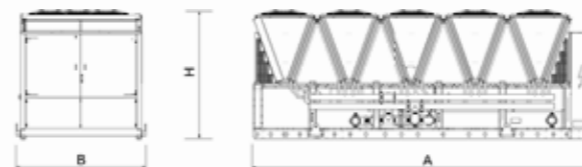


NX-FC-Z

0384 - 0926

Air cooled chiller with free-cooling for high leaving water temperature (from 364 to 978 kW)



NX-FC-Z /K

Model			0384	0414	0434	0464	0494	0524	0554
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
PERFORMANCE									
MECHANICAL COOLING (GROSS VALUE)									
Cooling capacity	(1)	kW	367,4	387,8	418,9	443,0	475,5	499,5	534,9
Total power input	(1)	kW	98,46	106,9	113,2	121,2	126,7	136,8	147,5
EER	(1)	kW/kW	3,730	3,628	3,701	3,655	3,753	3,651	3,626
MECHANICAL COOLING (EN14511 VALUE)									
Cooling capacity	(2)/(3)	kW	366,5	386,8	417,7	441,9	474,2	498,5	533,7
EER	(2)/(3)	kW/kW	3,690	3,590	3,650	3,610	3,700	3,620	3,590
SEPR	(4)/(5)		5,79	5,68	5,90	5,93	5,88	5,69	5,77
TOTAL FREE-COOLING (GROSS VALUE)									
Total free-cooling temperature	(6)	°C	9,6	8,9	9,8	9,2	9,9	9,3	8,3
Cooling capacity	(6)	kW	367,4	387,8	418,9	443,0	475,5	499,5	534,9
EER	(6)	kW/kW	32,23	34,02	31,50	33,31	31,28	32,86	35,19
MECHANICAL COOLING (GROSS VALUE)									
16°C/10°C									
Cooling capacity	(7)	kW	295,5	312,4	336,4	359,3	384,6	404,7	431,4
Total power input	(7)	kW	93,06	100,4	106,2	113,6	118,9	127,8	137,0
EER	(7)	kW/kW	3,174	3,112	3,168	3,163	3,235	3,167	3,149
23°C/15°C									
Cooling capacity	(8)	kW	335,8	354,7	382,5	407,2	436,5	458,5	489,5
Total power input	(8)	kW	96,06	104,0	110,1	117,8	123,2	132,8	142,8
EER	(8)	kW/kW	3,494	3,411	3,474	3,457	3,543	3,453	3,428
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(3)	l/s	12,10	12,77	13,80	14,59	15,66	16,45	17,62
Pressure drop	(2)/(3)	kPa	35,7	40,3	46,7	42,0	46,9	34,6	36,4
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	40,0	45,0	52,0	52,0	56,0	58,0	64,0
NOISE LEVEL									
Sound Pressure	(9)	dB(A)	62	62	62	62	62	62	62
Sound power level in cooling	(10)/(11)	dB(A)	94	94	94	95	95	95	95
SIZE AND WEIGHT									
A	(12)	mm	3905	3905	5080	5080	5080	5080	5080
B	(12)	mm	2260	2260	2260	2260	2260	2260	2260
H	(12)	mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(12)	kg	3580	3610	4110	4420	4610	5180	4720

Model			0594	0624	0685	0746	0836	0866	0926
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
PERFORMANCE									
MECHANICAL COOLING (GROSS VALUE)									
Cooling capacity	(1)	kW	567,5	603,6	649,7	713,6	796,4	837,8	895,9
Total power input	(1)	kW	155,5	163,2	179,2	190,1	220,7	226,3	247,1
EER	(1)	kW/kW	3,650	3,699	3,626	3,754	3,609	3,702	3,626
MECHANICAL COOLING (EN14511 VALUE)									
Cooling capacity	(2)/(3)	kW	566,2	602,2	648,2	712,2	794,5	835,7	893,4
EER	(2)/(3)	kW/kW	3,610	3,660	3,590	3,720	3,570	3,660	3,580
SEPR	(4)/(5)		5,83	5,79	5,88	6,28	6,19	5,96	6,06
TOTAL FREE-COOLING (GROSS VALUE)									
Total free-cooling temperature	(6)	°C	9,2	9,7	9,0	9,9	8,8	9,8	9,0
Cooling capacity	(6)	kW	567,5	603,6	649,7	713,6	796,4	837,8	895,9
EER	(6)	kW/kW	33,19	31,77	34,19	31,30	34,93	31,50	33,68
MECHANICAL COOLING (GROSS VALUE)									
16°C/10°C									
Cooling capacity	(7)	kW	462,2	490,9	528,3	579,9	649,3	678,0	728,9
Total power input	(7)	kW	144,9	152,2	167,1	178,7	205,7	212,0	229,8
EER	(7)	kW/kW	3,190	3,225	3,162	3,245	3,157	3,198	3,172
23°C/15°C									
Cooling capacity	(8)	kW	522,9	555,6	597,9	657,2	732,7	768,4	824,4
Total power input	(8)	kW	150,9	158,4	173,8	185,1	214,0	219,9	239,5
EER	(8)	kW/kW	3,465	3,508	3,440	3,551	3,424	3,494	3,442
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(3)	l/s	18,69	19,88	21,40	23,50	26,23	27,59	29,50
Pressure drop	(2)/(3)	kPa	40,4	39,0	41,7	34,9	44,6	48,1	55,0
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	5	6	6	6	6
No. Circuits		N°	2	2	2	2	2	3	2
Refrigerant charge		kg	66,0	75,0	75,0	75,0	80,0	82,0	82,0
NOISE LEVEL									
Sound Pressure	(9)	dB(A)	62	63	63	63	63	64	64
Sound power level in cooling	(10)/(11)	dB(A)	95	96	96	96	96	97	97
SIZE AND WEIGHT									
A	(12)	mm	6255	6255	6255	7430	7430	8605	8605
B	(12)	mm	2260	2260	2260	2260	2260	2260	2260
H	(12)	mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(12)	kg	4860	4970	5460	6050	6130	6700	6750

