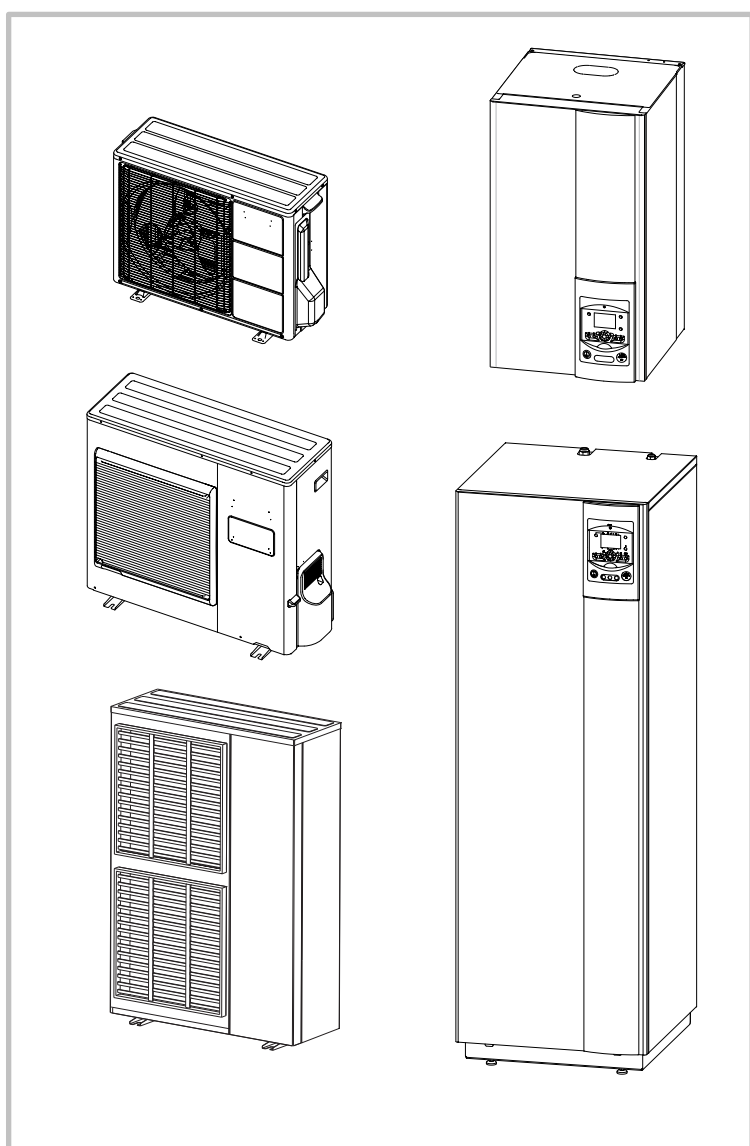


alféa extensa + and alféa extensa duo +

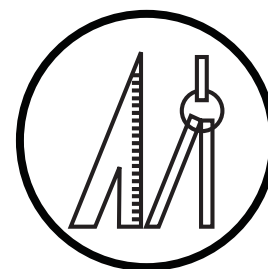
**Split air / water heat pumps
heating only or heating + DHW**



Document n°1592-7~ 06/01/2016

FR

EN



Technical data
Intended for professionals.
Completed by the
installation and operating
manuals 1734 and 1737.

www.atlantic-comfort.com

Subject to modifications without notice.
Non contractual document.

Models	International code
alféa extensa + 5	522 220
alféa extensa + 6	522 221
alféa extensa + 8	522 222
alféa extensa + 10	522 225
alféa extensa + 13	522 226
alféa extensa + 16	522 227
alféa extensa duo + 5	522 929
alféa extensa duo + 6	522 930
alféa extensa duo + 8	522 931
alféa extensa duo + 10	522 932

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1. General description

For more information, please refer to the installation manuals 1734 (alféa extensa +) and 1737 (alféa extensa duo +).

• Table of dimensions and weight

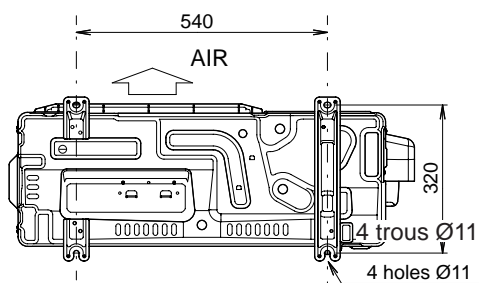
	alféa extensa+ 5	alféa extensa+ 6	alféa extensa+ 8	alféa extensa+ 10	alféa extensa+ 13	alféa extensa+ 16
Reference	522 220	522 221	522 222	522 225	522 226	522 227
Outdoor unit name	WOYA060LFCA		WOYA080LFCA	WOYA100LFTA	WOYG112LCT	WOYG140LCT
Outdoor unit code	700 171		700 172	700 173	700 117	700 142
Dimensions H x W x D (mm)	622 x 790 x 290			830 x 900 x 330	1290 x 970 x 400	
Weight (kg)	41		42	60	92	
Air flow rate (Heating) (m ³ /h)	2070		2340	3600	6200	
Hydraulic unit	023 650	023 651			023 652	
Dimensions H x W x D (mm)	800 x 450 x 480					
Weight empty / water (kg)	42 / 58					

	alféa extensa duo + 5	alféa extensa duo + 6	alféa extensa duo + 8	alféa extensa duo + 10
Reference	522 929	522 930	522 931	522 932
Outdoor unit name	WOYA060LFCA		WOYA080LFCA	WOYA100LFTA
Outdoor unit code	700 171		700 172	700 173
Dimensions H x W x D (mm)	622 x 790 x 290			830 x 900 x 330
Operating weight (kg)	41		42	60
Air flow rate (Heating) (m ³ /h)	2070		2340	3600
Hydraulic unit	023 655	023 656		
Dimensions H x W x D (mm)	1850 x 650 x 698			
Weight empty / water (kg)	152 / 366			

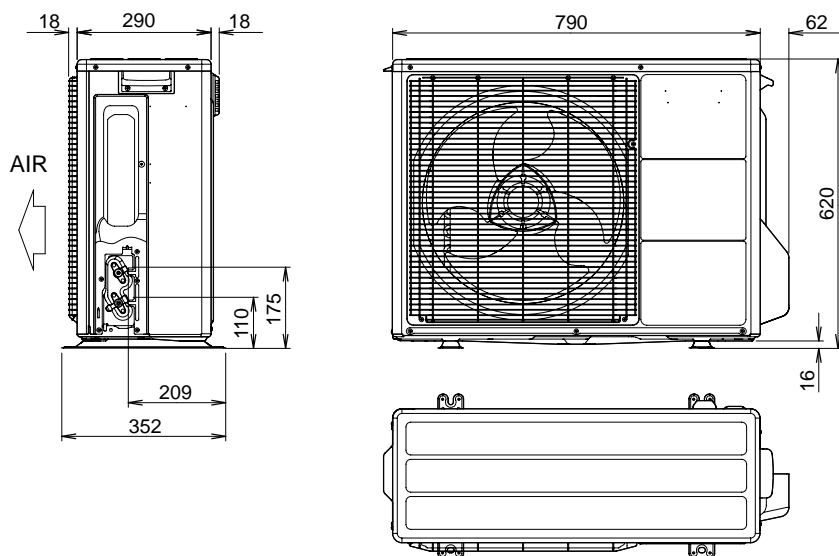
• Drawing

Outdoor unit :

- alféa extensa + 5, 6 and 8 / alféa extensa duo + 5, 6 and 8

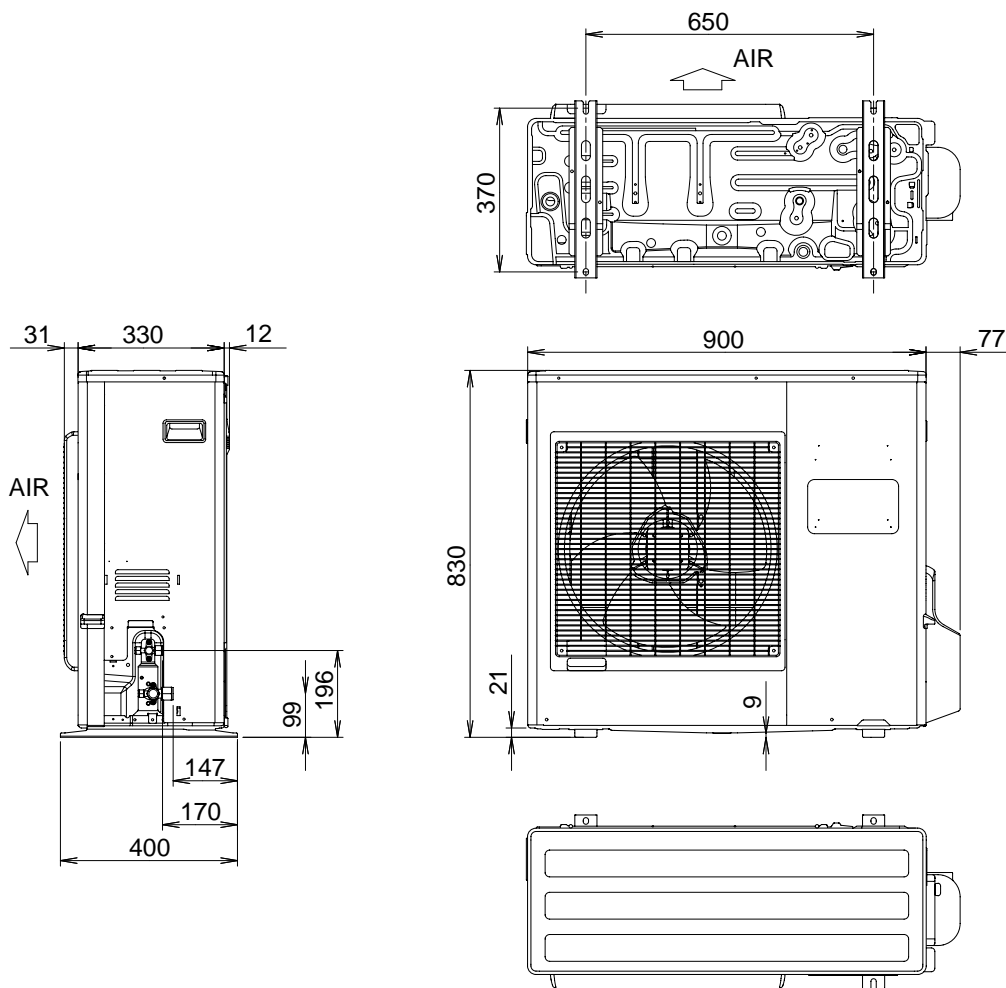


Unit = mm



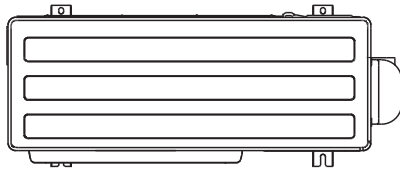
Unit = mm

- alféa extensa + 10 / alféa extensa duo + 10

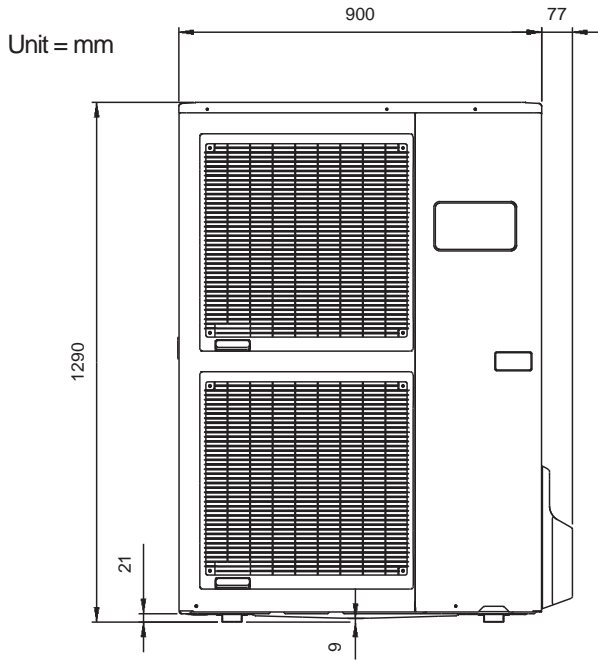


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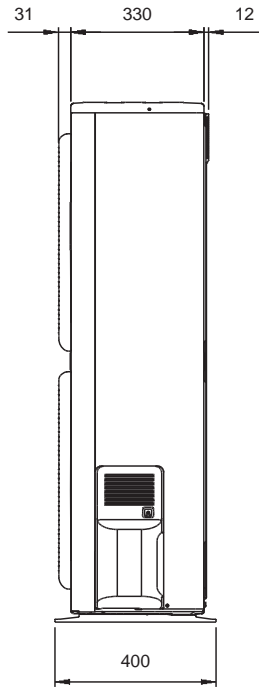
- alféa extensa + 13 and 16



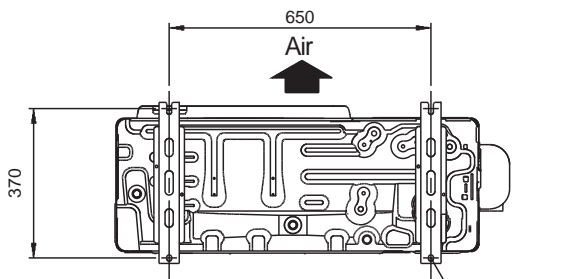
Top view



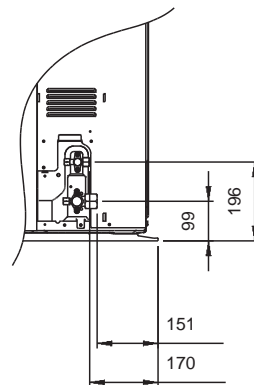
Front view



Side view



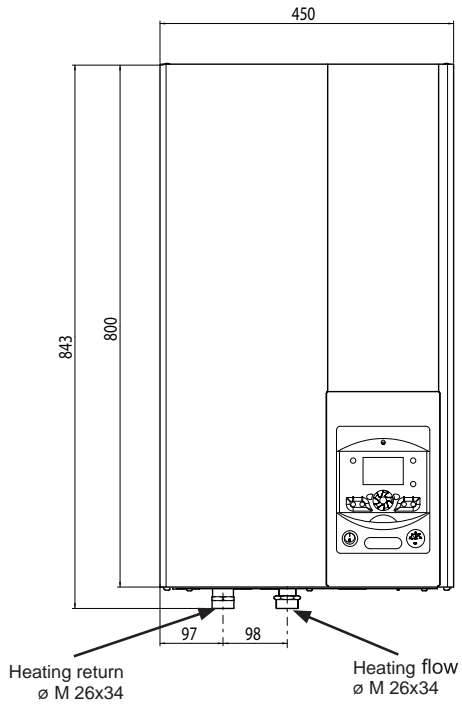
Bottom view



Unit = mm

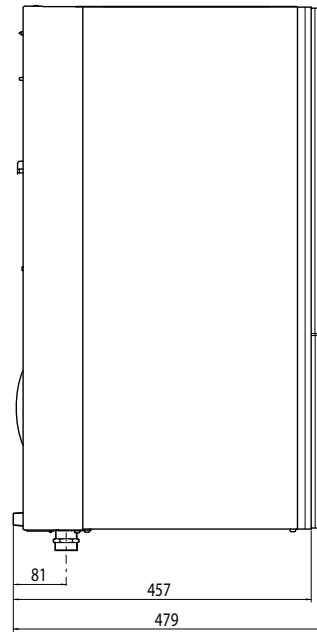
Hydraulic unit :

