

TX2-W-G04 /H

Water Sourced Reversible Heat Pump with Inverter Centrifugal Compressors

The Climaveneta **TX2-W-G04 /H** is a high performance water sourced reversible heat pump optimised for comfort heating and cooling. It uses state of the art oil free centrifugal compressors and a low GWP refrigerant R1234ze ensuring high efficiency and silent operation.

Available in 15 sizes ranging from 263kW to 2146kW the **TX2-W-G04 /H** operates with best in class sound levels while having high Seasonal Coefficient of Performance (SCOP). With its compact design the **TX2-W-G04 /H** has class leading performance to footprint ratio allowing for a simplified installation and low shipping costs.

The **TX2-W-G04 /H** can also be supplied with a variety of options including source side control valves, energy and thermal meters, BEMS cards and leak detection.

Key Features & Benefits:

- Exceptional efficiency in a compact footprint
- Silent operation achieved using state of the art oil free centrifugal compressors optimised for R1234ze
- High quality shell and tube heat exchangers
- Low GWP refrigerant (GWP100 = 1)*
- Large variety of sizes to suit a wide variety of applications
- Flexible composition with water connections to the evaporator and condenser that can be deployed on the right or left, to fit any application.

R1234ze


*IPCC AR5



TX2-W-G04 /H		0251	0351	0551	0602	0702	0872	1022	1203	1314	1363	1404	1553	1584	1914	2064	
Performance - Heating Only (Gross Value) ^{2*4}																	
Total Heating Capacity	kW	297.9	406.7	643.6	731.1	828.8	1034.0	1269.0	1398.0	1576.0	1650.0	1691.0	1905.0	1869.0	2342.0	2510.0	
Total Power Input	kW	59.3	84.3	137.4	144.7	169.7	220.6	272.4	299.6	309.8	357.0	334.5	391.4	383.2	474.7	523.2	
COP	kW/kW	5.02	4.82	4.68	5.05	4.88	4.69	4.66	4.67	5.09	4.62	5.06	4.87	4.88	4.93	4.80	
Performance - Heating Only ^{2*3*5}																	
Total Heat Capacity	kW	263.6	366.2	546.0	642.2	743.4	907.5	1,091.0	1,245.0	1,394.0	1,448.0	1,494.0	1,623.0	1,639.0	2,009.0	2,146.0	
COP	kW/kW	5.04	4.93	5.30	5.14	4.98	5.12	5.24	5.01	5.21	5.09	5.21	5.41	5.20	5.38	5.37	
Performance - Cooling Only ^{11*3*5}																	
Total Cooling Capacity	kW	209.3	299.8	425.2	511.6	601.6	725.4	850.5	1,016.0	1,108.0	1,146.0	1,197.0	1,264.0	1,319.0	1,571.0	1,681.0	
EER	kW/kW	5.67	5.78	6.04	5.87	5.79	5.88	5.98	5.75	6.07	5.83	6.13	6.20	6.08	6.19	6.16	
Seasonal Performance - Ambient Refrigeration ⁶																	
Prated,c	kW	209.3	299.8	425.2	511.6	601.6	725.4	850.5	1016.0	1108.0	1146.0	1197.0	1264.0	1319.0	1571.0	1681.0	
SEER		8.99	9.15	9.77	9.36	9.25	9.53	10.02	9.33	9.50	9.31	9.65	10.16	9.54	9.83	10.13	
