

i-NX-N

Air Source Heat Pump

Designed for medium capacity LTHW commercial applications, our Climaveneta range of i-NX-N heat pumps include the exclusive 1 + i compressor philosophy.

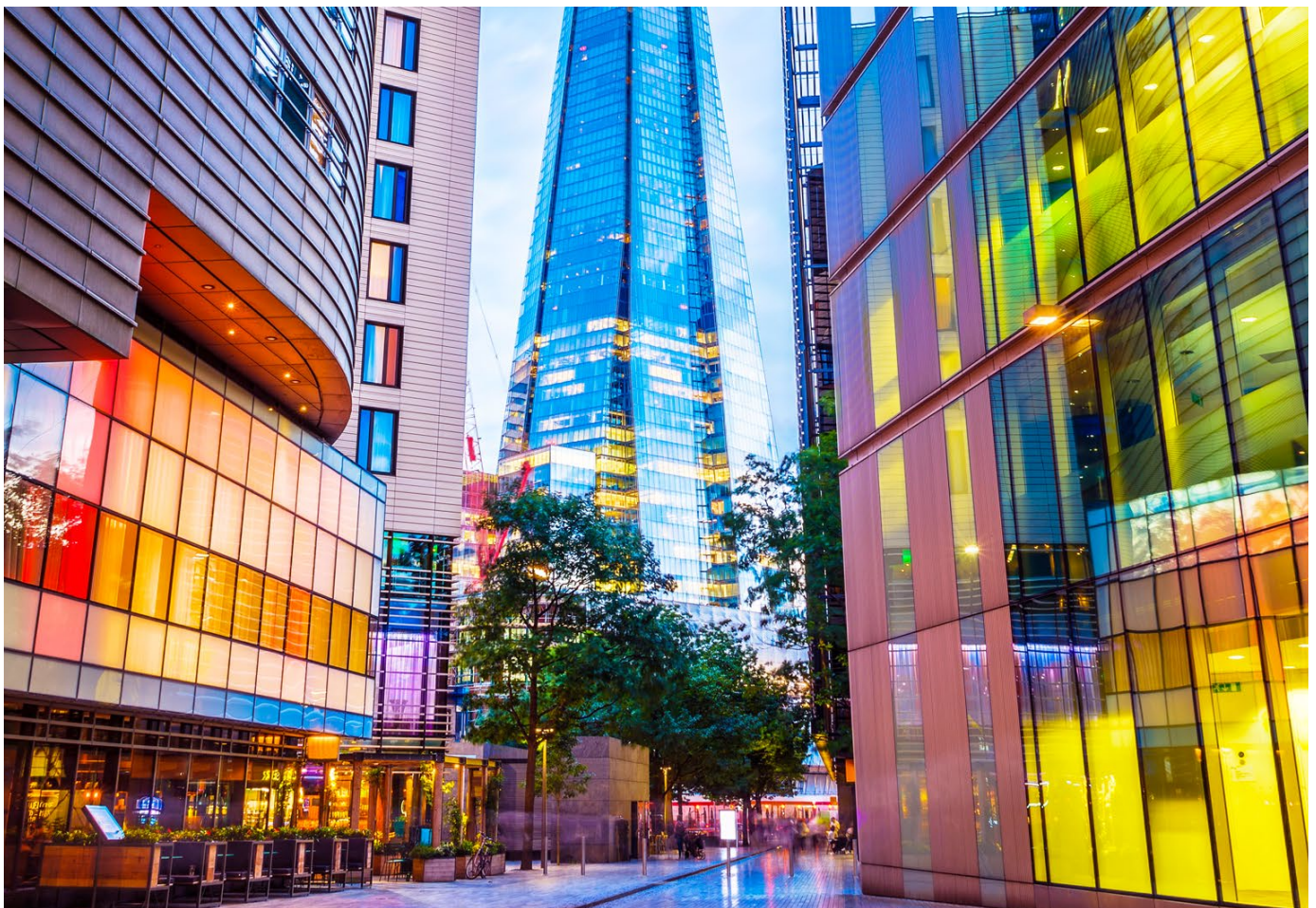
Both the fixed speed scroll compressor and the scroll inverter compressor are combined in the same circuit. This technology ensures maximum benefit in terms of efficiency at partial loads compared to a solution with separate circuits.



