

HWA2

Range of chillers and reversible heat pumps
with scroll compressors and R290 Gas



HWA2

Range of reversible chillers and heat pumps with scroll compressors and R290 Gas

- **A unique solution for heating, cooling, and hot water production** with guaranteed performance all year round.
- Sustainability, technology, and reliability make this range adaptable for both commercial and industrial applications, thanks to the use of fixed-speed scroll compressor technology.
- The HWA2 range is designed to achieve water temperatures suitable for a wide variety of uses, both for comfort and domestic hot water production.
- **78°C Hot water**
- The range is available in **8 sizes**, with different power ratings available in both cooling-only and reversible heat pump versions.
- **Dual range: chillers and reversible heat pumps.**
HWA2-A represents the series of chillers suitable for both comfort and industrial applications, thanks to the BT version, which allows for operating fluid temperatures as low as -8°C .
HWA2-AH, with its wide operating range and high maximum water temperature, can easily be used both for new installations and for replacing existing systems.
- **3 different frames to meet every need**
The 8 different sizes of the HWA2 require different configurations, which is why 3 new frames have been designed to accommodate all the components necessary for their proper operation.
- **Wide hydraulic configurability**
Each size of the HWA2 range can be configured with various circulation pump models, which can be paired, upon request, with the corresponding storage tank. Furthermore, the hydraulic connections to the distribution system can be easily oriented, optimizing the connection with it.



HWA2

0270-0280-0290

- 2 scroll compressors
- single refrigerant circuit
- optional: single pump AC, double pump AC, single pump inverter
- optional: integrated tank
- standard EC fans (A version)
- optional: EC fans (AH version)
- optional: SL or SSL version



HWA2

04110-04120

- 4 scroll compressors
- double refrigerant circuit
- optional: single pump AC, double pump AC, single pump inverter
- optional: integrated tank
- standard EC fans (A version)
- optional: EC fans (AH version)
- optional: SL or SSL version

HWA2

04140-04155-04170

- 4 scroll compressors
- double refrigerant circuit
- optional: single pump AC, double pump AC, single pump inverter
- optional: integrated tank
- standard EC fans (A version)
- optional: EC fans (AH version)
- optional: SL or SSL version



HWA2-A		0270	0280	0290	04110	04120	04140	04155	04170
Cooling capacity (1)	kW	67,1	75,7	79,1	98,3	112	132,4	141,6	152,4
Power input (1)	kW	19,7	21,7	24,4	31,7	35,2	42,3	47	50,8
E.E.R. (1)	W/W	3,41	3,49	3,24	3,1	3,18	3,13	3,01	3
Heating capacity (2)	kW	89,9	98,5	103	138	155	169,6	180	192,4
Power input (2)	kW	22,3	24,7	28	34,5	38,6	44,5	48,8	52,7
E.E.R. (2)	W/W	4,03	3,989	3,68	4	4,02	3,81	3,69	3,65
SEER (5)	W/W	4,696	5,087	4,694	4,292	4,445	≤ 4	≤ 4	≤ 4
Minimum water volume (8)	L	355	423	414	271	326	--	--	--
Sound pressure Lp at 10 m (10)	dB(A)	53	54	54	55	56	TBD	TBD	TBD
Sound pressure Lp conf. SL at 10 m (10)	dB(A)	51	52	52	53	54	TBD	TBD	TBD
Sound pressure Lp conf. SSL at 10 m (10)	dB(A)	49	50	50	51	52	TBD	TBD	TBD

HWA2-AH		0270	0280	0290	04110	04120	04140	04155	04170
Cooling capacity (1)	kW	61,5	67,2	72,8	94,7	107	124,5	137,4	149,4
Power input (1)	kW	19,7	21,5	23,5	33,4	36,9	42,9	47	50,4
E.E.R. (1)	W/W	3,12	3,13	3,1	2,84	2,9	2,90	2,92	2,96
Cooling capacity (2)	kW	73,9	81,2	86,3	116	131	148,5	164	171,7
Power input (2)	kW	20,2	22	24,7	35,2	39,1	40,6	44,2	49,8
E.E.R. (2)	W/W	3,66	3,69	3,49	3,3	3,35	3,66	3,71	3,45
SEER (5)	W/W	4,397	4,595	4,287	4,307	4,575	≤ 4	≤ 4	≤ 4
Heating capacity (3)	kW	72,7	78,5	84,4	116	129	138,6	152,9	167,3
Power input (3)	kW	16,8	18,6	20,4	29,1	31	38,4	41,2	44,2
C.O.P. (3)	W/W	4,33	4,22	4,14	3,99	4,16	3,61	3,71	3,79
Heating capacity (11)	kW	61	67,1	72,6	103	115	118,5	131,7	144,7
Power input (11)	kW	26,7	28,5	31,5	44,4	47,9	58,5	63	67,5
C.O.P. (11)	W/W	2,28	2,35	2,3	2,32	2,4	2,03	2,09	2,14
SCOP (6)	W/W	3,997	4,158	3,873	3,750	3,900	≤ 3,5	≤ 3,5	≤ 3,5
Minimum water volume (8)	L	394	466	456	302	368	--	--	--

HWA2-A / HWA2-AH		0270	0280	0290	04110	04120	04140	04155	04170
Refrigerant circuit									
Compressor type		Scroll							
Compressors	n°	2	2	2	4	4	4	4	4
Refrigerant circuits	n°	1	1	1	2	2	2	2	2
Exchanger type		PHE - Plates							
Heat exchangers	n°	1	1	1	1	1	1	1	1
Sound pressure Lp at 10 m (10)	dB(A)	53	54	54	55	56	TBD	TBD	TBD
Sound pressure Lp conf. SL at 10 m (10)	dB(A)	51	52	52	53	54	TBD	TBD	TBD
Sound pressure Lp conf. SSL at 10 m (10)	dB(A)	49	50	50	51	52	TBD	TBD	TBD

Hydraulic circuit									
Hydraulic connections		2"	2"	2"	2" 1/2	2" 1/2	2" 1/2	2" 1/2	2" 1/2

Electrical data									
Power supply		400V/3P/50Hz							
Maximum power input	kW	41,3	44,5	47,7	64,1	68,8	77,5	84	90,5
Maximum current input	A	64,2	71	77,8	102,4	109,8	123,4	137	150,6

Dimensions									
Length	mm	2570	2570	2570	3960	3960	2910	2910	2910
Length with tank	mm	3280	3280	3280	4670	4670	2910	2910	2910
Depth	mm	1135	1135	1135	1135	1135	2200	2200	2200
Height	mm	2250	2250	2250	2250	2250	2250	2250	2250
Height SSL version	mm	2300	2300	2300	2300	2300	2382	2382	2382

(1) Cooling: outdoor air temperature 35°C; in/out water temperature 12/7°C.

(2) Cooling: outdoor air temperature 35°C; in/out water temperature 23/18°C.

(3) Heating: outdoor air temperature 7°C b.s. 6°C b.u.; in/out water temperature 30/35°C.

(5) Cooling: low temperature, variable output, fixed flow.

(6) Heating: average climatic conditions; T_{biv} = -4°C; low temperature, variable output, constant flow.

(8) The volume indicated refers to the total needed, the designer must satisfy this

considering the quantity already present inside the unit depending on the hydronic kit chosen (please check this value in the data sheet).

(10) Sound pressure: value calculated from the sound power level in condition (9) using the standard UNI EN ISO 3744:2010.

(11) Heating: outdoor air temperature 7 °C b.s. 6 °C b.u.; in/out water temperature 55/65 °C