- alféa extensa +



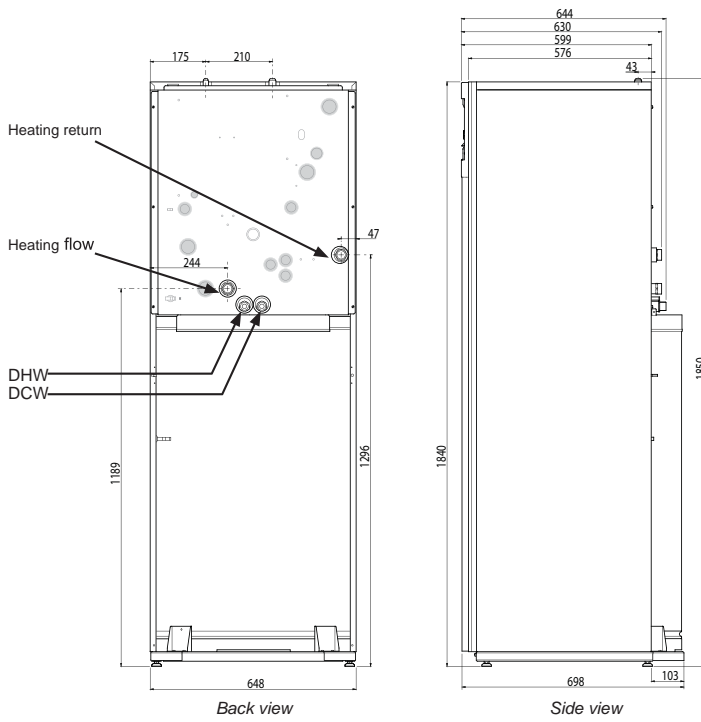
Front view

Unit = mm



Side view

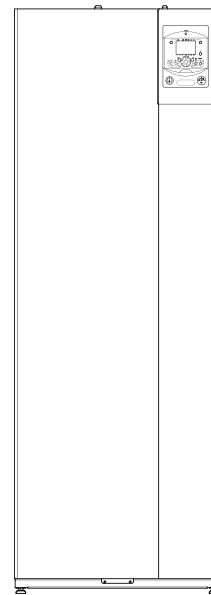
- alféa extensa duo +



Back view

Side view

Unit = mm
 DHW = Domestic hot water
 DCW = Domestic cool water



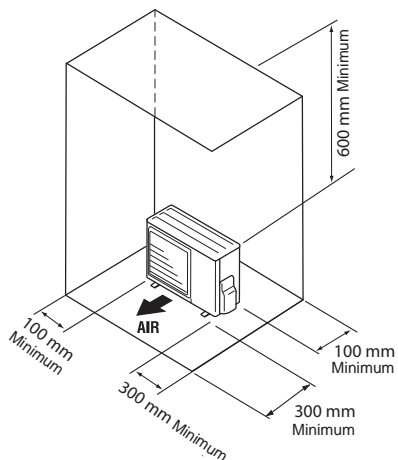
Front view

• **Installation area**

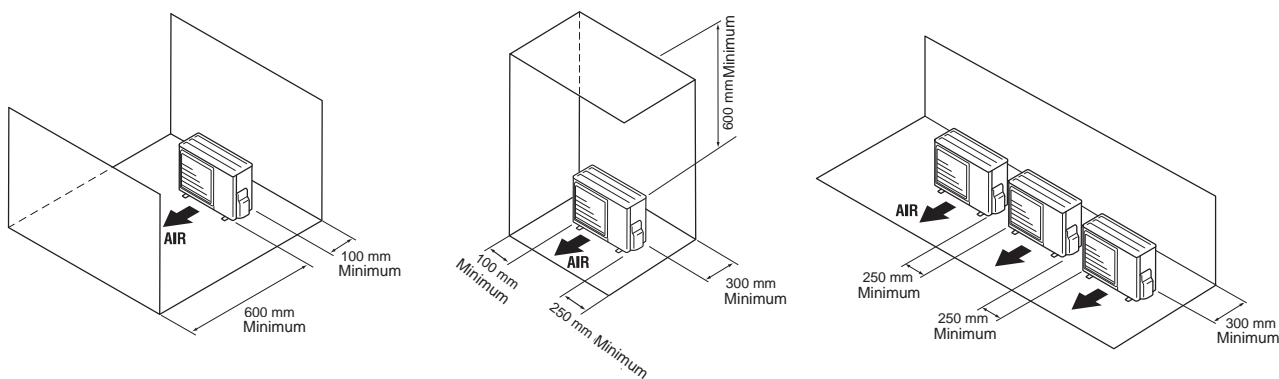
Outdoor unit :

The outdoor unit must only be installed outside. If a shelter is required, it must have broad openings on all 4 sides and the following clearances shall be respected.

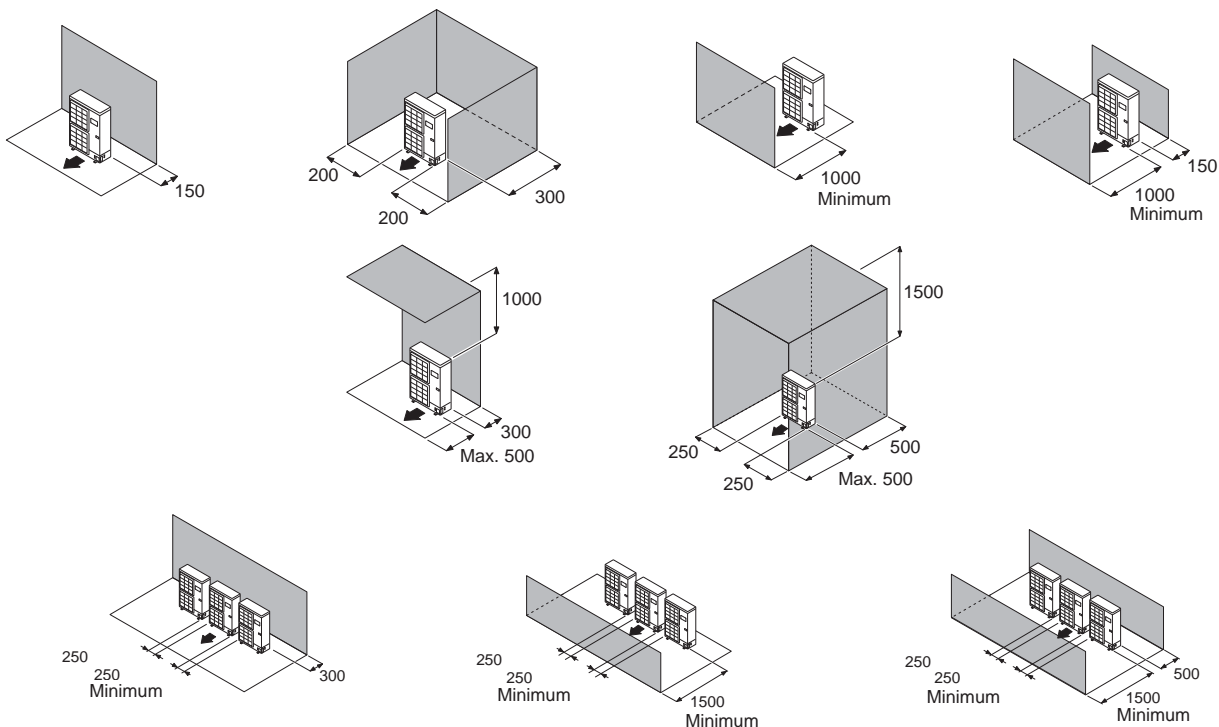
- alféa extensa + 5, 6 and 8 / alféa extensa duo + 5, 6 and 8

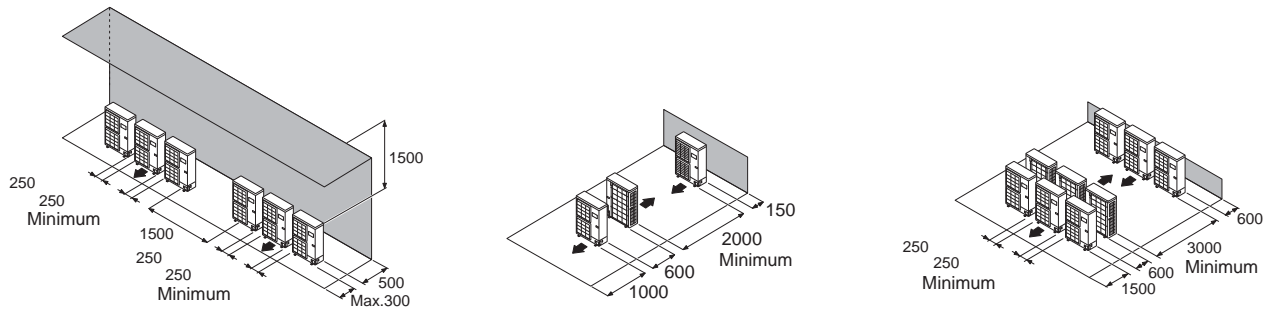


- alféa extensa + 10 / alféa extensa duo + 10



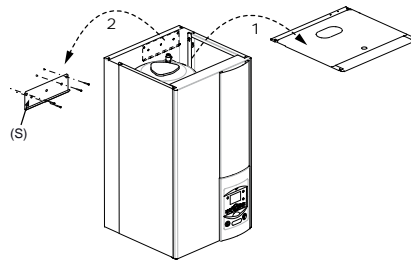
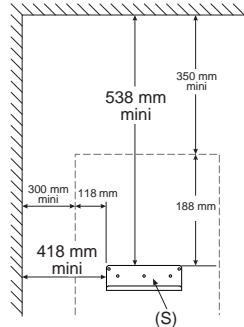
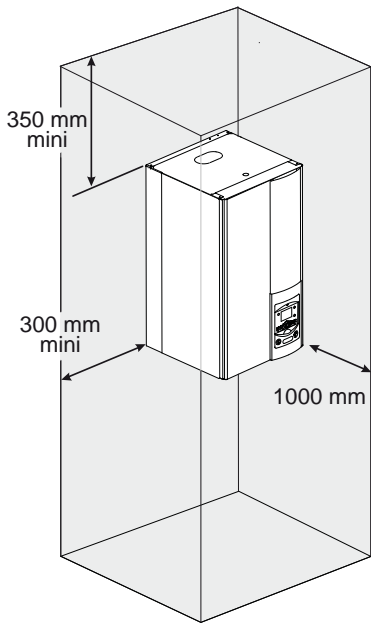
- alféa extensa + 13 and 16





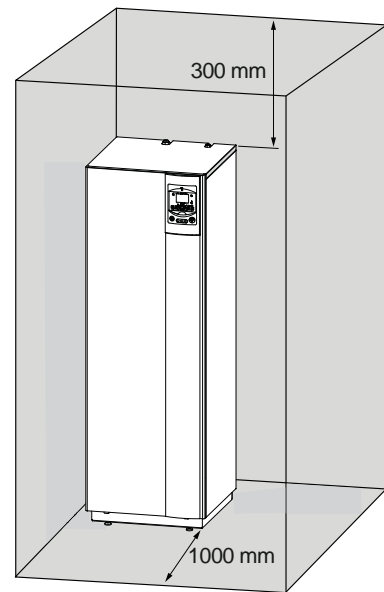
Hydraulic unit :

- alféa extensa +



Hydraulic module installation

- alféa extensa duo +



According to EN 378-1 (requirement of safety and environmental for heat pump), the heat pump must be installed in a room with minimal volume is : machine load in kg / 0,44.

Otherwise, it must be ensured that :

- Either the room is mechanically ventilated,
- Either the door is left open when the installer comes on the heat pump.

- Pipe connections

		alféa extensa+ 5	alféa extensa+ 6	alféa extensa+ 8	alféa extensa+ 10	alféa extensa+ 13	alféa extensa+ 16
Input and Output heating diameters (male thread) circuit (inch)	pouce	1"	1"	1"	1"	1"	1"
Diameter of «Gas» pipes (inch)		1/2	1/2	5/8	5/8	5/8	5/8
Diameter of «Liquid» pipes (inch)		1/4	1/4	1/4	3/8	3/8	3/8

		alféa extensa duo + 5	alféa extensa duo + 6	alféa extensa duo + 8	alféa extensa duo + 10
Input and Output heating diameters (male thread) circuit (inch)	pouce	1"	1"	1"	1"
Diameter of «Gas» pipes (inch)		1/2	1/2	5/8	5/8
Diameter of «Liquid» pipes (inch)		1/4	1/4	1/4	3/8

- ERP datas

	alféa extensa+ 5	alféa extensa+ 6	alféa extensa+ 8	alféa extensa+ 10	alféa extensa+ 13	alféa extensa+ 16
Energy class - heating (35°/55°)	A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Rated heat output (kW)	4 / 4	5 / 5	7 / 6	8 / 8	11 / 9	13 / 11
Energy seasonal efficiency - heating (35°/55°) (%)	171 / 117	171 / 117	158 / 120	157 / 115	153 / 111	151 / 115
Annual energy consumption - heating (35°/55°) (kWh)	2160 / 3027	2505 / 3180	3375 / 3886	4415 / 5415	6062 / 6842	6824 / 8041
Acoustic power (indoor / outdoor) (dBa)	46 / 63	46 / 63	46 / 69	46 / 69	46 / 69	46 / 70

	alféa extensa duo + 5	alféa extensa duo + 6	alféa extensa duo + 8	alféa extensa duo + 10
Energy class - heating (35°/55°)	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Rated heat output (kW)	4 / 4	5 / 5	7 / 6	8 / 8
Energy seasonal efficiency - heating (35°/55°) (%)	171 / 117	171 / 117	158 / 120	157 / 115
Annual energy consumption - heating (35°/55°) (kWh)	2160 / 3027	2510 / 3183	3379 / 3891	4430 / 5422
Acoustic power (indoor / outdoor) (dBa)	46 / 63	46 / 63	46 / 69	46 / 69
Declared load profile - DHW	L	L	L	L
Energy class - DHW	A+	A+	A+	A+
Annual energy consumption - DHW (kWh)	880	880	880	880
Efficacité énergétique saisonnière - DHW (%)	120	120	120	120

2. Performances

2.1 Nominal performances and sound power

		alféa extensa+ 5	alféa extensa+ 6	alféa extensa+ 8	alféa extensa+ 10	alféa extensa+ 13	alféa extensa+ 16
+7°C/+35°C Floor heating	Heating capacity (kW)	4.50	6,00	7,50	10,00	14,01	16,06
	Input power (kW)	1.00	1,41	1,84	2,49	3,50	4,37
	COP	4.52	4,26	4,08	4,02	4,00	3,68
+2°C/+35°C Floor heating	Heating capacity (kW)	4.50	4,95	5,65	7,70	6,97	6,97
	Input power (kW)	1.39	1,53	1,78	2,47	2,24	2,24
	COP	3.24	3,24	3,17	3,12	3,11	3,11
-7°C/+35°C Floor heating	Heating capacity (kW)	4.10	4,60	5,70	7,40	9,45	12,93
	Input power (kW)	1.47	1,74	2,23	2,97	3,92	5,32
	COP	2.79	2,64	2,56	2,49	2,41	2,43
+7°C/+45°C Radiator low voltage	Heating capacity (kW)	4.50	5,10	6,20	8,27	10,43	13,60
	Input power (kW)	1.31	1,50	1,87	2,53	3,19	4,38
	COP	3.44	3,40	3,32	3,27	3,27	3,11
+2°C/+45°C Radiator low voltage	Heating capacity (kW)	4.00	4,50	5,00	6,80	5,82	5,82
	Input power (kW)	1.48	1,69	1,92	2,62	2,24	2,24
	COP	2.70	2,66	2,60	2,60	2,60	2,60
-7°C/+45°C Radiator low voltage	Heating capacity (kW)	4.10	4,45	5,05	7,40	9,25	11,20
	Input power (kW)	1.86	2,04	2,47	3,70	4,38	5,22
	COP	2.20	2,18	2,04	2,00	2,12	2,15
+7°C/+55°C Radiator high voltage	Heating capacity (kW)	4.50	4,50	5,00	7,00	7,84	10,03
	Input power (kW)	1.79	1,79	1,94	2,86	3,25	4,01
	COP	2.51	2,51	2,58	2,45	2,41	2,50
-7°C/+55°C Radiator high voltage	Heating capacity (kW)	3.70	3,85	5,20	7,00	7,29	8,65
	Input power (kW)	2.20	2,33	3,34	4,15	4,45	5,20
	COP	1.68	1,65	1,56	1,69	1,64	1,66
Sound power* (dBA)	Outdoor unit	63	63	69	69	69	70
	Hydraulic unit	46	46	46	46	46	46

Test conditions comply with EN 14-511.