Notes:

- Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
- Values in compliance with EN14511
- Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
- Seasonal energy efficiency ratio
- Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
- Plant (side) cooling exchanger water (in/out) 28°C/20°C; Ethylene glycol 30%.
- Plant (side) cooling exchanger water (in/out) 16°C/10°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%

- Plant (side) cooling exchanger water (in/out) 23°C/15°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
- 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.
- Sound power on the basis of measurements made in compliance with ISO 9614.
- Sound power level in cooling, outdoors.
- Unit in standard configuration/execution, without optional accessories.
- The units highlighted in this publication contain HFC R410A [GWP100 2088] fluorinated greenhouse gases.

NX-FC-Z /SL-K

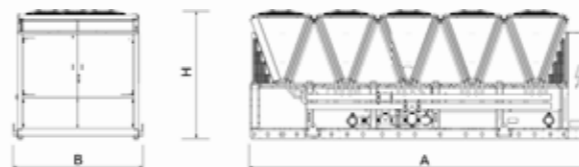
Model			0384	0414	0434	0464	0494	0524	0554
Power supply	V/ph/Hz		400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE									
MECHANICAL COOLING (GROSS VALUE)									
Cooling capacity	(1)	kW	364,5	385,9	417,0	439,4	466,5	503,5	534,1
Total power input	(1)	kW	97,59	105,7	111,3	120,1	128,7	133,6	144,1
EER	(1)	kW/kW	3,735	3,651	3,747	3,659	3,625	3,769	3,706
MECHANICAL COOLING (EN14511 VALUE)									
Cooling capacity	(2)/(3)	kW	363,6	384,9	415,8	438,3	465,2	502,4	532,9
EER	(2)/(3)	kW/kW	3,690	3,610	3,700	3,620	3,580	3,730	3,670
SEPR	(4)/(5)		6,13	6,01	6,21	6,01	6,08	5,99	6,03
TOTAL FREE-COOLING (GROSS VALUE)									
Total free-cooling temperature	(6)	°C	9,3	8,6	9,3	8,7	8,1	9,7	9,0
Cooling capacity	(6)	kW	364,5	385,9	417,0	439,4	466,5	503,5	534,1
EER	(6)	kW/kW	44,51	47,12	44,55	46,94	49,84	43,03	45,65
MECHANICAL COOLING (GROSS VALUE)									
16°C/10°C									
Cooling capacity	(7)	kW	293,6	311,1	335,3	357,1	379,4	407,6	430,3
Total power input	(7)	kW	91,99	98,99	104,3	112,2	119,7	124,8	133,8
EER	(7)	kW/kW	3,191	3,142	3,215	3,183	3,170	3,266	3,216
23°C/15°C									
Cooling capacity	(8)	kW	333,4	353,0	381,0	404,3	429,3	461,9	488,6
Total power input	(8)	kW	95,09	102,7	108,1	116,6	124,6	129,6	139,5
EER	(8)	kW/kW	3,506	3,437	3,525	3,467	3,445	3,564	3,503
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(3)	l/s	12,00	12,71	13,73	14,47	15,36	16,58	17,59
Pressure drop	(2)/(3)	kPa	35,1	40,1	46,5	41,3	45,9	35,2	36,3
REFRIGERANT CIRCUIT									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	42,0	47,0	50,0	52,0	52,0	57,0	60,0
NOISE LEVEL									
Sound Pressure	(9)	dB(A)	54	54	54	53	53	54	54
Sound power level in cooling	(10)/(11)	dB(A)	86	86	86	86	86	87	87
SIZE AND WEIGHT									
A	(12)	mm	5080	5080	5080	5080	5080	6255	6255
B	(12)	mm	2260	2260	2260	2260	2260	2260	2260
H	(12)	mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(12)	kg	3960	4080	4600	4580	4610	5850	5360

