Chiller | Product Information

MITSUBISHI ELECTRIC

TX2-W-G04

Water Sourced Chiller with Inverter Centrifugal Compressors

The Climaveneta **TX2-W-G04** is a high performance water sourced chiller optimised for comfort 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 24 sizes ranging from 209kW to 1681kW the **TX2-W-G04** operates with best in class sound levels while having high seasonal energy efficient ratios (SEER). With its compact design the **TX2-W-G04** has class leading performance to footprint ratio allowing for simplified installation and low shipping costs.

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

R1234ze

CLIMAVENETA

Key Features & Benefits:

- Exceptional efficiency in a compact footprint
- Silent operation achieve 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 deplyed on the right or left, to fit any application.

*IPCC AR5

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TX2-W-G04			0251	0351	0421	0511	0602	0702	0772	0832	0872	0932	1022	1103
Performance - Heating Only (Gross Value) *1														
Total Heating Capacity		kW	254.7	354.0	408.4	522.2	611.0	709.2	759.0	813.0	874.7	922.4	1041.0	1099.0
Total Power Input		kW	49.3	64.9	73.5	109.3	114.0	131.2	139.0	148.5	174.7	179.4	218.9	205.5
COP		kW/kW	5.17	5.46	5.56	4.78	5.36	5.41	5.46	5.48	5.01	5.14	4.76	5.35
Performance - Cooling Only *1*2														
Total Cooling Capacity		kW	209.3	299.8	353.0	425.2	511.6	601.6	653.7	708.9	725.4	777.5	950.5	947.9
Total Power Input		kW/kW	36.9	51.9	58.6	70.4	87.2	1,039.0	110.6	121.0	123.4	130.7	142.2	164.0
EER			5.67	5.78	6.02	6.04	5.87	5.79	5.91	5.86	5.88	5.95	5.98	5.78
Seasonal Performance - Ambient Refrigeration *3														
Prated,c		kW	209.3	299.8	353.0	425.2	511.6	601.6	653.7	708.9	725.4	777.5	950.5	947.9
SEER			8.99	9.15	9.50	9.77	9.36	9.25	9.38	9.55	9.53	9.83	10.02	9.22
Electrical Data														
Power Supply		V/ph/Hz	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.*4	Total	A	117	165	137	231	282	330	302	274	396	368	462	467
Exchangers														
Minimum Water Flow in Cooling *1	Evaporator	l/s	7.08	7.08	13.89	16.67	18.61	16.67	20.00	22.50	20.00	25.00	28.89	30.56
Heat Exchanger in Cooling *1														
Pressure Drop at Heat Exchanger	User Side	kPa	38.40	74.30	27.30	31.00	32.60	57.20	43.50	41.00	57.80	43.60	38.60	38.00
Water Flow	User Side	l/s	12.18	16.93	19.53	24.97	29.22	33.91	36.30	38.89	41.83	44.11	49.80	52.56
Pressure Drop at Heat Exchanger	Source Side	kPa	37.00	37.90	26.50	32.80	34.80	46.80	36.30	41.70	40.10	39.60	38.70	36.10
Water Flow	Source Side	l/s	14.48	19.97	22.97	30.07	34.55	40.05	42.80	45.85	49.98	52.49	60.00	62.18
Refrigerant Circuit														
Compressors		No.	1	1	1	1	2	2	2	2	2	2	2	3
Circuits		No.	1	1	1	1	1	1	1	1	1	1	1	1
Refrigerant Charge *5		kg	140	192	192	177	237	247	466	349	358	334	310	613
Noise Levels														
Total Sound Pressure *6		dB(A)	75	76	77	78	76	77	77	78	78	78	79	79
Total Sound Power Level in Cooling *7		dB(A)	93	94	95	96	95	96	96	97	97	97	98	98
Size and Weight *8														
Width (A)		mm	2910	2910	2910	2910	2910	2910	3050	3050	3050	3050	3050	3710
Depth (B)		mm	1000	1000	1000	1000	1560	1560	1620	1620	1620	1620	1620	1710
Height (H)		mm	1950	1950	1950	1950	2190	2190	2190	2190	2190	2190	2190	2260
Operation Weight		kg	2280	2430	2580	2630	3780	3010	4860	4840	4880	4940	4910	7060

