	sa + 5	exten	sa + 6	exten	sa + 8	extensa + 10	
Reference	522	220	522 221		522 222		522	2 225
Seasonal space heating energy efficiency of heat pump	169%		169%		156%		155%	
Type of temperature control (* = Outdoor sensor ;** = Room unit )	* class II  ** class VI		* class II	** class VI	* class II	** class VI	* class II	** class VI
Bonus	2%	4%	2%	4%	2%	4%	2%	4%
Seasonal space heating energy efficiency of package under average climate	171%	173%	171%	173%	158%	160%	157%	159%
Energy class of package	A++	A++	A++	A++	A++	A++	A++	A++
Seasonal space heating energy efficiency of package under warmer climate	219%	221%	223%	225%	220%	222%	205%	207%
Seasonal space heating energy efficiency of package under colder climate	NA							

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as the efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.

Models Alféa	exten	sa + 13	exten	sa + 16	
Reference	522	2 226	522 227		
Seasonal space heating energy efficiency of heat pump	15	51%	14	18%	
Type of temperature control (* = Outdoor sensor;** = Room unit )	* classe II	** classe VI	* classe II	** classe VI	
Bonus	2%	4%	2%	4%	
Seasonal space heating energy efficiency of package under average climate	153%	155%	150%	152%	
Energy class of package	A++	A++	A++	A++	
Seasonal space heating energy efficiency of package under warmer climate	196%	198%	189%	191%	
Seasonal space heating energy efficiency of package under colder climate		N	NA		

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as the efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.

#### - application 55 °C



Models Alféa	exter	extensa + 5		sa + 6	exten	sa + 8	extensa + 10	
Reference	522	220	522 221		522 222		522 225	
Seasonal space heating energy efficiency of heat pump	11	115%		115%		118%		3%
Type of temperature control (* = Outdoor sensor ;** = Room unit )	* classe II	* classe II		** classe VI	* classe II	** classe VI	* classe II	** classe VI
Bonus	2%	4%	2%	4%	2%	4%	2%	4%
Seasonal space heating energy efficiency of package under average climate	117%	119%	117%	119%	120%	122%	115%	117%
Energy class of package	A+	A+	A+	A+	A+	A+	A+	A+
Seasonal space heating energy efficiency of package under warmer climate	140%	142%	141%	143%	144%	146%	136%	138%
Seasonal space heating energy efficiency of package under colder climate	NA							

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as the efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.

Models Alféa	extens	sa + 13	exten	sa + 16		
Reference	522	226	522 227			
Seasonal space heating energy efficiency of heat pump	10	9%	11	3%		
Type of temperature control (* = Outdoor sensor ;** = Room unit )	* classe II	** classe VI	* classe II	** classe VI		
Bonus	2%	4%	2%	4%		
Seasonal space heating energy efficiency of package under average climate	111%	113%	115%	117%		
Energy class of package	A+	A+	A+	A+		
Seasonal space heating energy efficiency of package under warmer climate	119%	121%	130%	132%		
Seasonal space heating energy efficiency of package under colder climate	NA					

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as the efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.