Model			0594	0624	0685	0746	0836	0866	0926
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
PERFORMANCE									
MECHANICAL COOLING (GROSS VALUE)									
Cooling capacity	(1)	kW	568,2	604,0	643,7	710,6	801,0	826,3	888,2
Total power input	(1)	kW	154,7	160,2	176,2	187,4	213,1	223,3	244,8
EER	(1)	kW/kW	3,673	3,770	3,653	3,792	3,759	3,700	3,628
MECHANICAL COOLING (EN14511 VALUE)									
Cooling capacity	(2)/(3)	kW	566,9	602,6	642,2	709,2	799,1	824,2	885,7
EER	(2)/(3)	kW/kW	3,630	3,730	3,610	3,760	3,720	3,660	3,580
SEPR	(4)/(5)		6,04	6,07	6,11	6,62	6,48	6,25	6,33
TOTAL FREE-COOLING (GROSS VALUE)									
Total free-cooling temperature	(6)	°C	8,4	9,7	9,0	9,6	9,7	9,0	8,5
Cooling capacity	(6)	kW	568,2	604,0	643,7	710,6	801,0	826,3	888,2
EER	(6)	kW/kW	48,56	43,14	45,98	43,33	42,83	44,19	47,50
MECHANICAL COOLING (GROSS VALUE)									
16°C/10°C									
Cooling capacity	(7)	kW	463,9	491,4	523,5	578,1	649,7	669,6	723,9
Total power input	(7)	kW	143,6	149,1	164,0	175,6	198,9	207,5	227,0
EER	(7)	kW/kW	3,231						

NX-FC-Z

0384 - 0926

Air cooled chiller with free-cooling for high leaving water temperature (from 364 to 978 kW)



R HFC R410A COOLING T SHELL&T
FREE C. SCROLL EC AXIAL

NX-FC-Z /A

Model		0384	0414	0434	0464	0494	0524	0554
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
PERFORMANCE								
MECHANICAL COOLING (GROSS VALUE)								
Cooling capacity	(1) kW	389,4	422,0	454,6	479,6	510,6	542,8	577,2
Total power input	(1) kW	96,52	103,6	109,9	116,6	123,2	132,5	142,3
EER	(1) kW/kW	4,035	4,073	4,136	4,113	4,144	4,097	4,056
MECHANICAL COOLING (EN14511 VALUE)								
Cooling capacity	(2)(3) kW	388,5	420,8	453,2	478,3	509,1	541,5	575,8
EER	(2)(3) kW/kW	3,990	4,020	4,070	4,060	4,080	4,050	4,010
SEPR	(4)(5)	6,39	6,43	6,54	6,40	6,33	6,26	6,41
TOTAL FREE-COOLING (GROSS VALUE)								
Total free-cooling temperature	(6) °C	10,1	10,8	11,3	11,7	12,0	11,6	11,1
Cooling capacity	(6) kW	389,4	422,0	454,6	479,6	510,6	542,8	577,2
EER	(6) kW/kW	40,06	37,35	34,97	32,85	31,52	33,51	35,63
MECHANICAL COOLING (GROSS VALUE)								
16°C/10°C								
Cooling capacity	(7) kW	312,7	337,9	363,1	386,0	410,1	436,6	462,0
Total power input	(7) kW	91,42	98,14	104,0	110,6	116,8	125,0	133,4
EER	(7) kW/kW	3,421	3,444	3,491	3,490	3,511	3,493	3,463
23°C/15°C								
Cooling capacity	(8) kW	355,7	384,8	414,0	439,3	467,2	496,1	526,3
Total power input	(8) kW	94,22	101,1	107,2	113,9	120,3	129,1	138,3
EER	(8) kW/kW	3,776	3,806	3,862	3,857	3,884	3,843	3,805
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(3) l/s	12,82	13,90	14,97	15,79	16,82	17,87	19,01
Pressure drop	(2)(3) kPa	39,3	46,8	53,9	48,1	53,2	39,4	41,2
REFRIGERANT CIRCUIT								
Compressors nr.	N°	4	4	4	4	4	4	4
No. Circuits	N°	2	2	2	2	2	2	2
Refrigerant charge	kg	40,0	45,0	52,0	65,0	67,0	67,0	70,0
NOISE LEVEL								
Sound Pressure	(9) dB(A)	63	63	64	63	64	64	64
Sound power level in cooling	(10)(11) dB(A)	95	95	96	96	97	97	97
SIZE AND WEIGHT								
A	(12) mm	3905	5080	5080	6255	6255	6255	6255
B	(12) mm	2260	2260	2260	2260	2260	2260	2260
H	(12) mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(12) kg	3580	4070	4260	5110	5300	5340	5360

