

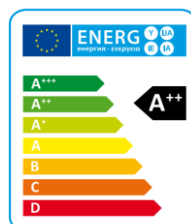
Enevator Air

Standard

High Efficiency Air/Water Heat Pump



- Compact devices, pre-filled refrigerant circuits for easy and quick installations
- Outdoor installation only
- Low noise
- R410 refrigerant, R134a versions on request.
- Available in several configurations
- Output ranges from 22,2 – 463,7 ⁽¹⁾
- Very large capacities
- COP up to 4,6
- Applicable for space heating, cooling, DHW pre-heating
- Cascade up to 6 devices using ModBus
- Staged operation
- Can be used for outdoor temperatures between -20 and + 43°C.
- Hot water temperature outlet 60°C



(1) Heating: outlet temperature 30/35°C, ambient temperature 7°C

Technical Specifications

Model		AWHS 24	AWHS 29	AWHS 41	AWHS 43	AWHS 49	AWHS 60	AWHS 70	AWHS 80	AWHS 90	AWHS 100	AWHS 120	AWHS 140
Heating capacity (EN14511) ⁽¹⁾	kW	22,2	29,6	37,3	47,1	50,8	61,2	67,3	74,9	93,2	104,9	114,9	137,1
Total input power (EN14511) ⁽¹⁾	kW	5,3	7,1	8,8	11,5	11,8	13,3	15,1	17,2	21,2	24,5	27,8	30,9
COP (EN14511) ⁽¹⁾	W/W	4,11	4,16	4,23	4,11	4,32	4,61	4,46	4,36	4,40	4,29	4,13	4,44
Energy Class ⁽²⁾		A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
SCOP ⁽²⁾	kWh/kWh	3,83	3,86	3,85	3,85	3,92	4,13	4,04	3,97	3,87	3,85	3,83	3,85
η _{s,h} ⁽²⁾	%	150,1	151,4	150,9	151,1	153,6	162,0	158,4	155,8	151,7	150,8	150,2	151,0
Cooling capacity (EN14511) ⁽³⁾	kW	18,1	25,4	30,5	40,6	44,2	52,4	57,5	65,4	80,5	90,2	100,5	117,4
Total input power (EN14511) ⁽³⁾	kW	6,9	8,4	11,0	14,5	16,1	18,3	21,3	22,8	26,6	31,2	35,1	38,6
EER (EN14511) ⁽³⁾	W/W	2,62	3,02	2,78	2,81	2,74	2,87	2,70	2,87	3,03	2,89	2,86	3,04
Sound power ⁽⁴⁾	dB (A)	78	79	79	80	79	80	81	82	86	87	88	89
Sound pressure ⁽⁵⁾	dB (A)	46	47	47	48	47	48	49	50	54	55	56	57
Power supply	V/Ph/Hz	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60
Compressors / Circuits	n° / n°	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Fans	n°	1	1	2	2	2	2	2	2	2	2	2	3
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge	kg	10,0	10,0	10,0	10,0	14,5	19,0	19,0	19,0	27,0	27,0	27,0	36,0

Model		AWHS 160	AWHS 180	AWHS 200	AWHS 230	AWHS 250	AWHS 2504	AWHS 3004	AWHS 3204	AWHS 3504	AWHS 4004	AWHS 4504	AWHS 5004
Heating capacity (EN14511) ⁽¹⁾	kW	151,0	167,9	182,8	210,6	241,3	229,4	271,4	296,7	339,0	364,9	399,1	463,7
Total input power (EN14511) ⁽¹⁾	kW	34,4	40,2	45,5	49,4	54,8	55,8	63,9	71,5	83,7	88,8	102,1	115,1
COP (EN14511) ⁽¹⁾	W/W	4,39	4,18	4,02	4,26	4,40	4,11	4,25	4,15	4,05	4,11	3,91	4,03
Energy Class ⁽²⁾		A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
SCOP ⁽²⁾	kWh/kWh	3,86	3,85	3,84	3,92	3,97	3,83	3,85	3,83	3,91	3,89	3,87	3,86
η _{s,h} ⁽²⁾	%	151,3	150,9	150,4	153,6	155,6	150,2	151,1	150,3	153,5	152,4	151,9	151,5
Cooling capacity (EN14511) ⁽³⁾	kW	129,5	146,8	159,2	180,4	202,1	198,5	231,0	259,7	289,4	322,6	368,5	416,0
Total input power (EN14511) ⁽³⁾	kW	44,0	50,8	58,7	66,1	73,2	72,7	80,5	89,2	105,2	118,2	135,0	154,6
EER (EN14511) ⁽³⁾	W/W	2,94	2,89	2,71	2,73	2,76	2,73	2,87	2,91	2,75	2,73	2,73	2,69
Sound power ⁽⁴⁾	dB (A)	89	90	90	92	92	91	91	92	92	93	95	94
Sound pressure ⁽⁵⁾	dB (A)	57	58	58	60	60	59	59	60	60	61	63	62
Power supply	V/Ph/Hz	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60	400/3/50-60
Compressors / Circuits	n° / n°	2 / 1	2 / 1	2 / 1	2 / 1	2 / 1	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Fans	n°	3	3	3	3	3	4	6	6	6	6	8	8
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge	kg	36,0	36,0	45,0	45,0	60,0	60,0	72,0	72,0	72,0	90,0	90,0	100,0

Performances are referred to the following conditions:

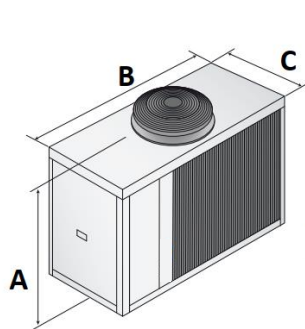
- (1) Heating: Ambient temperature 7°C DB, 6°C WB, water temperature 30/35°C
- (2) Average conditions, variable - Reg EU 811/2013

- (3) Cooling: ambient air temperature 35°C, evaporator water temperature in/out 12/7 °C.

