atlantic

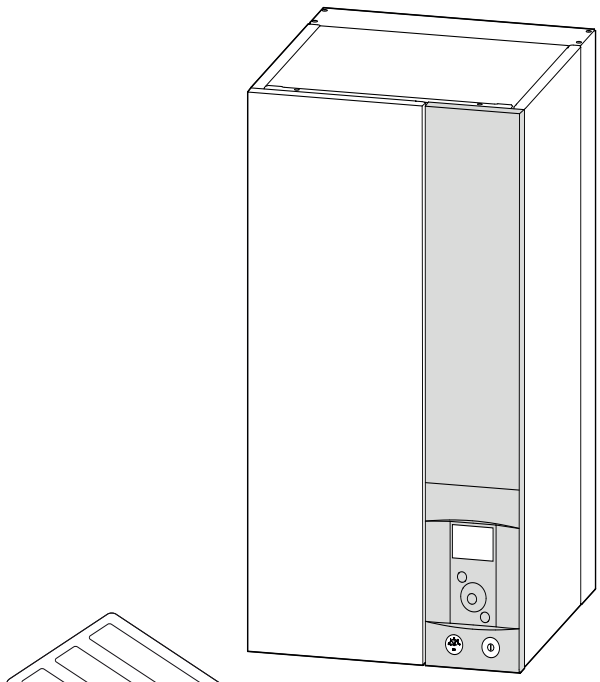
Home solutions
Pompes à chaleur & chaudières

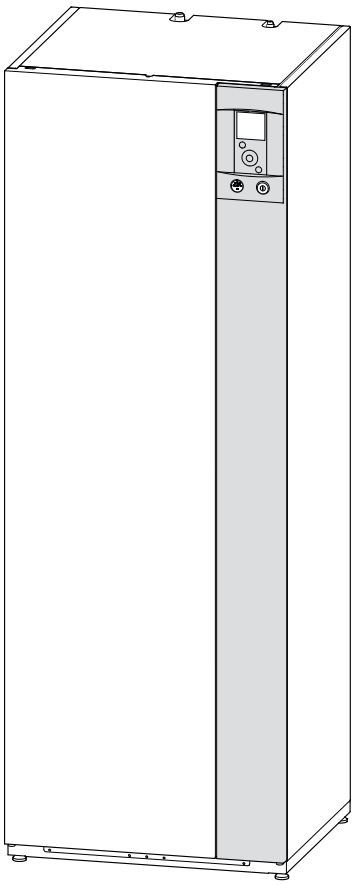
TECHNICAL DATA

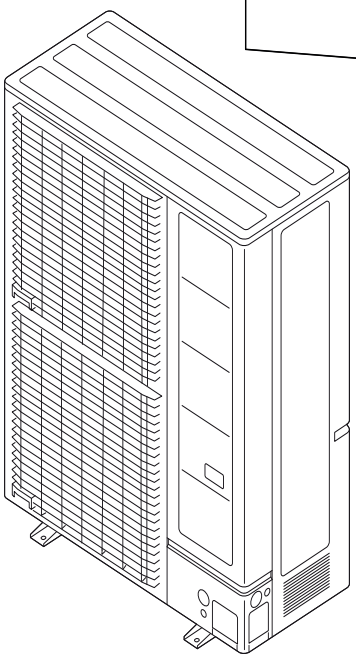
EN

Alféa Excellia HP A.I.

Heat pumps air/water split single phase and 3-phase
1 service and 2 services







Outdoor unit

- WOYG160LJL ☐
- WOYK150LJL ☐
- WOYK170LJL ☐

Hydraulic module

- 024141 ☐
- 024143 ☐
- 024145 ☐
- 024147 ☐

1953_EN_4_26/11/2018

Intended for professionals.
Completed by the installation 1944 and 1945

Contents

General description

▶ Table of dimensions and weigth

For more information, please refere to the instructions sheets 1944 (alféa excellia HP A.I.) and 1945 (alféa excellia HP Duo A.I.).

	Single phase	3 - phase	
	alféa excellia HP A.I. 16	alféa excellia HP A.I. tri 15	alféa excellia HP A.I. tri 17
Reference	526631	526632	526633
Outdoor unit	**WOYG160LJL**	**WOYK150LJL**	**WOYK170LJL**
Reference	700223	700224	700225
Dimensions (H x W x D) (mm)	1428 / 1080 / 480	1428 / 1080 / 480	1428 / 1080 / 480
Operating weight (kg)	137	138	138

Hydraulic unit	alféa excellia HP A.I. 16	alféa excellia HP A.I. tri 15 / 17
Reference	**024141**	**024143**
Dimensions (H x W x D) (mm)	842 / 448 / 477	842 / 448 / 477
Weigth vacuum / water (kg)	53 / 75	53 / 75

	Single phase	3 - phase	
	alféa excellia HP Duo A.I. 16	alféa excellia HP Duo A.I. tri 15	alféa excellia HP Duo A.I. tri 17
Reference	526661	526662	526663
Outdoor unit	**WOYG160LJL**	**WOYK150LJL**	**WOYK170LJL**
Reference	700223	700224	700225
Dimensions (H x W x D) (mm)	1428 / 1080 / 480	1428 / 1080 / 480	1428 / 1080 / 480
Operating weight (kg)	137	138	138

Hydraulic unit	alféa excellia HP Duo A.I. 16	alféa excellia HP Duo A.I. tri 15 / 17
Reference	**024145**	**024147**
Dimensions (H x W x D) (mm)	1851 / 648 / 684	1851 / 648 / 684
Weigth vacuum / water (kg)	152 / 370	152 / 370

▶ Volume of the heating system

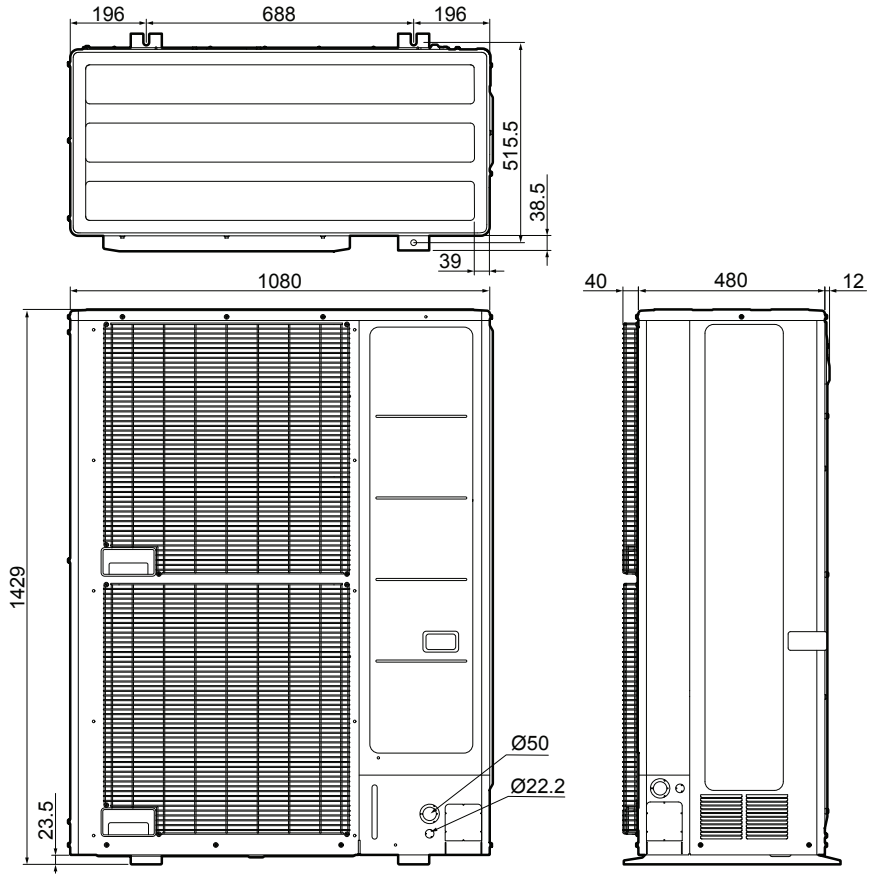
You must maintain the minimum installation water volume. Install a buffertank on the return from the heating circuit in case the volume is lower than this value. Where the system is fittedwith one or more thermostatic valves, you must ensure that this minimum water volume is able to circulate.

	Min. volume in litres PER CIRCUIT (excl. HP)		
Appliance	**Fan-coil**	**Radiator**	**Heating-cooling fl oor**
Size 16	110	98	55
Size TRI 15	102	90	50
Size TRI 17	119	106	60

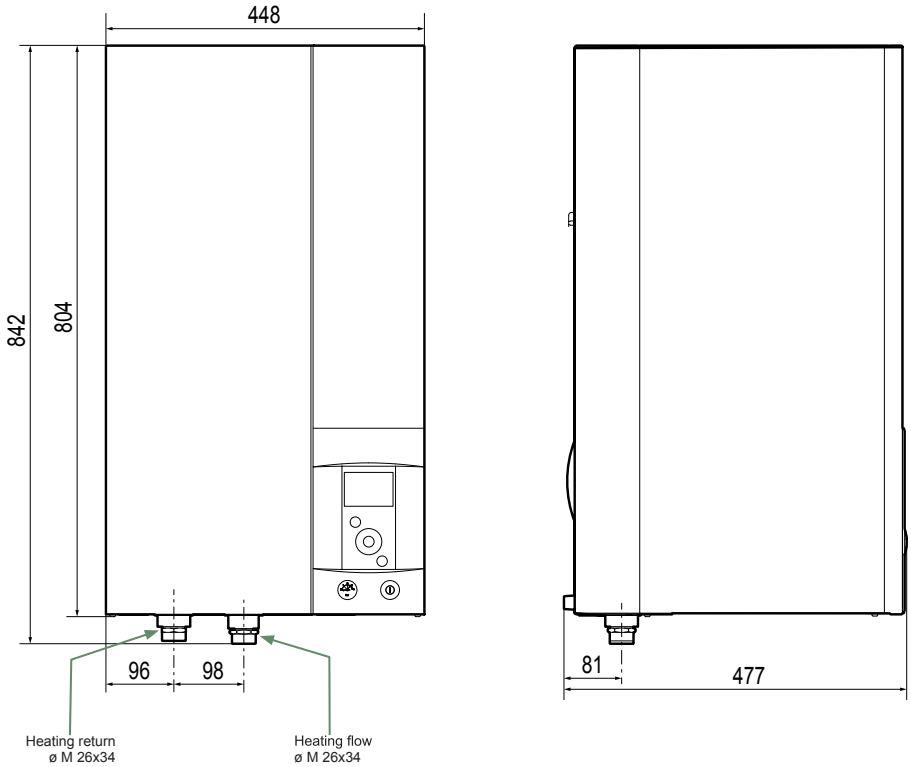
▶ Drawing of the heat pump

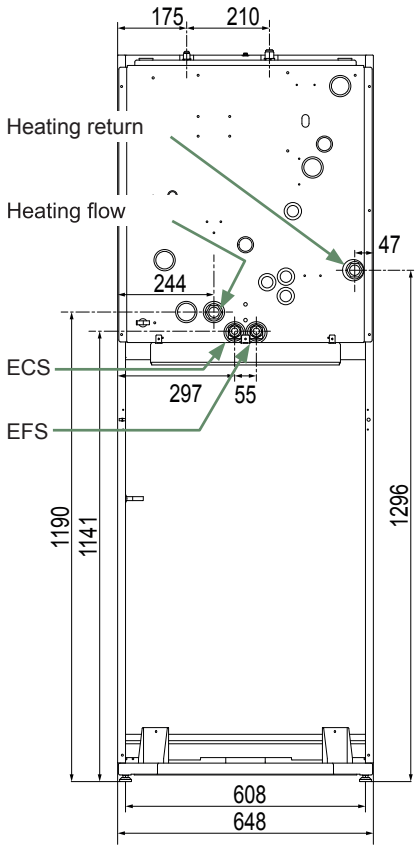
▼ Dimensional drawing

Outdoors units

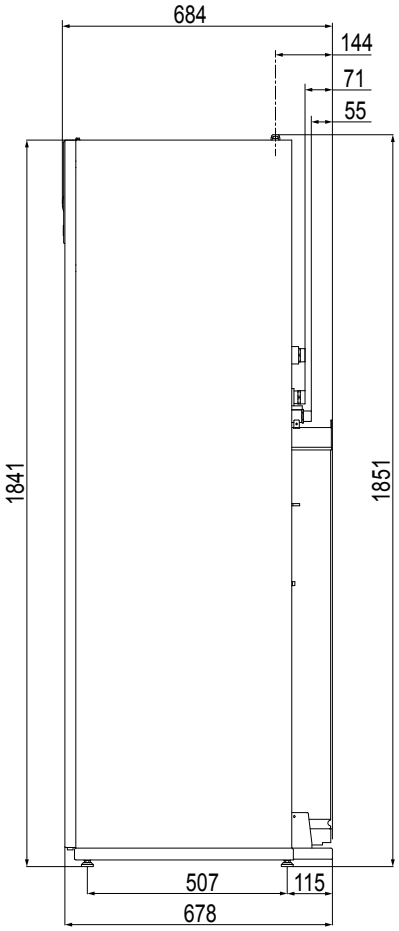


Hydraulic units

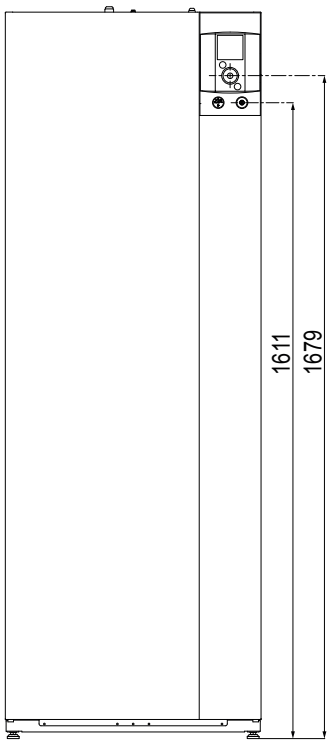




Back view



Side view



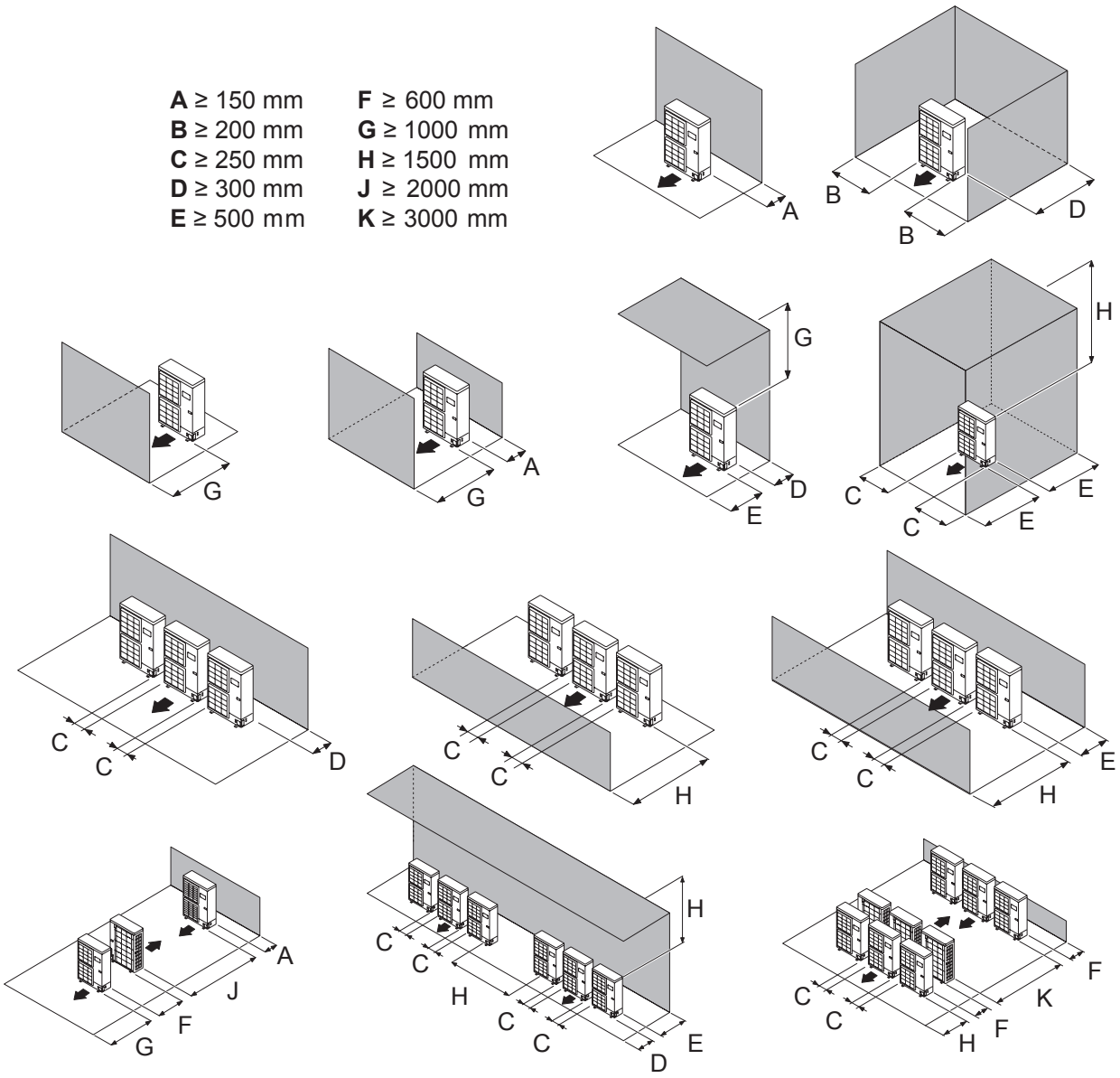
Front view

▼ Installation place

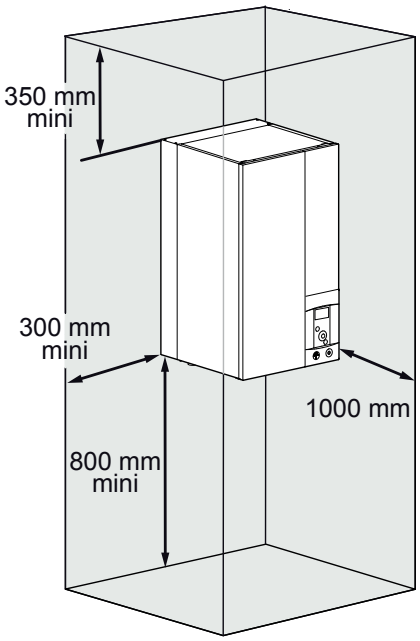
Outdoors units :

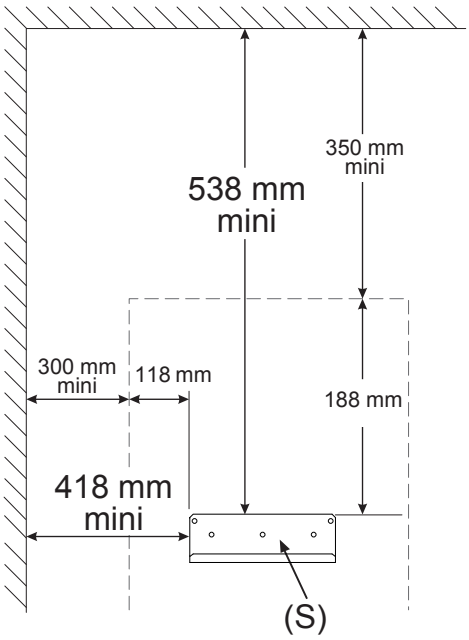
The outdoor unit must only be installed outside (outside). If a shelter is required, it must have broad openings on all 4 sides and following the installation conditions below.