* Sound power at 7/55°C according to EN12102 ; Sound power is a laboratory measurement of the sound power emitted but unlike at sound level, it does not correspond to the feel perceived. Used by specialists in acoustics, it allows to calculate the sound pressure level that is a function of the environment.

		alféa extensa duo + 5	alféa extensa duo + 6	alféa extensa duo + 8	alféa extensa duo + 10
+7°C/+35°C Floor heating	Heating capacity (kW)	4,50	6,00	7,50	10,00
	Input power (kW)	1,00	1,41	1,84	2,49
	COP	4,52	4,26	4,08	4,02
+2°C/+35°C Floor heating	Heating capacity (kW)	4,50	4,95	5,65	7,70
	Input power (kW)	1,39	1,53	1,78	2,47
	COP	3,24	3,24	3,17	3,12
-7°C/+35°C Floor heating	Heating capacity (kW)	4,10	4,60	5,70	7,40
	Input power (kW)	1,47	1,74	2,23	2,97
	COP	2,79	2,64	2,56	2,49
+7°C/+45°C Radiator low voltage	Heating capacity (kW)	4,50	5,10	6,20	8,27
	Input power (kW)	1,31	1,50	1,87	2,53
	COP	3,44	3,40	3,32	3,27
+2°C/+45°C Radiator low voltage	Heating capacity (kW)	4,00	4,50	5,00	6,80
	Input power (kW)	1,48	1,69	1,92	2,62
	COP	2,70	2,66	2,60	2,60
-7°C/+45°C Radiator low voltage	Heating capacity (kW)	4,10	4,45	5,05	7,40
	Input power (kW)	1,86	2,04	2,47	3,70
	COP	2,20	2,18	2,04	2,00
+7°C/+55°C Radiator high voltage	Heating capacity (kW)	4,50	4,50	5,00	7,00
	Input power (kW)	1,79	1,79	1,94	2,86
	COP	2,51	2,51	2,58	2,45
-7°C/+55°C Radiator high voltage	Heating capacity (kW)	3,70	3,85	5,20	7,00
	Input power (kW)	2,20	2,33	3,34	4,15
	COP	1,68	1,65	1,56	1,69
Sound power* (dBA)	Hydraulic unit	46	46	46	46
	Outdoor unit	63	63	69	69

Test conditions comply with EN 14-511.

* Sound power at 7/55°C according to EN12102 ; Sound power is a laboratory measurement of the sound power emitted but unlike at sound level, it does not correspond to the feel perceived. Used by specialists in acoustics, it allows to calculate the sound pressure level that is a function of the environment.

2.2 Nominal performances tables (Heating mode)

Test conditions comply with EN 14-511 (defrosting included)

2.2.1 alféa extensa + 5 and alféa extensa duo + 5

		Starting temperature																	
		30°C			35°C			40°C			45°C			50°C			55°C		
		HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
Outdoor temperature	-20°C	2,87	1,25	2,30	2,87	1,37	2,09	2,73	1,46	1,87									
	-19°C	3,03	1,26	2,40	3,03	1,39	2,18	2,88	1,48	1,95									
	-18°C	3,19	1,28	2,49	3,19	1,41	2,26	3,04	1,50	2,03									
	-17°C	3,35	1,29	2,60	3,35	1,43	2,34	3,19	1,52	2,10									
	-16°C	3,51	1,31	2,68	3,51	1,44	2,44	3,35	1,54	2,18									
	-15°C	3,67	1,32	2,77	3,67	1,46	2,52	3,50	1,56	2,25	3,32	1,64	2,02						
	-14°C	3,72	1,32	2,82	3,73	1,46	2,55	3,58	1,57	2,29	3,42	1,67	2,05						
	-13°C	3,78	1,32	2,86	3,78	1,46	2,59	3,65	1,58	2,31	3,51	1,70	2,06						
	-12°C	3,83	1,32	2,90	3,83	1,46	2,62	3,73	1,59	2,35	3,61	1,72	2,10						
	-11°C	3,89	1,32	2,95	3,89	1,47	2,65	3,80	1,61	2,36	3,71	1,75	2,12	3,51	1,91	1,84			
	-10°C	3,94	1,32	2,98	3,94	1,47	2,68	3,88	1,63	2,39	3,81	1,78	2,14	3,61	1,94	1,86			
	-9°C	3,99	1,32	3,02	3,99	1,47	2,71	3,95	1,64	2,41	3,90	1,81	2,15	3,70	1,97	1,89			
	-8°C	4,05	1,32	3,07	4,05	1,47	2,76	4,03	1,65	2,44	4,00	1,83	2,19	3,80	1,99	1,91			
	-7°C	4,10	1,32	3,11	4,10	1,47	2,79	4,10	1,65	2,48	4,10	1,86	2,20	3,90	2,02	1,93	3,70	2,20	1,68
	-6°C	4,14	1,32	3,14	4,14	1,46	2,84	4,12	1,64	2,51	4,09	1,82	2,25	3,91	1,98	1,97	3,73	2,18	1,71
	-5°C	4,19	1,31	3,20	4,19	1,45	2,89	4,14	1,62	2,56	4,08	1,78	2,29	3,92	1,94	2,02	3,77	2,15	1,75
	-4°C	4,23	1,31	3,23	4,23	1,44	2,94	4,15	1,59	2,62	4,07	1,73	2,35	3,93	1,91	2,06	3,80	2,13	1,78
	-3°C	4,28	1,31	3,27	4,28	1,44	2,97	4,17	1,57	2,66	4,06	1,69	2,40	3,94	1,87	2,11	3,83	2,10	1,82
	2°C	4,32	1,30	3,32	4,32	1,43	3,02	4,18	1,54	2,71	4,04	1,65	2,45	3,96	1,83	2,16	3,87	2,08	1,86
	-1°C	4,37	1,30	3,36	4,37	1,42	3,08	4,20	1,52	2,77	4,03	1,61	2,50	3,97	1,79	2,21	3,90	2,05	1,90
	0°C	4,41	1,30	3,39	4,41	1,41	3,13	4,22	1,49	2,84	4,02	1,56	2,58	3,98	1,76	2,27	3,93	2,03	1,94
	1°C	4,46	1,29	3,46	4,46	1,40	3,19	4,24	1,45	2,93	4,01	1,52	2,64	3,99	1,72	2,32	3,97	2,00	1,99
	2°C	4,50	1,29	3,49	4,50	1,39	3,24	4,25	1,42	2,99	4,00	1,48	2,70	4,00	1,68	2,38	4,00	1,98	2,02
	3°C	4,50	1,20	3,75	4,50	1,30	3,46	4,31	1,36	3,17	4,13	1,45	2,85	4,13	1,65	2,50	4,13	1,94	2,13
	4°C	4,50	1,10	4,09	4,50	1,21	3,72	4,38	1,29	3,40	4,25	1,41	3,01	4,25	1,61	2,64	4,25	1,91	2,23
	5°C	4,50	0,94	4,77	4,50	1,06	4,24	4,50	1,20	3,76	4,50	1,37	3,28	4,50	1,58	2,85	4,50	1,88	2,40
	6°C	4,50	0,91	4,94	4,50	1,03	4,38	4,50	1,16	3,87	4,50	1,34	3,37	4,50	1,54	2,92	4,50	1,83	2,46
	7°C	4,50	0,88	5,11	4,50	1,00	4,52	4,50	1,13	3,98	4,50	1,32	3,42	4,50	1,51	2,99	4,50	1,79	2,51
	8°C	4,50	0,85	5,28	4,50	0,97	4,66	4,50	1,10	4,09	4,50	1,27	3,55	4,50	1,48	3,05	4,50	1,76	2,56
	9°C	4,50	0,83	5,45	4,50	0,94	4,80	4,50	1,07	4,20	4,50	1,24	3,64	4,50	1,44	3,12	4,50	1,72	2,62
	10°C	4,50	0,80	5,61	4,50	0,91	4,94	4,50	1,04	4,32	4,50	1,21	3,73	4,50	1,41	3,19	4,50	1,69	2,67
	11°C	4,50	0,78	5,78	4,50	0,89	5,08	4,50	1,02	4,43	4,50	1,18	3,82	4,50	1,38	3,26	4,50	1,65	2,72
	12°C	4,50	0,76	5,95	4,50	0,86	5,22	4,50	0,99	4,54	4,50	1,15	3,91	4,50	1,35	3,33	4,50	1,62	2,78
	13°C	4,50	0,74	6,12	4,50	0,84	5,36	4,50	0,97	4,65	4,50	1,13	4,00	4,50	1,32	3,40	4,50	1,59	2,83
	14°C	4,50	0,72	6,28	4,50	0,82	5,49	4,50	0,94	4,77	4,50	1,10	4,09	4,50	1,30	3,47	4,50	1,56	2,88
15°C	4,50	0,70	6,45	4,50	0,80	5,63	4,50	0,92	4,88	4,50	1,08	4,18	4,50	1,27	3,54	4,50	1,54	2,93	
16°C	4,50	0,68	6,62	4,50	0,78	5,77	4,50	0,90	4,99	4,50	1,05	4,27	4,50	1,25	3,60	4,50	1,51	2,99	
17°C	4,50	0,66	6,79	4,50	0,76	5,91	4,50	0,88	5,10	4,50	1,03	4,36	4,50	1,23	3,67	4,50	1,48	3,04	
18°C	4,50	0,65	6,95	4,50	0,74	6,05	4,50	0,86	5,22	4,50	1,01	4,45	4,50	1,20	3,74	4,50	1,46	3,09	
19°C	4,50	0,63	7,12	4,50	0,73	6,19	4,50	0,84	5,33	4,50	0,99	4,54	4,50	1,18	3,81	4,50	1,43	3,15	
20°C	4,50	0,62	7,29	4,50	0,71	6,33	4,50	0,83	5,44	4,50	0,97	4,63	4,50	1,16	3,88	4,50	1,41	3,20	
21°C	4,50	0,61	7,37	4,50	0,70	6,41	4,50	0,82	5,50	4,50	0,96	4,68	4,50	1,15	3,92	4,50	1,39	3,23	
22°C	4,50	0,60	7,45	4,50	0,69	6,49	4,50	0,81	5,56	4,50	0,95	4,73	4,50	1,14	3,95	4,50	1,38	3,25	
23°C	4,50	0,60	7,53	4,50	0,69	6,56	4,50	0,80	5,63	4,50	0,94	4,77	4,50	1,13	3,99	4,50	1,37	3,28	
24°C	4,50	0,59	7,61	4,50	0,68	6,64	4,50	0,79	5,69	4,50	0,93	4,82	4,50	1,12	4,03	4,50	1,36	3,31	
25°C	4,50	0,59	7,69	4,50	0,67	6,72	4,50	0,78	5,75	4,50	0,92	4,87	4,50	1,11	4,06	4,50	1,35	3,33	
26°C	4,50	0,58	7,77	4,50	0,66	6,80	4,50	0,77	5,81	4,50	0,91	4,92	4,50	1,10	4,10	4,50	1,34	3,36	
27°C	4,50	0,57	7,85	4,50	0,65	6,88	4,50	0,77	5,87	4,50	0,91	4,97	4,50	1,09	4,14	4,50	1,33	3,39	
28°C	4,50	0,57	7,94	4,50	0,65	6,95	4,50	0,76	5,94	4,50	0,90	5,01	4,50	1,08	4,17	4,50	1,32	3,41	
29°C	4,50	0,56	8,02	4,50	0,64	7,03	4,50	0,75	6,00	4,50	0,89	5,06	4,50	1,07	4,21	4,50	1,31	3,44	
30°C	4,50	0,56	8,10	4,50	0,63	7,11	4,50	0,74	6,06	4,50	0,88	5,11	4,50	1,06	4,25	4,50	1,30	3,47	
31°C	4,50	0,55	8,18	4,50	0,63	7,19	4,50	0,74	6,12	4,50	0,87	5,16	4,50	1,05	4,28	4,50	1,29	3,49	
32°C	4,50	0,54	8,26	4,50	0,62	7,27	4,50	0,73	6,18	4,50	0,86	5,21	4,50	1,04	4,32	4,50	1,28	3,52	
33°C	4,50	0,54	8,34	4,50	0,61	7,34	4,50	0,72	6,25	4,50	0,86	5,25	4,50	1,03	4,36	4,50	1,27	3,55	
34°C	4,50	0,53	8,42	4,50	0,61	7,42	4,50	0,71	6,31	4,50	0,85	5,30	4,50	1,03	4,39	4,50	1,26	3,57	
35°C	4,50	0,53	8,50	4,50	0,60	7,50	4,50	0,71	6,37	4,50	0,84	5,35	4,50	1,02	4,43	4,50	1,25	3,60	

HC : Heating capacity (kW)
 IP : Input power (kW)
 COP : Coefficient of performance