Key Features & Benefits:

- Inverter compressor technology
- Simplified installation
- Super silent operation
- Extensive options

1+i Philosophy



i-NX-N Air Source Heat Pump



MODEL		0151P	0182P	0202P	0262P	0302P	0352P	0402P	0502P
Power Supply	V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling Capacity ¹	kW	43.87	50.9	62.09	74.4	85.27	104.7	113.8	128.3
Total Power Input ¹	kW	15.79	18.34	22.11	26.13	30.4	37.39	41.1	46.15
EER ¹	kW/kW	2.78	2.78	2.81	2.85	2.81	2.8	2.77	2.78
ESEER ¹	kW/kW	4.27	4.3	4.14	4.35	4.26	4.45	4.38	4.47
COOLING ONLY (EN14511 VALUE)									
Cooling Capacity ^{1,2}	kW	43.6	50.6	61.7	74	84.9	104.2	113.3	127.7
EER ^{1,2}	kW/kW	2.71	2.72	2.75	2.79	2.75	2.75	2.72	2.74
ESEER ^{1,2}	kW/kW	4	4	3.86	4.06	4.01	4.16	4.1	4.2
Cooling Energy Class		C	C	C	C	C	C	C	C
HEATING ONLY (GROSS VALUE)									
Total Heating Capacity ³	kW	46.8	53.82	66.6	79.72	90.6	111.6	119.5	138
Total Power Input ³	kW	14.85	17.09	21.08	24.83	28.81	35.54	37.97	42.95
COP ³	kW/kW	3.14	3.15	3.16	3.21	3.15	3.14	3.15	3.21
HEATING ONLY (EN14511 VALUE)									
Total Heating Capacity ^{3,2}	kW	47.1	54.1	67	80.2	91.1	112.2	120.1	138.7
COP ^{3,2}	kW/kW	3.1	3.1	3.11	3.17	3.11	3.11	3.11	3.17
Cooling Energy Class		B	B	B	B	B	B	B	B
HEATING ONLY (EN14825 VALUE - AVERAGE CLIMATE)									
Rated Heating Capacity at Tdesign,h ^{11,12}	kW	35	41	46	61	69	85	85	106
Bivalent Temperature ^{11,12}	°C	-6	-7	-7	-7	-7	-7	-7	-7
SCOP ^{11,12}	kW/kW	3.73	3.8	3.68	3.83	3.84	4.02	3.98	3.97
Seasonal Space Heating Energy Efficiency ^{11,12}	%	146	149	144	150	151	158	156	156
Seasonal Space Heating Energy Efficiency Class ^{11,12}		A+	A+	A+	A++	A++	-	-	-
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN COOLING									
Water Flow ¹	l/s	2.1	2.43	2.97	3.56	4.08	5.01	5.44	6.14
Pressure Drop ¹	kPa	37.2	38.2	40.9	42	36.2	39.0	38.8	38.4
HEAT EXCHANGER USER SIDE IN HEATING									
Water Flow ³	l/s	2.26	2.6	3.22	3.85	4.37	5.39	5.77	6.66
Pressure Drop ³	kPa	43.1	43.6	48	49.1	41.6	45.1	43.6	45.2
PARTIAL RECOVERY USER SIDE IN REFRIGERATION									
Water Flow ⁴	l/s	0.63	0.74	0.88	1.05	1.14	1.44	1.6	1.83
Pressure Drop ⁴	kPa	9.05	12.5	17.5	12.4	14.6	23.4	20.3	26.6
REFRIGERANT CIRCUIT									
Compressors	No.	1	2	2	2	2	2	2	2
No. Circuits	No.	1	1	1	1	1	1	1	1
Regulation		STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant Charge	kg	14.4	19.5	22.9	27.1	26.8	38.7	39.2	50.9
Oil Charge	kg	3.9	6.8	7.1	7.4	7.9	13.9	14.1	14.5
Rc (ASHRAE) ⁵	kg/kW	0.33	0.39	0.37	0.37	0.32	0.37	0.35	0.4
FANS									
Quantity	No.	4	4	6	6	2	2	2	2
Air Flow	m ³ /s	5.28	5.15	7.95	7.76	11.89	11.65	11.65	12.9
Fans Power Input	kW	0.3	0.3	0.3	0.3	2	2	2	1.84
NOISE LEVEL									
Sound Pressure ⁶	dB(A)	66	66	68	69	68	70	70	70
Sound Power Level in Cooling ^{7,8}	dB(A)	84	84	86	87	87	89	89	89
Sound Power Level in Heating ^{7,9}	dB(A)	84	84	85	86	87	89	89	89
DIMENSIONS AND WEIGHT									
L ¹⁰	mm	2000	2000	2625	2625	3250	3250	3250	3875
W ¹⁰	mm	1350	1350	1350	1350	1350	1350	1350	1350
H ¹⁰	mm	2070	2070	2070	2070	2170	2170	2170	2170
Operating Weight ¹⁰	kg	650	730	820	880	1030	1190	1210	1340

1. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Source (side) heat exchanger air (in) 35.0°C.
 2. Values in compliance with EN14511.
 3. Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C; Source (side) heat exchanger air (in) 7.0°C - 87% R.H.
 4. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C.
 5. Rated in accordance with AHRI Standard 550/590.
 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. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
 8. Seasonal energy efficiency ratio.
 9. Seasonal space cooling energy efficiency.
 10. Sound power on the basis of measurements made in compliance with ISO 9614.
 11. Sound power level in cooling, outdoors.
 12. Sound power level in heating, outdoors.
 13. Unit in standard configuration/execution, without optional accessories.
 - Not available

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Low Noise Version



MODEL		0151P	0182P	0202P	0262P	0302P	0352P	0402P	0502P
Power Supply	V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling Capacity ¹	kW	40.96	48.39	59.3	72.4	81.36	98.56	111.7	125.7
Total Power Input ¹	kW	14.76	17.3	21.37	25.36	28.32	35.56	40.19	43.83
EER ¹	kW/kW	2.77	2.8	2.77	2.85	2.88	2.77	2.78	2.87
ESEER ¹	kW/kW	4.36	4.3	4.23	4.38	4.45	4.5	4.58	4.52
COOLING ONLY (EN14511 VALUE)									
Cooling Capacity ^{1,2}	kW	40.8	48.1	59	72	81	98.2	111.2	125.1
EER ^{1,2}	kW/kW	2.71	2.74	2.71	2.79	2.83	2.72	2.73	2.82
ESEER ^{1,2}	kW/kW	4.11	4.02	3.97	4.08	4.18	4.25	4.32	4.25
Cooling Energy Class		C	C	C	C	C	C	C	C
HEATING ONLY (GROSS VALUE)									
Total Heating Capacity ³	kW	45.67	54.94	66.62	81.4	90.4	110.8	124.4	139.5
Total Power Input ³	kW	13.89	16.82	20.35	24.94	27.68	33.96	38.08	42.74
COP ³	kW/kW	3	3	3	3	3	3	3	3
HEATING ONLY (EN14511 VALUE)									
Total Heating Capacity ^{3,2}	kW	46	55.3	67	81.9	90.9	111.4	125.1	140.2
COP ^{3,2}	kW/kW	3.24	3.22	3.23	3.22	3.23	3.22	3.23	3.23
Cooling Energy Class		A	A	A	A	A	A	A	A
HEATING ONLY (EN14825 VALUE - AVERAGE CLIMATE)									
Rated Heating Capacity at Tdesign,h ^{11,12}	kW	34	41	50	57	68	77	94	105
Bivalent Temperature ^{11,12}	°C	-7	-7	-7	-7	-7	-7	-7	-7
SCOP ^{11,12}	kW/kW	3.77	3.77	3.68	3.82	3.96	3.93	4.02	4.04
Seasonal Space Heating Energy Efficiency ^{11,12}	%	148	148	144	150	155	154	158	158
Seasonal Space Heating Energy Efficiency Class ^{11,12}		A+	A+	A+	A++	A++	-	-	-