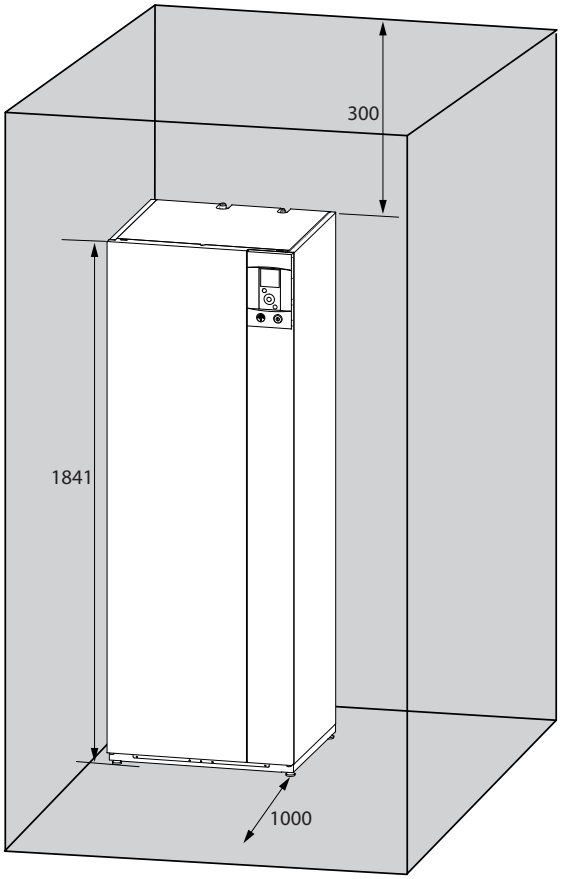
A ≥ 150 mm
B ≥ 200 mm
C ≥ 250 mm
D ≥ 300 mm
E ≥ 500 mm
F ≥ 600 mm
G ≥ 1000 mm
H ≥ 1500 mm
J ≥ 2000 mm
K ≥ 3000 mm



Hydraulic units







In accordance with EN 378-1 -2017 standard (Refrigerating systems and heat pumps - Safety and environmental requirements), the system's hydraulic unit and all refrigeration connections passing through inhabited areas must comply with the minimum room volume requirements shown hereafter.

The minimum volume of a room (in m3) is calculated using the formula: "fluid fill load" (in kg) / 0.39.

Alternatively, you must ensure that

- the location has natural ventilation through another room where the combined volume of the two rooms is greater than "liquid fill load" (in kg) / 0.39 kg/m³. The opening between the two rooms must have a door clearance of at least 1 cm.

-or that the location is mechanically ventilated.

▶ Connection pipes

	Single phase	3 - phase	
	alféa excellia HP A.I. 16 alféa excellia HP Duo A.I. 16	alféa excellia HP A.I. tri 15 alféa excellia HP Duo A.I. tri 15	alféa excellia HP A.I. tri 17 alféa excellia HP Duo A.I. tri 17
Input and Output Circuit heating diameters (male thread) (inch)	1"	1"	1"
Diameter of «Gaz» pipes (inch)	5/8"	5/8"	5/8"
Diameter of «Liquid» pipes (inch)	3/8"	3/8"	3/8"

▶ ERP datas

	Single phase	3 - phase	
	alféa excellia HP A.I. 16 alféa excellia HP Duo A.I. 16	alféa excellia HP A.I. tri 15 alféa excellia HP Duo A.I. tri 15	alféa excellia HP A.I. tri 17 alféa excellia HP Duo A.I. tri 17
Energy class - heating (35°/55°)	A++ / A++	A++ / A++	A++ / A++
Rated heat output (kW)	16 / 14	17 / 16	18 / 17
Energy seasonal efficiency - heating (35°/55°) (%)	163 / 125	164 / 130	161 / 130
Annual energy consumption - heating (35°/55°) (kWh)	8014 / 8757	8606 / 9915	9059 / 10232
Acoustic power (indoor / oudoor) (dBa)	45 / 67	45 / 67	45 / 67

	Single phase	3 - phase	
	alféa excellia HP A.I. 16 alféa excellia HP Duo A.I. 16	alféa excellia HP A.I. tri 15 alféa excellia HP Duo A.I. tri 15	alféa excellia HP A.I. tri 17 alféa excellia HP Duo A.I. tri 17
Filling profil	L	L	L
Energy class	A	A	A
Annual energy consumption (kWh)	941	941	941
Energy efficiency (%)	109	109	109

Performances

▶ Performances tables in heating mode whitout the electrical back-up

▼ Alféa Excellia HP A.I. 16 and alféa Excellia HP Duo A.I. 16

Test conditions comply with EN 14825 whitout electrical backup

Outdoor temperature	Starting temperature																							
	25°C			30°C			35°C			40°C			45°C			50°C			55°C			60°C		
	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP
35°C	3.50	21.26	6.07	3.62	20.58	5.68	3.75	19.58	5.23	3.92	18.72	4.78	4.12	17.90	4.34	4.33	17.08	3.94	4.55	16.25	3.57	4.76	15.43	3.24
34°C	3.50	21.20	6.05	3.62	20.52	5.67	3.75	19.53	5.21	3.92	18.67	4.77	4.12	17.85	4.33	4.33	17.03	3.93	4.55	16.20	3.56	4.76	15.38	3.23
33°C	3.50	21.14	6.04	3.62	20.47	5.65	3.74	19.48	5.20	3.92	18.62	4.76	4.12	17.80	4.32	4.33	16.98	3.92	4.54	16.16	3.56	4.76	15.34	3.22
32°C	3.50	21.08	6.03	3.62	20.41	5.64	3.74	19.42	5.19	3.91	18.57	4.74	4.12	17.75	4.31	4.33	16.93	3.91	4.54	16.11	3.55	4.76	15.29	3.22
31°C	3.50	21.03	6.01	3.62	20.36	5.63	3.74	19.37	5.18	3.91	18.52	4.73	4.11	17.70	4.30	4.33	16.88	3.90	4.54	16.06	3.54	4.75	15.25	3.21
30°C	3.50	20.97	6.00	3.62	20.30	5.61	3.74	19.32	5.17	3.91	18.47	4.72	4.11	17.65	4.29	4.33	16.83	3.89	4.54	16.02	3.53	4.75	15.20	3.20
29°C	3.49	20.91	5.98	3.61	20.25	5.60	3.74	19.27	5.15	3.91	18.42	4.71	4.11	17.60	4.28	4.32	16.79	3.88	4.54	15.97	3.52	4.75	15.16	3.19
28°C	3.49	20.86	5.97	3.61	20.19	5.59	3.74	19.21	5.14	3.91	18.37	4.70	4.11	17.55	4.27	4.32	16.74	3.87	4.53	15.92	3.51	4.75	15.11	3.18
27°C	3.49	20.80	5.96	3.61	20.14	5.58	3.73	19.16	5.13	3.91	18.32	4.69	4.11	17.50	4.26	4.32	16.69	3.86	4.53	15.88	3.50	4.75	15.07	3.17
26°C	3.49	20.74	5.94	3.61	20.09	5.56	3.73	19.11	5.12	3.90	18.27	4.68	4.11	17.46	4.25	4.32	16.64	3.85	4.53	15.83	3.49	4.74	15.02	3.17
25°C	3.49	20.69	5.93	3.61	20.03	5.55	3.73	19.06	5.11	3.90	18.22	4.67	4.10	17.41	4.24	4.32	16.60	3.85	4.53	15.79	3.49	4.74	14.98	3.16
24°C	3.49	20.63	5.92	3.61	19.98	5.54	3.73	19.01	5.10	3.90	18.17	4.66	4.10	17.36	4.23	4.31	16.55	3.84	4.53	15.74	3.48	4.74	14.93	3.15
23°C	3.49	20.58	5.90	3.61	19.92	5.53	3.73	18.96	5.08	3.90	18.12	4.65	4.10	17.31	4.22	4.31	16.50	3.83	4.53	15.70	3.47	4.74	14.89	3.14
22°C	3.48	20.52	5.89	3.60	19.87	5.51	3.73	18.91	5.07	3.90	18.07	4.64	4.10	17.26	4.21	4.31	16.46	3.82	4.52	15.65	3.46	4.74	14.85	3.13
21°C	3.48	20.47	5.88	3.60	19.82	5.50	3.73	18.86	5.06	3.90	18.02	4.63	4.10	17.22	4.20	4.31	16.41	3.81	4.52	15.61	3.45	4.73	14.80	3.13
20°C	3.48	20.41	5.86	3.60	19.77	5.49	3.72	18.81	5.05	3.89	17.97	4.61	4.10	17.17	4.19	4.31	16.37	3.80	4.52	15.56	3.44	4.73	14.76	3.12
19°C	3.51	20.36	5.81	3.63	19.71	5.43	3.75	18.76	5.00	3.94	17.92	4.55	4.14	17.12	4.13	4.36	16.32	3.75	4.57	15.52	3.40	4.78	14.72	3.08
18°C	3.53	20.31	5.75	3.66	19.66	5.37	3.79	18.71	4.94	3.98	17.88	4.49	4.19	17.07	4.07	4.41	16.27	3.69	4.62	15.47	3.35	4.83	14.67	3.04
17°C	3.56	20.25	5.69	3.69	19.61	5.31	3.82	18.66	4.89	4.02	17.83	4.43	4.24	17.03	4.01	4.46	16.23	3.64	4.67	15.43	3.30	4.88	14.63	3.00
16°C	3.58	20.20	5.64	3.72	19.56	5.25	3.85	18.61	4.84	4.07	17.78	4.37	4.29	16.98	3.96	4.51	16.18	3.59	4.72	15.39	3.26	4.93	14.59	2.96
15°C	3.61	20.14	5.58	3.75	19.50	5.19	3.88	18.56	4.79	4.11	17.73	4.31	4.34	16.93	3.90	4.56	16.14	3.54	4.77	15.34	3.22	4.98	14.54	2.92
14°C	3.63	20.09	5.53	3.79	19.45	5.14	3.91	18.51	4.73	4.15	17.68	4.26	4.39	16.89	3.85	4.61	16.09	3.49	4.82	15.30	3.17	5.04	14.50	2.88
13°C	3.66	20.04	5.47	3.82	19.40	5.08	3.94	18.46	4.68	4.20	17.64	4.20	4.44	16.84	3.79	4.66	16.05	3.45	4.87	15.25	3.13	5.09	14.46	2.84
12°C	3.69	19.98	5.42	3.85	19.35	5.03	3.97	18.41	4.64	4.24	17.59	4.15	4.49	16.80	3.74	4.71	16.00	3.40	4.92	15.21	3.09	5.14	14.42	2.81
11°C	3.71	19.61	5.28	3.87	19.08	4.93	4.00	18.19	4.55	4.28	17.37	4.05	4.54	16.58	3.65	4.76	15.79	3.32	4.97	15.00	3.02	5.19	14.21	2.74
10°C	3.74	19.24	5.15	3.89	18.82	4.84	4.03	17.98	4.46	4.33	17.16	3.96	4.59	16.37	3.56	4.81	15.58	3.24	5.02	14.79	2.94	5.24	14.00	2.67
9°C	3.76	18.87	5.01	3.91	18.55	4.75	4.05	17.76	4.38	4.37	16.94	3.88	4.64	16.15	3.48	4.86	15.36	3.16	5.08	14.58	2.87	5.29	13.79	2.60
8°C	3.79	18.50	4.88	3.93	18.29	4.65	4.08	17.54	4.30	4.41	16.73	3.79	4.70	15.94	3.40	4.91	15.15	3.09	5.13	14.37	2.80	5.34	13.58	2.54
7°C	3.82	18.13	4.75	3.95	18.03	4.56	4.11	17.24	4.20	4.40	16.46	3.74	4.73	15.67	3.31	4.96	14.88	3.00	5.18	14.10	2.72	5.40	13.31	2.46
6°C	4.13	18.23	4.42	4.31	18.01	4.18	4.51	17.24	3.83	4.79	16.47	3.44	5.11	15.71	3.07	5.37	14.94	2.78	5.62	14.17	2.52	5.88	13.41	2.28
5°C	4.27	17.69	4.14	4.48	17.35	3.87	4.72	16.63	3.52	5.00	15.91	3.18	5.30	15.19	2.87	5.57	14.47	2.60	5.85	13.75	2.35	6.12	13.03	2.13
4°C	4.25	16.58	3.90	4.48	16.17	3.61	4.75	15.51	3.27	5.02	14.85	2.96	5.31	14.20	2.67	5.59	13.54	2.42	5.87	12.88	2.19	6.15	12.23	1.99
3°C	4.36	16.13	3.70	4.60	15.65	3.40	4.90	15.03	3.07	5.19	14.41	2.77	5.48	13.78	2.51	5.78	13.16	2.28	6.08	12.54	2.06	6.37	11.92	1.87
2°C	4.57	15.81	3.46	4.83	15.23	3.15	5.15	14.64	2.84	5.46	14.05	2.57	5.77	13.46	2.33	6.08	12.88	2.12	6.39	12.29	1.92	6.70	11.70	1.75
1°C	4.57	15.81	3.46	4.83	15.22	3.15	5.16	14.62	2.84	5.47	14.03	2.57	5.77	13.43	2.33	6.08	12.84	2.11	6.40	12.25	1.91	6.71	11.65	1.74
0°C	4.57	15.81	3.46	4.84	15.21	3.14	5.17	14.61	2.83	5.48	14.01	2.56	5.79	13.41	2.32	6.10	12.80	2.10	6.41	12.20	1.90	6.72	11.60	1.73
-1°C	4.58	15.81	3.46	4.85	15.20	3.14	5.18	14.60	2.82	5.50	13.99	2.54	5.81	13.38	2.30	6.13	12.77	2.08	6.44	12.16	1.89	6.74	11.55	1.71
-2°C	4.58	15.81	3.45	4.86	15.20	3.12	5.20	14.58	2.80	5.52	13.96	2.53	5.84	13.35	2.28	6.17	12.73	2.06	6.48	12.11	1.87	6.77	11.50	1.70
-3°C	4.59	15.81	3.45	4.88	15.19	3.11	5.22	14.57	2.79	5.56	13.94	2.51	5.88	13.32	2.26	6.22	12.70	2.04	6.52	12.07	1.85	6.81	11.45	1.68
-4°C	4.59	15.81	3.44	4.90	15.18	3.10	5.25	14.55	2.77	5.60	13.92	2.49	5.94	13.29	2.24	6.28	12.66	2.02	6.58	12.03	1.83	6.86	11.40	1.66
-5°C	4.60	15.81	3.44	4.93	15.18	3.08	5.29	14.54	2.75	5.65	13.90	2.46	6.00	13.26	2.21	6.35	12.62	1.99	6.65	11.98	1.80	6.92	11.35	1.64
-6°C	4.60	15.81	3.43	4.96	15.17	3.06	5.33	14.52	2.72	5.70	13.88	2.43	6.07	13.23	2.18	6.44	12.59	1.96	6.74	11.94	1.77	6.99	11.30	1.62
-7°C	4.61	15.81	3.43	5.00	15.16	3.03	5.38	14.51	2.70	5.76	13.86	2.40	6.15	13.20	2.15	6.53	12.55	1.92	6.83	11.90	1.74	7.06	11.24	1.59
-8°C	4.65	15.66	3.37	5.03	15.02	2.98	5.42	14.37	2.65	5.81	13.65	2.35	6.19	12.93	2.09	6.58	12.20	1.86	6.87	11.48	1.67	7.11	10.76	1.51
-9°C	4.68	15.50	3.31	5.07	14.87	2.93	5.46	14.24	2.61	5.85	13.45	2.30	6.24	12.65	2.03	6.62	11.86	1.79	6.92	11.06	1.60	7.16	10.27	1.43
-10°C	4.71	15.35	3.26	5.10	14.73	2.89	5.50	14.11	2.57	5.89	13.24	2.25	6.28	12.38	1.97	6.67	11.51	1.73	6.97	10.64	1.53	7.21	9.78	1.36
-11°C	4.74	14.90	3.15	5.13	14.35	2.80	5.52	13.78	2.49	5.92	12.96	2.19	6.31	12.14	1.92	6.70	11.30	1.69	7.00	10.47	1.49	7.24	9.63	1.33
-12°C	4.76	14.43	3.03	5.16	13.94	2.70	5.55	13.42	2.42	5.95	12.65	2.13	6.34	11.87	1.87	6.74	11.07	1.64	7.04	10.26	1.46	7.28	9.45	1.30
-13°C	4.78	13.94	2.91	5.18	13.51	2.61	5.58	13.04	2.34	5.98	12.32	2.06	6.37	11.57	1.82	6.77	10.81	1.60	7.07	10.03	1.42	7.31	9.24	1.26
-14°C	4.81	13.43	2.79	5.21	13.05	2.51	5.61	12.63	2.25	6.01	11.95	1.99	6.41	11.25	1.76	6.80	10.52	1.55	7.11	9.78	1.38	7.35	9.02	1.23
-15°C	4.83	12.91	2.67	5.23	12.58	2.40	5.64	12.20	2.17	6.04	11.57	1.92	6.44	10.90	1.69	6.84	10.21	1.49	7.14	9.50	1.33	7.39	8.77	1.19
-16°C	4.78	12.37	2.58	5.18	12.09	2.33	5.58	11.75	2.11	5.98	11.16	1.87	6.37	10.53	1.65	6.77	9.87	1.46	7.07	9.20	1.30	7.31	8.50	1.16
-17°C	4.74	11.81	2.49	5.13	11.57	2.26	5.52	11.27	2.04	5.92	10.73	1.81	6.31	10.14	1.61	6.70	9.52	1.42	7.00	8.87	1.27	7.24	8.21	1.13
-18°C	4.69	11.24	2.40	5.08	11.05	2.18	5.47	10.78	1.97	5.86	10.27	1.75	6.25	9.72	1.56	6.64	9.14	1.38	6.93	8.53	1.23	7.17	7.90	1.10
-19°C	4.64	10.66	2.30	5.03	10.50	2.09	5.41	10.27	1.90	5.80	9.80	1.69	6.18	9.29	1.50	6.57	8.74	1.33	6.86	8.17	1.19	7.10	7.57	1.07
-20°C	4.60	10.07	2.19	4.98	9.94	2.00	5.36	9.74	1.82	5.74	9.31	1.62	6.12	8.84	1.44	6.50	8.32	1.28	6.79	7.78	1.15	7.03	7.22	1.03
-21°C	4.55	9.47	2.08	4.93	9.37	1.90	5.31	9.19	1.73	5.68	8.80	1.55	6.06	8.36	1.38	6.44	7.89	1.23	6.73	7.38	1.10	0.00	0.00	0.00
-22°C	4.50	8.86	1.97	4.88	8.78	1.80	5.25	8.63	1.64	5.63	8.28	1.47	6.00	7.87	1.31	6.37	7.43	1.17	6.66	6.96	1.05	0.00	0.00	0.00
-23°C	4.46	8.24	1.85	4.83	8.18	1.69	5.20	8.05	1.55	5.57	7.73	1.39	5.94	7.37	1.24	6.31	6.96	1.10	0.00	0.00	0.00	0.00	0.00	0.00
-24°C	4.41	7.61	1.72	4.78	7.57	1.58	5.15	7.46	1.45	5.51	7.18	1.30	5.88	6.84	1.16	6.25	6.47	1.04	0.00	0.00	0.00	0.00	0.00	0.00
-25°C	4.37	6.97	1.59	4.73	6.95	1.47	5.10	6.86	1.35	5.46	6.60	1.21	5.82	6.31	1.08	6.18	5.97	0.97	0.00	0.00	0.00	0.00	0.00	0.00

