MITSUBISHI ELECTRIC

NX2-W-G06-H

Water-to-Water Heat Pump
Reversible on the Hydraulic Side

Designed to accommodate a variety of applications, Climaveneta's **NX2-W-G06-H** is a compact and flexible water-to-water heat pump, which is reversible on the hydraulic side.

With exceptionally high performance, particularly at part load conditions, the range provide a SEER*1 of up to 7.37 and a SCOP LT*2 of up to 7.13. Whilst using the low GWP refrigerant R454B (GWP 466) for reduced environmental impact, the range incorporates several safety features to mitigate the associated risks of using a lower flammability A2L refrigerant. Complete with advance in-built controls and a compact footprint, the NX2-W-G06-H compliments your decarbonising portfolio.

1. Regulation (EU) No. 2016/2281
2. Regulation (EU) No. 813/2013

Key Features & Benefits:

- Exceptional SEER and SCOP performance
- Rotary Scroll compressors with IDV technology
- Up to 60°C supply water temperature
- Advanced decentralised control options (MultiManager)
- Low GWP R454B refrigerant
- Inbuilt safety equipment for an A2L refrigerant
- Compatible with Variable Primary Flow (VPF)
- Compact design

CLIMAVENETA SUSTAINABLE COMFORT

R454B

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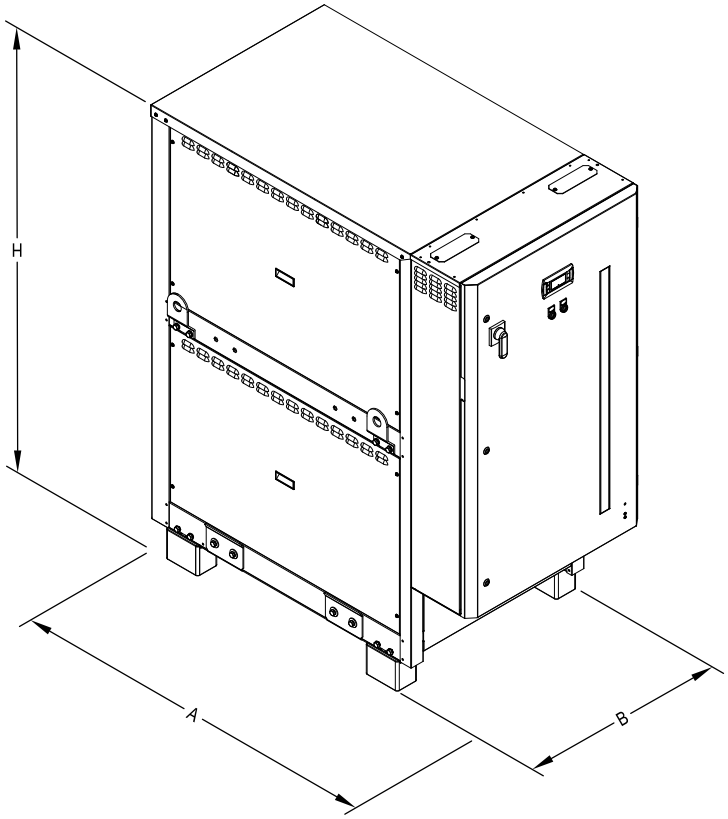
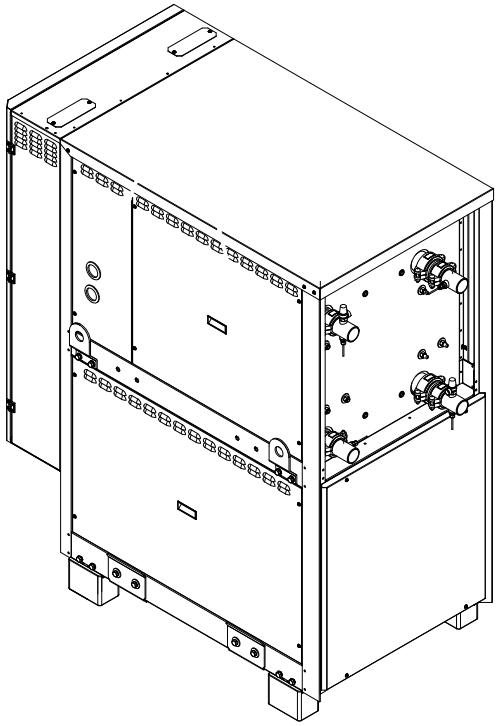
MODEL			0042	0052	0062	0072	0082	0092	0112	0122	0142	0162	0182	0202	0222	0242
Performance - Heating Only																
Gross Value[*1]																
Total Heating Capacity		kW	53.5	62.6	73.4	83.3	92.6	105.4	121.3	136.8	158.9	176.7	207.4	222.9	244.9	275.6
Total Power Input		kW	12.5	14.3	16.5	18.6	20.6	23.7	27.2	30.3	35.5	39.7	45.6	48.8	53.9	59.9
COP		kW/kW	4.28	4.38	4.45	4.48	4.50	4.45	4.46	4.52	4.48	4.45	4.55	4.57	4.54	4.60
EN14511 Values[*1 *2]																
Total Heat Capacity		kW	53.6	62.7	73.5	83.5	92.7	105.5	121.5	136.9	159.1	176.9	207.6	223.2	245.3	275.9
COP		kW/kW	4.04	4.12	4.23	4.25	4.32	4.28	4.29	4.35	4.31	4.28	4.35	4.39	4.34	4.36
Seasonal Performance - Low Temperature[*3]																
Rated heat output at Tdesignh		kW	63	74	87	99	110	125	144	163	189	210	247	265	291	325
SCOP			6.29	6.51	6.74	6.71	6.87	6.89	6.83	6.83	6.83	6.78	6.81	6.81	7.13	6.61
Performance η_s		%	243	254	262	261	267	268	265	265	265	263	264	264	277	256
Seasonal Performance - Medium Temperature[*4]																
Rated heat output at Tdesignh			59	69	80	91	101	115	133	150	175	194	227	244	269	302
SCOP			4.48	4.64	4.76	4.78	4.97	4.93	4.93	4.93	4.94	4.86	4.89	4.97	5.14	4.84
Performance η_s		%	171	178	182	183	191	189	189	189	190	186	188	191	197	186
Performance - Cooling Only																
Gross Value[*5]																
Total Cooling Capacity		kW	45.84	53.92	64.85	73.47	82.96	94.45	108.5	122.6	142.0	157.2	184.6	200.2	217.8	242.1
Total Power Input		kW	10.04	11.34	13.18	14.94	16.13	18.48	21.38	23.89	27.78	31.48	36.25	38.67	42.78	48.13
EER		kW/kW	4.58	4.77	4.91	4.93	5.16	5.10	5.70	5.13	5.11	4.99	5.10	5.17	5.09	5.03
EN14511 Values[*5 *2]																
Total Cooling Capacity		kW	45.7	53.8	64.7	73.3	82.8	94.3	108.3	122.4	141.7	156.9	184.3	199.8	217.4	241.7