Electrical Data																	
Power Supply	V/ph/Hz	400/3/50	400/3/500	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
F.L.A. ⁷	Total	A	117	165	231	282	330	396	462	561	612	627	660	693	726	858	924
Exchangers																	
Minimum Water Flow in Cooling ¹¹ Evaporator	l/s	17.61	17.61	40.28	45.83	40.28	50.00	72.22	61.94	85.28	87.78	85.28	108.30	85.28	134.20	134.20	
Minimum Water Flow in Heating ² Condenser	l/s	8.61	11.67	18.61	21.11	21.11	28.61	35.28	38.06	44.44	41.39	48.06	50.83	48.06	59.72	69.17	
Heat Exchanger in Heating ²																	
Pressure Drop at Heat Exchanger	User Side	kPa	28.50	29.70	25.20	28.00	37.50	30.80	29.80	26.20	29.30	29.70	29.00	31.00	34.90	34.10	29.20
Water Flow	User Side	l/s	12.71	17.66	26.34	30.98	35.86	43.78	52.62	60.07	67.26	69.88	72.08	78.33	79.09	96.95	103.60
Pressure Drop at Heat Exchanger	Source Side	kPa	77.40	80.40	64.90	68.10	80.70	82.60	80.70	67.10	82.90	66.90	82.90	81.50	82.90	83.10	84.00
Water Flow	Source Side	l/s	17.28	17.61	36.11	42.21	40.28	50.00	72.03	61.94	85.28	87.78	85.28	107.90	85.28	133.40	134.20
Heat Exchanger in Cooling ¹¹																	
Pressure Drop at Heat Exchanger	User Side	kPa	26.10	53.40	20.60	22.90	41.30	39.80	25.80	41.30	32.00	26.10	37.40	25.60	45.40	26.40	30.20
Water Flow	User Side	l/s	10.03	14.36	20.35	24.48	28.79	34.72	40.70	48.61	53.01	54.82	57.29	60.49	63.11	75.18	80.42
Pressure Drop at Heat Exchanger	Source Side	kPa	24.10	26.50	20.20	23.60	32.70	26.10	24.00	23.30	24.40	24.80	24.40	24.70	29.70	27.40	23.50
Water Flow	Source Side	l/s	11.70	16.69	23.58	28.47	33.50	40.32	47.21	56.67	61.36	63.83	66.22	69.85	72.96	86.83	92.94
Refrigerant Circuit																	
Compressors	No.	1	1	1	2	2	2	2	3	4	3	4	3	4	4	4	
Circuits	No.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Refrigerant Charge ⁸	kg	140	180	177	237	247	358	310	624	730	565	1036	617	1036	890	876	
Noise Levels																	
Total Sound Pressure ⁹	dB(A)	75	76	78	76	77	78	79	79	78	80	78	79	79	80	80	
Total Sound Power Level in Cooling ^{11*5*10}	dB(A)	93	94	96	95	96	97	98	98	98	99	98	99	99	100	100	
Total Sound Power Level in Heating ^{2*5*10}	dB(A)	93	94	96	95	96	97	98	98	98	99	98	99	99	100	100	
Size and Weight ¹¹																	
Width (A)	mm	2910	2910	2910	2910	2910	3050	3050	3710	4690	3710	4690	4690	4720	4720	4720	
Depth (B)	mm	1000	1000	1000	1560	1560	1620	1620	1710	1660	1710	1890	1660	1890	1890	1890	
Height (H)	mm	1950	1950	1950	2190	2190	2190	2190	2260	2260	2260	2400	2260	2400	2400	2400	
Operation Weight	kg	2280	2430	2630	3780	3010	4880	4910	7060	8520	7040	9760	7950	9760	10130	10340	