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

▼ Alféa Excellia HP A.I. Tri 15 and alféa Excellia HP Duo A.I. Tri 15

Test conditions comply with EN 14825 whitout electrical backup

Outdoor temperature	Starting temperature																							
	25°C			30°C			35°C			40°C			45°C			50°C			55°C			60°C		
	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP
35°C	3.24	19.87	6.14	3.35	19.28	5.76	3.46	18.28	5.28	3.62	17.40	4.81	3.81	16.56	4.35	4.00	15.71	3.93	4.20	14.87	3.54	4.40	14.03	3.19
34°C	3.23	19.82	6.13	3.34	19.23	5.75	3.46	18.23	5.27	3.62	17.36	4.80	3.80	16.51	4.34	4.00	15.67	3.92	4.20	14.83	3.53	4.40	13.99	3.18
33°C	3.23	19.77	6.12	3.34	19.18	5.74	3.46	18.19	5.26	3.62	17.31	4.79	3.80	16.47	4.33	4.00	15.63	3.91	4.20	14.79	3.53	4.39	13.95	3.18
32°C	3.23	19.72	6.11	3.34	19.13	5.73	3.45	18.14	5.25	3.61	17.27	4.78	3.80	16.43	4.32	4.00	15.59	3.90	4.19	14.75	3.52	4.39	13.91	3.17
31°C	3.23	19.68	6.09	3.34	19.09	5.72	3.45	18.09	5.24	3.61	17.23	4.77	3.80	16.39	4.32	3.99	15.55	3.89	4.19	14.71	3.51	4.39	13.87	3.16
30°C	3.23	19.63	6.08	3.34	19.04	5.71	3.45	18.05	5.23	3.61	17.18	4.76	3.79	16.34	4.31	3.99	15.51	3.89	4.19	14.67	3.50	4.38	13.83	3.15
29°C	3.22	19.58	6.07	3.33	18.99	5.69	3.45	18.00	5.22	3.61	17.14	4.75	3.79	16.30	4.30	3.99	15.47	3.88	4.19	14.63	3.50	4.38	13.79	3.15
28°C	3.22	19.53	6.06	3.33	18.94	5.68	3.45	17.96	5.21	3.60	17.09	4.74	3.79	16.26	4.29	3.99	15.42	3.87	4.18	14.59	3.49	4.38	13.76	3.14
27°C	3.22	19.48	6.05	3.33	18.90	5.67	3.44	17.91	5.20	3.60	17.05	4.73	3.79	16.22	4.28	3.98	15.38	3.86	4.18	14.55	3.48	4.38	13.72	3.13
26°C	3.22	19.43	6.04	3.33	18.85	5.66	3.44	17.87	5.19	3.60	17.01	4.72	3.79	16.18	4.27	3.98	15.34	3.85	4.18	14.51	3.47	4.37	13.68	3.13
25°C	3.22	19.38	6.03	3.33	18.80	5.65	3.44	17.83	5.18	3.60	16.97	4.71	3.78	16.13	4.26	3.98	15.30	3.85	4.18	14.47	3.47	4.37	13.64	3.12
24°C	3.21	19.34	6.01	3.33	18.76	5.64	3.44	17.78	5.17	3.60	16.92	4.71	3.78	16.09	4.26	3.98	15.26	3.84	4.17	14.43	3.46	4.37	13.60	3.11
23°C	3.21	19.29	6.00	3.32	18.71	5.63	3.44	17.74	5.16	3.59	16.88	4.70	3.78	16.05	4.25	3.97	15.22	3.83	4.17	14.39	3.45	4.37	13.57	3.11
22°C	3.21	19.24	5.99	3.32	18.66	5.62	3.43	17.69	5.15	3.59	16.84	4.69	3.78	16.01	4.24	3.97	15.18	3.82	4.17	14.36	3.44	4.36	13.53	3.10
21°C	3.21	19.19	5.98	3.32	18.62	5.61	3.43	17.65	5.14	3.59	16.79	4.68	3.77	15.97	4.23	3.97	15.14	3.81	4.17	14.32	3.44	4.36	13.49	3.09
20°C	3.21	19.14	5.97	3.32	18.57	5.60	3.43	17.61	5.13	3.59	16.75	4.67	3.77	15.93	4.22	3.97	15.10	3.81	4.16	14.28	3.43	4.36	13.45	3.09
19°C	3.23	19.10	5.91	3.34	18.53	5.54	3.46	17.56	5.08	3.63	16.71	4.61	3.82	15.89	4.16	4.01	15.06	3.75	4.21	14.24	3.38	4.40	13.42	3.05
18°C	3.25	19.05	5.86	3.37	18.48	5.48	3.49	17.52	5.03	3.67	16.67	4.55	3.86	15.85	4.10	4.06	15.02	3.70	4.25	14.20	3.34	4.45	13.38	3.01
17°C	3.28	19.00	5.80	3.40	18.43	5.42	3.51	17.48	4.97	3.70	16.63	4.49	3.91	15.81	4.05	4.10	14.98	3.65	4.30	14.16	3.29	4.50	13.34	2.97
16°C	3.30	18.96	5.75	3.43	18.39	5.36	3.54	17.43	4.92	3.74	16.59	4.43	3.95	15.77	3.99	4.15	14.95	3.60	4.34	14.13	3.25	4.54	13.31	2.93
15°C	3.32	18.91	5.69	3.46	18.34	5.31	3.57	17.39	4.87	3.78	16.54	4.37	4.00	15.72	3.93	4.19	14.91	3.55	4.39	14.09	3.21	4.59	13.27	2.89
14°C	3.34	18.86	5.64	3.48	18.30	5.25	3.60	17.35	4.82	3.82	16.50	4.32	4.04	15.68	3.88	4.24	14.87	3.51	4.44	14.05	3.17	4.63	13.23	2.86
13°C	3.37	18.82	5.59	3.51	18.25	5.20	3.63	17.30	4.77	3.86	16.46	4.26	4.09	15.64	3.83	4.28	14.83	3.46	4.48	14.01	3.13	4.68	13.20	2.82
12°C	3.39	18.77	5.54	3.54	18.21	5.15	3.65	17.26	4.72	3.90	16.42	4.21	4.13	15.60	3.78	4.33	14.79	3.42	4.53	13.97	3.09	4.73	13.16	2.78
11°C	3.41	18.43	5.40	3.56	17.95	5.05	3.68	17.05	4.63	3.94	16.21	4.11	4.18	15.39	3.68	4.38	14.58	3.33	4.57	13.76	3.01	4.77	12.95	2.71
10°C	3.44	18.09	5.26	3.58	17.69	4.95	3.70	16.83	4.55	3.98	15.99	4.02	4.22	15.18	3.59	4.42	14.37	3.25	4.62	13.56	2.93	4.82	12.74	2.64
9°C	3.46	17.74	5.13	3.59	17.44	4.85	3.73	16.62	4.46	4.02	15.78	3.93	4.27	14.97	3.51	4.47	14.16	3.17	4.67	13.35	2.86	4.87	12.54	2.58
8°C	3.48	17.40	5.00	3.61	17.18	4.76	3.75	16.41	4.37	4.06	15.57	3.84	4.32	14.76	3.42	4.51	13.95	3.09	4.71	13.14	2.79	4.91	12.33	2.51
7°C	3.51	17.07	4.87	3.63	16.93	4.66	3.78	16.12	4.27	4.04	15.31	3.79	4.35	14.50	3.34	4.55	13.69	3.01	4.76	12.88	2.71	4.97	12.07	2.43
6°C	3.75	17.23	4.60	3.91	16.90	4.33	4.11	16.05	3.90	4.40	15.20	3.45	4.71	14.35	3.05	4.94	13.50	2.73	5.17	12.65	2.45	5.41	11.81	2.18
5°C	3.81	16.67	4.37	4.00	16.19	4.05	4.24	15.34	3.61	4.53	14.49	3.20	4.82	13.63	2.83	5.07	12.78	2.52	5.32	11.93	2.24	5.57	11.08	1.99
4°C	3.82	15.96	4.18	4.02	15.35	3.82	4.28	14.51	3.39	4.56	13.67	3.00	4.83	12.83	2.66	5.08	11.99	2.36	5.34	11.15	2.09	5.60	10.31	1.84
3°C	3.93	15.80	4.02	4.15	15.08	3.63	4.43	14.23	3.21	4.70	13.38	2.85	4.97	12.53	2.52	5.23	11.67	2.23	5.50	10.82	1.97	5.77	9.97	1.73
2°C	4.12	15.73	3.82	4.35	14.85	3.42	4.64	13.98	3.01	4.92	13.10	2.66	5.19	12.22	2.36	5.47	11.34	2.07	5.75	10.47	1.82	6.03	9.59	1.59
1°C	4.12	15.62	3.79	4.35	14.80	3.40	4.64	13.99	3.01	4.92	13.17	2.68	5.19	12.36	2.38	5.48	11.55	2.11	5.76	10.73	1.86	6.03	9.92	1.64
0°C	4.12	15.50	3.77	4.35	14.75	3.39	4.65	14.00	3.01	4.93	13.25	2.69	5.21	12.50	2.40	5.49	11.75	2.14	5.77	11.00	1.91	6.05	10.24	1.69
-1°C	4.12	15.39	3.74	4.36	14.70	3.37	4.66	14.01	3.01	4.95	13.32	2.69	5.23	12.64	2.42	5.52	11.95	2.17	5.79	11.26	1.94	6.07	10.57	1.74
-2°C	4.12	15.28	3.71	4.38	14.65	3.35	4.68	14.03	3.00	4.97	13.40	2.70	5.26	12.77	2.43	5.55	12.15	2.19	5.83	11.52	1.98	6.10	10.90	1.79
-3°C	4.13	15.16	3.67	4.39	14.60	3.32	4.70	14.04	2.99	5.00	13.48	2.69	5.30	12.91	2.44	5.60	12.35	2.21	5.87	11.79	2.01	6.13	11.23	1.83
-4°C	4.13	15.05	3.64	4.41	14.55	3.30	4.73	14.05	2.97	5.04	13.55	2.69	5.34	13.05	2.44	5.65	12.55	2.22	5.93	12.05	2.03	6.18	11.55	1.87
-5°C	4.14	14.93	3.61	4.44	14.50	3.27	4.76	14.06	2.95	5.08	13.63	2.68	5.40	13.19	2.44	5.72	12.75	2.23	5.99	12.32	2.06	6.23	11.88	1.91
-6°C	4.14	14.82	3.58	4.47	14.45	3.24	4.80	14.07	2.93	5.13	13.70	2.67	5.46	13.33	2.44	5.79	12.95	2.24	6.06	12.58	2.08	6.29	12.21	1.94
-7°C	4.15	14.71	3.54	4.50	14.40	3.20	4.84	14.09	2.91	5.19	13.78	2.66	5.53	13.47	2.43	5.88	13.16	2.24	6.14	12.85	2.09	6.36	12.54	1.97
-8°C	4.18	14.53	3.47	4.53	14.17	3.13	4.88	13.81	2.83	5.22	13.50	2.58	5.57	13.20	2.37	5.92	12.89	2.18	6.19	12.58	2.03	6.40	12.28	1.92
-9°C	4.21	14.36	3.41	4.56	13.95	3.06	4.91	13.53	2.76	5.26	13.23	2.51	5.61	12.93	2.30	5.96	12.62	2.12	6.23	12.32	1.98	6.44	12.01	1.87
-10°C	4.24	14.18	3.34	4.59	13.72	2.99	4.95	13.26	2.68	5.30	12.96	2.45	5.65	12.66	2.24	6.00	12.36	2.06	6.27	12.05	1.92	6.48	11.75	1.81
-11°C	4.26	13.77	3.23	4.62	13.36	2.89	4.97	12.95	2.60	5.33	12.68	2.38	5.68	12.41	2.19	6.03	12.13	2.01	6.30	11.85	1.88	6.52	11.57	1.78
-12°C	4.28	13.33	3.11	4.64	12.98	2.80	5.00	12.61	2.52	5.35	12.38	2.31	5.71	12.14	2.13	6.06	11.88	1.96	6.33	11.62	1.83	6.55	11.36	1.73
-13°C	4.31	12.88	2.99	4.66	12.58	2.70	5.02	12.25	2.44	5.38	12.05	2.24	5.74	11.83	2.06	6.09	11.60	1.90	6.37	11.36	1.78	6.58	11.11	1.69
-14°C	4.33	12.41	2.87	4.69	12.16	2.59	5.05	11.87	2.35	5.41	11.70	2.16	5.76	11.50	2.00	6.12	11.29	1.84	6.40	11.07	1.73	6.62	10.84	1.64
-15°C	4.35	11.93	2.74	4.71	11.72	2.49	5.07	11.47	2.26	5.43	11.32	2.08	5.79	11.15	1.92	6.15	10.96	1.78	6.43	10.76	1.67	6.65	10.54	1.59
-16°C	4.31	11.43	2.65	4.66	11.26	2.41	5.02	11.04	2.20	5.38	10.92	2.03	5.74	10.77	1.88	6.09	10.60	1.74	6.37	10.42	1.64	6.58	10.22	1.55
-17°C	4.26	10.91	2.56	4.62	10.78	2.34	4.97	10.59	2.13	5.32	10.50	1.97	5.68	10.37	1.83	6.03	10.22	1.69	6.30	10.05	1.59	6.52	9.87	1.51
-18°C	4.22	10.39	2.46	4.57	10.29	2.25	4.92	10.13	2.06	5.27	10.05	1.91	5.62	9.94	1.77	5.97	9.81	1.64	6.24	9.66	1.55	6.45	9.49	1.47
-19°C	4.18	9.85	2.36	4.52	9.78	2.16	4.87	9.65	1.98	5.22	9.59	1.84	5.57	9.50	1.71	5.91	9.38	1.59	6.18	9.25	1.50	6.39	9.10	1.42
-20°C	4.14	9.31	2.25	4.48	9.26	2.07	4.82	9.15	1.90	5.17	9.11	1.76	5.51	9.04	1.64	5.85	8.94	1.53	6.12	8.81	1.44	6.32	8.68	1.37
-21°C	4.09	8.75	2.14	4.43	8.73	1.97	4.77	8.64	1.81	5.11	8.61	1.68	5.45	8.55	1.57	5.79	8.47	1.46	6.05	8.36	1.38	0.00	0.00	0.00
-22°C	4.05	8.19	2.02	4.39	8.18	1.86	4.73	8.11	1.72	5.06	8.10	1.60	5.40	8.05	1.49	5.74	7.98	1.39	5.99	7.89	1.32	0.00	0.00	0.00
-23°C	4.01	7.61	1.90	4.35	7.62	1.75	4.68	7.57	1.62	5.01	7.57	1.51	5.35	7.53	1.41	5.68	7.47	1.32	0.00	0.00	0.00	0.00	0.00	0.00
-24°C	3.97	7.03	1.77	4.30	7.05	1.64	4.63	7.01	1.51	4.96	7.02	1.41	5.29	7.00	1.32	5.62	6.95	1.24	0.00	0.00	0.00	0.00	0.00	0.00
-25°C	3.93	6.44	1.64	4.26	6.47	1.52	4.59	6.45	1.41	4.91	6.46	1.32	5.24	6.45	1.23	5.57	6.41	1.15	0.00	0.00	0.00	0.00	0.00	0.00