2.2.2 alféa extensa + 6 and alféa extensa duo + 6

		Starting temperature																	
		30°C			35°C			40°C			45°C			50°C			55°C		
		HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
Outdoor temperature	-20°C	3,72	1,68	2,21	3,67	1,78	2,06	3,60	1,92	1,87									
	-19°C	3,79	1,66	2,28	3,74	1,76	2,13	3,67	1,90	1,93									
	-18°C	3,87	1,64	2,36	3,82	1,73	2,21	3,75	1,88	1,99									
	-17°C	3,95	1,62	2,44	3,89	1,71	2,27	3,82	1,85	2,06									
	-16°C	4,02	1,60	2,51	3,97	1,69	2,35	3,90	1,83	2,13									
	-15°C	4,10	1,58	2,60	4,04	1,67	2,42	3,97	1,80	2,20	3,91	1,96	1,99						
	-14°C	4,17	1,59	2,62	4,11	1,68	2,45	4,04	1,81	2,23	3,98	1,97	2,02						
	-13°C	4,25	1,60	2,66	4,18	1,69	2,47	4,11	1,82	2,26	4,05	1,98	2,05						
	-12°C	4,32	1,60	2,70	4,25	1,69	2,51	4,18	1,83	2,28	4,11	1,99	2,07						
	-11°C	4,39	1,61	2,73	4,32	1,70	2,54	4,25	1,84	2,31	4,18	2,00	2,09	3,88	2,12	1,83			
	-10°C	4,46	1,62	2,75	4,39	1,71	2,57	4,32	1,85	2,34	4,25	2,01	2,11	3,95	2,13	1,85			
	-9°C	4,54	1,63	2,79	4,46	1,72	2,59	4,39	1,85	2,37	4,32	2,02	2,14	4,02	2,14	1,88			
	-8°C	4,61	1,64	2,81	4,53	1,73	2,62	4,46	1,86	2,40	4,38	2,03	2,16	4,08	2,15	1,90			
	-7°C	4,68	1,65	2,84	4,60	1,74	2,64	4,53	1,87	2,42	4,45	2,04	2,18	4,15	2,16	1,92	3,85	2,33	1,65
	-6°C	4,74	1,63	2,91	4,64	1,72	2,70	4,55	1,84	2,47	4,46	2,00	2,23	4,19	2,13	1,97	3,92	2,32	1,69
	-5°C	4,79	1,62	2,96	4,68	1,69	2,77	4,57	1,81	2,52	4,46	1,96	2,28	4,23	2,11	2,00	3,99	2,31	1,73
	-4°C	4,85	1,60	3,03	4,72	1,67	2,83	4,60	1,78	2,58	4,47	1,92	2,33	4,27	2,08	2,05	4,07	2,31	1,76
	-3°C	4,90	1,59	3,08	4,76	1,65	2,88	4,62	1,75	2,64	4,47	1,88	2,38	4,31	2,06	2,09	4,14	2,30	1,80
	2°C	4,96	1,57	3,16	4,79	1,62	2,96	4,64	1,72	2,70	4,48	1,85	2,42	4,34	2,03	2,14	4,21	2,29	1,84
	-1°C	5,01	1,56	3,21	4,83	1,60	3,02	4,66	1,69	2,76	4,48	1,81	2,48	4,38	2,01	2,18	4,28	2,28	1,88
	0°C	5,07	1,54	3,29	4,87	1,58	3,08	4,68	1,66	2,82	4,49	1,77	2,54	4,42	1,98	2,23	4,36	2,28	1,91
	1°C	5,12	1,53	3,35	4,91	1,55	3,17	4,70	1,63	2,88	4,49	1,73	2,60	4,46	1,96	2,28	4,43	2,27	1,95
	2°C	5,18	1,51	3,43	4,95	1,53	3,24	4,73	1,60	2,95	4,50	1,69	2,70	4,50	1,93	2,33	4,50	2,26	1,99
	3°C	5,50	1,49	3,69	5,21	1,51	3,45	4,93	1,57	3,14	4,65	1,65	2,82	4,58	1,86	2,46	4,50	2,15	2,09
	4°C	5,82	1,47	3,96	5,48	1,49	3,68	5,14	1,55	3,32	4,80	1,62	2,96	4,65	1,80	2,58	4,50	2,05	2,20
	5°C	6,45	1,47	4,40	6,00	1,49	4,04	5,55	1,53	3,63	5,10	1,57	3,24	4,80	1,70	2,83	4,50	1,88	2,40
	6°C	6,45	1,42	4,54	6,00	1,44	4,16	5,55	1,49	3,73	5,10	1,54	3,32	4,80	1,66	2,89	4,50	1,83	2,46
	7°C	6,45	1,38	4,67	6,00	1,41	4,26	5,55	1,45	3,83	5,10	1,50	3,40	4,80	1,62	2,96	4,50	1,79	2,51
	8°C	6,45	1,34	4,80	6,00	1,37	4,38	5,55	1,41	3,93	5,10	1,47	3,48	4,80	1,58	3,03	4,50	1,76	2,56
	9°C	6,45	1,31	4,94	6,00	1,33	4,50	5,55	1,38	4,03	5,10	1,43	3,56	4,80	1,55	3,09	4,50	1,72	2,62
	10°C	6,45	1,27	5,07	6,00	1,30	4,61	5,55	1,34	4,13	5,10	1,40	3,65	4,80	1,52	3,16	4,50	1,69	2,67
	11°C	6,45	1,24	5,21	6,00	1,27	4,73	5,55	1,32	4,22	5,10	1,37	3,73	4,80	1,49	3,23	4,50	1,65	2,72
	12°C	6,45	1,21	5,34	6,00	1,24	4,84	5,55	1,28	4,32	5,10	1,34	3,81	4,80	1,46	3,29	4,50	1,62	2,78
	13°C	6,45	1,18	5,48	6,00	1,21	4,96	5,55	1,26	4,42	5,10	1,31	3,89	4,80	1,43	3,36	4,50	1,59	2,83
	14°C	6,45	1,15	5,61	6,00	1,18	5,07	5,55	1,23	4,52	5,10	1,28	3,98	4,80	1,40	3,43	4,50	1,56	2,88
15°C	6,45	1,12	5,75	6,00	1,16	5,19	5,55	1,20	4,62	5,10	1,26	4,06	4,80	1,37	3,50	4,50	1,54	2,93	
16°C	6,45	1,10	5,88	6,00	1,13	5,30	5,55	1,18	4,72	5,10	1,23	4,14	4,80	1,35	3,56	4,50	1,51	2,99	
17°C	6,45	1,07	6,02	6,00	1,11	5,42	5,55	1,15	4,81	5,10	1,21	4,22	4,80	1,32	3,63	4,50	1,48	3,04	
18°C	6,45	1,05	6,15	6,00	1,08	5,53	5,55	1,13	4,91	5,10	1,18	4,31	4,80	1,30	3,70	4,50	1,46	3,09	
19°C	6,45	1,03	6,29	6,00	1,06	5,65	5,55	1,11	5,01	5,10	1,16	4,39	4,80	1,28	3,76	4,50	1,43	3,15	
20°C	6,45	1,00	6,42	6,00	1,04	5,76	5,55	1,09	5,11	5,10	1,14	4,47	4,80	1,25	3,83	4,50	1,41	3,20	
21°C	6,45	1,00	6,48	6,00	1,03	5,82	5,55	1,08	5,16	5,10	1,13	4,51	4,80	1,24	3,86	4,50	1,39	3,23	
22°C	6,45	0,98	6,55	6,00	1,02	5,87	5,55	1,07	5,20	5,10	1,12	4,55	4,80	1,23	3,90	4,50	1,38	3,25	
23°C	6,45	0,98	6,61	6,00	1,01	5,93	5,55	1,06	5,25	5,10	1,11	4,59	4,80	1,22	3,93	4,50	1,37	3,28	
24°C	6,45	0,97	6,67	6,00	1,00	5,98	5,55	1,05	5,30	5,10	1,10	4,63	4,80	1,21	3,96	4,50	1,36	3,31	
25°C	6,45	0,96	6,73	6,00	0,99	6,04	5,55	1,04	5,35	5,10	1,09	4,67	4,80	1,20	4,00	4,50	1,35	3,33	
26°C	6,45	0,95	6,80	6,00	0,98	6,10	5,55	1,03	5,39	5,10	1,08	4,71	4,80	1,19	4,03	4,50	1,34	3,36	
27°C	6,45	0,94	6,86	6,00	0,98	6,15	5,55	1,02	5,44	5,10	1,07	4,75	4,80	1,18	4,06	4,50	1,33	3,39	
28°C	6,45	0,93	6,92	6,00	0,97	6,21	5,55	1,01	5,49	5,10	1,06	4,79	4,80	1,17	4,10	4,50	1,32	3,41	
29°C	6,45	0,92	6,98	6,00	0,96	6,26	5,55	1,00	5,54	5,10	1,06	4,83	4,80	1,16	4,13	4,50	1,31	3,44	
30°C	6,45	0,91	7,05	6,00	0,95	6,32	5,55	0,99	5,58	5,10	1,05	4,87	4,80	1,15	4,16	4,50	1,30	3,47	
31°C	6,45	0,91	7,11	6,00	0,94	6,38	5,55	0,99	5,63	5,10	1,04	4,91	4,80	1,14	4,20	4,50	1,29	3,49	
32°C	6,45	0,90	7,17	6,00	0,93	6,43	5,55	0,98	5,68	5,10	1,03	4,95	4,80	1,13	4,23	4,50	1,28	3,52	
33°C	6,45	0,89	7,23	6,00	0,92	6,49	5,55	0,97	5,73	5,10	1,02	4,99	4,80	1,13	4,26	4,50	1,27	3,55	
34°C	6,45	0,88	7,30	6,00	0,92	6,54	5,55	0,96	5,77	5,10	1,01	5,03	4,80	1,12	4,30	4,50	1,26	3,57	
35°C	6,45	0,88	7,36	6,00	0,91	6,60	5,55	0,95	5,82	5,10	1,01	5,07	4,80	1,11	4,33	4,50	1,25	3,60	

HC : Heating capacity (kW)

IP : Input power (kW)

COP : Coefficient of performance

2.2.3 alféa extensa + 8 and alféa extensa duo + 8

	Starting temperature																		
	30°C			35°C			40°C			45°C			50°C			55°C			
	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	
Outdoor temperature	-20°C	4,49	2,03	2,21	4,26	2,13	2,00	4,03	2,21	1,82									
	-19°C	4,91	2,21	2,22	4,66	2,33	2,00	4,40	2,42	1,82									
	-18°C	5,32	2,40	2,22	5,05	2,52	2,00	4,78	2,62	1,82									
	-17°C	5,74	2,58	2,22	5,45	2,72	2,00	5,16	2,82	1,83									
	-16°C	5,77	2,54	2,27	5,48	2,67	2,05	5,18	2,77	1,87									
	-15°C	5,80	2,49	2,33	5,50	2,62	2,10	5,20	2,72	1,91	4,90	2,82	1,74						
	-14°C	5,83	2,45	2,38	5,53	2,57	2,15	5,22	2,67	1,96	4,92	2,77	1,78						
	-13°C	5,86	2,40	2,44	5,55	2,52	2,20	5,25	2,63	2,00	4,94	2,73	1,81						
	-12°C	5,89	2,36	2,50	5,58	2,47	2,26	5,27	2,58	2,04	4,96	2,69	1,84						
	-11°C	5,92	2,31	2,56	5,60	2,42	2,31	5,29	2,53	2,09	4,98	2,64	1,89	4,96	2,97	1,67			
	-10°C	5,94	2,27	2,62	5,63	2,38	2,37	5,31	2,48	2,14	4,99	2,60	1,92	4,98	2,93	1,70			
	-9°C	5,97	2,22	2,69	5,65	2,33	2,42	5,34	2,44	2,19	5,01	2,56	1,96	4,99	2,89	1,73			
	-8°C	6,00	2,18	2,75	5,68	2,28	2,49	5,36	2,39	2,24	5,03	2,51	2,00	5,01	2,84	1,76			
	-7°C	6,03	2,13	2,83	5,70	2,23	2,56	5,38	2,34	2,30	5,05	2,47	2,04	5,03	2,80	1,80	5,00	3,21	1,56
	-6°C	6,02	2,09	2,88	5,69	2,18	2,61	5,37	2,28	2,36	5,04	2,41	2,09	5,05	2,74	1,84	5,00	3,13	1,60
	-5°C	6,02	2,05	2,94	5,69	2,13	2,67	5,37	2,23	2,41	5,04	2,35	2,14	5,07	2,69	1,88	5,00	3,06	1,63
	-4°C	6,01	2,01	2,99	5,68	2,08	2,73	5,36	2,17	2,47	5,03	2,29	2,20	5,09	2,63	1,94	5,00	2,99	1,67
	-3°C	6,01	1,97	3,05	5,68	2,03	2,80	5,36	2,12	2,53	5,03	2,23	2,26	5,11	2,57	1,99	5,00	2,92	1,71
	2°C	6,00	1,92	3,13	5,67	1,98	2,86	5,35	2,06	2,60	5,02	2,16	2,32	5,12	2,51	2,04	5,00	2,85	1,75
	-1°C	6,00	1,88	3,19	5,67	1,93	2,94	5,34	2,01	2,66	5,02	2,10	2,39	5,14	2,46	2,09	5,00	2,78	1,80
	0°C	5,99	1,84	3,26	5,66	1,88	3,01	5,34	1,95	2,74	5,01	2,04	2,46	5,16	2,40	2,15	5,00	2,71	1,85
	1°C	5,99	1,80	3,33	5,66	1,83	3,09	5,33	1,90	2,81	5,01	1,98	2,53	5,18	2,34	2,21	5,00	2,64	1,89
	2°C	5,98	1,76	3,40	5,65	1,78	3,17	5,33	1,84	2,89	5,00	1,92	2,60	5,20	2,29	2,28	5,00	2,56	1,95
	3°C	6,52	1,79	3,64	6,11	1,81	3,38	5,71	1,86	3,07	5,30	1,92	2,76	5,30	2,19	2,42	5,00	2,41	2,07
	4°C	7,07	1,82	3,88	6,58	1,84	3,58	6,09	1,88	3,24	5,60	1,92	2,92	5,40	2,10	2,57	5,00	2,26	2,21
	5°C	7,61	1,85	4,18	7,04	1,86	3,85	6,47	1,89	3,50	6,20	1,95	3,18	5,60	1,96	2,86	5,00	1,98	2,53
	6°C	8,15	1,88	4,33	7,50	1,89	3,96	6,85	1,91	3,59	6,20	1,91	3,25	5,60	1,92	2,91	5,00	1,96	2,55
	7°C	8,15	1,82	4,48	7,50	1,84	4,08	6,85	1,86	3,68	6,20	1,87	3,31	5,60	1,90	2,95	5,00	1,94	2,58
	8°C	8,15	1,76	4,63	7,50	1,79	4,20	6,85	1,82	3,77	6,20	1,84	3,37	5,60	1,87	2,99	5,00	1,92	2,61
	9°C	8,15	1,71	4,78	7,50	1,74	4,31	6,85	1,77	3,86	6,20	1,80	3,44	5,60	1,84	3,04	5,00	1,90	2,63
	10°C	8,15	1,66	4,92	7,50	1,69	4,43	6,85	1,73	3,95	6,20	1,77	3,50	5,60	1,82	3,08	5,00	1,88	2,66
	11°C	8,15	1,61	5,07	7,50	1,65	4,55	6,85	1,70	4,04	6,20	1,74	3,57	5,60	1,79	3,12	5,00	1,86	2,69
	12°C	8,15	1,56	5,22	7,50	1,61	4,66	6,85	1,66	4,13	6,20	1,71	3,63	5,60	1,77	3,17	5,00	1,85	2,71
	13°C	8,15	1,52	5,37	7,50	1,57	4,78	6,85	1,62	4,22	6,20	1,68	3,70	5,60	1,74	3,21	5,00	1,82	2,74
	14°C	8,15	1,48	5,51	7,50	1,53	4,90	6,85	1,59	4,31	6,20	1,65	3,76	5,60	1,72	3,25	5,00	1,81	2,77
15°C	8,15	1,44	5,66	7,50	1,49	5,02	6,85	1,56	4,40	6,20	1,62	3,83	5,60	1,70	3,29	5,00	1,79	2,80	
16°C	8,15	1,40	5,81	7,50	1,46	5,13	6,85	1,53	4,49	6,20	1,59	3,89	5,60	1,68	3,34	5,00	1,77	2,82	
17°C	8,15	1,37	5,96	7,50	1,43	5,25	6,85	1,50	4,58	6,20	1,57	3,96	5,60	1,66	3,38	5,00	1,75	2,85	
18°C	8,15	1,34	6,10	7,50	1,40	5,37	6,85	1,47	4,67	6,20	1,54	4,02	5,60	1,64	3,42	5,00	1,74	2,88	
19°C	8,15	1,30	6,25	7,50	1,37	5,48	6,85	1,44	4,76	6,20	1,52	4,09	5,60	1,61	3,47	5,00	1,72	2,90	
20°C	8,15	1,27	6,40	7,50	1,34	5,60	6,85	1,41	4,85	6,20	1,49	4,15	5,60	1,60	3,51	5,00	1,71	2,93	
21°C	8,15	1,26	6,46	7,50	1,33	5,65	6,85	1,40	4,90	6,20	1,48	4,19	5,60	1,58	3,54	5,00	1,69	2,96	
22°C	8,15	1,25	6,52	7,50	1,31	5,71	6,85	1,39	4,94	6,20	1,47	4,23	5,60	1,56	3,58	5,00	1,67	2,99	
23°C	8,15	1,24	6,59	7,50	1,30	5,76	6,85	1,37	4,99	6,20	1,45	4,27	5,60	1,55	3,61	5,00	1,66	3,01	
24°C	8,15	1,23	6,65	7,50	1,29	5,81	6,85	1,36	5,03	6,20	1,44	4,31	5,60	1,53	3,65	5,00	1,64	3,04	
25°C	8,15	1,21	6,71	7,50	1,28	5,87	6,85	1,35	5,08	6,20	1,43	4,35	5,60	1,52	3,68	5,00	1,63	3,07	
26°C	8,15	1,20	6,77	7,50	1,27	5,92	6,85	1,34	5,13	6,20	1,41	4,39	5,60	1,51	3,71	5,00	1,61	3,10	
27°C	8,15	1,19	6,83	7,50	1,26	5,97	6,85	1,32	5,17	6,20	1,40	4,43	5,60	1,49	3,75	5,00	1,60	3,13	
28°C	8,15	1,18	6,90	7,50	1,24	6,03	6,85	1,31	5,22	6,20	1,39	4,47	5,60	1,48	3,78	5,00	1,59	3,15	
29°C	8,15	1,17	6,96	7,50	1,23	6,08	6,85	1,30	5,26	6,20	1,37	4,51	5,60	1,47	3,82	5,00	1,57	3,18	
30°C	8,15	1,16	7,02	7,50	1,22	6,13	6,85	1,29	5,31	6,20	1,36	4,55	5,60	1,45	3,85	5,00	1,56	3,21	
31°C	8,15	1,15	7,08	7,50	1,21	6,19	6,85	1,28	5,36	6,20	1,35	4,59	5,60	1,44	3,88	5,00	1,54	3,24	
32°C	8,15	1,14	7,14	7,50	1,20	6,24	6,85	1,27	5,40	6,20	1,34	4,63	5,60	1,43	3,92	5,00	1,53	3,27	
33°C	8,15	1,13	7,21	7,50	1,19	6,29	6,85	1,26	5,45	6,20	1,33	4,67	5,60	1,42	3,95	5,00	1,52	3,29	
34°C	8,15	1,12	7,27	7,50	1,18	6,35	6,85	1,25	5,49	6,20	1,32	4,71	5,60	1,40	3,99	5,00	1,51	3,32	
35°C	8,15	1,11	7,33	7,50	1,17	6,40	6,85	1,24	5,54	6,20	1,31	4,75	5,60	1,39	4,02	5,00	1,49	3,35	

HC : Heating capacity (kW)
 IP : Input power (kW)
 COP : Coefficient of performance

