

AIR/WATER HEAT PUMP UNITS FOR CONDITIONING RANGING FROM 12 TO 30KW

Series AH SMALL

The heat pumps AH small series available in different configurations depending on the needs of performance required by the system.

The element that characterizes the performance is linked to the type of compressor used in various product lines, scroll, scroll inverter, EVI.

The project complies with recent ErP2015 energy provisions

VERSIONS

- Heating - cooling
- Heating - cooling / sanitary water

STRUCTURE

- Frame support and panels is in painted galvanized sheet metal

TECHNOLOGY

- Refrigerant R410a
- Stainless steel plate heat exchanger
- Hydrophilic protection on evaporating coil



THERMOWER

AH SMALL		AHP	AHP	AHP	AHP	AHP	AHP	AHP	AHP	AHP
Outdoor environment temp. -10°C										
Water supply temp. 55°C	Unit	9	11	14	16	20	22	24	28	32
Power supply		230/1/50Hz	230/1/50Hz	230/1/50Hz	400/3+N/50HZ	400/3+N/50HZ	400/3+N/50HZ	400/3+N/50HZ	400/3+N/50HZ	400/3+N/50HZ
Heating power (1)	Kw	8,46	11,25	14,05	16,4	19,55	21,8	23,7	27,5	31,5
Total electric power	Kw	1,92	2,67	3,12	3,52	4,17	5,08	5,18	5,82	6,84
Cop	W/W	4,41	4,21	4,50	4,66	4,69	4,29	4,58	4,73	4,61
Water flow units	m³/h	1,46	1,94	2,42	2,82	3,36	3,75	4,08	4,73	5,42
Cooling power (3)	Kw	8,97	11,70	14,30	16,50	20,00	22,50	24,50	27,50	31,60
Total electric power	Kw	2,41	3,41	4,21	4,86	5,32	6,04	6,77	7,75	9,01
EER	W/W	3,72	3,43	3,44	3,40	3,76	3,73	3,62	3,55	3,51
Water flow units	m³/h	1,54	2,01	2,46	2,84	3,44	3,87	4,21	4,73	5,44
Compressor	N°	1	1	1	1	1	1	1	1	1
Tippe compressor		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Fan SLN EC	N°	1	1	1	1	1	1	1	1	1
Noise unit SLN (5)	LWA (dBA)	55	57	55	57	58,4	58,4	58,4	58,4	58,4
Noise unit SLN (4)	LP (dBA)	27	29	27	29	30,4	30,4	30,4	30,4	30,4
Fan STD	N°	1	1	1	1	2	2	2	2	2
Rumorosità unità STD (5)	LWA (dBA)	59	64	64	64	67	67	67	67	67
Noise unit STD (4)	LP (dBA)	31	36	36	36	39	39	39	39	39

Outdoor environment temp. -15°C		AHH	AHH	AHH	AHH	AHH
Water supply temp. 60°C						
Water supply temp. 60°C	Unit	9	11	15	20	24
Power supply		230/1/50Hz	230/1/50Hz	400/3+N/50HZ	400/3+N/50HZ	400/3+N/50HZ
Heating power (1)	Kw	8,45	11,2	14,85	19,75	23,9
Total electric power	Kw	1,96	2,61	3,18	4,23	5,22
Cop	W/W	4,31	4,29	4,53	4,67	4,58
Water flow units	m³/h	1,45	1,93	2,48	3,40	4,11
Cooling power (3)	Kw	8,99	11,55	14,45	18,95	23,80
Total electric power	Kw	2,45	3,34	4,18	5,67	6,92
EER	W/W	3,67	3,46	3,46	3,34	3,44
Water flow units	m³/h	1,55	1,99	2,49	3,26	4,09
Compressor	N°	1	1	1	1	1
Tippe compressor		Scroll ZH	Scroll ZH	Scroll ZH	Scroll ZH	Scroll ZH
Fan SLN EC	N°	1	1	1	1	1
Noise unit SLN (5)	LWA (dBA)	55	57	57	58,4	58,4
Noise unit SLN (4)	LP (dBA)	27	29	29	30,4	30,4
Fan STD	N°	1	1	1	2	2
Rumorosità unità STD (5)	LWA (dBA)	59	64	64	67	67
Noise unit STD (4)	LP (dBA)	31	36	36	39	39