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

▼ Alféa Excellia HP A.I. Tri 17 and alféa Excellia HP Duo A.I. Tri 17

Test conditions comply with EN 14825 whitout electrical backup

Outdoor temperature	Starting temperature																							
	25°C			30°C			35°C			40°C			45°C			50°C			55°C			60°C		
	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP
35°C	3.73	22.19	5.95	3.74	21.47	5.73	3.88	20.55	5.30	4.06	19.75	4.86	4.28	18.99	4.44	4.51	18.23	4.04	4.75	17.46	3.68	4.98	16.70	3.35
34°C	3.73	22.13	5.93	3.74	21.41	5.72	3.87	20.49	5.29	4.06	19.70	4.85	4.28	18.94	4.43	4.51	18.18	4.03	4.75	17.42	3.67	4.98	16.66	3.35
33°C	3.73	22.07	5.92	3.74	21.36	5.71	3.87	20.44	5.28	4.06	19.65	4.84	4.28	18.89	4.42	4.51	18.13	4.02	4.74	17.37	3.66	4.98	16.61	3.34
32°C	3.73	22.02	5.91	3.74	21.30	5.70	3.87	20.39	5.27	4.06	19.60	4.83	4.27	18.84	4.41	4.51	18.08	4.01	4.74	17.32	3.65	4.97	16.56	3.33
31°C	3.72	21.96	5.90	3.74	21.25	5.69	3.87	20.34	5.26	4.05	19.55	4.82	4.27	18.79	4.40	4.50	18.03	4.00	4.74	17.27	3.65	4.97	16.52	3.32
30°C	3.72	21.90	5.89	3.73	21.19	5.67	3.87	20.28	5.25	4.05	19.50	4.81	4.27	18.74	4.39	4.50	17.98	3.99	4.74	17.23	3.64	4.97	16.47	3.32
29°C	3.72	21.85	5.87	3.73	21.14	5.66	3.86	20.23	5.24	4.05	19.45	4.80	4.27	18.69	4.38	4.50	17.93	3.99	4.73	17.18	3.63	4.96	16.42	3.31
28°C	3.72	21.79	5.86	3.73	21.08	5.65	3.86	20.18	5.23	4.05	19.40	4.79	4.27	18.64	4.37	4.50	17.89	3.98	4.73	17.13	3.62	4.96	16.38	3.30
27°C	3.72	21.74	5.85	3.73	21.03	5.64	3.86	20.13	5.21	4.04	19.34	4.78	4.26	18.59	4.36	4.50	17.84	3.97	4.73	17.09	3.61	4.96	16.33	3.29
26°C	3.71	21.68	5.84	3.73	20.97	5.63	3.86	20.08	5.20	4.04	19.29	4.77	4.26	18.54	4.35	4.49	17.79	3.96	4.73	17.04	3.61	4.96	16.29	3.29
25°C	3.71	21.62	5.83	3.73	20.92	5.62	3.86	20.02	5.19	4.04	19.24	4.76	4.26	18.49	4.34	4.49	17.74	3.95	4.72	16.99	3.60	4.95	16.24	3.28
24°C	3.71	21.57	5.81	3.72	20.87	5.60	3.85	19.97	5.18	4.04	19.19	4.75	4.26	18.45	4.33	4.49	17.70	3.94	4.72	16.95	3.59	4.95	16.20	3.27
23°C	3.71	21.51	5.80	3.72	20.81	5.59	3.85	19.92	5.17	4.04	19.15	4.74	4.25	18.40	4.32	4.49	17.65	3.93	4.72	16.90	3.58	4.95	16.15	3.26
22°C	3.71	21.46	5.79	3.72	20.76	5.58	3.85	19.87	5.16	4.03	19.10	4.73	4.25	18.35	4.31	4.48	17.60	3.93	4.72	16.85	3.57	4.95	16.11	3.26
21°C	3.70	21.40	5.78	3.72	20.71	5.57	3.85	19.82	5.15	4.03	19.05	4.72	4.25	18.30	4.31	4.48	17.55	3.92	4.71	16.81	3.57	4.94	16.06	3.25
20°C	3.70	21.35	5.77	3.72	20.65	5.56	3.85	19.77	5.14	4.03	19.00	4.71	4.25	18.25	4.30	4.48	17.51	3.91	4.71	16.76	3.56	4.94	16.02	3.24
19°C	3.73	21.30	5.71	3.75	20.60	5.50	3.88	19.72	5.09	4.08	18.95	4.65	4.30	18.20	4.23	4.53	17.46	3.85	4.76	16.72	3.51	5.00	15.97	3.20
18°C	3.76	21.24	5.65	3.78	20.55	5.44	3.91	19.67	5.03	4.12	18.90	4.59	4.35	18.16	4.17	4.59	17.41	3.80	4.82	16.67	3.46	5.05	15.93	3.15
17°C	3.79	21.19	5.59	3.81	20.50	5.38	3.94	19.62	4.98	4.17	18.85	4.52	4.41	18.11	4.11	4.64	17.37	3.74	4.87	16.63	3.41	5.10	15.88	3.11
16°C	3.82	21.13	5.53	3.84	20.44	5.32	3.97	19.57	4.92	4.21	18.80	4.46	4.46	18.06	4.05	4.69	17.32	3.69	4.93	16.58	3.37	5.16	15.84	3.07
15°C	3.85	21.08	5.48	3.87	20.39	5.26	4.01	19.52	4.87	4.26	18.75	4.40	4.51	18.01	3.99	4.75	17.28	3.64	4.98	16.54	3.32	5.21	15.80	3.03
14°C	3.88	21.03	5.42	3.91	20.34	5.21	4.04	19.47	4.82	4.31	18.71	4.34	4.57	17.97	3.93	4.80	17.23	3.59	5.03	16.49	3.28	5.27	15.75	2.99
13°C	3.91	20.97	5.37	3.94	20.29	5.15	4.07	19.42	4.77	4.35	18.66	4.29	4.62	17.92	3.88	4.85	17.18	3.54	5.09	16.45	3.23	5.32	15.71	2.95
12°C	3.94	20.92	5.32	3.97	20.24	5.10	4.10	19.37	4.72	4.40	18.61	4.23	4.67	17.87	3.82	4.91	17.14	3.49	5.14	16.40	3.19	5.38	15.67	2.91
11°C	3.97	20.55	5.18	4.02	19.99	4.98	4.14	19.17	4.63	4.45	18.41	4.14	4.73	17.67	3.74	4.96	16.94	3.41	5.20	16.20	3.12	5.43	15.47	2.85
10°C	4.00	20.18	5.05	4.06	19.75	4.87	4.18	18.97	4.54	4.49	18.21	4.05	4.78	17.47	3.65	5.02	16.74	3.34	5.25	16.01	3.05	5.49	15.27	2.78
9°C	4.03	19.81	4.92	4.10	19.50	4.75	4.21	18.77	4.45	4.54	18.01	3.96	4.84	17.28	3.57	5.07	16.54	3.26	5.31	15.81	2.98	5.54	15.08	2.72
8°C	4.05	19.44	4.79	4.15	19.26	4.64	4.25	18.57	4.37	4.59	17.81	3.88	4.89	17.08	3.49	5.13	16.35	3.19	5.36	15.61	2.91	5.60	14.88	2.66
7°C	4.08	19.07	4.67	4.19	19.02	4.54	4.29	18.29	4.26	4.57	17.56	3.84	4.94	16.83	3.41	5.18	16.10	3.11	5.42	15.37	2.84	5.64	14.64	2.60
6°C	4.30	19.07	4.44	4.46	18.77	4.21	4.65	17.95	3.86	4.98	17.13	3.44	5.35	16.31	3.05	5.61	15.50	2.76	5.87	14.68	2.50	6.07	13.86	2.28
5°C	4.37	18.57	4.25	4.57	18.06	3.95	4.82	17.18	3.56	5.16	16.30	3.16	5.52	15.43	2.80	5.78	14.55	2.52	6.05	13.67	2.26	6.24	12.80	2.05
4°C	4.43	18.07	4.08	4.65	17.38	3.73	4.92	16.46	3.35	5.23	15.54	2.97	5.55	14.62	2.63	5.82	13.70	2.35	6.09	12.78	2.10	6.26	11.86	1.89
3°C	4.62	18.21	3.94	4.87	17.36	3.56	5.14	16.38	3.19	5.44	15.39	2.83	5.74	14.41	2.51	6.02	13.42	2.23	6.30	12.44	1.97	6.46	11.45	1.77
2°C	4.87	18.40	3.78	5.14	17.32	3.37	5.42	16.25	3.00	5.71	15.18	2.66	6.02	14.10	2.34	6.31	13.03	2.06	6.61	11.96	1.81	6.77	10.89	1.61
1°C	4.87	18.26	3.75	5.14	17.26	3.36	5.42	16.26	3.00	5.72	15.26	2.67	6.03	14.26	2.37	6.32	13.26	2.10	6.61	12.26	1.85	6.78	11.26	1.66
0°C	4.87	18.13	3.72	5.15	17.20	3.34	5.43	16.27	3.00	5.73	15.34	2.68	6.04	14.42	2.39	6.34	13.49	2.13	6.62	12.56	1.90	6.78	11.63	1.71
-1°C	4.88	18.00	3.69	5.16	17.14	3.32	5.45	16.29	2.99	5.75	15.43	2.68	6.07	14.57	2.40	6.37	13.71	2.15	6.65	12.85	1.93	6.80	12.00	1.76
-2°C	4.88	17.87	3.66	5.17	17.09	3.30	5.47	16.30	2.98	5.78	15.51	2.68	6.10	14.73	2.41	6.41	13.94	2.18	6.68	13.15	1.97	6.82	12.37	1.81
-3°C	4.89	17.74	3.63	5.19	17.03	3.28	5.50	16.31	2.97	5.82	15.60	2.68	6.14	14.88	2.42	6.46	14.17	2.19	6.72	13.45	2.00	6.84	12.73	1.86
-4°C	4.90	17.61	3.59	5.21	16.97	3.25	5.53	16.32	2.95	5.86	15.68	2.68	6.20	15.04	2.43	6.52	14.39	2.21	6.76	13.75	2.03	6.87	13.10	1.91
-5°C	4.91	17.48	3.56	5.24	16.91	3.23	5.57	16.34	2.93	5.91	15.76	2.67	6.26	15.19	2.43	6.60	14.62	2.22	6.82	14.05	2.06	6.91	13.47	1.95
-6°C	4.92	17.35	3.52	5.27	16.85	3.20	5.62	16.35	2.91	5.98	15.85	2.65	6.33	15.35	2.42	6.69	14.85	2.22	6.88	14.34	2.08	6.95	13.84	1.99
-7°C	4.94	17.22	3.49	5.31	16.79	3.16	5.68	16.36	2.88	6.05	15.93	2.64	6.42	15.50	2.42	6.79	15.07	2.22	6.96	14.64	2.10	6.99	14.21	2.03
-8°C	4.88	16.92	3.47	5.26	16.39	3.11	5.65	15.86	2.81	6.03	15.45	2.56	6.41	15.03	2.35	6.79	14.62	2.15	6.96	14.20	2.04	7.00	13.79	1.97
-9°C	4.83	16.63	3.44	5.22	16.00	3.06	5.62	15.37	2.74	6.01	14.97	2.49	6.40	14.56	2.28	6.79	14.16	2.09	6.97	13.76	1.97	7.01	13.36	1.91
-10°C	4.78	16.33	3.42	5.18	15.60	3.01	5.59	14.87	2.66	5.99	14.48	2.42	6.39	14.10	2.21	6.79	13.71	2.02	6.98	13.32	1.91	7.02	12.94	1.84
-11°C	4.80	15.85	3.30	5.21	15.20	2.92	5.61	14.52	2.59	6.02	14.18	2.36	6.42	13.82	2.15	6.83	13.46	1.97	7.01	13.10	1.87	7.05	12.73	1.81
-12°C	4.83	15.35	3.18	5.23	14.76	2.82	5.64	14.15	2.51	6.05	13.84	2.29	6.46	13.52	2.09	6.86	13.18	1.92	7.05	12.84	1.82	7.09	12.50	1.76
-13°C	4.85	14.83	3.06	5.26	14.31	2.72	5.67	13.74	2.42	6.08	13.47	2.22	6.49	13.18	2.03	6.90	12.87	1.87	7.08	12.56	1.77	7.12	12.23	1.72
-14°C	4.88	14.29	2.93	5.29	13.83	2.62	5.70	13.31	2.34	6.11	13.07	2.14	6.52	12.81	1.96	6.93	12.53	1.81	7.12	12.24	1.72	7.16	11.93	1.67
-15°C	4.90	13.73	2.80	5.31	13.33	2.51	5.73	12.86	2.25	6.14	12.65	2.06	6.55	12.42	1.89	6.97	12.16	1.75	7.15	11.89	1.66	7.19	11.60	1.61
-16°C	4.85	13.16	2.71	5.26	12.80	2.43	5.67	12.38	2.18	6.08	12.20	2.01	6.49	11.99	1.85	6.90	11.76	1.71	7.08	11.51	1.62	7.12	11.24	1.58
-17°C	4.80	12.57	2.62	5.21	12.26	2.35	5.61	11.88	2.12	6.02	11.73	1.95	6.42	11.55	1.80	6.83	11.34	1.66	7.01	11.11	1.58	7.05	10.86	1.54
-18°C	4.75	11.96	2.52	5.16	11.70	2.27	5.56	11.36	2.04	5.96	11.24	1.89	6.36	11.08	1.74	6.76	10.89	1.61	6.94	10.68	1.54	6.98	10.45	1.50
-19°C	4.71	11.35	2.41	5.10	11.12	2.18	5.50	10.82	1.97	5.90	10.72	1.82	6.29	10.58	1.68	6.69	10.41	1.56	6.87	10.22	1.49	6.91	10.01	1.45
-20°C	4.66	10.72	2.30	5.05	10.53	2.08	5.45	10.26	1.88	5.84	10.18	1.74	6.23	10.06	1.61	6.62	9.91	1.50	6.80	9.74	1.43	6.84	9.55	1.40
-21°C	4.61	10.08	2.18	5.00	9.92	1.98	5.39	9.69	1.80	5.78	9.63	1.67	6.17	9.53	1.54	6.56	9.39	1.43	6.74	9.24	1.37	0.00	0.00	0.00
-22°C	4.57	9.43	2.06	4.95	9.30	1.88	5.34	9.10	1.70	5.72	9.05	1.58	6.11	8.97	1.47	6.49	8.85	1.36	6.67	8.72	1.31	0.00	0.00	0.00
-23°C	4.52	8.76	1.94	4.90	8.66	1.77	5.28	8.49	1.61	5.67	8.46	1.49	6.05	8.39	1.39	6.43	8.29	1.29	0.00	0.00	0.00	0.00	0.00	0.00
-24°C	4.48	8.09	1.81	4.85	8.02	1.65	5.23	7.87	1.50	5.61	7.85	1.40	5.99	7.79	1.30	6.36	7.71	1.21	0.00	0.00	0.00	0.00	0.00	0.00
-25°C	4.43	7.41	1.67	4.81	7.36	1.53	5.18	7.23	1.40	5.55	7.22	1.30	5.93	7.18	1.21	6.30	7.11	1.13	0.00	0.00	0.00	0.00	0.00	0.00