## 5.3 ErP specifications Excellia

Trade name / Models :	atlantic /	Alféa	Exce	llia 11	Exce	llia 14	Excelli	a tri 11	Excell	ia tri 14	Excelli	ia tri 16	
Reference			522	888	522	889	522	890	522	891	522	892	
Heating ranges			35°C	55°C	35°C	55°C	35°C	55°C	35°C	55°C	35°C	55°C	
Air-to-water heat pump							Ye	es			`		
Equipped with a supplementary heater			Yes (Required accessory)										
Average climate - Space heating char	acteristics												
Energy class	-	-	A++	A+	A+	A+	A++	A+	A++	A+	A+	A+	
Rated heat output (2)	P <sub>rated</sub>	kW	11	9	13	11	11	9	13	11	14	13	
Seasonal space heating energy efficiency	$\eta_{s}$	%	151	109	148	113	154	112	150	117	149	117	
Seasonal efficiency for package with outdoor temperature sensor (1)	$\eta_{\rm s}$	%	153	111	150	115	156	114	152	119	151	119	
Seasonal efficiency with room unit (1)	$\eta_{\rm s}$	%	155	113	152	117	158	116	154	121	153	121	
Annual energy consumption	Q <sub>he</sub>	kWh	6062	6842	6824	8041	5930	6669	6738	7803	7408	9062	
Colder climate - Space heating characteristics	cteristics												
Rated heat output (2)	$P_{rated}$	kW	15	13	17	15	15	12	17	15	18	17	
Seasonal space heating energy efficiency	$\eta_{s}$	%	121	100	118	100	124	100	122	100	119	100	
Annual energy consumption	$Q_{he}$	kWh	11048	11994	12834	14130	10911	11554	12567	13692	13710	15667	
Warmer climate - Space heating char-													
Rated heat output (2)	P <sub>rated</sub>	kW	15	11	17	14	14	11	16	14	17	16	
Seasonal space heating energy efficiency	$\eta_{\rm s}$	%	194	117	187	128	194	123	191	133	192	139	
Annual energy consumption	$Q_{he}$	kWh	3967	4529	4482	5220	3505	4432	4039	5064	4300	5522	
Acoustic values													
Sound power level of indoor unit	L <sub>wa</sub>	dBa	4	-6	4	16	4	6	4	ŀ6	4	ŀ6	
Sound power level of outdoor unit	L <sub>WA</sub>	dBa	6	9	7	70	6	8	6	69	7	'0	
Declared capacity for heating for part	load at ind	oor temp	erature :	20°C and	d outdoo	r tempera	ature Tj						
Tj = -7°C	Pdh	kW	10,0	8,2	11,1	10,0	10,0	8,2	11,1	10,0	12,0	11,5	
Tj = +2°C	Pdh	kW	6,1	5,0	6,7	6,1	6,1	5,0	6,7	6,1	7,3	7,0	
Tj = +7°C	Pdh	kW	6,2	5,9	6,2	5,9	6,2	5,9	6,2	5,9	6,3	5,8	
Tj = +12°C	Pdh	kW	7,4	7,0	7,3	7,1	7,4	7,0	7,3	7,1	7,4	7,1	
Tj = bivalent temperature	Pdh	kW	10,0	8,2	11,1	10,0	10,0	8,2	11,1	10,0	12,0	11,5	
Tj = operation limit temperature	Pdh	kW	10,0	8,0	10,8	9,3	9,9	8,1	10,8	9,3	11,7	10,3	
Bivalent temperature	T <sub>biv</sub>	°C	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	
Degradation coefficient (3)	Cdh	-	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	

Trade name / Models :	atlantic / /	Alféa	Exce	llia 11	Exce	llia 14	Excelli	ia tri 11	Excelli	ia tri 14	Excell	ia tri 16
Reference			522	888	522	889	522	890	522	891	522	892
Heating ranges			35°C	55°C	35°C	55°C	35°C	55°C	35°C	55°C	35°C	55°C
Declared coefficient of performance of	r primary e	nergy ra	tio for pa	art load a	t indoor	temperat	ure 20°C	and out	door ten	nperature	: Tj	
Tj = -7°C	COP <sub>d</sub>	-	2,6	1,9	2,5	1,9	2,7	1,9	2,5	2,0	2,4	1,8
Tj = +2°C	COP <sub>d</sub>	-	3,7	2,7	3,6	2,8	3,7	2,7	3,7	2,9	3,6	2,9
Tj = +7°C	COP <sub>d</sub>	-	5,3	3,8	5,4	3,9	5,5	3,9	5,4	4,1	5,5	4,1
Tj = +12°C	COP <sub>d</sub>	-	6,9	4,8	6,9	5,1	7,1	5,2	7,0	5,4	7,2	5,5
Tj = bivalent temperature	COP <sub>d</sub>	-	2,6	1,9	2,5	1,9	2,7	1,9	2,5	2,0	2,4	1,8
Tj = operation limit temperature	COP <sub>d</sub>	-	2,2	1,7	2,4	1,7	2,3	1,6	2,4	1,6	2,3	1,6
For Air-to-water heat pump: Operation limit temperature	TOL	°C	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
Heating water operating limit temperature	WTOL	°C	60	60	60	60	60	60	60	60	60	60
Supplementary heater												
Rated heat output (2)	$P_{sup}$	kW	1,3	1,3	1,7	2,1	1,4	1,2	1,7	2,0	1,9	2,7
Type of energy input	-	-					Elec	tricity				
Power consumption in modes other th	nan active r	node										
Off mode	P <sub>off</sub>	W	8	8	8	8	14	14	14	14	14	14
Thermostat-off mode	$P_{TO}$	W	45	22	72	25	44	32	66	43	88	32
Standby mode	P <sub>SB</sub>	W	12	12	12	12	17	17	12	17	17	17
Crankcase heater mode	Рск	W	0	0	0	0	0	0	0	0	0	0
Other items												
Capacity control	-	-					inve	erter				
For Air-to-water heat pump, rated air flow rate	-	m³/h				62	200				69	900