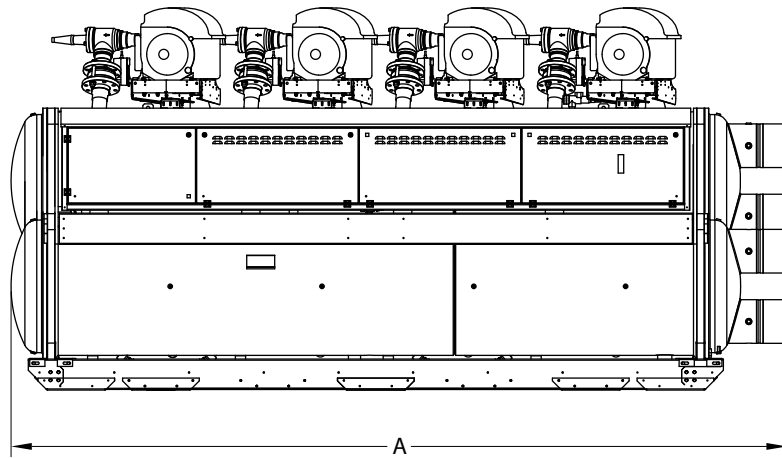
■ Eurovent Certified Data

Notes: 1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30.00°C/35.00°C. 2. Plant (side) exchanger hot water temperature (in/out) 40.00°C/45.00°C; Source (side) exchanger water temperature(in/out) 10.00°C/6.71°C (or the maximum calculated temperature coming from the maximum flow rate allowed). 3. Values in compliance with EN14511. 4. Unit performance with inverter compressor at maximum speeds. 5. Unit performance with inverter compressor at nominal speed. 6. Parameter calculated according to [Regulation (EU) N. 2016/2281]. 7. Data valid for standard units without any additional options and only indicative. Safety values to be considered when cabling the unit for power supply and line-protection. Refer to databook. 8. Theoretical - refer to serial plate for actual charge volumes. 9. Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level. 10. Sound power level in cooling, indoors, on the basis of measurement taken in compliance with ISO 9614. 11. Unit in standard configuration, without option accessories.

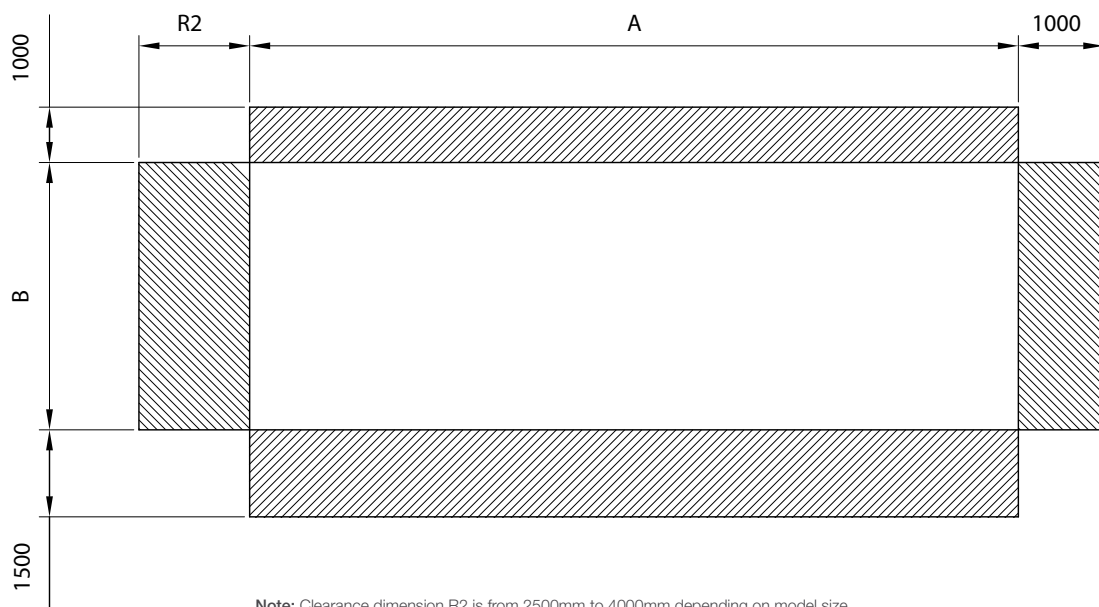
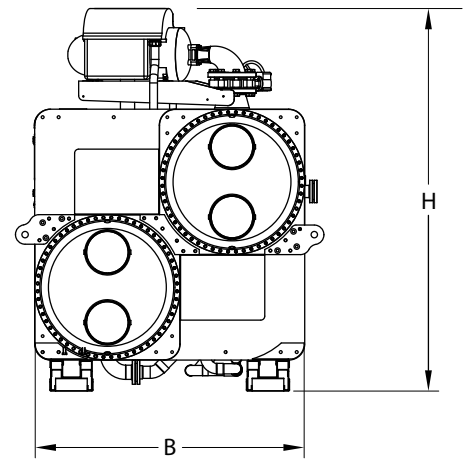
TX2-W-G04 /H DIMENSIONS AND CLEARANCES

All dimensions are in millimetres.