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

▶ Performances tables in heating mode including progressively electrical back-up

▼ Alféa Excellia HP A.I. 16 and alféa Excellia HP Duo A.I. 16

Test conditions comply with EN 14825 with 6 kW electrical backup

Outdoor temperature	Starting temperature																							
	25°C			30°C			35°C			40°C			45°C			50°C			55°C			60°C		
	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP
35°C	3.50	21.26	6.07	3.62	20.58	5.68	3.75	19.58	5.23	3.92	18.72	4.78	4.12	17.90	4.34	4.33	17.08	3.94	4.55	16.25	3.57	4.76	15.43	3.24
34°C	3.50	21.20	6.05	3.62	20.52	5.67	3.75	19.53	5.21	3.92	18.67	4.77	4.12	17.85	4.33	4.33	17.03	3.93	4.55	16.20	3.56	4.76	15.38	3.23
33°C	3.50	21.14	6.04	3.62	20.47	5.65	3.74	19.48	5.20	3.92	18.62	4.76	4.12	17.80	4.32	4.33	16.98	3.92	4.54	16.16	3.56	4.76	15.34	3.22
32°C	3.50	21.08	6.03	3.62	20.41	5.64	3.74	19.42	5.19	3.91	18.57	4.74	4.12	17.75	4.31	4.33	16.93	3.91	4.54	16.11	3.55	4.76	15.29	3.22
31°C	3.50	21.03	6.01	3.62	20.36	5.63	3.74	19.37	5.18	3.91	18.52	4.73	4.11	17.70	4.30	4.33	16.88	3.90	4.54	16.06	3.54	4.75	15.25	3.21
30°C	3.50	20.97	6.00	3.62	20.30	5.61	3.74	19.32	5.17	3.91	18.47	4.72	4.11	17.65	4.29	4.33	16.83	3.89	4.54	16.02	3.53	4.75	15.20	3.20
29°C	3.49	20.91	5.98	3.61	20.25	5.60	3.74	19.27	5.15	3.91	18.42	4.71	4.11	17.60	4.28	4.32	16.79	3.88	4.54	15.97	3.52	4.75	15.16	3.19
28°C	3.49	20.86	5.97	3.61	20.19	5.59	3.74	19.21	5.14	3.91	18.37	4.70	4.11	17.55	4.27	4.32	16.74	3.87	4.53	15.92	3.51	4.75	15.11	3.18
27°C	3.49	20.80	5.96	3.61	20.14	5.58	3.73	19.16	5.13	3.91	18.32	4.69	4.11	17.50	4.26	4.32	16.69	3.86	4.53	15.88	3.50	4.75	15.07	3.17
26°C	3.49	20.74	5.94	3.61	20.09	5.56	3.73	19.11	5.12	3.90	18.27	4.68	4.11	17.46	4.25	4.32	16.64	3.85	4.53	15.83	3.49	4.74	15.02	3.17
25°C	3.49	20.69	5.93	3.61	20.03	5.55	3.73	19.06	5.11	3.90	18.22	4.67	4.10	17.41	4.24	4.32	16.60	3.85	4.53	15.79	3.49	4.74	14.98	3.16
24°C	3.49	20.63	5.92	3.61	19.98	5.54	3.73	19.01	5.10	3.90	18.17	4.66	4.10	17.36	4.23	4.31	16.55	3.84	4.53	15.74	3.48	4.74	14.93	3.15
23°C	3.49	20.58	5.90	3.61	19.92	5.53	3.73	18.96	5.08	3.90	18.12	4.65	4.10	17.31	4.22	4.31	16.50	3.83	4.53	15.70	3.47	4.74	14.89	3.14
22°C	3.48	20.52	5.89	3.60	19.87	5.51	3.73	18.91	5.07	3.90	18.07	4.64	4.10	17.26	4.21	4.31	16.46	3.82	4.52	15.65	3.46	4.74	14.85	3.13
21°C	3.48	20.47	5.88	3.60	19.82	5.50	3.73	18.86	5.06	3.90	18.02	4.63	4.10	17.22	4.20	4.31	16.41	3.81	4.52	15.61	3.45	4.73	14.80	3.13
20°C	3.48	20.41	5.86	3.60	19.77	5.49	3.72	18.81	5.05	3.89	17.97	4.61	4.10	17.17	4.19	4.31	16.37	3.80	4.52	15.56	3.44	4.73	14.76	3.12
19°C	3.51	20.36	5.81	3.63	19.71	5.43	3.75	18.76	5.00	3.94	17.92	4.55	4.14	17.12	4.13	4.36	16.32	3.75	4.57	15.52	3.40	4.78	14.72	3.08
18°C	3.53	20.31	5.75	3.66	19.66	5.37	3.79	18.71	4.94	3.98	17.88	4.49	4.19	17.07	4.07	4.41	16.27	3.69	4.62	15.47	3.35	4.83	14.67	3.04
17°C	3.56	20.25	5.69	3.69	19.61	5.31	3.82	18.66	4.89	4.02	17.83	4.43	4.24	17.03	4.01	4.46	16.23	3.64	4.67	15.43	3.30	4.88	14.63	3.00
16°C	3.58	20.20	5.64	3.72	19.56	5.25	3.85	18.61	4.84	4.07	17.78	4.37	4.29	16.98	3.96	4.51	16.18	3.59	4.72	15.39	3.26	4.93	14.59	2.96
15°C	3.61	20.14	5.58	3.75	19.50	5.19	3.88	18.56	4.79	4.11	17.73	4.31	4.34	16.93	3.90	4.56	16.14	3.54	4.77	15.34	3.22	4.98	14.54	2.92
14°C	3.63	20.09	5.53	3.79	19.45	5.14	3.91	18.51	4.73	4.15	17.68	4.26	4.39	16.89	3.85	4.61	16.09	3.49	4.82	15.30	3.17	5.04	14.50	2.88
13°C	3.66	20.04	5.47	3.82	19.40	5.08	3.94	18.46	4.68	4.20	17.64	4.20	4.44	16.84	3.79	4.66	16.05	3.45	4.87	15.25	3.13	5.09	14.46	2.84
12°C	3.69	19.98	5.42	3.85	19.35	5.03	3.97	18.41	4.64	4.24	17.59	4.15	4.49	16.80	3.74	4.71	16.00	3.40	4.92	15.21	3.09	5.14	14.42	2.81
11°C	3.92	19.82	5.05	4.08	19.29	4.73	4.21	18.40	4.37	4.49	17.58	3.91	4.75	16.79	3.53	4.97	16.00	3.22	5.18	15.21	2.93	5.40	14.42	2.67
10°C	4.13	19.63	4.76	4.28	19.21	4.49	4.42	18.37	4.16	4.72	17.55	3.72	4.98	16.76	3.36	5.20	15.97	3.07	5.41	15.18	2.80	5.63	14.39	2.56
9°C	4.36	19.47	4.46	4.51	19.15	4.25	4.65	18.36	3.94	4.97	17.54	3.53	5.24	16.75	3.19	5.46	15.96	2.92	5.68	15.18	2.67	5.89	14.39	2.44
8°C	4.57	19.28	4.22	4.71	19.07	4.05	4.86	18.32	3.77	5.19	17.51	3.37	5.48	16.72	3.05	5.69	15.93	2.80	5.91	15.15	2.56	6.12	14.36	2.34
7°C	4.90	19.21	3.92	5.03	19.11	3.80	5.19	18.32	3.53	5.48	17.54	3.20	5.81	16.75	2.88	6.04	15.96	2.65	6.26	15.18	2.42	6.48	14.39	2.22
6°C	5.93	20.03	3.38	6.11	19.81	3.24	6.31	19.04	3.02	6.59	18.27	2.77	6.91	17.51	2.53	7.17	16.74	2.34	7.42	15.97	2.15	7.68	15.21	1.98
5°C	7.51	20.93	2.78	7.72	20.59	2.67	7.96	19.87	2.50	8.24	19.15	2.33	8.54	18.43	2.16	8.81	17.71	2.01	9.09	16.99	1.87	9.36	16.27	1.74
4°C	8.93	21.26	2.38	9.16	20.85	2.28	9.43	20.19	2.14	9.70	19.53	2.01	9.99	18.88	1.89	10.27	18.22	1.77	10.55	17.56	1.66	10.83	16.91	1.56
3°C	9.76	21.53	2.21	10.00	21.05	2.10	10.30	20.43	1.98	10.59	19.81	1.87	10.88	19.18	1.76	11.18	18.56	1.66	11.48	17.94	1.56	11.77	17.32	1.47
2°C	10.57	21.81	2.06	10.83	21.23	1.96	11.15	20.64	1.85	11.46	20.05	1.75	11.77	19.46	1.65	12.08	18.88	1.56	12.39	18.29	1.48	12.70	17.70	1.39
1°C	10.57	21.81	2.06	10.83	21.22	1.96	11.16	20.62	1.85	11.47	20.03	1.75	11.77	19.43	1.65	12.08	18.84	1.56	12.40	18.25	1.47	12.71	17.65	1.39
0°C	10.57	21.81	2.06	10.84	21.21	1.96	11.17	20.61	1.85	11.48	20.01	1.74	11.79	19.41	1.65	12.10	18.80	1.55	12.41	18.20	1.47	12.72	17.60	1.38
-1°C	10.58	21.81	2.06	10.85	21.20	1.95	11.18	20.60	1.84	11.50	19.99	1.74	11.81	19.38	1.64	12.13	18.77	1.55	12.44	18.16	1.46	12.74	17.55	1.38
-2°C	10.58	21.81	2.06	10.86	21.20	1.95	11.20	20.58	1.84	11.52	19.96	1.73	11.84	19.35	1.63	12.17	18.73	1.54	12.48	18.11	1.45	12.77	17.50	1.37
-3°C	10.59	21.81	2.06	10.88	21.19	1.95	11.22	20.57	1.83	11.56	19.94	1.73	11.88	19.32	1.63	12.22	18.70	1.53	12.52	18.07	1.44	12.81	17.45	1.36
-4°C	10.59	21.81	2.06	10.90	21.18	1.94	11.25	20.55	1.83	11.60	19.92	1.72	11.94	19.29	1.62	12.28	18.66	1.52	12.58	18.03	1.43	12.86	17.40	1.35
-5°C	10.60	21.81	2.06	10.93	21.18	1.94	11.29	20.54	1.82	11.65	19.90	1.71	12.00	19.26	1.61	12.35	18.62	1.51	12.65	17.98	1.42	12.92	17.35	1.34
-6°C	10.60	21.81	2.06	10.96	21.17	1.93	11.33	20.52	1.81	11.70	19.88	1.70	12.07	19.23	1.59	12.44	18.59	1.49	12.74	17.94	1.41	12.99	17.30	1.33
-7°C	10.61	21.81	2.06	11.00	21.16	1.92	11.38	20.51	1.80	11.76	19.86	1.69	12.15	19.20	1.58	12.53	18.55	1.48	12.83	17.90	1.40	13.06	17.24	1.32
-8°C	10.65	21.66	2.03	11.03	21.02	1.90	11.42	20.37	1.78	11.81	19.65	1.66	12.19	18.93	1.55	12.58	18.20	1.45	12.87	17.48	1.36	13.11	16.76	1.28
-9°C	10.68	21.50	2.01	11.07	20.87	1.89	11.46	20.24	1.77	11.85	19.45	1.64	12.24	18.65	1.52	12.62	17.86	1.41	12.92	17.06	1.32	13.16	16.27	1.24
-10°C	10.71	21.35	1.99	11.10	20.73	1.87	11.50	20.11	1.75	11.89	19.24	1.62	12.28	18.38	1.50	12.67	17.51	1.38	12.97	16.64	1.28	13.21	15.78	1.19
-11°C	10.74	20.90	1.95	11.13	20.35	1.83	11.52	19.78	1.72	11.92	18.96	1.59	12.31	18.14	1.47	12.70	17.30	1.36	13.00	16.47	1.27	13.24	15.63	1.18
-12°C	10.76	20.43	1.90	11.16	19.94	1.79	11.55	19.42	1.68	11.95	18.65	1.56	12.34	17.87	1.45	12.74	17.07	1.34	13.04	16.26	1.25	13.28	15.45	1.16
-13°C	10.78	19.94	1.85	11.18	19.51	1.74	11.58	19.04	1.64	11.98	18.32	1.53	12.37	17.57	1.42	12.77	16.81	1.32	13.07	16.03	1.23	13.31	15.24	1.15
-14°C	10.81	19.43	1.80	11.21	19.05	1.70	11.61	18.63	1.61	12.01	17.95	1.50	12.41	17.25	1.39	12.80	16.52	1.29	13.11	15.78	1.20	13.35	15.02	1.12
-15°C	10.83	18.91	1.75	11.23	18.58	1.65	11.64	18.20	1.56	12.04	17.57	1.46	12.44	16.90	1.36	12.84	16.21	1.26	13.14	15.50	1.18	13.39	14.77	1.10
-16°C	10.78	18.37	1.70	11.18	18.09	1.62	11.58	17.75	1.53	11.98	17.16	1.43	12.37	16.53	1.34	12.77	15.87	1.24	13.07	15.20	1.16	13.31	14.50	1.09
-17°C	10.74	17.81	1.66	11.13	17.57	1.58	11.52	17.27	1.50	11.92	16.73	1.40	12.31	16.14	1.31	12.70	15.52	1.22	13.00	14.87	1.14	13.24	14.21	1.07
-18°C	10.69	17.24	1.61	11.08	17.05	1.54	11.47	16.78	1.46	11.86	16.27	1.37	12.25	15.72	1.28	12.64	15.14	1.20	12.93	14.53	1.12	13.17	13.90	1.06
-19°C	10.64	16.66	1.57	11.03	16.50	1.50	11.41	16.27	1.43	11.80	15.80	1.34	12.18	15.29	1.25	12.57	14.74	1.17	12.86	14.17	1.10	13.10	13.57	1.04
-20°C	10.60	16.07	1.52	10.98	15.94	1.45	11.36	15.74	1.39	11.74	15.31	1.30	12.12	14.84	1.22	12.50	14.32	1.15	12.79	13.78	1.08	13.03	13.22	1.01
-21°C	10.55	15.47	1.47	10.93	15.37	1.41	11.31	15.19	1.34	11.68	14.80	1.27	12.06	14.36	1.19	12.44	13.89	1.12	12.73	13.38	1.05	6.00	6.00	1.00
-22°C	10.50	14.86	1.41	10.88	14.78	1.36	11.25	14.63	1.30	11.63	14.28	1.23	12.00	13.87	1.16	12.37	13.43	1.09	12.66	12.96	1.02	6.00	6.00	1.00
-23°C	10.46	14.24	1.36	10.83	14.18	1.31	11.20	14.05	1.25	11.57	13.73	1.19	11.94	13.37	1.12	12.31	12.96	1.05	6.00	6.00	1.00	6.00	6.00	1.00
-24°C	10.41	13.61	1.31	10.78	13.57	1.26	11.15	13.46	1.21	11.51	13.18	1.14	11.88	12.84	1.08	12.25	12.47	1.02	6.00	6.00	1.00	6.00	6.00	1.00
-25°C	10.37	12.97	1.25	10.73	12.95	1.21	11.10	12.86	1.16	11.46	12.60	1.10	11.82	12.31	1.04	12.18	11.97	0.98	6.00	6.00	1.00	6.00	6.00	1.00