2.2.4 alféa extensa +10 and alféa extensa duo + 10

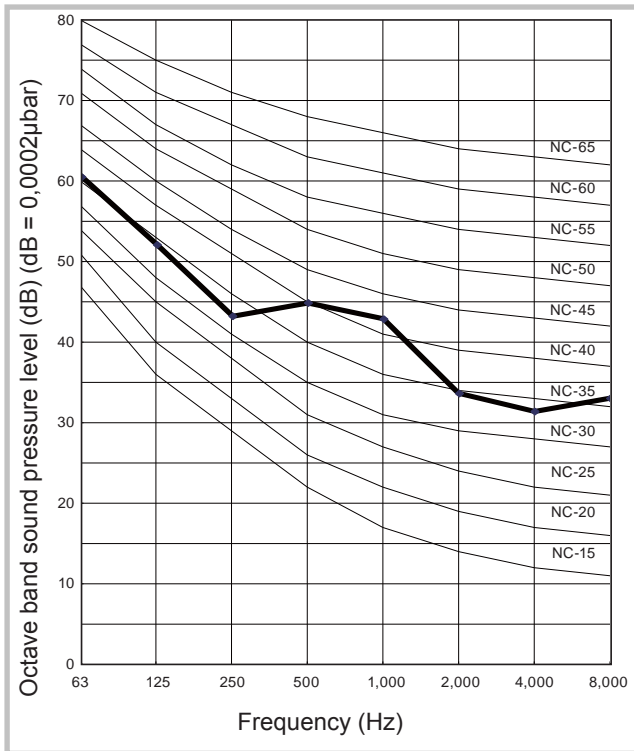
		Starting temperature																	
		30°C			35°C			40°C			45°C			50°C			55°C		
		HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
Outdoor temperature	-20°C	5,97	2,57	2,32	5,89	2,86	2,06	5,60	3,05	1,84									
	-19°C	6,41	2,72	2,36	6,31	3,01	2,10	5,97	3,20	1,87									
	-18°C	6,84	2,86	2,39	6,73	3,17	2,12	6,34	3,36	1,89									
	-17°C	7,28	3,01	2,42	7,15	3,33	2,15	6,71	3,51	1,91									
	-16°C	7,29	2,97	2,45	7,18	3,29	2,18	6,78	3,50	1,94									
	-15°C	7,30	2,93	2,49	7,20	3,26	2,21	6,85	3,48	1,97	6,50	3,65	1,78						
	-14°C	7,31	2,90	2,52	7,23	3,22	2,25	6,92	3,46	2,00	6,61	3,66	1,81						
	-13°C	7,33	2,86	2,56	7,25	3,19	2,27	6,99	3,44	2,03	6,72	3,66	1,84						
	-12°C	7,34	2,82	2,60	7,28	3,15	2,31	7,06	3,42	2,06	6,84	3,67	1,86						
	-11°C	7,35	2,79	2,63	7,30	3,11	2,35	7,13	3,40	2,10	6,95	3,68	1,89	6,77	3,93	1,72			
	-10°C	7,36	2,75	2,68	7,33	3,08	2,38	7,19	3,39	2,12	7,06	3,68	1,92	6,93	3,94	1,76			
	-9°C	7,38	2,71	2,72	7,35	3,04	2,42	7,26	3,37	2,15	7,17	3,69	1,94	7,08	3,94	1,80			
	-8°C	7,39	2,68	2,76	7,38	3,01	2,45	7,33	3,35	2,19	7,29	3,69	1,98	7,25	3,95	1,84			
	-7°C	7,40	2,64	2,78	7,40	2,97	2,49	7,40	3,33	2,22	7,40	3,70	2,00	7,20	3,95	1,82	7,00	4,15	1,69
	-6°C	7,48	2,62	2,85	7,43	2,91	2,55	7,38	3,24	2,28	7,33	3,58	2,05	7,16	3,85	1,86	6,98	4,10	1,70
	-5°C	7,57	2,60	2,91	7,47	2,86	2,61	7,37	3,15	2,34	7,27	3,46	2,10	7,11	3,74	1,90	6,96	4,05	1,72
	-4°C	7,65	2,59	2,95	7,50	2,80	2,68	7,35	3,06	2,40	7,20	3,34	2,16	7,07	3,64	1,94	6,93	4,00	1,73
	-3°C	7,73	2,57	3,01	7,53	2,75	2,74	7,33	2,97	2,47	7,13	3,22	2,21	7,02	3,54	1,98	6,91	3,95	1,75
	2°C	7,82	2,55	3,07	7,57	2,69	2,81	7,32	2,87	2,55	7,07	3,10	2,28	6,98	3,43	2,03	6,89	3,90	1,77
	-1°C	7,90	2,53	3,12	7,60	2,64	2,88	7,30	2,78	2,63	7,00	2,98	2,35	6,93	3,33	2,08	6,87	3,85	1,78
	0°C	7,98	2,52	3,17	7,63	2,58	2,96	7,28	2,69	2,71	6,93	2,86	2,42	6,89	3,23	2,13	6,84	3,80	1,80
	1°C	8,07	2,50	3,23	7,67	2,53	3,03	7,27	2,60	2,80	6,87	2,74	2,51	6,84	3,12	2,19	6,82	3,75	1,82
	2°C	8,15	2,48	3,29	7,70	2,47	3,12	7,25	2,51	2,89	6,80	2,62	2,60	6,80	3,02	2,25	6,80	3,70	1,84
	3°C	8,83	2,50	3,53	8,28	2,49	3,33	7,72	2,52	3,06	7,17	2,61	2,75	7,01	2,95	2,38	6,85	3,50	1,96
	4°C	9,51	2,52	3,77	8,85	2,52	3,51	8,20	2,54	3,23	7,54	2,61	2,89	7,22	2,87	2,52	6,90	3,31	2,08
	5°C	10,19	2,54	4,10	9,43	2,54	3,81	8,67	2,55	3,48	7,90	2,60	3,12	7,43	2,80	2,75	6,95	3,11	2,35
	6°C	10,87	2,56	4,24	10,00	2,56	3,91	9,14	2,56	3,57	8,27	2,59	3,19	7,64	2,72	2,81	7,00	2,92	2,40
	7°C	10,87	2,49	4,37	10,00	2,49	4,02	9,14	2,50	3,66	8,27	2,53	3,27	7,64	2,66	2,87	7,00	2,86	2,45
	8°C	10,87	2,42	4,50	10,00	2,42	4,13	9,14	2,44	3,75	8,27	2,47	3,35	7,64	2,61	2,93	7,00	2,80	2,50
	9°C	10,87	2,34	4,64	10,00	2,36	4,23	9,14	2,38	3,84	8,27	2,42	3,42	7,64	2,56	2,99	7,00	2,75	2,55
	10°C	10,87	2,28	4,77	10,00	2,30	4,34	9,14	2,33	3,93	8,27	2,36	3,50	7,64	2,50	3,05	7,00	2,69	2,60
	11°C	10,87	2,22	4,90	10,00	2,25	4,44	9,14	2,27	4,02	8,27	2,32	3,57	7,64	2,45	3,12	7,00	2,65	2,64
	12°C	10,87	2,16	5,04	10,00	2,20	4,55	9,14	2,22	4,11	8,27	2,27	3,65	7,64	2,40	3,18	7,00	2,60	2,69
	13°C	10,87	2,10	5,17	10,00	2,15	4,66	9,14	2,18	4,20	8,27	2,22	3,72	7,64	2,36	3,24	7,00	2,55	2,74
	14°C	10,87	2,05	5,30	10,00	2,10	4,76	9,14	2,13	4,29	8,27	2,18	3,80	7,64	2,32	3,30	7,00	2,51	2,79
15°C	10,87	2,00	5,43	10,00	2,05	4,87	9,14	2,09	4,38	8,27	2,14	3,87	7,64	2,27	3,36	7,00	2,46	2,84	
16°C	10,87	1,95	5,57	10,00	2,01	4,98	9,14	2,04	4,47	8,27	2,09	3,95	7,64	2,23	3,42	7,00	2,42	2,89	
17°C	10,87	1,91	5,70	10,00	1,97	5,08	9,14	2,00	4,56	8,27	2,06	4,02	7,64	2,19	3,49	7,00	2,39	2,93	
18°C	10,87	1,86	5,83	10,00	1,93	5,19	9,14	1,97	4,65	8,27	2,02	4,10	7,64	2,15	3,55	7,00	2,35	2,98	
19°C	10,87	1,82	5,97	10,00	1,89	5,29	9,14	1,93	4,74	8,27	1,98	4,17	7,64	2,12	3,61	7,00	2,31	3,03	
20°C	10,87	1,82	6,10	10,00	1,85	5,40	9,14	1,89	4,83	8,27	1,95	4,25	7,64	2,08	3,67	7,00	2,27	3,08	
21°C	10,87	1,77	6,15	10,00	1,84	5,43	9,14	1,88	4,86	8,27	1,93	4,28	7,64	2,06	3,70	7,00	2,26	3,10	
22°C	10,87	1,76	6,19	10,00	1,83	5,46	9,14	1,87	4,89	8,27	1,92	4,31	7,64	2,05	3,72	7,00	2,24	3,13	
23°C	10,87	1,74	6,24	10,00	1,82	5,49	9,14	1,86	4,92	8,27	1,91	4,34	7,64	2,04	3,75	7,00	2,22	3,15	
24°C	10,87	1,73	6,29	10,00	1,81	5,53	9,14	1,85	4,95	8,27	1,89	4,37	7,64	2,02	3,78	7,00	2,20	3,18	
25°C	10,87	1,72	6,33	10,00	1,80	5,56	9,14	1,84	4,98	8,27	1,88	4,40	7,64	2,01	3,81	7,00	2,19	3,20	
26°C	10,87	1,70	6,38	10,00	1,79	5,59	9,14	1,82	5,01	8,27	1,87	4,43	7,64	1,99	3,83	7,00	2,17	3,23	
27°C	10,87	1,69	6,43	10,00	1,78	5,62	9,14	1,81	5,04	8,27	1,85	4,46	7,64	1,98	3,86	7,00	2,15	3,25	
28°C	10,87	1,68	6,47	10,00	1,77	5,65	9,14	1,80	5,08	8,27	1,85	4,48	7,64	1,96	3,89	7,00	2,13	3,28	
29°C	10,87	1,67	6,52	10,00	1,76	5,68	9,14	1,79	5,11	8,27	1,83	4,51	7,64	1,95	3,92	7,00	2,12	3,30	
30°C	10,87	1,65	6,57	10,00	1,75	5,71	9,14	1,78	5,14	8,27	1,82	4,54	7,64	1,94	3,94	7,00	2,10	3,33	
31°C	10,87	1,64	6,61	10,00	1,74	5,74	9,14	1,77	5,17	8,27	1,81	4,57	7,64	1,92	3,97	7,00	2,09	3,35	
32°C	10,87	1,63	6,66	10,00	1,73	5,78	9,14	1,76	5,20	8,27	1,80	4,60	7,64	1,91	4,00	7,00	2,07	3,38	
33°C	10,87	1,62	6,71	10,00	1,72	5,81	9,14	1,75	5,23	8,27	1,79	4,63	7,64	1,90	4,03	7,00	2,06	3,40	
34°C	10,87	1,61	6,75	10,00	1,71	5,84	9,14	1,74	5,26	8,27	1,77	4,66	7,64	1,89	4,05	7,00	2,04	3,43	
35°C	10,87	1,69	6,80	10,00	1,70	5,87	9,14	1,73	5,29	8,27	1,76	4,69	7,64	1,87	4,08	7,00	2,03	3,45	

HC : Heating capacity (kW)
 IP : Input power (kW)
 COP : Coefficient of performance