EER		kW/kW	4.39	4.56	4.74	4.72	5.00	4.97	4.93	4.98	4.96	4.83	4.92	5.00	4.91	4.84
Seasonal Performance[*6]																
Prated,c		kW	45.7	53.8	64.7	73.3	82.8	94.3	108.3	122.4	141.7	156.9	184.3	199.8	217.4	241.7
SEER			6.31	6.63	7.01	7.04	7.18	7.41	6.97	7.09	7.2	7.02	7.22	7.17	7.13	6.8
Performance η_s		%	250	262	278	279	284	293	276	281	285	278	286	284	282	269
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	400/3/50	400/3/50
F.L.A.[*7]	Total	A	32	37	42	48	53	59	68	76	91	99	113	121	135	149
Exchangers																
Minimum Water Flow	Evaporator	l/s	1.333	1.583	1.917	2.167	2.444	2.806	3.222	3.639	4.222	4.667	5.472	5.944	6.472	7.194
Minimum Water Content	User Side	l	180	240	313	350	339	472	466	574	712	712	929	921	940	926
Minimum Water Flow	Condensor	l/s	1.056	1.222	1.472	1.667	1.889	2.139	2.472	2.778	3.250	3.611	4.222	4.556	4.972	5.556
Heat Exchanger in Heating[*1]																
Water Flow	User Side	l/s	2.584	3.022	3.542	4.021	4.471	5.087	5.857	6.602	7.671	8.529	10.01	10.76	11.82	13.3
Pressure Drop[*2]	User Side	kPa	25.3	25.2	29	34.4	15.3	15.2	15.7	16.3	17	20.7	21.4	22.7	23.5	29.6
Water Flow	Source Side	l/s	3.331	3.92	4.609	5.243	5.837	6.622	7.632	8.631	10	11.11	13.1	14.11	15.48	17.47
Pressure Drop[*2]	Source Side	kPa	84.1	91.1	55.8	55.3	54.3	54.2	59.4	60.1	61.2	62	71.2	63.4	75.7	94.6
Heat Exchanger User Side in Cooling[*5]																
Water Flow	User Side	l/s	2.192	2.579	3.101	3.513	3.967	4.517	5.188	5.865	6.788	7.519	8.83	9.572	10.41	11.58
Pressure Drop[*2]	User Side	kPa	36.4	39.4	25.3	24.8	25.1	25.2	27.4	27.7	28.2	28.4	32.3	29.2	34.3	41.5
Water Flow	Source Side	l/s	2.66	3.107	3.716	4.21	4.721	5.38	6.186	6.981	8.086	8.988	10.52	11.38	12.41	13.82
Pressure Drop[*2]	Source Side	kPa	26.8	26.6	32	37.7	17.1	17	17.5	18.3	18.9	23	23.7	25.3	26	31.9
Refrigerant Circuit																
Compressors		No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Capacity Steps		No.	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Circuits		No.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Regulation			STEP	STEP	STEP	STEP	STEP	STEP	STEP	STEP	STEP	STEP	STEP	STEP	STEP	STEP
Minimum Capacity Step		%	48	42	35	31	43	33	42	37	32	39	33	37	44	49
Refrigerant			R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B	R454B
Refrigerant Charge[*8]		kg	3.4	4.7	5.0	6.0	7.2	8.6	9.9	11.3	12.5	13.3	16.3	19.3	19.7	19.8
Oil Charge			6.0	6.3	6.3	6.9	6.9	9.4	9.7	9.7	9.7	12.2	12.2	12.2	12.2	12.2
RC (ASHRAE)[*9]		kg/kW	0.08	0.09	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.08
Noise Levels																
Total Sound Pressure[*10]		dB(A)	57	58	59	61	61	63	63	63	69	70	70	70	72	72
Total Sound Power Level in Cooling[*11]		dB(A)	73	74	75	77	77	80	80	80	86	87	87	87	89	89
Total Sound Power Level in Heating[*11]		dB(A)	74	75	76	78	78	81	81	81	87	88	88	88	90	90
Size and Weight[*12]																
Length (A)		mm	1320	1320	1320	1320	1320	1640	1640	1640	1640	1640	1640	1640	1640	1640
Width (B)		mm	885	885	885	885	885	885	885	885	885	885	885	885	885	885
Height (H)		mm	1495	1495	1495	1495	1495	1805	1805	1805	1805	1805	1805	1805	1805	1805
Operation Weight		kg	470	490	510	530	560	670	690	700	770	820	860	890	960	970