SIDE VIEW

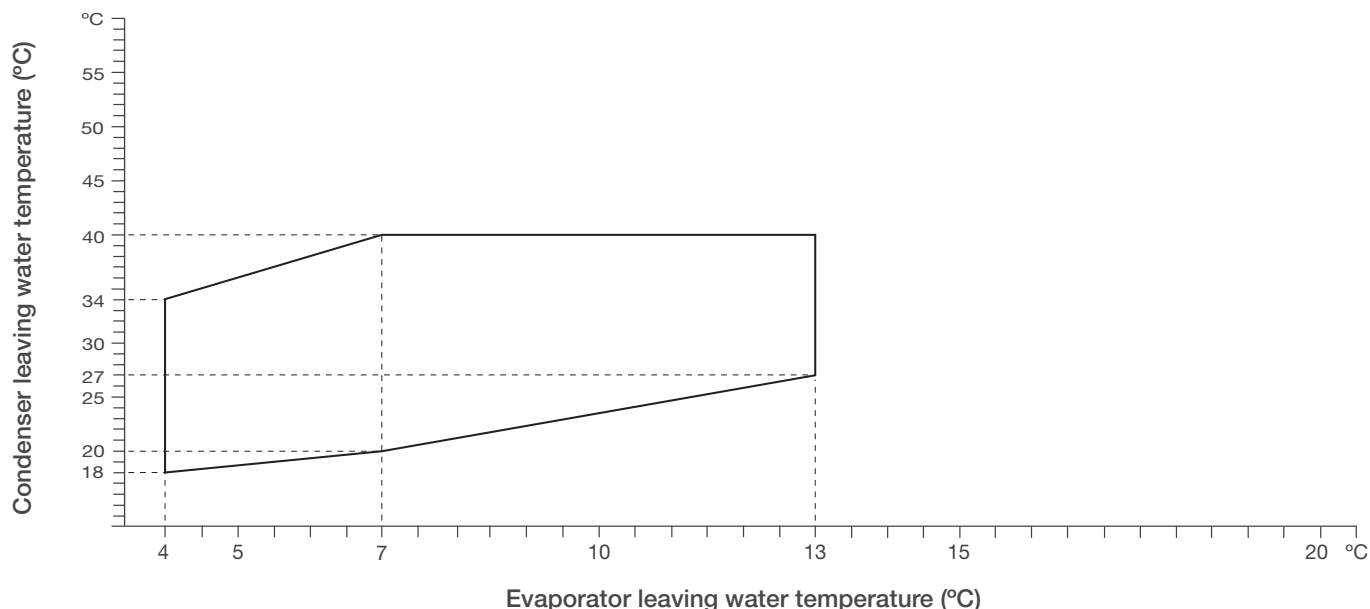


FRONT VIEW



Note: Clearance dimension R2 is from 2500mm to 4000mm depending on model size.

TX2-W-G04 /H OPERATING ENVELOPES



Note: Operating envelopes shown are indicative and should not be used for design. Equipment to be used in low or negative ambient temperatures must be fitted with the low ambient options available. Equipment operating with low or negative evaporating leaving water temperature should use suitable type and concentration of glycol or similar. Additional installation considerations may be required at the limits of the operating envelope. For specific recommendations and limits of each model, please contact your local sales representative.



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Note: The fuse rating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R290 (GWP:3), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R454C (GWP:149), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of February 2025