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

▼ Alféa Excellia HP A.I. Tri 15 and alféa Excellia HP duo A.I. Tri 15

Test conditions comply with EN 14825 with 9 kW electrical backup

Outdoor temperature	Starting temperature 25°C			30°C			35°C			40°C			45°C			50°C			55°C			60°C		
	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP
35°C	3.24	19.87	6.14	3.35	19.28	5.76	3.46	18.28	5.28	3.62	17.40	4.81	3.81	16.56	4.35	4.00	15.71	3.93	4.20	14.87	3.54	4.40	14.03	3.19
34°C	3.23	19.82	6.13	3.34	19.23	5.75	3.46	18.23	5.27	3.62	17.36	4.80	3.80	16.51	4.34	4.00	15.67	3.92	4.20	14.83	3.53	4.40	13.99	3.18
33°C	3.23	19.77	6.12	3.34	19.18	5.74	3.46	18.19	5.26	3.62	17.31	4.79	3.80	16.47	4.33	4.00	15.63	3.91	4.20	14.79	3.53	4.39	13.95	3.18
32°C	3.23	19.72	6.11	3.34	19.13	5.73	3.45	18.14	5.25	3.61	17.27	4.78	3.80	16.43	4.32	4.00	15.59	3.90	4.19	14.75	3.52	4.39	13.91	3.17
31°C	3.23	19.68	6.09	3.34	19.09	5.72	3.45	18.09	5.24	3.61	17.23	4.77	3.80	16.39	4.32	3.99	15.55	3.89	4.19	14.71	3.51	4.39	13.87	3.16
30°C	3.23	19.63	6.08	3.34	19.04	5.71	3.45	18.05	5.23	3.61	17.18	4.76	3.79	16.34	4.31	3.99	15.51	3.89	4.19	14.67	3.50	4.38	13.83	3.15
29°C	3.22	19.58	6.07	3.33	18.99	5.69	3.45	18.00	5.22	3.61	17.14	4.75	3.79	16.30	4.30	3.99	15.47	3.88	4.19	14.63	3.50	4.38	13.79	3.15
28°C	3.22	19.53	6.06	3.33	18.94	5.68	3.45	17.96	5.21	3.60	17.09	4.74	3.79	16.26	4.29	3.99	15.42	3.87	4.18	14.59	3.49	4.38	13.76	3.14
27°C	3.22	19.48	6.05	3.33	18.90	5.67	3.44	17.91	5.20	3.60	17.05	4.73	3.79	16.22	4.28	3.98	15.38	3.86	4.18	14.55	3.48	4.38	13.72	3.13
26°C	3.22	19.43	6.04	3.33	18.85	5.66	3.44	17.87	5.19	3.60	17.01	4.72	3.79	16.18	4.27	3.98	15.34	3.85	4.18	14.51	3.47	4.37	13.68	3.13
25°C	3.22	19.38	6.03	3.33	18.80	5.65	3.44	17.83	5.18	3.60	16.97	4.71	3.78	16.13	4.26	3.98	15.30	3.85	4.18	14.47	3.47	4.37	13.64	3.12
24°C	3.21	19.34	6.01	3.33	18.76	5.64	3.44	17.78	5.17	3.60	16.92	4.71	3.78	16.09	4.26	3.98	15.26	3.84	4.17	14.43	3.46	4.37	13.60	3.11
23°C	3.21	19.29	6.00	3.32	18.71	5.63	3.44	17.74	5.16	3.59	16.88	4.70	3.78	16.05	4.25	3.97	15.22	3.83	4.17	14.39	3.45	4.37	13.57	3.11
22°C	3.21	19.24	5.99	3.32	18.66	5.62	3.43	17.69	5.15	3.59	16.84	4.69	3.78	16.01	4.24	3.97	15.18	3.82	4.17	14.36	3.44	4.36	13.53	3.10
21°C	3.21	19.19	5.98	3.32	18.62	5.61	3.43	17.65	5.14	3.59	16.79	4.68	3.77	15.97	4.23	3.97	15.14	3.81	4.17	14.32	3.44	4.36	13.49	3.09
20°C	3.21	19.14	5.97	3.32	18.57	5.60	3.43	17.61	5.13	3.59	16.75	4.67	3.77	15.93	4.22	3.97	15.10	3.81	4.16	14.28	3.43	4.36	13.45	3.09
19°C	3.23	19.10	5.91	3.34	18.53	5.54	3.46	17.56	5.08	3.63	16.71	4.61	3.82	15.89	4.16	4.01	15.06	3.75	4.21	14.24	3.38	4.40	13.42	3.05
18°C	3.25	19.05	5.86	3.37	18.48	5.48	3.49	17.52	5.03	3.67	16.67	4.55	3.86	15.85	4.10	4.06	15.02	3.70	4.25	14.20	3.34	4.45	13.38	3.01
17°C	3.28	19.00	5.80	3.40	18.43	5.42	3.51	17.48	4.97	3.70	16.63	4.49	3.91	15.81	4.05	4.10	14.98	3.65	4.30	14.16	3.29	4.50	13.34	2.97
16°C	3.30	18.96	5.75	3.43	18.39	5.36	3.54	17.43	4.92	3.74	16.59	4.43	3.95	15.77	3.99	4.15	14.95	3.60	4.34	14.13	3.25	4.54	13.31	2.93
15°C	3.32	18.91	5.69	3.46	18.34	5.31	3.57	17.39	4.87	3.78	16.54	4.37	4.00	15.72	3.93	4.19	14.91	3.55	4.39	14.09	3.21	4.59	13.27	2.89
14°C	3.34	18.86	5.64	3.48	18.30	5.25	3.60	17.35	4.82	3.82	16.50	4.32	4.04	15.68	3.88	4.24	14.87	3.51	4.44	14.05	3.17	4.63	13.23	2.86
13°C	3.37	18.82	5.59	3.51	18.25	5.20	3.63	17.30	4.77	3.86	16.46	4.26	4.09	15.64	3.83	4.28	14.83	3.46	4.48	14.01	3.13	4.68	13.20	2.82
12°C	3.39	18.77	5.54	3.54	18.21	5.15	3.65	17.26	4.72	3.90	16.42	4.21	4.13	15.60	3.78	4.33	14.79	3.42	4.53	13.97	3.09	4.73	13.16	2.78
11°C	3.73	18.74	5.03	3.87	18.27	4.72	3.99	17.36	4.35	4.26	16.52	3.88	4.49	15.71	3.50	4.69	14.89	3.17	4.89	14.08	2.88	5.09	13.27	2.61
10°C	4.02	18.67	4.64	4.16	18.28	4.39	4.29	17.42	4.06	4.56	16.58	3.63	4.81	15.77	3.28	5.01	14.95	2.99	5.21	14.14	2.72	5.40	13.33	2.47
9°C	4.36	18.64	4.28	4.49	18.34	4.08	4.63	17.52	3.79	4.92	16.68	3.39	5.17	15.87	3.07	5.37	15.06	2.81	5.57	14.25	2.56	5.77	13.44	2.33
8°C	4.65	18.57	3.99	4.78	18.35	3.84	4.92	17.58	3.57	5.23	16.74	3.20	5.49	15.93	2.90	5.68	15.12	2.66	5.88	14.31	2.43	6.08	13.50	2.22
7°C	5.13	18.69	3.64	5.25	18.55	3.53	5.40	17.74	3.29	5.66	16.93	2.99	5.97	16.12	2.70	6.17	15.31	2.48	6.38	14.50	2.27	6.59	13.69	2.08
6°C	6.45	19.93	3.09	6.61	19.60	2.97	6.81	18.75	2.75	7.10	17.90	2.52	7.41	17.05	2.30	7.64	16.20	2.12	7.87	15.35	1.95	8.11	14.51	1.79
5°C	8.67	21.53	2.48	8.86	21.05	2.38	9.10	20.20	2.22	9.39	19.35	2.06	9.68	18.49	1.91	9.93	17.64	1.78	10.18	16.79	1.65	10.43	15.94	1.53
4°C	10.84	22.98	2.12	11.04	22.37	2.03	11.30	21.53	1.91	11.58	20.69	1.79	11.85	19.85	1.68	12.10	19.01	1.57	12.36	18.17	1.47	12.62	17.33	1.37
3°C	12.03	23.90	1.99	12.25	23.18	1.89	12.53	22.33	1.78	12.80	21.48	1.68	13.07	20.63	1.58	13.33	19.77	1.48	13.60	18.92	1.39	13.87	18.07	1.30
2°C	13.12	24.73	1.89	13.35	23.85	1.79	13.64	22.98	1.68	13.92	22.10	1.59	14.19	21.22	1.50	14.47	20.34	1.41	14.75	19.47	1.32	15.03	18.59	1.24
1°C	13.12	24.62	1.88	13.35	23.80	1.78	13.64	22.99	1.69	13.92	22.17	1.59	14.19	21.36	1.50	14.48	20.55	1.42	14.76	19.73	1.34	15.03	18.92	1.26
0°C	13.12	24.50	1.87	13.35	23.75	1.78	13.65	23.00	1.69	13.93	22.25	1.60	14.21	21.50	1.51	14.49	20.75	1.43	14.77	20.00	1.35	15.05	19.24	1.28
-1°C	13.12	24.39	1.86	13.36	23.70	1.77	13.66	23.01	1.68	13.95	22.32	1.60	14.23	21.64	1.52	14.52	20.95	1.44	14.79	20.26	1.37	15.07	19.57	1.30
-2°C	13.12	24.28	1.85	13.38	23.65	1.77	13.68	23.03	1.68	13.97	22.40	1.60	14.26	21.77	1.53	14.55	21.15	1.45	14.83	20.52	1.38	15.10	19.90	1.32
-3°C	13.13	24.16	1.84	13.39	23.60	1.76	13.70	23.04	1.68	14.00	22.48	1.61	14.30	21.91	1.53	14.60	21.35	1.46	14.87	20.79	1.40	15.13	20.23	1.34
-4°C	13.13	24.05	1.83	13.41	23.55	1.76	13.73	23.05	1.68	14.04	22.55	1.61	14.34	22.05	1.54	14.65	21.55	1.47	14.93	21.05	1.41	15.18	20.55	1.35
-5°C	13.14	23.93	1.82	13.44	23.50	1.75	13.76	23.06	1.68	14.08	22.63	1.61	14.40	22.19	1.54	14.72	21.75	1.48	14.99	21.32	1.42	15.23	20.88	1.37
-6°C	13.14	23.82	1.81	13.47	23.45	1.74	13.80	23.07	1.67	14.13	22.70	1.61	14.46	22.33	1.54	14.79	21.95	1.48	15.06	21.58	1.43	15.29	21.21	1.39
-7°C	13.15	23.71	1.80	13.50	23.40	1.73	13.84	23.09	1.67	14.19	22.78	1.61	14.53	22.47	1.55	14.88	22.16	1.49	15.14	21.85	1.44	15.36	21.54	1.40
-8°C	13.18	23.53	1.79	13.53	23.17	1.71	13.88	22.81	1.64	14.22	22.50	1.58	14.57	22.20	1.52	14.92	21.89	1.47	15.19	21.58	1.42	15.40	21.28	1.38
-9°C	13.21	23.36	1.77	13.56	22.95	1.69	13.91	22.53	1.62	14.26	22.23	1.56	14.61	21.93	1.50	14.96	21.62	1.45	15.23	21.32	1.40	15.44	21.01	1.36
-10°C	13.24	23.18	1.75	13.59	22.72	1.67	13.95	22.26	1.60	14.30	21.96	1.54	14.65	21.66	1.48	15.00	21.36	1.42	15.27	21.05	1.38	15.48	20.75	1.34
-11°C	13.26	22.77	1.72	13.62	22.36	1.64	13.97	21.95	1.57	14.33	21.68	1.51	14.68	21.41	1.46	15.03	21.13	1.41	15.30	20.85	1.36	15.52	20.57	1.33
-12°C	13.28	22.33	1.68	13.64	21.98	1.61	14.00	21.61	1.54	14.35	21.38	1.49	14.71	21.14	1.44	15.06	20.88	1.39	15.33	20.62	1.34	15.55	20.36	1.31
-13°C	13.31	21.88	1.64	13.66	21.58	1.58	14.02	21.25	1.52	14.38	21.05	1.46	14.74	20.83	1.41	15.09	20.60	1.36	15.37	20.36	1.33	15.58	20.11	1.29
-14°C	13.33	21.41	1.61	13.69	21.16	1.55	14.05	20.87	1.49	14.41	20.70	1.44	14.76	20.50	1.39	15.12	20.29	1.34	15.40	20.07	1.30	15.62	19.84	1.27
-15°C	13.35	20.93	1.57	13.71	20.72	1.51	14.07	20.47	1.45	14.43	20.32	1.41	14.79	20.15	1.36	15.15	19.96	1.32	15.43	19.76	1.28	15.65	19.54	1.25
-16°C	13.31	20.43	1.54	13.66	20.26	1.48	14.02	20.04	1.43	14.38	19.92	1.39	14.74	19.77	1.34	15.09	19.60	1.30	15.37	19.42	1.26	15.58	19.22	1.23
-17°C	13.26	19.91	1.50	13.62	19.78	1.45	13.97	19.59	1.40	14.32	19.50	1.36	14.68	19.37	1.32	15.03	19.22	1.28	15.30	19.05	1.24	15.52	18.87	1.22
-18°C	13.22	19.39	1.47	13.57	19.29	1.42	13.92	19.13	1.37	14.27	19.05	1.34	14.62	18.94	1.30	14.97	18.81	1.26	15.24	18.66	1.22	15.45	18.49	1.20
-19°C	13.18	18.85	1.43	13.52	18.78	1.39	13.87	18.65	1.34	14.22	18.59	1.31	14.57	18.50	1.27	14.91	18.38	1.23	15.18	18.25	1.20	15.39	18.10	1.18
-20°C	13.14	18.31	1.39	13.48	18.26	1.35	13.82	18.15	1.31	14.17	18.11	1.28	14.51	18.04	1.24	14.85	17.94	1.21	15.12	17.81	1.18	15.32	17.68	1.15
-21°C	13.09	17.75	1.36	13.43	17.73	1.32	13.77	17.64	1.28	14.11	17.61	1.25	14.45	17.55	1.21	14.79	17.47	1.18	15.05	17.36	1.15	9.00	9.00	1.00
-22°C	13.05	17.19	1.32	13.39	17.18	1.28	13.73	17.11	1.25	14.06	17.10	1.22	14.40	17.05	1.18	14.74	16.98	1.15	14.99	16.89	1.13	9.00	9.00	1.00
-23°C	13.01	16.61	1.28	13.35	16.62	1.25	13.68	16.57	1.21	14.01	16.57	1.18	14.35	16.53	1.15	14.68	16.47	1.12	9.00	9.00	1.00	9.00	9.00	1.00
-24°C	12.97	16.03	1.24	13.30	16.05	1.21	13.63	16.01	1.17	13.96	16.02	1.15	14.29	16.00	1.12	14.62	15.95	1.09	9.00	9.00	1.00	9.00	9.00	1.00
-25°C	12.93	15.44	1.19	13.26	15.47	1.17	13.59	15.45	1.14	13.91	15.46	1.11	14.24	15.45	1.08	14.57	15.41	1.06	9.00	9.00	1.00	9.00	9.00	1.00

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

▼ Alféa Excellia HP A.I. Tri 17 and alféa Excellia HP A.I. Tri 17

Test conditions comply with EN 14825 with 9 kW electrical backup

Outdoor temperature	Starting temperature 25°C			30°C			35°C			40°C			45°C			50°C			55°C			60°C		
	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP	IP	HC	COP
35°C	3.73	22.19	5.95	3.74	21.47	5.73	3.88	20.55	5.30	4.06	19.75	4.86	4.28	18.99	4.44	4.51	18.23	4.04	4.75	17.46	3.68	4.98	16.70	3.35
34°C	3.73	22.13	5.93	3.74	21.41	5.72	3.87	20.49	5.29	4.06	19.70	4.85	4.28	18.94	4.43	4.51	18.18	4.03	4.75	17.42	3.67	4.98	16.66	3.35
33°C	3.73	22.07	5.92	3.74	21.36	5.71	3.87	20.44	5.28	4.06	19.65	4.84	4.28	18.89	4.42	4.51	18.13	4.02	4.74	17.37	3.66	4.98	16.61	3.34
32°C	3.73	22.02	5.91	3.74	21.30	5.70	3.87	20.39	5.27	4.06	19.60	4.83	4.27	18.84	4.41	4.51	18.08	4.01	4.74	17.32	3.65	4.97	16.56	3.33
31°C	3.72	21.96	5.90	3.74	21.25	5.69	3.87	20.34	5.26	4.05	19.55	4.82	4.27	18.79	4.40	4.50	18.03	4.00	4.74	17.27	3.65	4.97	16.52	3.32
30°C	3.72	21.90	5.89	3.73	21.19	5.67	3.87	20.28	5.25	4.05	19.50	4.81	4.27	18.74	4.39	4.50	17.98	3.99	4.74	17.23	3.64	4.97	16.47	3.32
29°C	3.72	21.85	5.87	3.73	21.14	5.66	3.86	20.23	5.24	4.05	19.45	4.80	4.27	18.69	4.38	4.50	17.93	3.99	4.73	17.18	3.63	4.96	16.42	3.31
28°C	3.72	21.79	5.86	3.73	21.08	5.65	3.86	20.18	5.23	4.05	19.40	4.79	4.27	18.64	4.37	4.50	17.89	3.98	4.73	17.13	3.62	4.96	16.38	3.30
27°C	3.72	21.74	5.85	3.73	21.03	5.64	3.86	20.13	5.21	4.04	19.34	4.78	4.26	18.59	4.36	4.50	17.84	3.97	4.73	17.09	3.61	4.96	16.33	3.29
26°C	3.71	21.68	5.84	3.73	20.97	5.63	3.86	20.08	5.20	4.04	19.29	4.77	4.26	18.54	4.35	4.49	17.79	3.96	4.73	17.04	3.61	4.96	16.29	3.29
25°C	3.71	21.62	5.83	3.73	20.92	5.62	3.86	20.02	5.19	4.04	19.24	4.76	4.26	18.49	4.34	4.49	17.74	3.95	4.72	16.99	3.60	4.95	16.24	3.28
24°C	3.71	21.57	5.81	3.72	20.87	5.60	3.85	19.97	5.18	4.04	19.19	4.75	4.26	18.45	4.33	4.49	17.70	3.94	4.72	16.95	3.59	4.95	16.20	3.27
23°C	3.71	21.51	5.80	3.72	20.81	5.59	3.85	19.92	5.17	4.04	19.15	4.74	4.25	18.40	4.32	4.49	17.65	3.93	4.72	16.90	3.58	4.95	16.15	3.26
22°C	3.71	21.46	5.79	3.72	20.76	5.58	3.85	19.87	5.16	4.03	19.10	4.73	4.25	18.35	4.31	4.48	17.60	3.93	4.72	16.85	3.57	4.95	16.11	3.26
21°C	3.70	21.40	5.78	3.72	20.71	5.57	3.85	19.82	5.15	4.03	19.05	4.72	4.25	18.30	4.31	4.48	17.55	3.92	4.71	16.81	3.57	4.94	16.06	3.25
20°C	3.70	21.35	5.77	3.72	20.65	5.56	3.85	19.77	5.14	4.03	19.00	4.71	4.25	18.25	4.30	4.48	17.51	3.91	4.71	16.76	3.56	4.94	16.02	3.24
19°C	3.73	21.30	5.71	3.75	20.60	5.50	3.88	19.72	5.09	4.08	18.95	4.65	4.30	18.20	4.23	4.53	17.46	3.85	4.76	16.72	3.51	5.00	15.97	3.20
18°C	3.76	21.24	5.65	3.78	20.55	5.44	3.91	19.67	5.03	4.12	18.90	4.59	4.35	18.16	4.17	4.59	17.41	3.80	4.82	16.67	3.46	5.05	15.93	3.15
17°C	3.79	21.19	5.59	3.81	20.50	5.38	3.94	19.62	4.98	4.17	18.85	4.52	4.41	18.11	4.11	4.64	17.37	3.74	4.87	16.63	3.41	5.10	15.88	3.11
16°C	3.82	21.13	5.53	3.84	20.44	5.32	3.97	19.57	4.92	4.21	18.80	4.46	4.46	18.06	4.05	4.69	17.32	3.69	4.93	16.58	3.37	5.16	15.84	3.07
15°C	3.85	21.08	5.48	3.87	20.39	5.26	4.01	19.52	4.87	4.26	18.75	4.40	4.51	18.01	3.99	4.75	17.28	3.64	4.98	16.54	3.32	5.21	15.80	3.03
14°C	3.88	21.03	5.42	3.91	20.34	5.21	4.04	19.47	4.82	4.31	18.71	4.34	4.57	17.97	3.93	4.80	17.23	3.59	5.03	16.49	3.28	5.27	15.75	2.99
13°C	3.91	20.97	5.37	3.94	20.29	5.15	4.07	19.42	4.77	4.35	18.66	4.29	4.62	17.92	3.88	4.85	17.18	3.54	5.09	16.45	3.23	5.32	15.71	2.95
12°C	3.94	20.92	5.32	3.97	20.24	5.10	4.10	19.37	4.72	4.40	18.61	4.23	4.67	17.87	3.82	4.91	17.14	3.49	5.14	16.40	3.19	5.38	15.67	2.91
11°C	4.28	20.86	4.87	4.33	20.31	4.69	4.46	19.48	4.37	4.76	18.72	3.93	5.04	17.99	3.57	5.28	17.25	3.27	5.51	16.52	3.00	5.75	15.78	2.75
10°C	4.58	20.76	4.53	4.64	20.33	4.38	4.76	19.55	4.11	5.08	18.79	3.70	5.37	18.06	3.36	5.60	17.33	3.09	5.84	16.59	2.84	6.07	15.86	2.61
9°C	4.93	20.71	4.20	5.00	20.40	4.08	5.11	19.67	3.85	5.44	18.91	3.47	5.74	18.18	3.17	5.97	17.44	2.92	6.21	16.71	2.69	6.44	15.98	2.48
8°C	5.22	20.61	3.94	5.32	20.43	3.84	5.42	19.74	3.64	5.76	18.98	3.29	6.06	18.25	3.01	6.30	17.52	2.78	6.53	16.78	2.57	6.77	16.05	2.37
7°C	5.70	20.69	3.63	5.81	20.64	3.55	5.91	19.91	3.37	6.19	19.18	3.10	6.56	18.45	2.81	6.80	17.72	2.61	7.04	16.99	2.41	7.26	16.26	2.24
6°C	7.00	21.77	3.11	7.16	21.47	3.00	7.35	20.65	2.81	7.68	19.83	2.58	8.05	19.01	2.36	8.31	18.20	2.19	8.57	17.38	2.03	8.77	16.56	1.89
5°C	9.23	23.43	2.54	9.43	22.92	2.43	9.68	22.04	2.28	10.02	21.16	2.11	10.38	20.29	1.96	10.64	19.41	1.82	10.91	18.53	1.70	11.10	17.66	1.59
4°C	11.45	25.09	2.19	11.67	24.40	2.09	11.94	23.48	1.97	12.25	22.56	1.84	12.57	21.64	1.72	12.84	20.72	1.61	13.11	19.80	1.51	13.28	18.88	1.42
3°C	12.72	26.31	2.07	12.97	25.46	1.96	13.24	24.48	1.85	13.54	23.49	1.74	13.84	22.51	1.63	14.12	21.52	1.52	14.40	20.54	1.43	14.56	19.55	1.34
2°C	13.87	27.40	1.97	14.14	26.32	1.86	14.42	25.25	1.75	14.71	24.18	1.64	15.02	23.10	1.54	15.31	22.03	1.44	15.61	20.96	1.34	15.77	19.89	1.26
1°C	13.87	27.26	1.97	14.14	26.26	1.86	14.42	25.26	1.75	14.72	24.26	1.65	15.03	23.26	1.55	15.32	22.26	1.45	15.61	21.26	1.36	15.78	20.26	1.28
0°C	13.87	27.13	1.96	14.15	26.20	1.85	14.43	25.27	1.75	14.73	24.34	1.65	15.04	23.42	1.56	15.34	22.49	1.47	15.62	21.56	1.38	15.78	20.63	1.31
-1°C	13.88	27.00	1.95	14.16	26.14	1.85	14.45	25.29	1.75	14.75	24.43	1.66	15.07	23.57	1.56	15.37	22.71	1.48	15.65	21.85	1.40	15.80	21.00	1.33
-2°C	13.88	26.87	1.94	14.17	26.09	1.84	14.47	25.30	1.75	14.78	24.51	1.66	15.10	23.73	1.57	15.41	22.94	1.49	15.68	22.15	1.41	15.82	21.37	1.35
-3°C	13.89	26.74	1.93	14.19	26.03	1.83	14.50	25.31	1.75	14.82	24.60	1.66	15.14	23.88	1.58	15.46	23.17	1.50	15.72	22.45	1.43	15.84	21.73	1.37
-4°C	13.90	26.61	1.91	14.21	25.97	1.83	14.53	25.32	1.74	14.86	24.68	1.66	15.20	24.04	1.58	15.52	23.39	1.51	15.76	22.75	1.44	15.87	22.10	1.39
-5°C	13.91	26.48	1.90	14.24	25.91	1.82	14.57	25.34	1.74	14.91	24.76	1.66	15.26	24.19	1.59	15.60	23.62	1.51	15.82	23.05	1.46	15.91	22.47	1.41
-6°C	13.92	26.35	1.89	14.27	25.85	1.81	14.62	25.35	1.73	14.98	24.85	1.66	15.33	24.35	1.59	15.69	23.85	1.52	15.88	23.34	1.47	15.95	22.84	1.43
-7°C	13.94	26.22	1.88	14.31	25.79	1.80	14.68	25.36	1.73	15.05	24.93	1.66	15.42	24.50	1.59	15.79	24.07	1.52	15.96	23.64	1.48	15.99	23.21	1.45
-8°C	13.88	25.92	1.87	14.26	25.39	1.78	14.65	24.86	1.70	15.03	24.45	1.63	15.41	24.03	1.56	15.79	23.62	1.50	15.96	23.20	1.45	16.00	22.79	1.42
-9°C	13.83	25.63	1.85	14.22	25.00	1.76	14.62	24.37	1.67	15.01	23.97	1.60	15.40	23.56	1.53	15.79	23.16	1.47	15.97	22.76	1.43	16.01	22.36	1.40
-10°C	13.78	25.33	1.84	14.18	24.60	1.73	14.59	23.87	1.64	14.99	23.48	1.57	15.39	23.10	1.50	15.79	22.71	1.44	15.98	22.32	1.40	16.02	21.94	1.37
-11°C	13.80	24.85	1.80	14.21	24.20	1.70	14.61	23.52	1.61	15.02	23.18	1.54	15.42	22.82	1.48	15.83	22.46	1.42	16.01	22.10	1.38	16.05	21.73	1.35
-12°C	13.83	24.35	1.76	14.23	23.76	1.67	14.64	23.15	1.58	15.05	22.84	1.52	15.46	22.52	1.46	15.86	22.18	1.40	16.05	21.84	1.36	16.09	21.50	1.34
-13°C	13.85	23.83	1.72	14.26	23.31	1.63	14.67	22.74	1.55	15.08	22.47	1.49	15.49	22.18	1.43	15.90	21.87	1.38	16.08	21.56	1.34	16.12	21.23	1.32
-14°C	13.88	23.29	1.68	14.29	22.83	1.60	14.70	22.31	1.52	15.11	22.07	1.46	15.52	21.81	1.41	15.93	21.53	1.35	16.12	21.24	1.32	16.16	20.93	1.30
-15°C	13.90	22.73	1.64	14.31	22.33	1.56	14.73	21.86	1.48	15.14	21.65	1.43	15.55	21.42	1.38	15.97	21.16	1.33	16.15	20.89	1.29	16.19	20.60	1.27
-16°C	13.85	22.16	1.60	14.26	21.80	1.53	14.67	21.38	1.46	15.08	21.20	1.41	15.49	20.99	1.36	15.90	20.76	1.31	16.08	20.51	1.28	16.12	20.24	1.26
-17°C	13.80	21.57	1.56	14.21	21.26	1.50	14.61	20.88	1.43	15.02	20.73	1.38	15.42	20.55	1.33	15.83	20.34	1.28	16.01	20.11	1.26	16.05	19.86	1.24
-18°C	13.75	20.96	1.52	14.16	20.70	1.46	14.56	20.36	1.40	14.96	20.24	1.35	15.36	20.08	1.31	15.76	19.89	1.26	15.94	19.68	1.23	15.98	19.45	1.22
-19°C	13.71	20.35	1.48	14.10	20.12	1.43	14.50	19.82	1.37	14.90	19.72	1.32	15.29	19.58	1.28	15.69	19.41	1.24	15.87	19.22	1.21	15.91	19.01	1.19
-20°C	13.66	19.72	1.44	14.05	19.53	1.39	14.45	19.26	1.33	14.84	19.18	1.29	15.23	19.06	1.25	15.62	18.91	1.21	15.80	18.74	1.19	15.84	18.55	1.17
-21°C	13.61	19.08	1.40	14.00	18.92	1.35	14.39	18.69	1.30	14.78	18.63	1.26	15.17	18.53	1.22	15.56	18.39	1.18	15.74	18.24	1.16	9.00	9.00	1.00
-22°C	13.57	18.43	1.36	13.95	18.30	1.31	14.34	18.10	1.26	14.72	18.05	1.23	15.11	17.97	1.19	15.49	17.85	1.15	15.67	17.72	1.13	9.00	9.00	1.00
-23°C	13.52	17.76	1.31	13.90	17.66	1.27	14.28	17.49	1.22	14.67	17.46	1.19	15.05	17.39	1.16	15.43	17.29	1.12	9.00	9.00	1.00	9.00	9.00	1.00
-24°C	13.48	17.09	1.27	13.85	17.02	1.23	14.23	16.87	1.19	14.61	16.85	1.15	14.99	16.79	1.12	15.36	16.71	1.09	9.00	9.00	1.00	9.00	9.00	1.00
-25°C	13.43	16.41	1.22	13.81	16.36	1.18	14.18	16.23	1.14	14.55	16.22	1.11	14.93	16.18	1.08	15.30	16.11	1.05	9.00	9.00	1.00	9.00	9.00	1.00