Eurovent Certified Data

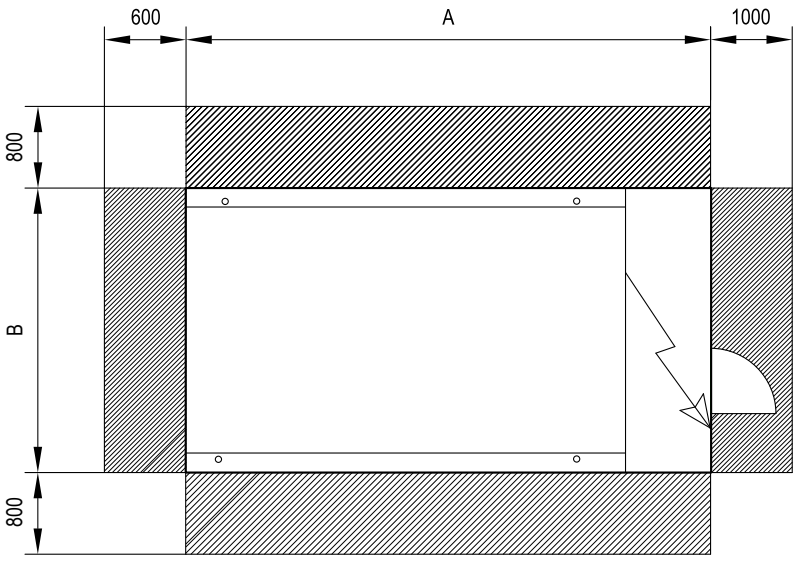
Notes: 1. User side exchanger hot water temperature (in/out) 40°C/45°C; Source side exchanger water temperature (in/out) 10°C / 7°C (or maximum calculated temperature coming from the maximum flow rate allowed). 2. Values in compliance with EN14511. 3. Seasonal space heating energy efficiency class Low Temperature [Regulation (EU) N. 813/2013]. Average Weather Conditions. Type of calculation with variable flow and variable temperature. 4. Seasonal space heating energy efficiency class Medium Temperature [Regulation (EU) N. 813/2013]. Average Weather Conditions. Type of calculation with variable flow and variable temperature. 5. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C. 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. Rate in accordance with AHRI standard 550/590. 10. Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level. 11. Sound power on the basis of measurement taken in compliance with ISO 9614. 12. Unit in standard configuration, without option accessories.

