4.1 GENERAL TECHNICAL DATA NX-WN

[SI System]

NX-WN			0122	0152	0182	0202	0252	0262	0302	0352	0402	0452
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
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	kW	37,5	46,7	55,0	63,9	70,8	80,5	94,6	109	123	138
Total power input	(1)	kW	7,73	9,52	11,1	12,9	14,1	16,3	19,2	22,1	24,9	28,2
EER	(1)	kW/kW	4,85	4,91	4,95	4,95	5,02	4,94	4,93	4,92	4,95	4,91
ESEER	(1)	kW/kW	6,29	6,45	6,18	6,22	6,46	6,16	6,24	6,38	6,13	6,23
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	37,4	46,6	54,8	63,7	70,6	80,3	94,4	108	123	138
EER	(1)(2)	kW/kW	4,67	4,72	4,78	4,78	4,85	4,77	4,77	4,76	4,79	4,76
ESEER	(1)(2)	kW/kW	5,80	5,95	5,73	5,78	5,99	5,73	5,83	5,90	5,77	5,81
Cooling energy class			B	B	B	B	B	B	B	B	B	B
HEATING ONLY (GROSS VALUE)												
Total heating capacity	(3)	kW	41,8	52,1	61,2	71,5	78,6	89,5	105	121	137	154
Total power input	(3)	kW	9,69	11,9	13,7	16,0	17,7	20,3	23,7	27,2	30,7	34,7
COP	(3)	kW/kW	4,31	4,38	4,47	4,47	4,44	4,41	4,44	4,44	4,45	4,44
HEATING ONLY (EN14511 VALUE)												
Total heating capacity	(3)(2)	kW	41,9	52,3	61,4	71,7	78,8	89,8	106	121	137	154
COP	(3)(2)	kW/kW	4,16	4,22	4,31	4,32	4,29	4,27	4,30	4,31	4,31	4,31
Cooling energy class			B	B	B	B	B	B	B	B	B	B
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	1,79	2,23	2,63	3,06	3,39	3,85	4,52	5,20	5,89	6,62
Pressure drop	(1)	kPa	12,3	13,1	13,3	13,7	14,1	14,6	14,7	15,5	15,7	16,2
Water flow	(1)	l/s	2,15	2,68	3,15	3,66	4,05	4,61	5,42	6,23	7,06	7,94
Pressure drop	(1)	kPa	17,7	18,9	19,1	19,7	20,1	21,0	21,1	22,2	22,5	23,3
HEAT EXCHANGER USER SIDE IN HEATING												
Water flow	(3)	l/s	2,02	2,52	2,95	3,45	3,79	4,32	5,09	5,83	6,59	7,43
Pressure drop	(3)	kPa	15,6	16,7	16,8	17,5	17,7	18,4	18,6	19,5	19,6	20,4
Water flow	(3)	l/s	2,61	3,26	3,85	4,50	4,93	5,62	6,62	7,59	8,58	9,67
Pressure drop	(3)	kPa	26,0	28,0	28,5	29,7	29,9	31,2	31,5	32,9	33,3	34,5
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	2	2	2	2
Number of capacity steps		N°	2	2	2	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1	1	1
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50	50	50	50	50	50	50
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	3,80	4,20	5,00	5,50	6,10	8,60	10,0	11,6	13,1	14,8
Oil charge		kg	3,50	3,50	5,00	5,00	6,50	6,50	6,80	8,10	9,30	11,5
Rc (ASHRAE)	(4)	kg/kW	0,10	0,09	0,09	0,09	0,09	0,11	0,11	0,11	0,11	0,11
NOISE LEVEL												
Sound Pressure	(5)	dB(A)	57	57	58	58	58	59	60	60	60	61
Sound power level in cooling	(6)(7)	dB(A)	73	73	74	74	74	75	76	77	77	78
Sound power level in heating	(6)(8)	dB(A)	74	74	75	75	75	76	77	78	78	79
SIZE AND WEIGHT												
A	(9)	mm	1225	1225	1225	1225	1225	1225	1225	1570	1570	1570
B	(9)	mm	885	885	885	885	885	885	885	885	885	885
H	(9)	mm	1495	1495	1495	1495	1495	1495	1495	1805	1805	1805
Operating weight	(9)	kg	390	400	430	440	480	500	540	680	760	810