Outdoor environment temp. -20°C		AHE	AHE	AHE	AHE	AHE	AHE
Water supply temp. 65°C							
Water supply temp. 65°C	Unit	9	13	16	20	25	30
Power supply		230/1/50Hz	230/1/50Hz	400/3+N/50HZ	400/3+N/50HZ	400/3+N/50HZ	400/3+N/50HZ
Heating power (1)	Kw	9,53	12,55	16,05	21,6	26,9	30,1
Total electric power	Kw	2,32	3,1	3,49	4,76	6,21	6,68
Cop	W/W	4,11	4,05	4,60	4,54	4,33	4,51
Water flow units	m³/h	1,64	2,16	2,76	3,72	4,63	5,18
Cooling power (3)	Kw	9,88	13,15	16,20	21,90	27,80	31,10
Total electric power	Kw	2,84	3,67	4,65	6,46	8,36	8,88
EER	W/W	3,48	3,58	3,48	3,39	3,33	3,50
Water flow units	m³/h	1,70	2,26	2,79	3,77	4,78	5,35
Compressor	N°	1	1	1	1	1	1
Tippe compressor		EVI Scroll	EVI Scroll	EVI Scroll	EVI Scroll	EVI Scroll	EVI Scroll
Fan SLN EC	N°	1	1	1	1	1	1
Noise unit SLN (5)	LWA (dBA)	55	57	57	58,4	58,4	58,4
Noise unit SLN (4)	LP (dBA)	27	29	29	30,4	30,4	30,4
Fan STD	N°	1	1	1	2	2	2
Rumorosità unità STD (5)	LWA (dBA)	59	64	64	67	67	67
Noise unit STD (4)	LP (dBA)	31	36	36	39	39	39

Outdoor environment temp. -15°C		AHI			AHI		
Water supply temp. 55°C							
Water supply temp. 55°C	Unit	12			25		
		230/1/50Hz			400/3+N/50HZ		
Power supply		30	60	80	32	60	90
Heating power (1)	Kw	4,2	9,05	12	8,1	16,1	25,1
Total electric power	Kw	1,05	2,01	2,7	1,9	3,4	5,6
Cop	W/W	4,00	4,50	4,44	4,26	4,73	4,48
Water flow units	m³/h	0,72	1,51	2,03	1,40	2,77	4,32
Cooling power (3)	Kw	4,30	8,95	12,10	8,33	16,44	24,61
Total electric power	Kw	1,22	2,32	3,20	3,60	3,90	3,67
EER	W/W	3,50	3,86	3,78	2,31	4,21	6,70
Water flow units	m³/h	0,74	1,54	2,08	1,43	2,77	4,32
Compressor	N°	1			1		
Tippe compressor		Rotary inverter			Rotary inverter		
Fan SLN EC	N°	-	1	-	-	1	-
Noise unit SLN (5)	LWA (dBA)	-	57	-	-	58,4	-
Noise unit SLN (4)	LP (dBA)	-	29	-	-	30,4	-
Fan STD	N°	-	1	-	-	2	-
Rumorosità unità STD (5)	LWA (dBA)	-	64	-	-	62	-
Noise unit STD (4)	LP (dBA)	-	36	-	-	34	-

(1) Heating: Ambient air temperature 7°C dry bulb wet bulb 6°C water 30/35 °C
 (3) Cooling: air temperature 35°C, water 23-18°C
 (4) Sound pressure level calculated in free field, 10 meters from the unit, directional factor Q = 2 according ISO9613
 (5) sound power obtained with ENI EN ISO9614-2



BLAUWERS.p.A
 Via G. Marconi, 37/2
 35020 Brugine (PD) - ITALY
 Tel. +39 049 933 60 16
 info@blauwer.com
 www.blauwer.com