<sup>(1)</sup> Seasonal efficiency calculation is detailed in package fiche - room units are available as option and includes: thermostat and room sensors, room unit controller wether they are, or not, integrated in kits.

<sup>(2)</sup> For heat pump space heaters and heat pump combination heaters, the rated heat output  $P_{\text{rated}}$  is equal to the design load for heating  $P_{\text{designh}}$ , and the rated heat output of the supplementary heater  $P_{\text{sup}}$  is equal to the supplementary capacity for heating  $\text{sup}(T_j)$ .

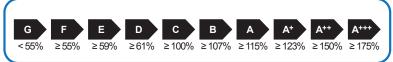
<sup>(3)</sup> If Cdh is not determinated by measurement then the default degradation coefficient is Cdh=0.9.

#### 5.3.1 Package fiche

Outdoor sensor included in the package							
Controller class	II						
Contribution to engery efficiency	2%						

Room unit references	073951 075313 073954 074061				
Controller class	VI				
Contribution to engery efficiency	4%				

#### **■ application 35 °C**



Models: Alféa	Excellia 11 522 888		Excellia 14 522 889		Excellia tri 11 522 890		Excellia tri 14 522 891		Excellia tri 16 522 892	
Reference										
Seasonal space heating energy efficiency of heat pump	151%		148%		154%		150%		149%	
Type of temperature control (* = Outdoor sensor; ** = Room unit )	* classe	** classe VI	* classe	** classe VI	* classe	** classe VI	* classe	** classe VI	* classe	** classe VI
Bonus	2%	4%	2%	4%	2%	4%	2%	4%	2%	4%
Seasonal space heating energy efficiency of package under average climate	153%	155%	150%	152%	156%	158%	152%	154%	151%	153%
Energy class of package	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
Seasonal space heating energy efficiency of package under warmer climate	196%	198%	189%	191%	196%	198%	193%	195%	194%	198%
Seasonal space heating energy efficiency of package under colder climate	123%	125%	120%	122%	126%	128%	124%	126%	121%	123%

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as the efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.

#### **■ application 55 °C**



Models: Alféa	Excellia 11 522 888		Excellia 14 522 889		Excellia tri 11 522 890		Excellia tri 14 522 891		Excellia tri 16 522 892	
Reference										
Seasonal space heating energy efficiency of heat pump	109%		113%		112%		117%		117%	
Type of temperature control (* = Outdoor sensor; ** = Room unit )	* classe	** classe VI	* classe	** classe VI	* classe	** classe VI	* classe	** dasse VI	* classe	** classe VI
Bonus	2%	4%	2%	4%	2%	4%	2%	4%	2%	4%
Seasonal space heating energy efficiency of package under average climate	111%	113%	115%	117%	114%	116%	119%	121%	119%	121%
Energy class of package	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+
Seasonal space heating energy efficiency of package under warmer climate	119%	121%	130%	132%	125%	127%	135%	137%	141%	143%
Seasonal space heating energy efficiency of package under colder climate	102%	104%	102%	104%	102%	104%	102%	104%	102%	104%

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This appliance is marked with this symbol. This means that electrical and electronic products shall not be mixed with general household waste. European Community countries(\*), Norway, Iceland and Liechtenstein should have a dedicated collection system for these products.

Do not try to dismantle the system yourself as this could have harmful effects on your health and on the environment.

The dismantling and treatment of refrigerant, oil and other parts must be done by a qualified installer in accordance with relevant local and national regulations. This appliance must be treated at a specialized treatment facility for re-use, recycling and other forms of recovery and shall not be disposed of in the municipal waste stream. Please contact the installer or local authority for more information.

\* subject to the national law of each member state

Date of installation :



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