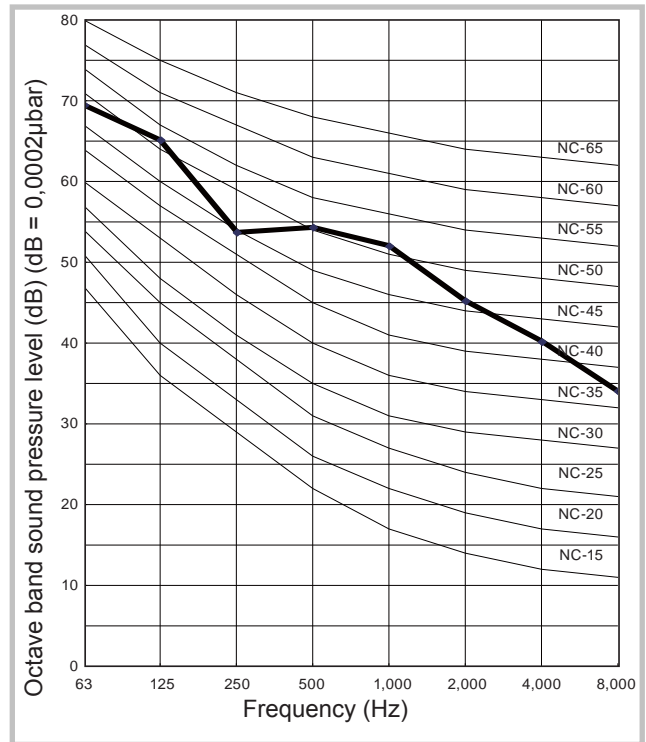
2.4 Sound power of the outdoor unit

2.4.1 Sound power curves in heating mode

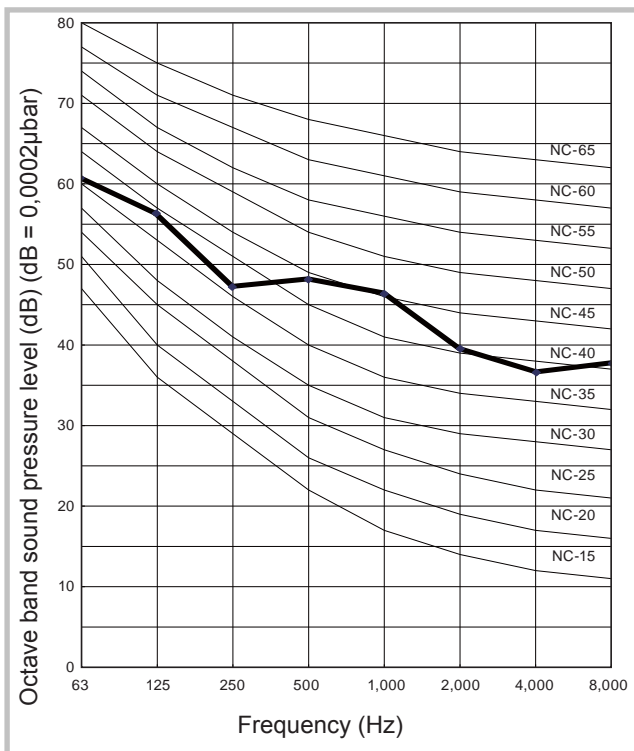
alféa extensa + 5 / duo + 5



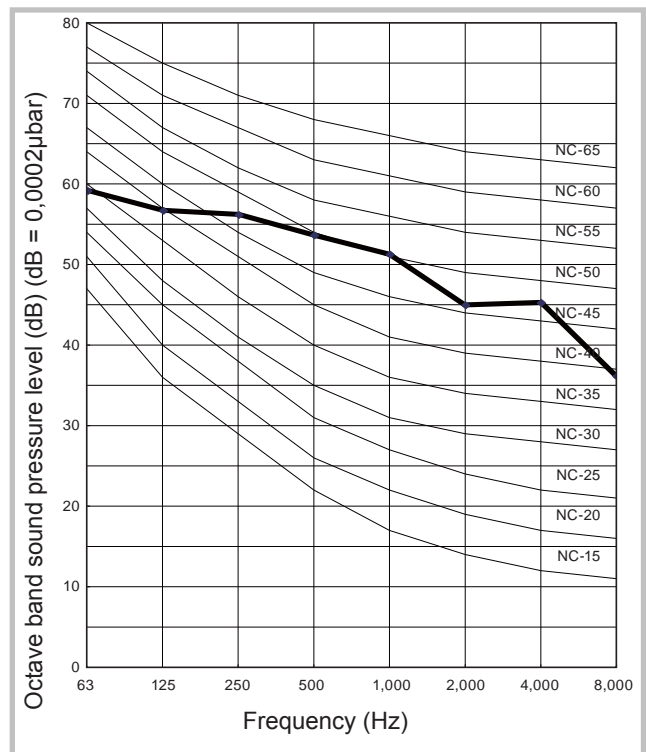
alféa extensa + 8 / duo + 8



alféa extensa + 6 / duo + 6

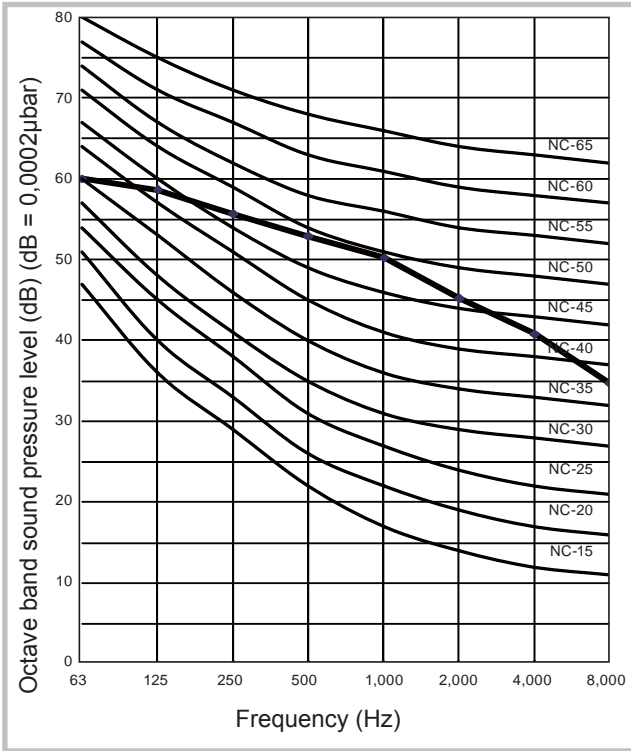


alféa extensa + 10 / duo + 10

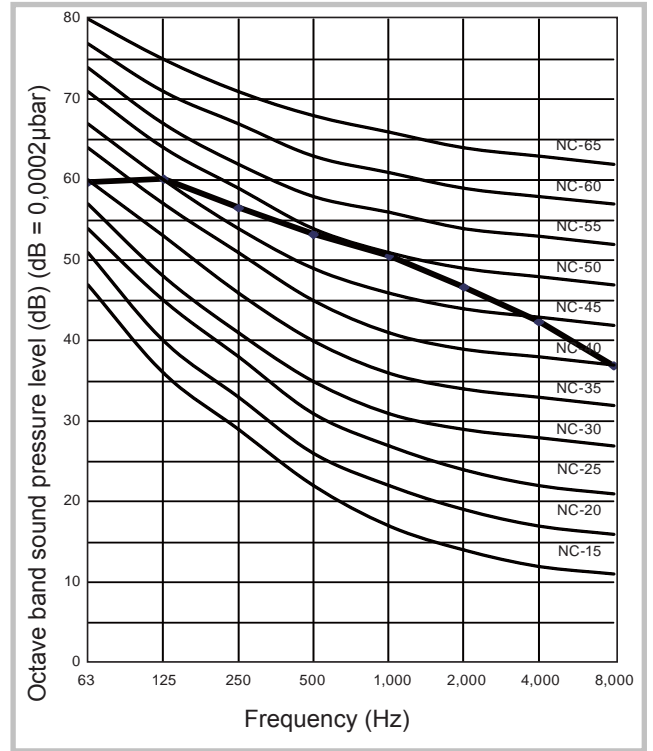


NC : Level of acoustic comfort

alféa extensa + 13

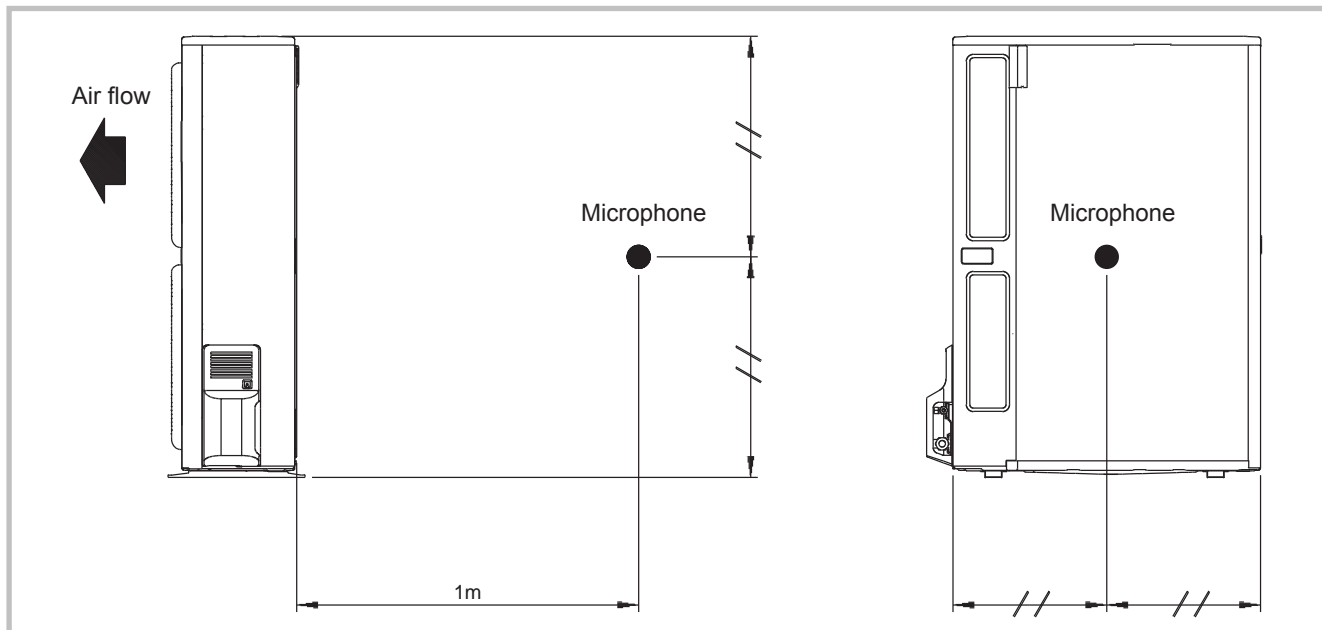


alféa extensa + 16

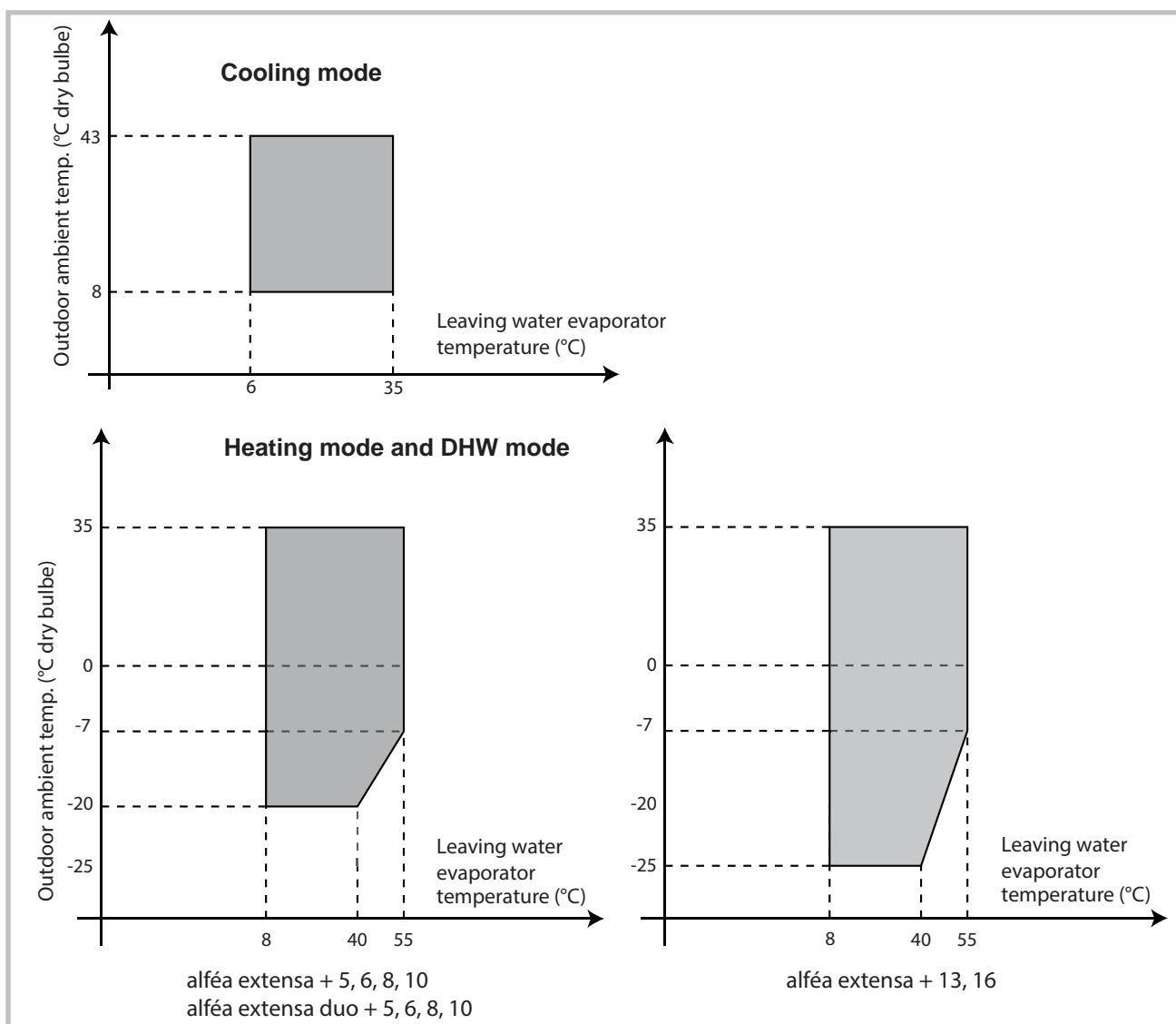


NC : Level of acoustic comfort

2.4.2 Sound level check point



2.5 Recommended operation range



2.6 Safety devices

2.6.1 Outdoor unit

		alféa extensa+ 5 / alféa extensa duo + 5	alféa extensa+ 6 / alféa extensa duo + 6	alféa extensa+ 8 / alféa extensa duo + 8	alféa extensa+ 10 / alféa extensa duo + 10	alféa extensa+ 13 / alféa extensa+ 16
Calibre curve D breaker		16 A		20 A		32 A
Circuit protection	Fuse (near power supply)	20 A 250 V		25 A 250 V		-
		5 A 250 V				
	Fuse (Main PCB)	15 A 250 V		3,15 A 250 V		5 A 250 V
		10 A 250 V				3.15 A 250 V
		3.15 A 250 V				10 A 250 V
Fan protection	Thermal protector	OFF : 100 ±10°C ON : 95 ±10°C			OFF : 150 ±15°C ON : 120 ±15°C	OFF : 150 ±15°C ON : 120 ±15°C
Compressor protection	Thermal protection program (Compressor temp.)	OFF : 108°C ON : 80°C				OFF : 112°C ON : 80°C
	Thermal protection program (Discharge temp.)	OFF : 110°C ON : after 7 minutes				OFF : 115°C ON : after 7 minutes
High pressure protection	Thermal protection program (Heat exchanger temp.)	OFF : 67°C ON : 63°C				OFF : 68°C ON : 63°C
	Pressure sensor	OFF : 4.2 MPa ON : 3.0 MPa				
Low pressure protection (cool mode)	Pressure sensor	OFF : 0.12 MPa ON : 0.15 MPa				

2.6.2 Hydraulic unit

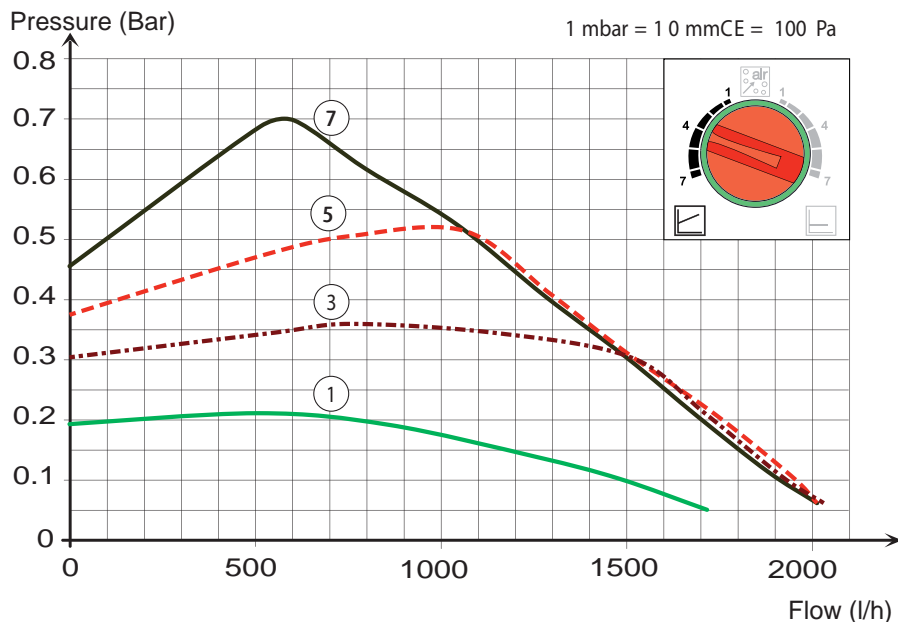
			alféa extensa +	alféa extensa duo +
Circuit protection back-ups PAC curve C		If back-up 3kW	32 A	
		If back-up 6kW		
High pressure protection		Safety valve	3 bar	
Outgoing temperature max. protection	Back-up single phase	Regulator	+80 °C	

3. Hydraulic circuit

3.1 Available pressures

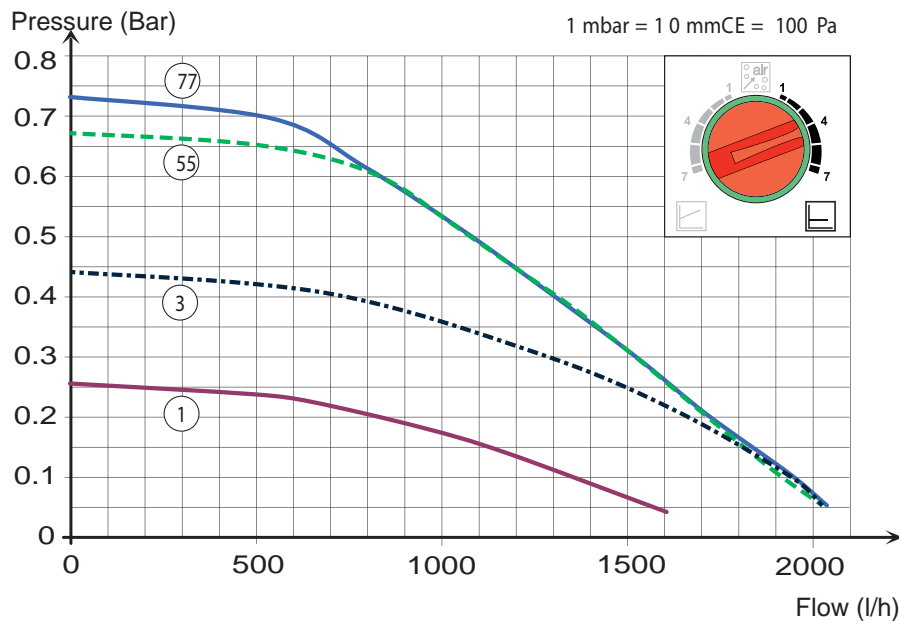
alféa extensa + 5, 6, 8 and 10 / alféa extensa duo + 5, 6, 8 and 10

Variable pressure



Recommended for an installation radiators equipped (especially any system with thermostatic heads or solenoid zone).

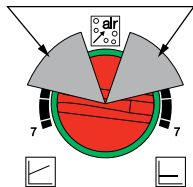
Constant pressure




Recommended for an installation at floor heating at constant pressure drop.


Warning :

Don't use this area.