Notes:
1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger water (in/out) 30,0°C/35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) heating exchanger water (in/out) 40,0°C/45,0°C; Source (side) heat exchanger water (in/out) 10,0°C/7,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 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.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, indoors.
8 Sound power level in heating, indoors.
9 Unit in standard configuration/execution, without optional accessories.
- Not available
Certified data in EUROVENT

GENERAL TECHNICAL DATA — NX-WN

[SI System]

NX-WN			0502	0552	0602	0702	0802	0604	0704	0804	0904	1004
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
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	kW	154	177	200	225	252	187	215	244	275	306
Total power input	(1)	kW	31,5	35,9	40,4	46,2	52,1	39,2	45,0	50,7	57,2	63,8
EER	(1)	kW/kW	4,89	4,93	4,94	4,87	4,83	4,78	4,79	4,81	4,80	4,79
ESEER	(1)	kW/kW	6,08	6,22	6,18	6,27	5,99	6,35	6,41	6,33	6,41	6,30
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	154	176	199	224	251	187	215	244	274	305
EER	(1)(2)	kW/kW	4,74	4,78	4,79	4,70	4,66	4,66	4,67	4,70	4,67	4,65
ESEER	(1)(2)	kW/kW	5,71	5,81	5,79	5,79	5,55	5,91	5,95	5,90	5,90	5,81
Cooling energy class			B	B	B	B	B	B	B	B	B	B
HEATING ONLY (GROSS VALUE)												
Total heating capacity	(3)	kW	172	197	222	251	281	208	239	270	305	340
Total power input	(3)	kW	38,8	44,1	49,6	56,4	63,2	47,9	55,0	62,0	70,1	78,0
COP	(3)	kW/kW	4,42	4,46	4,47	4,45	4,45	4,35	4,35	4,36	4,35	4,36
HEATING ONLY (EN14511 VALUE)												
Total heating capacity	(3)(2)	kW	172	197	222	252	282	209	240	271	306	341
COP	(3)(2)	kW/kW	4,29	4,33	4,33	4,29	4,28	4,25	4,25	4,26	4,24	4,23
Cooling energy class			B	B	B	B	B	B	B	B	B	B
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	7,36	8,46	9,55	10,76	12,04	8,95	10,30	11,67	13,14	14,62
Pressure drop	(1)	kPa	16,8	17,9	19,6	24,9	28,6	13,4	14,4	15,4	18,9	21,7
Water flow	(1)	l/s	8,83	10,14	11,44	12,91	14,47	10,78	12,40	14,03	15,80	17,59
Pressure drop	(1)	kPa	24,2	25,7	28,1	35,9	41,3	19,4	20,9	22,3	27,4	31,4
HEAT EXCHANGER USER SIDE IN HEATING												
Water flow	(3)	l/s	8,28	9,49	10,70	12,11	13,58	10,06	11,55	13,05	14,73	16,42
Pressure drop	(3)	kPa	21,3	22,5	24,6	31,5	36,3	16,9	18,2	19,3	23,8	27,4
Water flow	(3)	l/s	10,76	12,37	13,95	15,77	17,68	13,02	14,95	16,90	19,06	21,25
Pressure drop	(3)	kPa	36,0	38,2	41,8	53,5	61,6	28,3	30,4	32,4	39,9	45,9
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	4	4	4	4	4
Number of capacity steps		N°	2	2	2	2	2	4	4	4	4	4
No. Circuits		N°	1	1	1	1	1	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	50	50	50	50	50	25	25	25	25	25
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge		kg	15,7	18,8	21,4	22,4	22,4	20,0	23,5	27,5	33,3	36,2
Oil charge		kg	13,6	13,1	12,6	12,6	12,6	13,5	16,1	18,7	22,9	27,2
Rc (ASHRAE)	(4)	kg/kW	0,10	0,11	0,11	0,10	0,09	0,11	0,11	0,11	0,12	0,12
NOISE LEVEL												
Sound Pressure	(5)	dB(A)	61	62	62	65	66	69	70	71	72	73
Sound power level in cooling	(6)(7)	dB(A)	78	79	79	82	83	86	87	88	89	90
Sound power level in heating	(6)(8)	dB(A)	79	80	80	83	84	87	88	89	90	91
SIZE AND WEIGHT												
A	(9)	mm	1570	1570	1570	1570	1570	2210	2210	2650	2650	2650
B	(9)	mm	885	885	885	885	885	885	885	885	885	885
H	(9)	mm	1805	1805	1805	1805	1805	1805	1805	1805	1805	1805
Operating weight	(9)	kg	850	890	930	950	970	920	1100	1300	1450	1530