Eurovent Certified Data

Notes: 1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C. 2. Values in compliance with EN14511. 3. Parameter calculated according to [Regulation (EU) N. 2016/2281]. 4. 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. 5. Theoretical - refer to serial plate for actual charge volumes. 6. 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. 7. Sound power level in cooling, indoors, on the basis of measurement taken in compliance with ISO 9614. 8. Unit in standard configuration, without option accessories.

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TX2-W-G04			1203	1314	1363	1404	1463	1553	1584	1684	1784	1914	1984	2064
Performance - Heating Only (Gross Value) *1														
Total Heating Capacity		kW	1208.0	1319.0	1383.0	1421.0	1450.0	1557.0	1587.0	1642.0	1755.0	1924.0	1969.0	2069.0
Total Power Input		kW	242.2	235.5	290.8	249.6	271.8	302.3	288.8	290.9	317.2	364.6	371.2	408.3
COP		kW/kW	4.99	5.60	4.76	5.69	5.34	5.15	5.50	5.65	5.53	5.28	5.30	5.07
Performance - Cooling Only *1*2														
Total Cooling Capacity		kW	1,016.0	1,108.0	1,146.0	1,197.0	1,202.0	1,264.0	1,319.0	1,415.0	1,489.0	1,571.0	1,624.0	1,681.0
Total Power Input		kW/kW	176.7	182.5	196.6	195.3	194.2	203.9	216.9	233.1	242.5	253.8	261.5	272.9
EER			5.75	6.07	5.83	6.13	6.19	6.20	6.08	6.07	6.14	6.19	6.21	6.16
Seasonal Performance - Ambient Refrigeration *3														
Prated,c		kW	1016.0	1108.0	1146.0	1197.0	1202.0	1264.0	1319.0	1415.0	1489.0	1571.0	1624.0	1681.0
SEER			9.33	9.50	9.31	9.65	10.08	10.16	9.54	9.77	9.75	9.83	10.15	10.13
Electrical Data														
Power Supply		V/ph/Hz	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.*4	Total	A	561	612	627	660	599	693	726	548	642	858	830	924
Exchangers														
Minimum Water Flow in Cooling *1	Evaporator	l/s	27.22	33.89	38.33	33.89	40.28	43.06	33.89	45.56	47.22	53.89	53.89	53.89
Heat Exchanger in Cooling *1														
Pressure Drop at Heat Exchanger	User Side	kPa	58.40	45.40	38.00	52.70	39.30	38.80	65.70	39.90	42.00	39.50	41.40	45.70
Water Flow	User Side	l/s	57.78	63.10	66.13	67.96	69.36	74.44	75.89	78.50	83.94	92.02	94.17	98.96
Pressure Drop at Heat Exchanger	Source Side	kPa	34.60	35.60	38.70	35.40	39.30	39.60	44.50	47.30	39.20	43.20	37.10	37.90
Water Flow	Source Side	l/s	69.08	74.13	79.69	79.66	82.08	88.57	89.41	92.14	98.80	109.10	111.50	118.00
Refrigerant Circuit														
Compressors		No.	3	4	3	4	3	3	4	4	4	4	4	4
Circuits		No.	1	1	1	1	1	1	1	1	1	1	1	1
Refrigerant Charge *5		kg	624	730	565	1036	643	617	1036	963	940	890	881	876
Noise Levels														
Total Sound Pressure *6		dB(A)	79	78	80	78	79	79	79	79	97	80	80	80
Total Sound Power Level in Cooling *7		dB(A)	98	98	99	98	99	99	99	99	99	100	100	100
Size and Weight *8														
Width (A)		mm	3710	4690	3710	4690	4690	4690	4720	4720	4720	4720	4720	4720
Depth (B)		mm	1710	1660	1710	1890	1660	1660	1890	1890	1890	1890	1890	1890
Height (H)		mm	2260	2260	2260	2400	2260	2260	2400	2400	2400	2400	2400	2400
Operation Weight		kg	7060	8520	7040	9760	7850	7950	9760	9890	10000	10130	10220	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°C/35°C. 2. Values in compliance with EN14511. 3. Parameter calculated according to [Regulation (EU) N. 2016/2281]. 4. 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. 5. Theoretical - refer to serial plate for actual charge volumes. 6. 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. 7. Sound power level in cooling, indoors, on the basis of measurement taken in compliance with ISO 9614. 8. Unit in standard configuration, without option accessories.