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

▶ Nominal performances tables in cooling mode

▼ Alféa Excellia HP A.I. 16 and alféa Excellia HP Duo A.I. 16

		Starting temperature																	
		7°C			10°C			13°C			15°C			18°C			22C		
		CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER
Outdoor temperature	20°C	9.96	3.49	2.85	11.95	3.84	3.11	13.82	4.12	3.35	15.00	4.26	3.52	16.67	4.41	3.78	18.70	4.48	4.17
	25°C	9.89	3.95	2.50	11.84	4.23	2.80	13.65	4.45	3.07	14.78	4.56	3.24	16.36	4.68	3.50	18.26	4.75	3.84
	30°C	9.20	4.15	2.22	11.08	4.51	2.46	12.82	4.79	2.68	13.90	4.93	2.82	15.18	4.92	3.09	17.21	5.13	3.35
	35°C	8.50	4.34	1.96	10.31	4.78	2.16	11.98	5.12	2.34	13.02	5.29	2.46	14.00	5.15	2.72	16.16	5.50	2.94
	40°C	8.05	4.70	1.71	9.16	4.72	1.94	10.27	4.74	2.17	11.00	4.75	2.32	12.11	4.77	2.54	13.59	4.80	2.83
	46°C	7.00	4.70	1.49	7.92	4.73	1.67	8.84	4.74	1.86	9.45	4.75	1.99	10.38	4.75	2.19	11.62	4.74	2.45

▼ Alféa Excellia HP A.I. Tri 15 and alféa Excellia HP DuoA.I. Tri 15

		Starting temperature																	
		7°C			10°C			13°C			15°C			18°C			22C		
		CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER
Outdoor temperature	20°C	9.61	3.30	2.91	11.61	3.54	3.28	13.50	3.72	3.63	14.68	3.82	3.84	16.37	3.90	4.20	18.41	3.94	4.67
	25°C	9.51	3.71	2.56	11.34	3.87	2.93	13.09	4.00	3.27	14.21	4.07	3.49	15.84	4.13	3.84	17.89	4.18	4.28
	30°C	9.01	3.91	2.30	10.69	4.12	2.59	12.31	4.30	2.86	13.37	4.39	3.05	14.93	4.40	3.39	16.87	4.56	3.70
	35°C	8.50	4.11	2.07	10.03	4.37	2.30	11.53	4.59	2.51	12.52	4.71	2.66	14.00	4.66	3.00	15.83	4.94	3.20
	40°C	7.96	4.57	1.74	9.15	4.62	1.98	10.34	4.66	2.22	11.15	4.70	2.37	12.38	4.74	2.61	14.02	4.80	2.92
	46°C	7.10	4.84	1.47	8.13	4.86	1.67	9.13	4.84	1.89	9.78	4.81	2.03	10.73	4.74	2.26	11.94	4.60	2.60

▼ Alféa Excellia HP A.I. Tri 17 and alféa Excellia HP Duo A.I. Tri 17

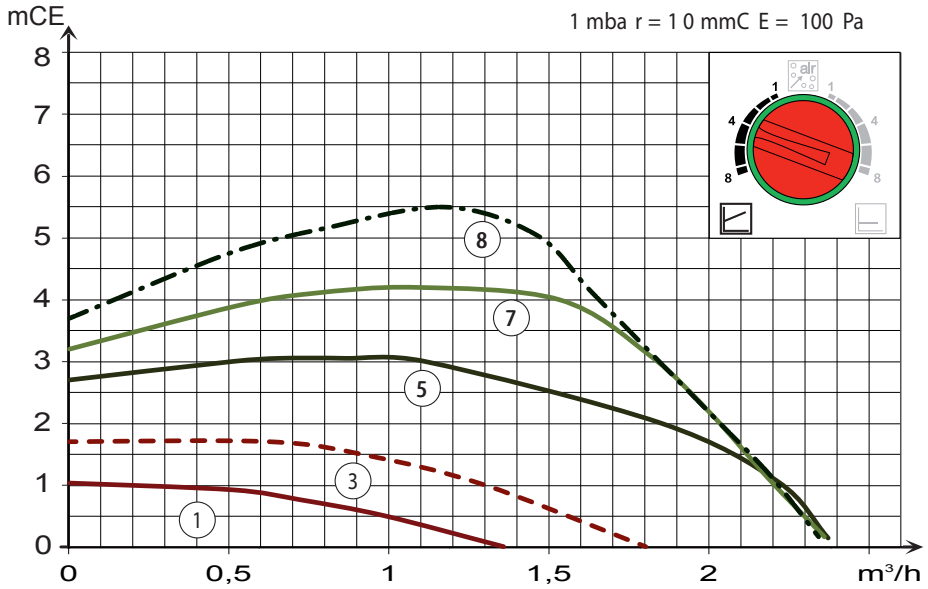
		Starting temperature																	
		7°C			10°C			13°C			15°C			18°C			22C		
		CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER
Outdoor temperature	20°C	10.17	3.52	2.89	12.22	3.80	3.22	14.12	4.01	3.52	15.30	4.12	3.71	16.95	4.23	4.01	18.92	4.29	4.41
	25°C	10.07	3.96	2.54	11.93	4.15	2.87	13.69	4.31	3.18	14.81	4.39	3.37	16.41	4.48	3.66	18.38	4.55	4.04
	30°C	9.54	4.18	2.28	11.25	4.42	2.55	12.88	4.63	2.78	13.93	4.74	2.94	15.46	4.77	3.24	17.33	4.97	3.49
	35°C	9.00	4.39	2.05	10.56	4.69	2.25	12.06	4.94	2.44	13.04	5.08	2.57	14.50	5.05	2.87	16.27	5.38	3.02
	40°C	8.43	4.88	1.73	9.63	4.95	1.95	10.82	5.02	2.16	11.62	5.07	2.29	12.82	5.14	2.49	14.41	5.23	2.76
	46°C	7.52	5.17	1.45	8.56	5.21	1.64	9.55	5.21	1.83	10.19	5.19	1.96	11.11	5.14	2.16	12.27	5.01	2.45