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN COOLING									
Water Flow ¹	l/s	1.96	2.31	2.84	3.46	3.89	4.71	5.34	6.01
Pressure Drop ¹	kPa	32.4	34.6	37.3	39.8	33	34.6	37.3	36.8
HEAT EXCHANGER USER SIDE IN HEATING									
Water Flow ³	l/s	2.21	2.65	3.22	3.93	4.36	5.35	6	6.73
Pressure Drop ³	kPa	41.1	45.4	48	51.2	41.5	44.5	47.2	46.2
PARTIAL RECOVERY USER SIDE IN REFRIGERATION									
Water Flow ⁴	l/s	0.6	0.7	0.87	1	1.13	1.43	1.63	1.75
Pressure Drop ⁴	kPa	8.29	11.3	17.3	11.2	14.3	23.2	21.2	24.2
REFRIGERANT CIRCUIT									
Compressors	No.	1	2	2	2	2	2	2	2
Number of Capacity Steps	No.	0	0	0	0	0	0	0	0
No. Circuits	No.	1	1	1	1	1	1	1	1
Regulation		STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant Charge	kg	18.8	25.4	26.2	26.6	37.6	37	49.9	61
Oil Charge	kg	3.9	6.8	7.1	7.4	7.9	13.9	14.1	14.5
Rc (ASHRAE) ⁵	kg/kW	0.46	0.53	0.45	0.37	0.47	0.38	0.45	0.49
FANS									
Quantity	No.	4	5	6	2	2	2	2	3
Air Flow	m ³ /s	3.87	5.10	5.89	8.82	8.59	10.89	10.62	12.96
Fans Power Input	kW	0.2	0.2	0.2	1.1	1.1	1.15	1.15	1.1
NOISE LEVEL									
Sound Pressure ⁶	dB(A)	60	60	61	61	61	63	63	63
Sound Power Level in Cooling ^{7,8}	dB(A)	78	78	79	80	80	82	82	82
Sound Power Level in Heating ^{7,9}	dB(A)	78	78	79	80	80	82	82	82
DIMENSIONS AND WEIGHT									
L ¹⁰	mm	2000	2625	2625	3250	3250	3875	3875	4500
W ¹⁰	mm	1350	1350	1350	1350	1350	1350	1350	1350
H ¹⁰	mm	2070	2070	2070	2170	2170	2170	2170	2170
Operating Weight ¹⁰	kg	670	830	860	1010	1080	1260	1320	1460

1. Plant (side) cooling exchanger water (in/out) 12.00°C/7.00°C; Source (side) heat exchanger air (in) 35.0°C.
 2. Values in compliance with EN14511.
 3. Plant (side) heat exchanger water (in/out) 40.00°C/45.00°C; Source (side) heat exchanger air (in) 7.0°C - 87% R.H.
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 8. Seasonal energy efficiency ratio.
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 10. Sound power on the basis of measurements made in compliance with ISO 9614.
 11. Sound power level in cooling, outdoors.
 12. Sound power level in heating, outdoors.
 13. Unit in standard configuration/execution, without optional accessories.
 - Not available



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Note: The fuse rating is for guidance only. 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 June 2021