NX2-W-G06-H DIMENSIONS

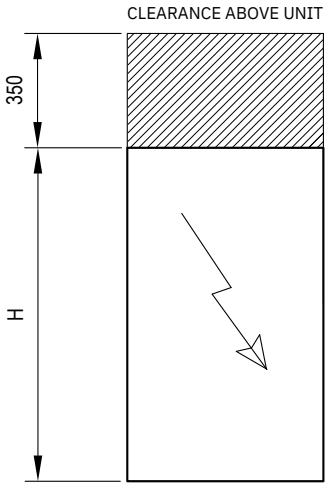




TOP VIEW



FRONT VIEW



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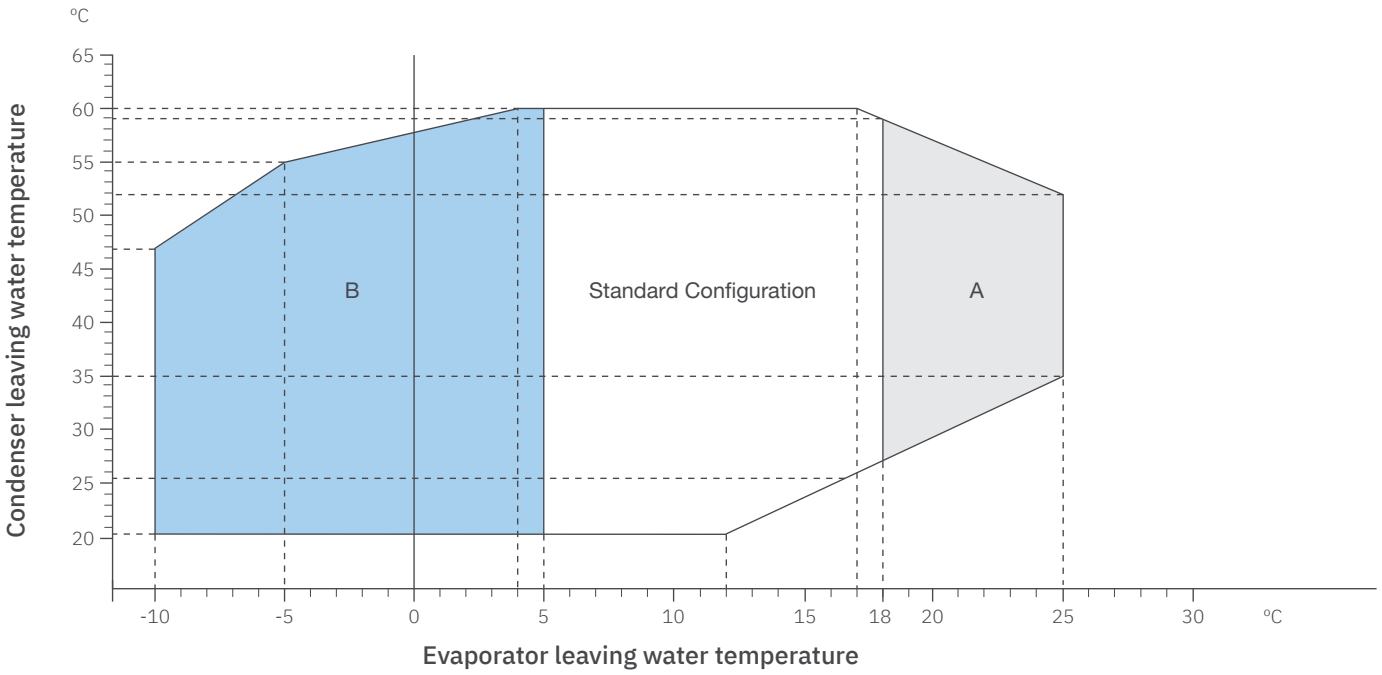
OPERATING ENVELOPES



	Standard Configuration
A	Option required for >18°C Evaporator Leaving Water Temperature
B	Option required for <5°C Evaporator Leaving Water Temperature. Glycol is mandatory for this operation.

MITSUBISHI ELECTRIC
Changes for the Better

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Note: Refer to 'Installation Manual' and 'Instruction Book' for further 'Technical Information'. 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), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), 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 October 2023

Green Gateway greengateway.mitsubishielectric.co.uk