CC : Cooling capacity (kW)
IP : Input power (kW)
EER : Energy Efficiency Ratio

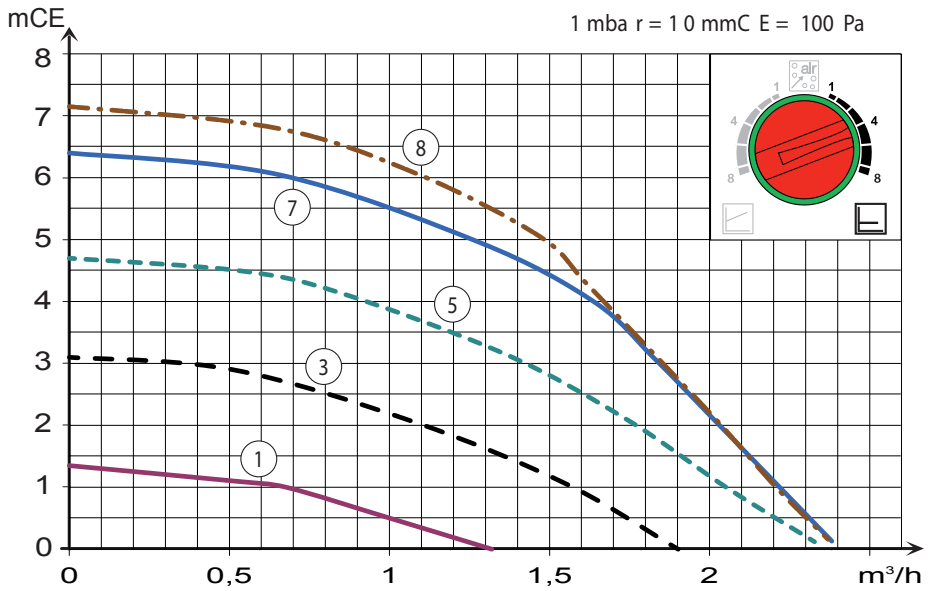
Hydraulic circuit

▶ Availables pressure

Variable pressure



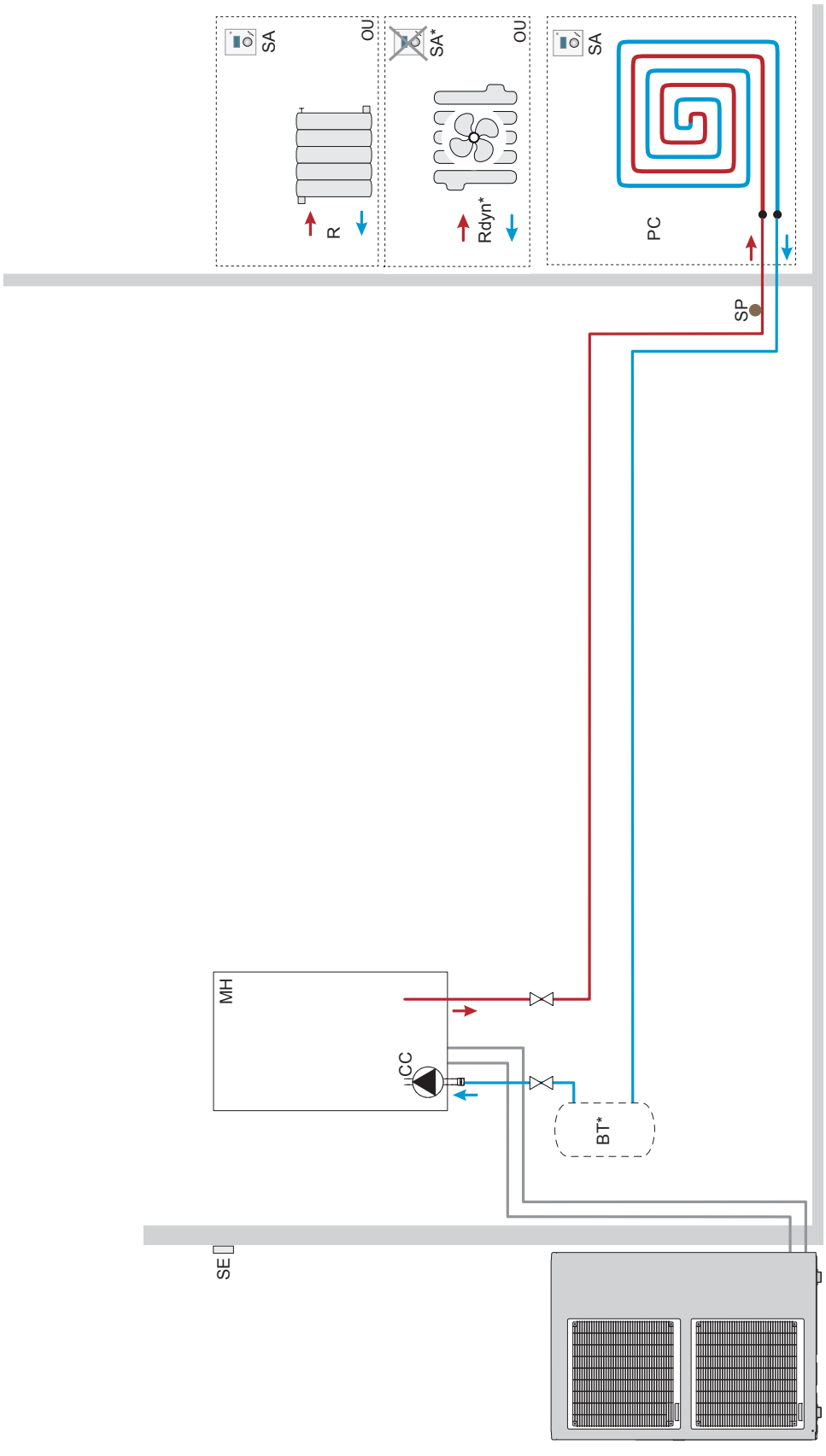
Constant pressure



▶ Overall hydraulic layaout

Model 1 service

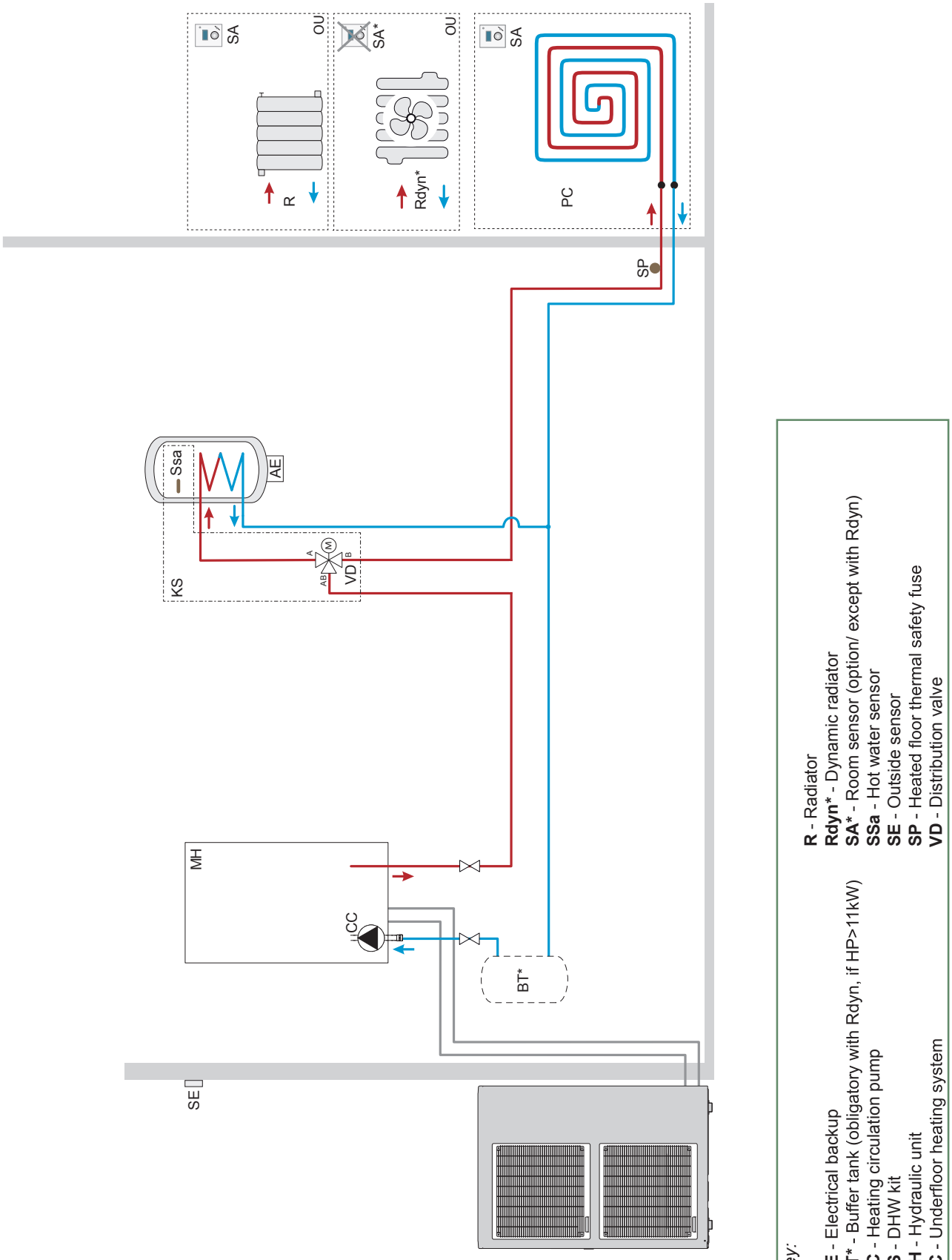
■Configuration 1 : 1 heating circuit



Key:

R - Radiator
Rdyn* - Dynamic radiator
SA* - Room sensor (option/ except with Rdyn)
SE - Outside sensor
SP - Heated floor thermal safety fuse
BT* - Buffer tank (obligatory with Rdyn)
CC - Heating circulation pump
MH - Hydraulic unit
PC - Underfloor heating system

■Configuration 1 : 1 heating circuit and DHW tank

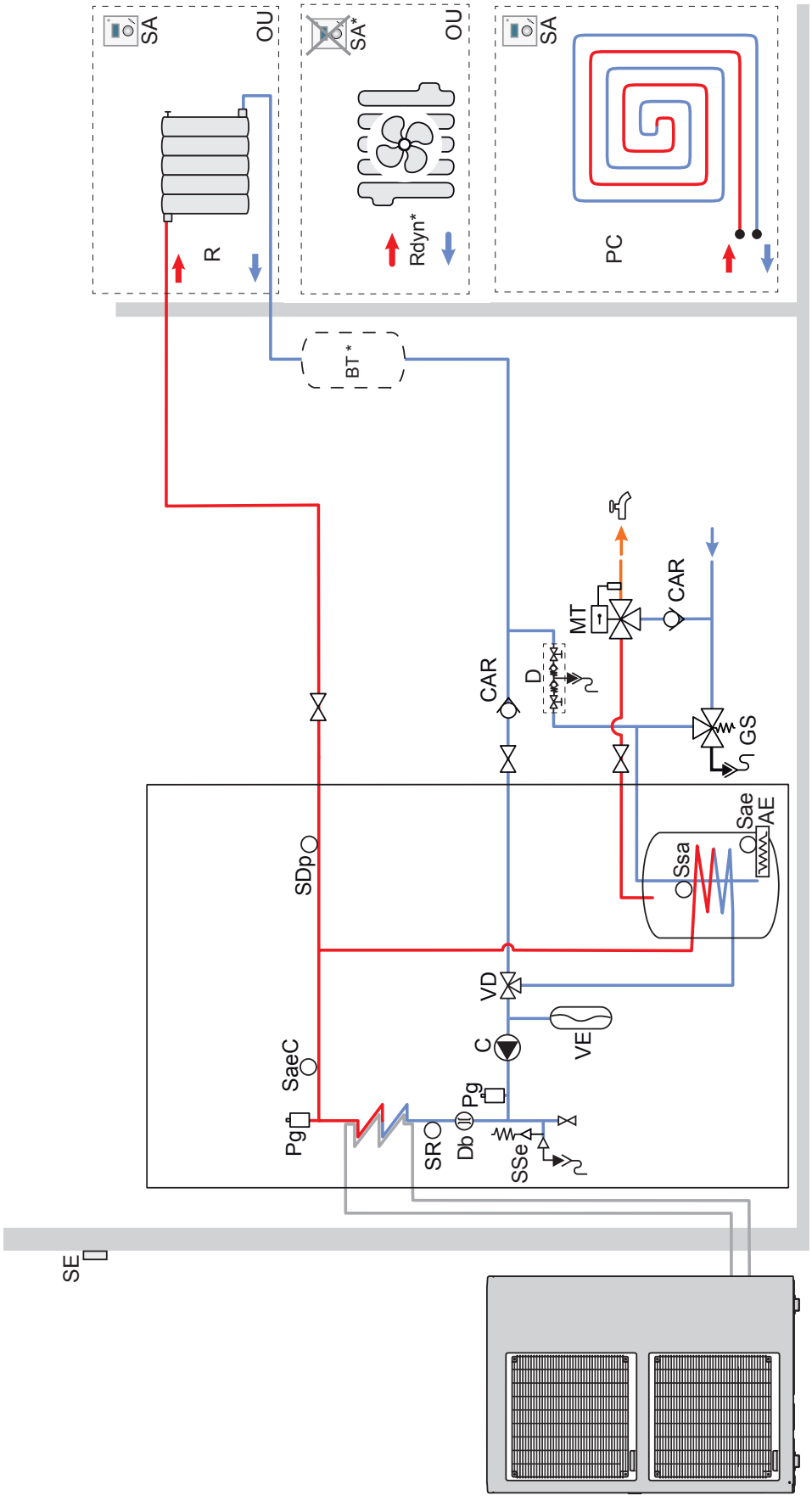


Key:

AE - Electrical backup
BT* - Buffer tank (obligatory with Rdyn, if HP>11kW)
CC - Heating circulation pump
KS - DHW kit
MH - Hydraulic unit
PC - Underfloor heating system
R - Radiator
Rdyn* - Dynamic radiator
SA* - Room sensor (option/ except with Rdyn)
SSa - Hot water sensor
SE - Outside sensor
SP - Heated floor thermal safety fuse
VD - Distribution valve

Model 2 services

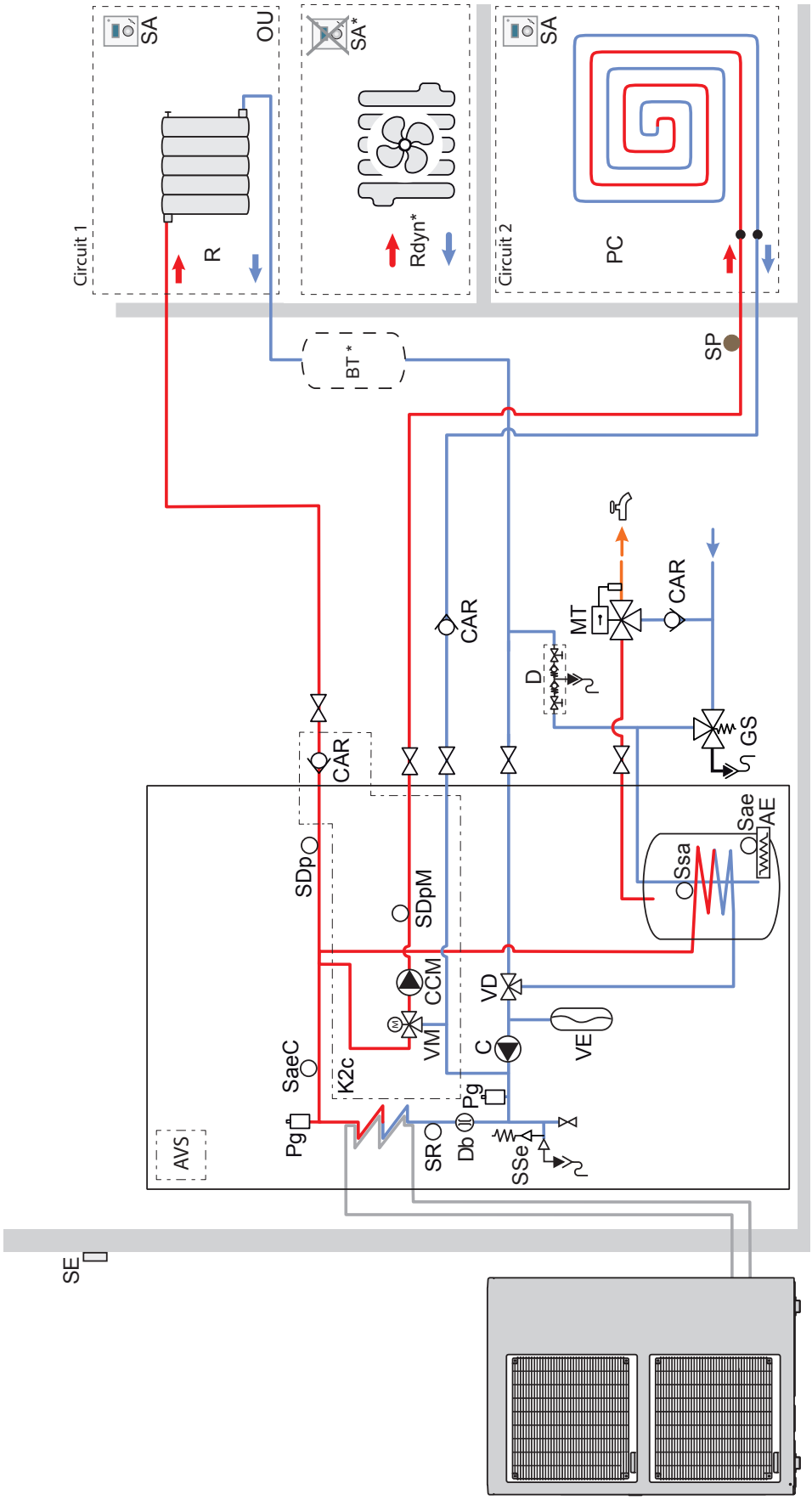
■Configuration : 1 heating circuit



Key:

AE - DHW electrical backup
CAR - Non-return valve
C - HP circulation pump
CCM - Mixed circuit circulation pump
D - Shut-off
Db - Flowmeter
GS - Safety valve (mandatory)
MT - Thermostatic mixing valve
PC - Underfloor heating system
Pg - Bleeder valve
R - Radiators
SA - Room sensor (optional)
Sae - DHW electrical backup safety thermostat
SaeC - Safety thermostat (heating backup option)
SDp - HP flow sensor
SE - Outside sensor
SR - Return sensor
Ssa - DHW sensor
SSe - Safety valve
VD - Distribution valve
VE - Expansion vessel

■Configuration : 2 heating circuits



Key:

AE - DHW electrical backup
AVS - Extension board, 2 circuits
CAR - Non-return valve
C - HP circulation pump
CCM - Mixed circuit circulation pump
D - Shut-off
Db - Flowmeter
GS - Safety valve (mandatory)
K2c - 2 circuit kit
MT - Thermostatic mixing valve
PC - Underfloor heating system
Pg - Bleeder valve
R - Radiators
SA - Room sensor (optional)
Sae - DHW electrical backup safety thermostat
SaeC - Safety thermostat (heating backup option)
SDp - HP flow sensor
SDpM - Mixed circuit flow sensor
SE - Outside sensor
SP - Heated floor safety fuse
SR - Return sensor
Ssa - DHW sensor
SSe - Safety valve
VD - Distribution valve
VE - Expansion vessel
VM - Circuit mixer valve

Options

Function	Name	Reference
Regulation-Hydraulic	Navilink A59	074 208
	Navilink A75	074 213
	Navilink A78	074 214
	A.I. Cozytouch kit	501 000
	Alféa HP 1S 2 Zones kit	500 097
	A.I Cooling kit	075 328
	Connection kit Alféa HP	072 887
	Alféa DHW kit	073 991
	Bottle decoupling	073 957
Buffer tank	BT 25	700 436
	BT 50	700 437
Other	High flow rate circulating pump kit (1)	074 077
Accessoiries for outdoor unit	Anti-vibration blocks (x 4)	523 574
	Wall bracket 600 mm (x 2)	809 536
	Raised floor support (avaliable 2nd semester 2018)	072 889
	Heater for drain pan	809 644
	Alféa HP drain pan (avaliable 2nd semester 2018)	072 888
Refrigerant pipes (2)	KM1 5M 5/8"-3/8"	809 565
	KM1 7M 5/8"-3/8"	809 567
	KM1 10M 5/8"-3/8"	809 570
	KM1 25M 5/8"-3/8"	809 575
Protection pipes for refrigerant pipes	GO 80x60 (8 lg. de 2 m)	809 709
	GO 80x60 (2 lg. de 2 m)	809 716
	CGO 80x60 (x5)	809 723
	PMC 80x60 (x5)	809 729

(1) High flow rate circulating pump kit incompatible with 2 zones kit.

(2) For better protection of isolant against UV, Atlantic recommend install protection pipes with the refrigerant pipes.

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Société Industrielle de Chauffage
SATC - BP 64 - 59660 MERVILLE - FRANCE

This equipment complies with:

- Low Voltage Directive 2014/35/EC in accordance with NF EN 60335-1, NF EN 60335-2-40, NF EN 60529, NF EN 60529/A2 (PI) standards,
- Electromechanical Compatibility Directive 2014/30/EC,
- Machines Directive 2006/42/EC,
- Pressure Equipment Directive 2014/68/EC in accordance with NF EN 378-2 standard,
- Ecodesign Directive 2009/125/EC,
- Energy Labelling Directive 2010/30/EC.

This appliance also complies with :

- Decree No. 92-1271 (and its modifications) relating to certain refrigeration fluids used in refrigeration and air conditioning equipment.
- Regulation 842/2006 of the European Parliament on certain fluorinated greenhouse gases.
- Standards relating to the product and testing methods used: Air-conditioners, liquid chiller units and heat pumps with a compressor driven by an electric motor for heating and refrigeration EN 14511-1, EN 14511-2,EN 14511-3, EN 14511-4.
- EN 12102 standard: Air-conditioners, heat pumps and dehumidifiers with compressor driven by electric motor. Measurement of airborne noise. Determination of the level of sound power.

This appliance is marked with this symbol. It means that all electrical and electronic products must be strictly separated from household waste.

A specific recovery system for this type of product is in place in the countries of the European Union (*), Norway, Iceland and Liechtenstein.

Do not attempt to dismantle this product yourself. This can have adverse effects on your health and on the environment.

Refrigerant liquid, oil and other parts must be reprocessed by a qualified installer in accordance with applicable local and national laws.

In terms of recycling, this appliance must be processed by a specialised service and must not, under any circumstances, be thrown out with household waste, bulky waste or at a tip.

Please contact your heating engineer or After Sales service for further information.

* Depending on the national regulations of each member state.