i-NX-Q Air Cooled, 4 Pipe Chillers - Low Noise version

(45-139kW) Heat Pump - Three Phase

Climaveneta's range of small to medium sized i-NX-Q chillers are designed to produce chilled and hot water simultaneously and efficiently using variable frequency drive compressors. The super low noise variant offers up to a **7dB(A) reduction** against the baseline model.

CLIMAVENETA
SUSTAINABLE COMFORT

The unit combines two variable speed scroll compressors in two separate refrigerant circuits. The full inverter solution applied on two separate refrigerant circuits ensures maximum reliability and total versatility, matching the thermal load request constantly and with maximum precision, while minimising energy consumption.

Key Features:

- Simultaneous production of chilled water and hot water
- Two inverter scroll compressors
- Wide operating range
- ErP 2021 compliant
- Available with EC fans
- Available with factory installed pumps

Chillers | **Product Information**

CLIMAVENETA
SUSTAINABLE COMFORT

i-NX-Q SL Air Cooled, 4 Pipe Chiller - Low Noise Version (45-139kW) Heat Pump - Three Phase

MODEL		i-NX-Q SL 0152P	i-NX-Q SL 0182P	i-NX-Q SL 0202P	i-NX-Q SL 0252P	i-NX-Q SL 0262P	i-NX-Q SL 0302P	i-NX-Q SL 0352P	i-NX-Q SL 0402P	i-NX-Q SL 0502P	i-NX-Q SL 0552P
POWER SUPPLY	V/ph/Hz	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50
PERFORMANCE											
COOLING ONLY (EN14511 VALUE)											
COOLING CAPACITY *1 *2	kW	45.6	52.3	56.3	62.9	70.9	84.0	89.5	105.0	119.9	138.4
TOTAL POWER INPUT *1 *2	kW	14.12	17.26	18.7	22.71	25.97	29.27	30.86	37.37	44.08	49.78
EER *1 *2	kW/kW	3.23	3.03	3.01	2.77	2.73	2.87	2.9	2.81	2.72	2.78
HEATING ONLY (EN14511 VALUE)											
TOTAL HEATING CAPACITY *2 *3	kW	51.2	59.0	62.5	70.7	78.5	93.1	98.1	114.2	132.4	153.2
TOTAL POWER INPUT *2 *3	kW	15.19	17.82	18.38	21.49	23.22	27.63	28.43	34.09	39.4	45.33
COP *2 *3	kW/kW	3.37	3.31	3.4	3.29	3.38	3.37	3.45	3.35	3.36	3.38
COOLING WITH TOTAL HEAT RECOVERY											
COOLING CAPACITY *4	kW	46.14	53.06	57.75	65.22	75.09	84.65	94.59	109.4	126.4	145.5
TOTAL POWER INPUT *4	kW	13.78	16.52	17.25	20.42	22.95	26.96	27.75	33.52	39.5	44.93
RECOVERY HEAT EXCHANGER CAPACITY *4	kW	59.1	68.6	74.0	84.4	96.7	110.0	120.7	140.9	163.6	187.7
TER	kW/kW	7.62	7.37	7.61	7.33	7.47	7.21	7.77	7.47	7.34	7.42
SEASONAL COOLING EFFICIENCY											
P RATED CAPACITY *5	kW	45.6	52.3	56.3	62.9	70.9	84.0	89.5	105.0	119.9	138.4
SEER *5 *6	-	4.41	4.43	4.5	4.39	4.22	4.25	4.33	4.34	4.4	4.45
PERFORMANCE ηs *5 *7	%	174	174	177	173	166	167	170	170	173	175
SEASONAL HEATING EFFICIENCY *8											
RATED HEAT OUTPUT AT T DESIGN H *9 *10	Kw	37.0	43.0	45.0	52.0	59.0	70.0	74.0	79.0	97.0	115.0
SCOP *9 *10	-	3.93	3.97	3.98	4.0	3.97	4.04	4.09	4.01	4.11	4.13
SEASONAL SPACE HEATING ENERGY EFFICIENCY *9 *10	%	154	156	156	157	156	159	161	158	161	162
SEASONAL SPACE HEATING ENERGY EFFICIENCY CLASS *9 *10	-	A++	A++	A++	A++	A++	A++	-	-	-	-
HEAT EXCHANGERS											
HEAT EXCHANGER USER SIDE IN COOLING											
WATER FLOW RATE *1	l/s	2.18	2.51	2.7	3.01	3.4	4.03	4.29	5.03	5.75	6.63
PRESSURE DROP *1	kPa	26.1	34.4	22.4	27.9	23.7	33.2	27.0	34.8	35.3	35.0
HEAT EXCHANGER USER SIDE IN HEATING											
WATER FLOW RATE *3	l/s	2.47	2.84	3.01	3.4	3.78	4.48	4.72	5.5	6.38	7.38
PRESSURE DROP *3	kPa	33.2	44	27.9	35.6	29.3	41.1	32.7	41.6	43.4	43.3
REFRIGERANT CIRCUIT											
COMPRESSORS	N°	2	2	2	2	2	2	2	2	2	2
NO. CIRCUITS	N°	2	2	2	2	2	2	2	2	2	2
REFRIGERANT CHARGE R410A	kg	26.7	27.3	27.8	29.2	31.2	43.8	40.6	45.8	53.4	60.0
OIL CHARGE	kg	4.6	4.6	4.6	4.6	7.2	7.2	13.4	13.4	13.4	13.4
NOISE LEVEL											
SOUND PRESSURE *11	dB(A)	47	47	48	49	49	50	50	51	53	55
SOUND POWER LEVEL *12 *13	dB(A)	79	79	80	81	81	82	82	83	85	87
SIZE AND WEIGHT											
WIDTH (A) *14	mm	2625	2625	2625	2625	2625	3250	3250	3250	3875	4500
DEPTH (B) *14	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
HEIGHT (H) *14	mm	2070	2070	2070	2070	2070	2070	2070	2070	2070	2070
OPERATING WEIGHT *14	kg	960	960	990	990	1080	1210	1330	1440	1520	1660

*1 Plant (side) cooling heat exchanger water (in/out) 12.0°C/7.0°C; Source (side) heat exchanger air (in) 35.0°C. *2 Values in compliance with EN14511. *3 Plant (side) heating heat exchanger water (in/out) 40.0°C/45.0°C; Source (side) heat exchanger air (in) 7.0°C at 87% R.H. *4 Plant (side) cooling heat exchanger water (in/out) 12.0°C/7.0°C; Plant (side) heating heat exchanger water (in/out) 40.0°C/45.0°C. *5 Parameter calculated according to [Regulation (EU) N. 2016/2281]. *6 Seasonal energy efficiency ratio. *7 Seasonal space cooling energy efficiency. *8 Weather conditions average, bivalent temperature -7.0°C. *9 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]. *10 Calculated with variable flow rate and variable temperature. *11 Average sound pressure level at 10m distance, unit in a free field on a reflective surface; non-binding value calcuated from the sound power level. *12 Sound power on the basis of measurements made in compliance with ISO 9614. *13 Sound power level in cooling and heating, outdoors. *14 Unit in standard configuration/execution, without optional accessories.

Eurovent Certified Data

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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) or R134a (GWP:1430). *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 September 2019