Notes:
1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger water (in/out) 30,0°C/35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) heating exchanger water (in/out) 40,0°C/45,0°C; Source (side) heat exchanger water (in/out) 10,0°C/7,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 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.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, indoors.
8 Sound power level in heating, indoors.
9 Unit in standard configuration/execution, without optional accessories.
- Not available
Certified data in EUROVENT

GENERAL TECHNICAL DATA — NX-WN

[SI System]

NX-WN			1104	1204
Power supply		V/ph/Hz	400/3/50	400/3/50
PERFORMANCE				
COOLING ONLY (GROSS VALUE)				
Cooling capacity	(1)	kW	351	396
Total power input	(1)	kW	72,7	81,9
EER	(1)	kW/kW	4,83	4,84
ESEER	(1)	kW/kW	6,39	6,36
COOLING ONLY (EN14511 VALUE)				
Cooling capacity	(1)(2)	kW	350	395
EER	(1)(2)	kW/kW	4,68	4,68
ESEER	(1)(2)	kW/kW	5,83	5,78
Cooling energy class			B	B
HEATING ONLY (GROSS VALUE)				
Total heating capacity	(3)	kW	390	439
Total power input	(3)	kW	88,8	99,9
COP	(3)	kW/kW	4,39	4,40
HEATING ONLY (EN14511 VALUE)				
Total heating capacity	(3)(2)	kW	391	440
COP	(3)(2)	kW/kW	4,25	4,24
Cooling energy class			B	B
EXCHANGERS				
HEAT EXCHANGER USER SIDE IN REFRIGERATION				
Water flow	(1)	l/s	16,80	18,94
Pressure drop	(1)	kPa	24,6	28,8
Water flow	(1)	l/s	20,19	22,76
Pressure drop	(1)	kPa	35,5	41,6
HEAT EXCHANGER USER SIDE IN HEATING				
Water flow	(3)	l/s	18,82	21,20
Pressure drop	(3)	kPa	30,8	36,0
Water flow	(3)	l/s	24,41	27,50
Pressure drop	(3)	kPa	51,9	60,7
REFRIGERANT CIRCUIT				
Compressors nr.		N°	4	4
Number of capacity steps		N°	4	4
No. Circuits		N°	2	2
Regulation			STEPS	STEPS
Min. capacity step		%	25	25
Refrigerant			R410A	R410A
Refrigerant charge		kg	42,1	48,0
Oil charge		kg	26,2	25,2
Rc (ASHRAE)	(4)	kg/kW	0,12	0,12
NOISE LEVEL				
Sound Pressure	(5)	dB(A)	74	74
Sound power level in cooling	(6)(7)	dB(A)	91	91
Sound power level in heating	(6)(8)	dB(A)	92	92
SIZE AND WEIGHT				
A	(9)	mm	2650	2650
B	(9)	mm	885	885
H	(9)	mm	1805	1805
Operating weight	(9)	kg	1630	1740

Notes:
1 Plant (side) cooling exchanger water (in/out) 12,0°C/7,0°C; Source (side) heat exchanger water (in/out) 30,0°C/35,0°C.
2 Values in compliance with EN14511-3:2013.
3 Plant (side) heating exchanger water (in/out) 40,0°C/45,0°C; Source (side) heat exchanger water (in/out) 10,0°C/7,0°C.
4 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
5 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.
6 Sound power on the basis of measurements made in compliance with ISO 9614.
7 Sound power level in cooling, indoors.
8 Sound power level in heating, indoors.
9 Unit in standard configuration/execution, without optional accessories.
- Not available
Certified data in EUROVENT