- Notes:**
- Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 - Values in compliance with EN14511
 - Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 - Seasonal energy efficiency ratio
 - Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
 - Plant (side) cooling exchanger water (in/out) 28°C/20°C; Ethylene glycol 30%.
 - Plant (side) cooling exchanger water (in/out) 16°C/10°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%

- Plant (side) cooling exchanger water (in/out) 23°C/15°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 - 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.
 - Sound power on the basis of measurements made in compliance with ISO 9614.
 - Sound power level in cooling, outdoors.
 - Unit in standard configuration/execution, without optional accessories.
- The units highlighted in this publication contain HFC R410A [GWP100 2088] fluorinated greenhouse gases.

NX-FC-Z /SL-A

Model		0384	0414	0434	0464	0494	0524
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
MECHANICAL COOLING (GROSS VALUE)							
Cooling capacity	(1) kW	377,0	402,3	424,2	459,2	487,2	517,2
Total power input	(1) kW	92,02	100,0	107,9	112,1	119,6	129,5
EER	(1) kW/kW	4,098	4,023	3,931	4,096	4,074	3,994
MECHANICAL COOLING (EN14511 VALUE)							
Cooling capacity	(2)(3) kW	376,1	401,3	423,0	458,0	485,8	516,1
EER	(2)(3) kW/kW	4,050	3,970	3,880	4,040	4,020	3,950
SEPR	(4)(5)	7,02	6,71	6,65	6,99	6,80	6,62
TOTAL FREE-COOLING (GROSS VALUE)							
Total free-cooling temperature	(6) °C	10,3	10,2	9,7	10,5	10,5	10,0
Cooling capacity	(6) kW	377,0	402,3	424,2	459,2	487,2	517,2
EER	(6) kW/kW	67,32	71,84	75,75	65,60	69,60	73,89
MECHANICAL COOLING (GROSS VALUE)							
16°C/10°C							
Cooling capacity	(7) kW	302,6	322,8	340,7	371,2	393,2	418,2
Total power input	(7) kW	87,02	94,22	101,1	105,2	112,3	121,0
EER	(7) kW/kW	3,478	3,427	3,370	3,529	3,501	3,456
23°C/15°C							
Cooling capacity	(8) kW	344,3	367,2	387,4	421,5	446,8	474,1
Total power input	(8) kW	89,82	97,42	104,8	109,0	116,3	125,6
EER	(8) kW/kW	3,834	3,770	3,697	3,867	3,842	3,775
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN REFRIGERATION							
Water flow	(3) l/s	12,42	13,25	13,97	15,12	16,04	17,03
Pressure drop	(2)(3) kPa	37,1	42,8	47,9	44,8	49,2	36,7
REFRIGERANT CIRCUIT							
Compressors nr.	N°	4	4	4	4	4	4
No. Circuits	N°	2	2	2	2	2	2
Refrigerant charge	kg	47,0	47,0	50,0	67,0	67,0	66,0
NOISE LEVEL							
Sound Pressure	(9) dB(A)	55	55	55	54	55	55
Sound power level in cooling	(10)(11) dB(A)	87	87	87	87	88	88
SIZE AND WEIGHT							
A	(12) mm	5080	5080	5080	6255	6255	6255
B	(12) mm	2260	2260	2260	2260	2260	2260
H	(12) mm	2450	2450	2450	2450	2450	2450
Operating weight	(12) kg	4190	4220	4300	5270	5300	5330

- Notes:**
- Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 - Values in compliance with EN14511
 - Plant (side) cooling exchanger water (in/out) 28°C/20°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 - Seasonal energy efficiency ratio
 - Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
 - Plant (side) cooling exchanger water (in/out) 28°C/20°C; Ethylene glycol 30%.
 - Plant (side) cooling exchanger water (in/out) 16°C/10°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%

- Plant (side) cooling exchanger water (in/out) 23°C/15°C; Source (side) heat exchanger air (in) 35°C; Ethylene glycol 30%
 - 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.
 - Sound power on the basis of measurements made in compliance with ISO 9614.
 - Sound power level in cooling, outdoors.
 - Unit in standard configuration/execution, without optional accessories.
- The units highlighted in this publication contain HFC R410A [GWP100 2088] fluorinated greenhouse gases.