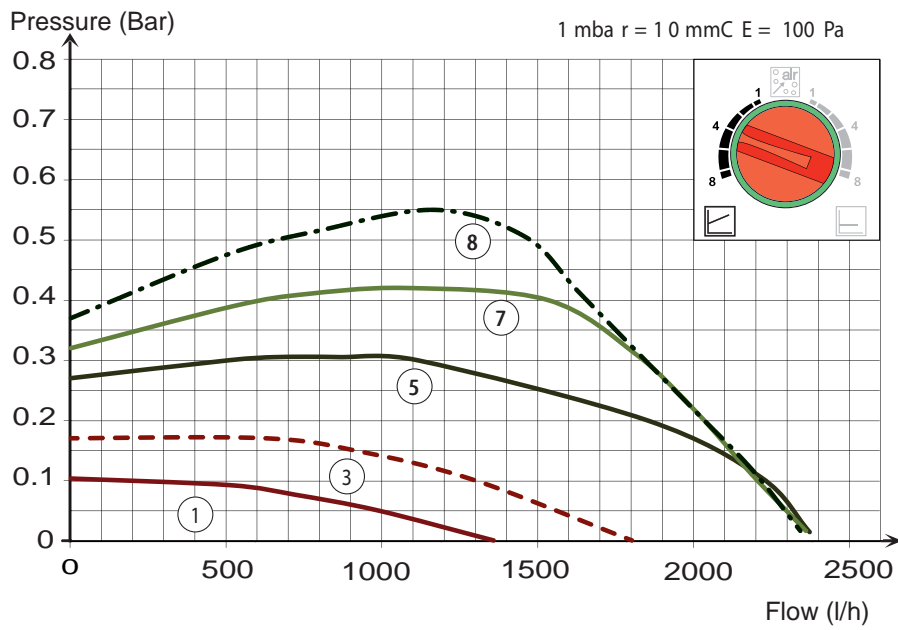
 Variable pressure

 Venting

 Constant pressure

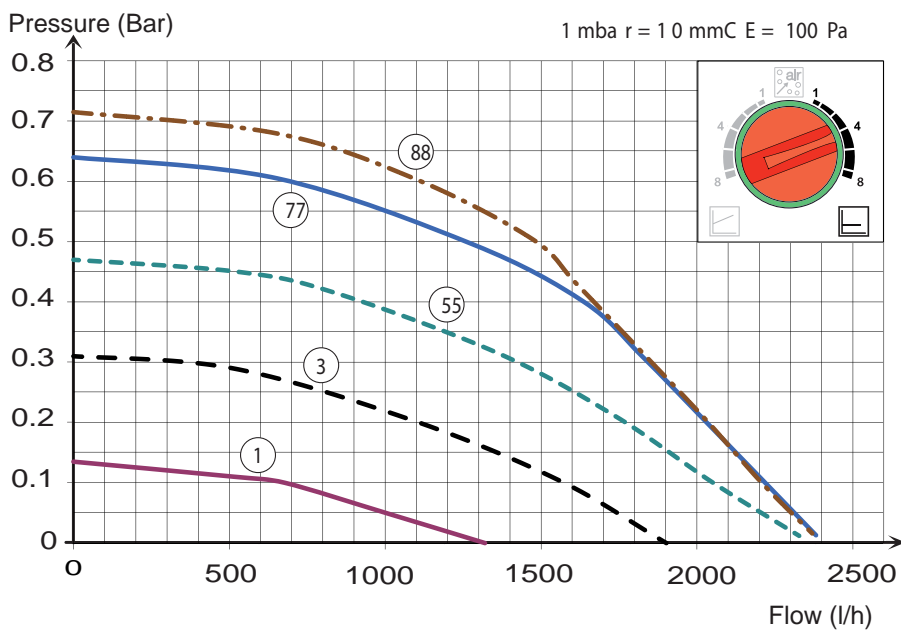
alféa extensa + 13 and 16

Variable pressure



Recommended for an installation radiators equipped (especially any system with thermostatic heads or solenoid zone).

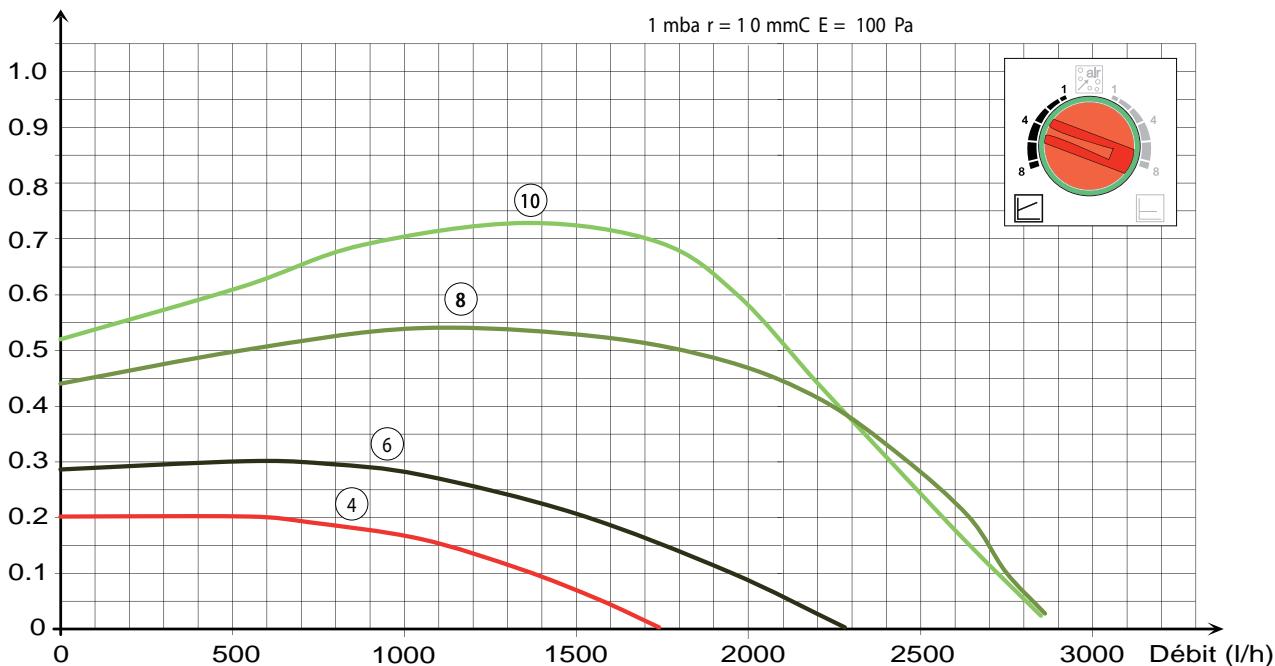
Constant pressure



alféa extensa + 13 and 16 with high flow rate circulating pump kit (option)

Variable pressure

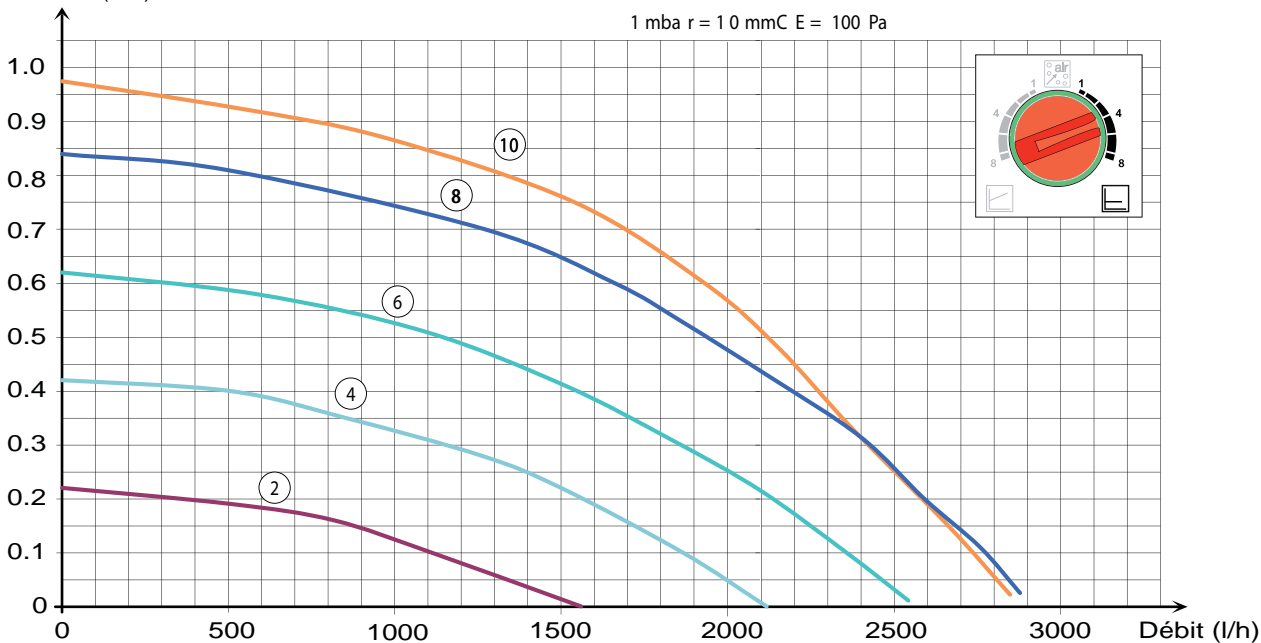
Pression (Bar)



Recommended for an installation radiators equipped (especially any system with thermostatic heads or solenoid zone).

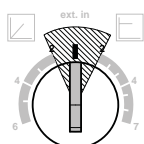
Constant pressure

Pression (Bar)



Recommended for an installation at floor heating at constant pressure drop.

Warning :

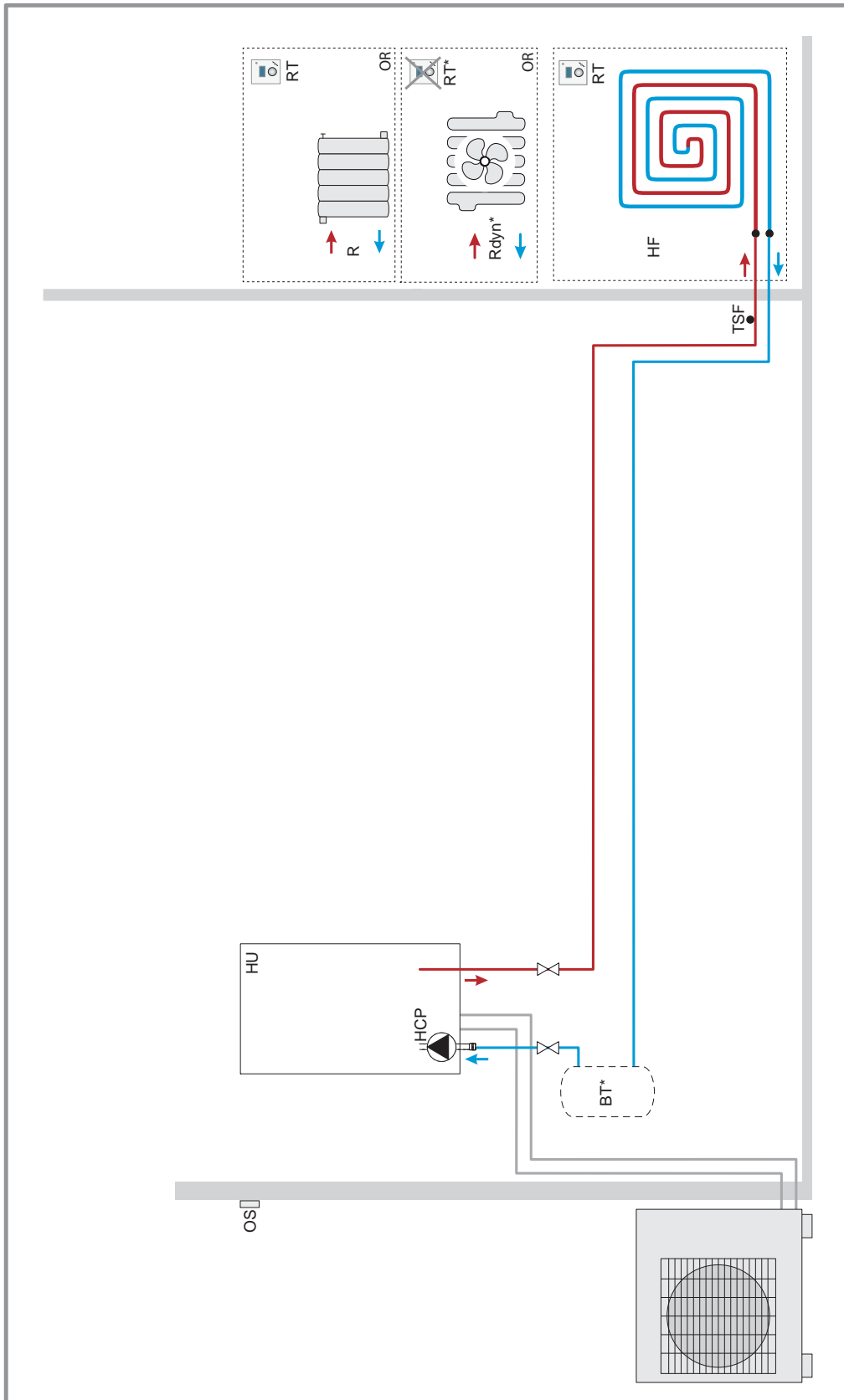


Don't use this area.

3.2 Overall hydraulic layout

3.2.1 alféa extensa +

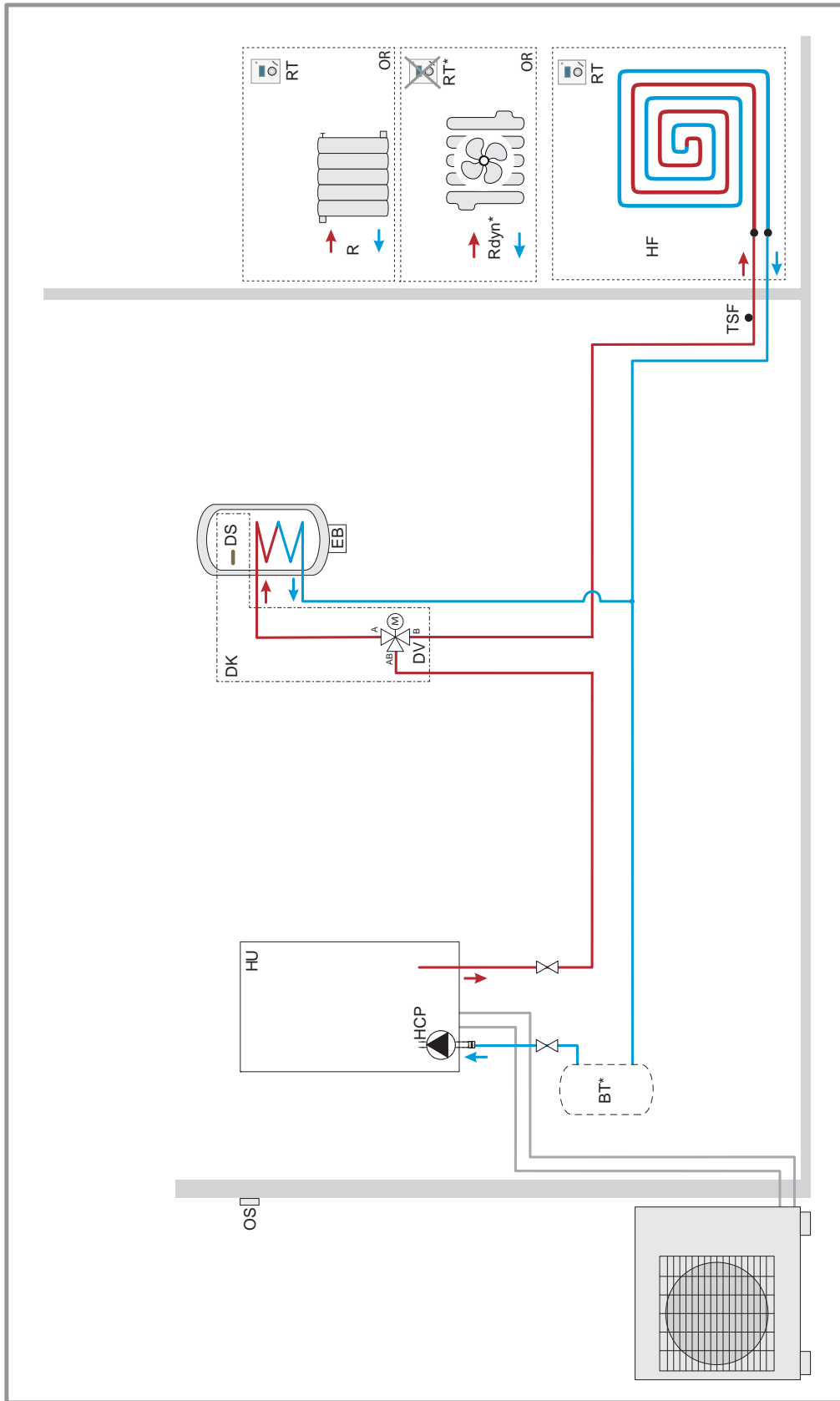
- Configuration 1 : 1 heating circuit



Caption :