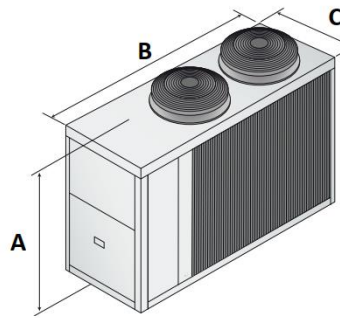
- (4) Sound power level in accordance with ISO 3744

- (5) Sound pressure level at 10 mt from the unit in free field conditions in accordance with ISO 3744

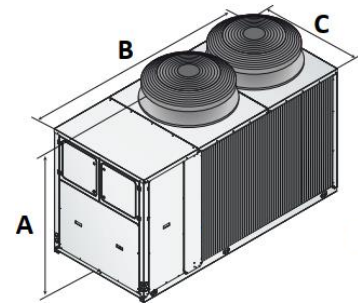
Dimensions



AWHS 24-29

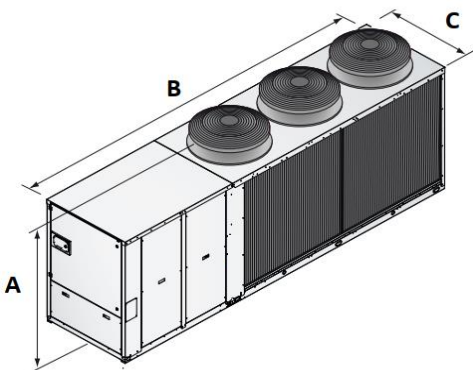


AWHS 41-43-49

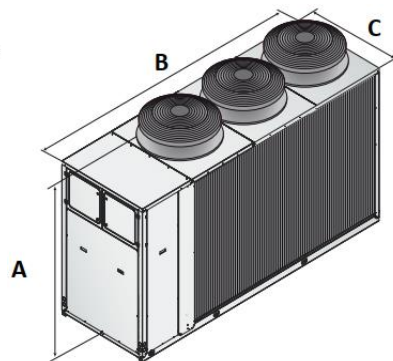


AWHS 60-70-80-90-100-120

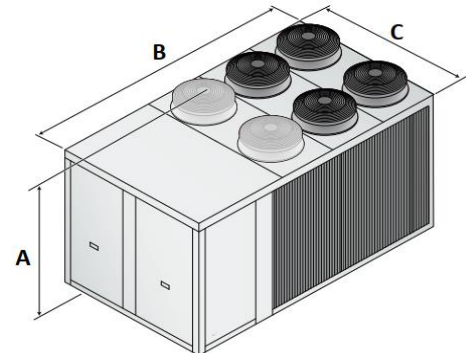
			AWHS 24	AWHS 29	AWHS 41	AWHS 43	AWHS 49	AWHS 60	AWHS 70	AWHS 80	AWHS 90	AWHS 100	AWHS 120
A	Height	mm	1500	1500	1690	1690	1820	1880	1880	1880	1880	1880	1880
B	Width	mm	1915	1915	2400	2400	2905	2905	2905	2905	2905	2905	2905
C	Depth	mm	875	875	1150	1150	1150	1150	1150	1150	1150	1150	1150
Weight		kg	1000	1000	670	690	720	1060	1060	1070	1120	1160	1240



AWHS 140-160-180-200



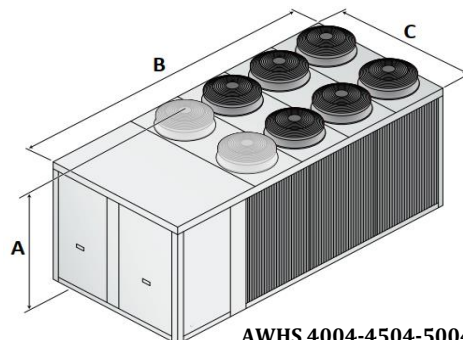
AWHS 230-250



AWHS 2504-3004-3204-3504

			AWHS 140	AWHS 160	AWHS 180	AWHS 200	AWHS 230	AWHS 250	AWHS 2504	AWHS 3004	AWHS 3204	AWHS 3504
A	Height	mm	1880	1880	1880	1880	2270	2270	2350	2350	2350	2350
B	Width	mm	3905	3905	3905	3905	3905	3905	4205	4205	4205	4205
C	Depth	mm	1150	1150	1150	1150	1150	1150	2210	2210	2210	2210
Weight		kg	1560	1580	1600	1620	1790	1820	3170	3220	3270	3320

			AWHS 4004	AWHS 4504	AWHS 5004
A	Height	mm	2380	2380	2380
B	Width	mm	4805	5250	5250
C	Depth	mm	2210	2210	2210
Weight		kg	3660	3720	3780



AWHS 4004-4504-5004