

HWA2

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



HWA2

R290

Range of chillers and reversible 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, for this reason 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 refrigeration circuit
- optional: single AC pump, double AC pump, single inverter pump
- optional: integrated tank
- EC fans as standard (version A)
- optional: EC fans (AH version)
- optional: SL or SSL version



HWA2

04110-04120

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



HWA2

04140-04155-04170

- 4 scroll compressors
- dual refrigeration circuit
- optional: single AC pump, double AC pump, single inverter pump
- optional: integrated tank
- EC fans as standard (version A)
- 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	112,0	132,4	141,6	152,4
Power input (1)	kW		19,7	21,7	24,4	31,7	35,2	42,3	47,0	50,8
E.E.R. (1)	W/W		3,41	3,49	3,24	3,10	3,18	3,13	3,01	3,00
Cooling 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	3,99	3,68	4,00	4,02	3,81	3,69	3,65
SEER (5)	W/W		4,70	5,09	4,69	4,29	4,45	≤ 4	≤ 4	≤ 4
Minimum water volume (8)	l		354	423	414	270	326	TBD	TBD	TBD
Sound power (6)	dB (A)		85 std	86 std	86 std	87 std	88 std			
			83 SL	84 SL	84 SL	85 SL	86 SL	TBD	TBD	TBD
			81 SSL	82 SSL	82 SSL	83 SSL	84 SSL			
Sound pressure (7)	dB (A)		53 std	54 std	54 std	55 std	56 std			
			51 SL	52 SL	52 SL	53 SL	54 SL	TBD	TBD	TBD
			49 SSL	50 SSL	50 SSL	51 SSL	52 SSL			

(1) Internal heat exchanger water temperature = 12/7°C, air entering the external heat exchanger 35°C.
(2) Internal heat exchanger water temperature = 23/18°C, air entering the external heat exchanger 35°C.
(3) Cooling: low temperature, variable output, constant flow rate.
(5) The calculated value of minimum system water volume does not take into account the water volume contained in the internal heat exchanger (evaporator). For applications with low outdoor air temperature or low required average loads, the minimum system water volume is obtained by doubling the indicated

value.
(6) Condition (1); value determined on the basis of measurements carried out in accordance with UNI EN ISO 9614-2, in compliance with the requirements of Eurovent certification.
(7) Value calculated from the sound power level using ISO 3744:2010, referred to a distance of 10 m from the unit.

HWA2-AH			0270	0280	0290	04110	04120	04140	04155	04170
Cooling capacity (1)	kW		61,5	67,2	72,8	94,7	107,0	111,6	123,2	134,0
Power input (1)	kW		19,7	21,5	23,5	33,4	36,9	39,2	42,9	46,0
E.E.R. (1)	W/W		3,12	3,13	3,10	2,84	2,90	2,85	2,87	2,91
Cooling capacity (2)	kW		73,9	81,2	86,3	116,0	131,0	146,1	161,3	168,9
Power input (2)	kW		20,2	22,0	24,7	35,2	39,1	42,0	45,7	51,5
E.E.R. (2)	W/W		3,66	3,69	3,49	3,30	3,35	3,48	3,53	3,28
SEER (5)	W/W		4,40	4,60	4,29	4,31	4,58	3,5 ÷ 4	3,5 ÷ 4	3,5 ÷ 4
Heating capacity (3)	kW		72,7	78,5	84,4	116,0	129,0	140,2	154,7	169,3
Power input (3)	kW		16,8	18,6	20,4	29,1	31,0	35,4	38,0	40,7
C.O.P. (3)	W/W		4,33	4,22	4,14	3,99	4,16	3,96	4,08	4,16
Heating capacity (11)	kW		61,0	67,1	72,6	103,0	115,0	120,6	134,0	147,2
Power input (11)	kW		26,7	28,5	31,5	44,4	47,9	53,9	58,0	62,2
C.O.P. (11)	W/W		2,28	2,35	2,30	2,32	2,40	2,24	2,31	2,37
SCOP (6)	W/W		4,00	4,16	3,87	3,70	3,90	3,5 ÷ 4	3,5 ÷ 4	3,5 ÷ 4
Minimum water volume (8)	l		394	466	456	302	368	TBD	TBD	TBD
Sound power (9)	dB (A)		85 std	86 std	86 std	87 std	88 std			
			83 SL	84 SL	84 SL	85 SL	86 SL	TBD	TBD	TBD
			81 SSL	82 SSL	82 SSL	83 SSL	84 SSL			
Sound pressure (10)	dB (A)		53 std	54 std	54 std	55 std	56 std			
			51 SL	52 SL	52 SL	53 SL	54 SL	TBD	TBD	TBD
			49 SSL	50 SSL	50 SSL	51 SSL	52 SSL			

(1) Internal heat exchanger water temperature = 12/7°C, air entering the external heat exchanger 35°C.
(2) Internal heat exchanger water temperature = 23/18°C, air entering the external heat exchanger 35°C.
(3) Internal heat exchanger water temperature = 30/35°C, entering air temperature at the external heat exchanger = 7°C D.B./6°C W.B.; EC fans
(5) Cooling: low temperature, variable output, constant flow rate.
(6) Average climatic conditions; T_{biv} = -4°C, internal heat exchanger water temperature = 30/35°C; EC fans.
(8) The calculated value of minimum system water volume does not take into account the water volume contained in the internal heat exchanger (evaporator). For applications with low outdoor air

temperatures or low required average loads, the minimum system water volume is obtained by doubling the indicated value.
(9) Condition (3); value determined on the basis of measurements carried out in accordance with standard UNI EN ISO 9614-2, in compliance with the requirements of Eurovent certification.
(10) Value calculated from the sound power level using ISO 3744:2010, referred to a distance of 10 m from the unit.
(11) Internal heat exchanger water temperature = 55/65°C, entering air temperature at the external heat exchanger = 7°C D.B./6°C W.B.; EC fans

HWA2-A / HWA2-AH			0270	0280	0290	04110	04120	04140	04155	04170
Compressor type			SCROLL							
Compressors	Nr		2	2	2	4	4	4	4	4
Oil loading	l		6,6	6,6	6,6	13,2	13,2	13,2	13,2	13,2
Refrigerant circuits	Nr		1	1	1	2	2	2	2	2
Exchanger type			PHE - PLATE TYPE							
Heat exchangers	Nr		1	1	1	1	1	1	1	1
Power supply			400V/3P/50Hz							
Maximum input power version without accessories	kW		42,4	45,6	48,8	64,0	68,8	77,5	84,0	90,5
Maximum current absorbed version without accessories	A		64,2	71,0	77,8	102,4	109,8	123,4	137,0	150,6
Maximum inrush current version without accessories	A		327,0	366,0	405,0	241,8	256,8	TBD	TBD	TBD
Standard length / with tank	mm		2570 / 3280	2570 / 3280	2570 / 3280	3960 / 4670	3960 / 4670	2810	2810	2810
Depth	mm		1135	1135	1135	1135	1135	2320	2320	2320
Standard height / SSL	mm		2250 / 2300	2250 / 2300	2250 / 2300	2250 / 2300	2250 / 2300	2362 / 2369	2362 / 2369	2362 / 2369
Net transport weight (std version)	kg		1070	1075	1080	1270	1280	2050	2065	2080
Operating weight (std version)	kg		1080	1085	1090	1280	1290	2055	2070	2085