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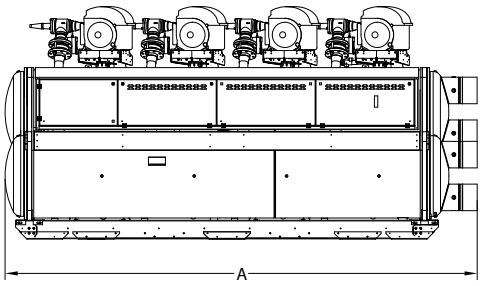
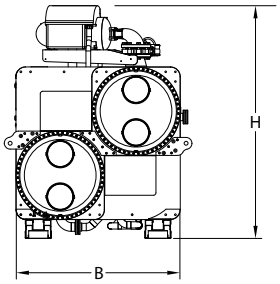
TX2-W-G04 DIMENSIONS AND CLEARANCES

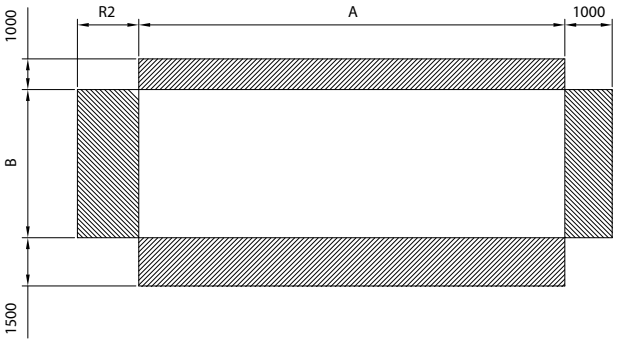
All dimensions are in millimetres.

SIDE VIEW



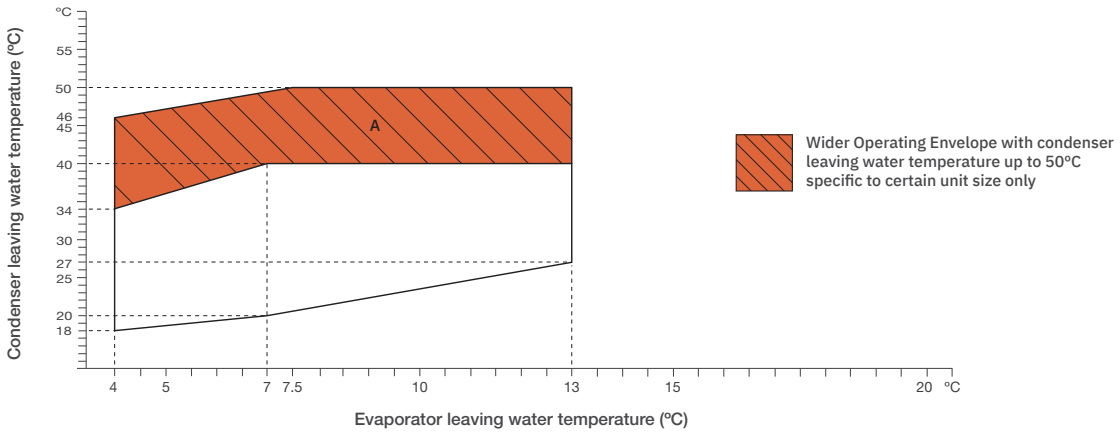
FRONT VIEW





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

TX2-W-G04 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.

MITSUBISHI ELECTRIC
Changes for the Better

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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:148), 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

Green Gateway greengateway.mitsubishielectric.co.uk