BT* - Buffer tank (mandatory with Rdyn, if HP>11kW)
HCP - Heating circulating pump
HU - Hydraulic unit
HF - Heating-cooling floor
OS - Outdoor sensor
R - Radiators (or fan coils)
Rdyn* - Dynamic radiators
RT* - Room thermostat or room control unit (option/except with Rdyn)
TSF - Heated floor thermal safety fuse

- Configuration 1 : 1 heating circuit and DHW tank

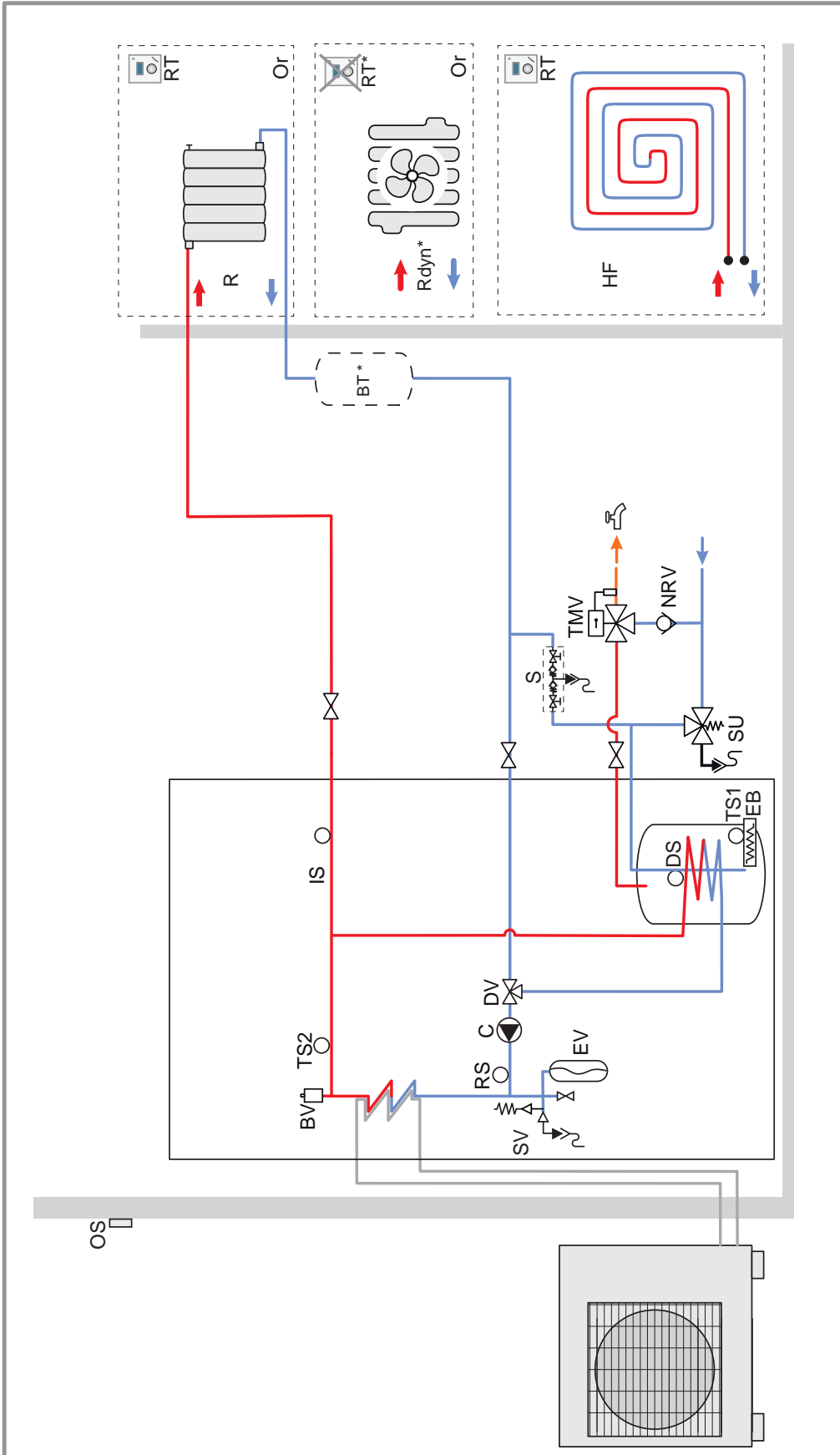


Caption :

- | | |
|--|---|
| EB - Electrical back-up heater | OS - Outdoor sensor |
| BT* - Buffer tank (mandatory with Rdyn, if HP>11kW) | DV - Distribution valve |
| HCP - Heating circulating pump | TSF - Heated floor thermal safety fuse |
| DK - DHW kit | RT* - Room thermostat or room control unit (option/except with Rdyn) |
| HU - Hydraulic unit | DS - DHW sensor |
| | HF - Heating-cooling floor |
| | R - Radiators (or fan coils) |
| | Rdyn* - Dynamic radiators |
| | RT* - Room thermostat or room control unit (option/except with Rdyn) |
| | DS - DHW sensor |

3.2.2 alféa extensa duo +

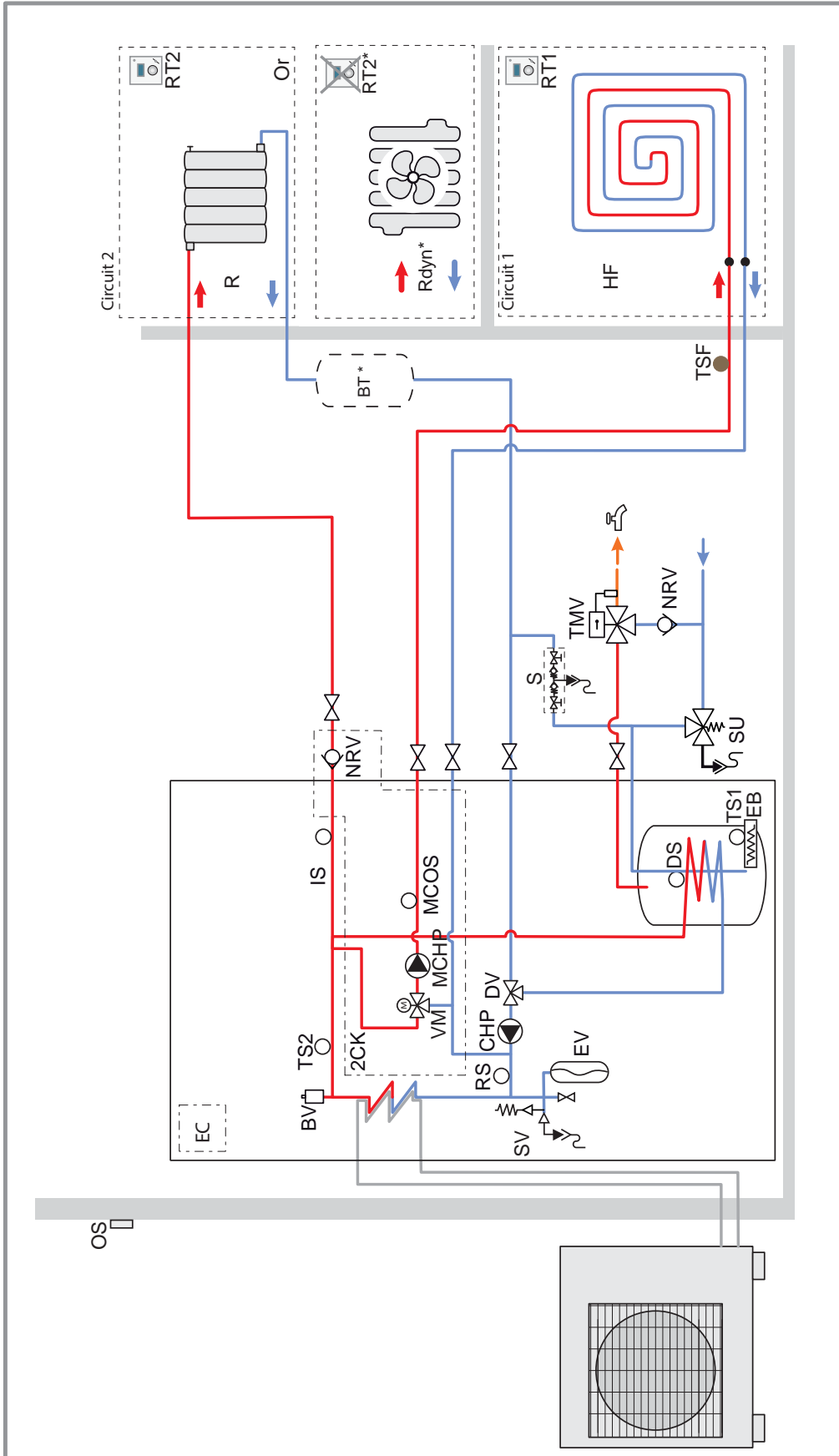
- Configuration 1 : 1 heating circuit



Caption :

- | | | | |
|--|---|---|--------------------------------|
| EB - Electrical back-up heater | MTV - Thermostatic mixer valve | TS1 - Temperature safety of domestic electrical back-up | DS - DHW sensor |
| NRV - Non-return valve | HF - Heating-cooling floor | TS2 - Temperature safety (option Heating back-up option) | SV - Safety valve |
| HCP - heating circulating pump | BV - Bleeder valve | IS - HP Initial sensor | DV - Distribution valve |
| S - Shut-off | R - Radiators (or fan coils) | OS - Outdoor sensor | EV - Expansion vessel |
| SU - Safety unit | RT* - Room thermostat or room control unit (option/except with Rdyn) | Rdyn* - Dynamic radiators | RS - Return sensor |
| BT* - Buffer tank (mandatory with Rdyn, if HP>11kW) | | | |

• Configuration 2 : 2 heating circuits



Caption :

- EB** - Electrical back-up heating
- EC** - Extension card, 2 circuits
- NRV** - Non-return valve
- HCP** - Heating circulating pump
- MCHP** - Mixed-circuit heat pump
- B** - Breaker
- SU** - Safety unit
- 2CK** - 2nd circuit kit
- MTV** - Thermostatic mixer valve
- HF** - Heating-cooling floor
- BV** - Bleeder valve
- R** - Radiators (or fan coils)
- RT1** - Room thermostat circuit 1 (option)
- RT2** - Room thermostat circuit 2 (option)
- DS** - DHW sensor
- TS1** - Temperature safety of domestic electrical back-up
- TS2** - Temperature safety (option Heating back-up option)
- IS** - HP Initial sensor
- OS** - Outdoor sensor
- RS** - Return sensor
- TSF** - Heated floor thermal safety fuse
- EV** - Expansion vessel
- SV** - Safety valve
- DV** - Distribution valve
- VM** - Vanne mélangeuse circuit

4. Options

Function	Name	Reference	alféa extensa +	alféa extensa duo +
Ambient sensor	Room thermostat T55	073 951	•	•
	Room thermostat radio T58	075 313	•	•
	Room control unit T75	073 954	•	•
	Room control radio unit T78	074 061	•	•
Measure of consumptions	Pack Heat pump	602 231	•	•
DHW	DS VS M 200 L	324 821	•	
	DS VS M 300 L	324 831	•	
	PECS P300	027 992	•	
	DHW kit	073 991	•	
	Expansion vessel duo kit	075 118		•
Connection	Hydraulic kit Duo high exit	075 522		•
2 Zones	Split 2 Zones kit	570 630	•	
	Regulation extension kit	570 629		•
	Split Duo 2 Zones kit (regul exterior kit included)	075 311	•	•
Boiler connection	Boiler connection kit	073 989	•	
	Boiler connection duo kit	073 990		•
	Bottle decoupling	073 957	•	•
Cooling	Cooling kit	075 312	•	•
Swimming pool	Swimming pool Kit (regul exterior kit included)	570 631	•	•
	Swimming pool exchanger	570 615	•	•
Back-up ⁽²⁾	Single phase electrical back-ups kit (models >13kW)	073 985	•	•
Other	High flow rate circulating pump kit ⁽¹⁾	074 077	•	•
Indoor unit integration	Wall In grid	073 325	•	•
	Wall In frame	073 326	•	•
	Wall In box	073 327	•	•
Accessories for outdoor unit	Anti-vibration blocks (x4)	523 574	•	•
	White PVC floor support (x2)	809 532	•	•
	Cap for floor support (x4)	809 540	•	•
	Black rubber floor support (x2)	809 536	•	•
	Wall bracket ⁽³⁾ 600 mm (with bar)	875 033	•	•
	Heater for drain pan	809 644	•	•
	Drain pan alféa extensa + 5,6,8 / duo + 5,6,8	074 008	•	•
Refrigerant pipes ⁽⁴⁾	KM1 5M 1/2"-1/4" alféa extensa + 5,6 / duo + 5,6	809 155	•	•
	KM1 7M 1/2"-1/4" alféa extensa + 5,6 / duo + 5,6	809 157	•	•
	KM1 10M 1/2"-1/4" alféa extensa + 5,6 / duo + 5,6	809 160	•	•
	KM1 25M 1/2"-1/4" alféa extensa + 5,6 / duo + 5,6 (20m max.)	809 165	•	•
	KM1 5M 5/8"-1/4" alféa extensa + 8 / duo + 8	809 255	•	•
	KM1 7M 5/8"-1/4" alféa extensa + 8 / duo + 8	809 257	•	•
	KM1 10M 5/8"-1/4" alféa extensa + 8 / duo + 8	809 260	•	•
	KM1 25M 5/8"-1/4" alféa extensa + 8 / duo + 8 (20 m max.)	809 265	•	•
	KM1 5M 5/8"-3/8" alféa extensa + 10,13,16 / duo + 10	809 565	•	•
	KM1 7M 5/8"-3/8" alféa extensa + 10,13,16 / duo + 10	809 567	•	•
	KM1 10M 5/8"-3/8" alféa extensa + 10,13,16 / duo + 10	809 570	•	•
KM1 25M 5/8"-3/8" alféa extensa + 10,13,16 / duo + 10 (20 m max.)	809 575	•	•	
Protection pipes for refrigerant pipes	GO 80x60 (8 lg. de 2 mm)	809 709	•	•
	GO 80x60 (2 lg. de 2 mm)	809 716	•	•
	CGO 80x60 (x5)	809 723	•	•
	PMC 80x60 (x5)	809 729	•	•

⁽¹⁾ Incompatible with 2 zones kit. ⁽²⁾ **Required accessory** (except with Boiler connection kit).

⁽³⁾ Installer has to make sure that the wall bracket installation will not transmit vibration (ground position is being preferred).

⁽⁴⁾ For a better protection of insulation against UV, Atlantic recommend the installation of protection pipes together with refrigerant pipes.



Complies with :

- Low Voltage Directive 2006/95/CE under standard in EN 60335-1, EN 60335-2-40.
- Electromagnetic Compatibility Directive 2004/108/CE.
- Machinery Directive 2006/42/CE.
- Directive for pressure equipment 97/23/CE.
- Eco-design directive 2009/125/CE.
- Labeling directive 2010/30/CE.

This appliance also conforms to :

- Ordinance n° 92-1271 (and its amendments) for some refrigerants used in refrigeration and air conditioning equipment.
- Regulation 842/2006 of the European parliament on some fluorinated greenhouse gases.
- The standards relating to the product and the testing methods used: Air-conditioners, refrigeration units and heat pumps with compressor driven by electric motor for heating and refrigeration in EN 14511-1, EN 14511-2, EN 14511-3, EN 14511-4.
- To standard EN 12102 : Air-conditioners, heat pumps and dehumidifiers with compressor driven by electric motor. Measurement of airborne noise. Determination of acoustic power level.



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.

