Penmann
INNOVATIVE CLIMATIC SOLUTIONS FOR THE FOOD INDUSTRY

NX2 - Y 4 Compressor

The new NX2-Y units are air cooled chillers with scroll compressors designed for delivering the best efficiencies in industrial process applications.

Product Overview

Cooling Capacity –
176 – 367 kW (R410A) 167 – 346 kW (R454B)

Refrigerant
R410A/R454B

ErP2021 Compliant
All models comply with any applicable ErP2021 regulations

Energy Efficient
Class-leading efficiency levels are achieved thanks to innovative design

Eco Friendly
R454B option offers large GWP reduction compared to R410A/R32 - while its physical properties ensures there is no trade-off in terms of the operating range

Key Features & Benfits

- Twin circuit tandem scroll compressors
- ErP2021 compliant
- Low noise
- Energy efficient
- Available with either R410A refrigerant or the lower GWP R454B

Still have a question?

Get in touch with one of our expert team today.

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INNOVATIVE CLIMATIC SOLUTIONS FOR THE FOOD INDUSTRY

NX2 - Y 2 Compressor

NX2
Air Cooled Chillers with R410A refrigerant
(from 178kW to 366kW)

Technical Information

Model		NX2-G02 0184P	NX2-G02 0214P	NX2-G02 0244P	NX2-G02 0264P	NX2-G02 0294P	NX2-G02 0334P	NX2-G02 0374P
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								
Cooling Only (Gross Value)								
Cooling Capacity *1	kW	178.0	207.8	237.4	262.5	293.1	330.0	366.5
Total Power Output *1	kW	52.92	62.72	74.41	83.58	87.61	100.2	113.8
EER *1	kW/kW	3.365	3.314	3.191	3.140	3.346	3.293	3.221
ESEER *1	kW/kW							
Cooling Only (EN14511 Value)								
Cooling Capacity *1 *2	kW	177.6	207.4	237.0	262.2	292.7	329.6	366.0
EER *1 *2	kW/kW	3.300	3.260	3.140	3.090	3.300	3.250	3.170
ESEER *1 *2	kW/kW	-	-	-	-	-	-	-
Cooling Energy Class		-	-	-	-	-	-	-
Energy Efficiency								
Seasonal Efficiency in Cooling (reg. EU 2016/2281) Ambient Refrigeration								
PRATED,C *7	kW	178	207	237	262	293	330	360
SEER *7 *8		4.68	4.70	4.70	4.71	4.63	4.65	4.60
Performance ns *7*9	%	184	185	185	186	182	183	181
Exchangers								
Heat Exchangers User Side in Refrigeration								
Water Flow *1	l/s	8.511	9.935	11.35	12.55	14.02	15.78	17.53
Pressure Drop at the Heat Exchanger	kPa	47.7	49.0	51.4	51.1	46.9	44.2	54.5
Refrigerant Circuit								
Compressor NR.	No.	4	4	4	4	4	4	4
Circuits	No.	2	2	2	2	2	2	2
Refrigerant Charge	kg	33.4	35.4	41.7	41.8	52.8	57.6	57.7
Noise Level								
Sound Pressure *3	dB(A)	54	54	55	55	56	58	59
Sound Power Level in Cooling *4 *5	dB(A)	86	86	87	87	88	90	91
Size and Weight								
Width (A) *6	mm	3160	3160	3160	3160	4335	4335	4335
Depth (B) *6	mm	2250	2250	2250	2250	2250	2250	2250
Height (H) *6	mm	2290	2290	2290	2290	2290	2290	2290
Operating Weight *6	kg	1620	1640	1850	1880	2230	2260	2470

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
2. Values in compliance with EN14511.
3. 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.
4. Sound power on the basis of measurements taken in compliance with ISO 9614.
5. Sound power level in cooling, outdoors.
6. Unit in standard configuration, without optional accessories.
7. Parameter calculated according to [REGULATION (EU) N. 2016/2281].
8. Seasonal energy efficiency ratio.
9. Seasonal space cooling energy efficiency.

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NX2 - Y 2 Compressor

NX2
Air Cooled Chillers with R410A refrigerant
(from 178kW to 366kW)

Technical Information

Model		NX2-G06 0184P	NX2-G06 0214P	NX2-G06 0244P	NX2-G06 0264P	NX2-G06 0294P	NX2-G06 0334P	NX2-G06 0374P
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								
Cooling Only (Gross Value)								
Cooling Capacity *1	kW	168.4	197.5	226.2	250.7	280.0	313.1	345.8
Total Power Output *1	kW	49.44	58.24	68.66	77.32	81.59	93.64	106.6
EER *1	kW/kW	3.409	3.393	3.293	3.243	3.431	3.345	3.244
ESEER *1	kW/kW							
Cooling Only (EN14511 Value)								
Cooling Capacity *1 *2	kW	168.1	197.2	225.8	250.4	279.7	312.8	345.4
EER *1 *2	kW/kW	3.350	3.340	3.240	3.200	3.380	3.300	3.200
ESEER *1 *2	kW/kW	-	-	-	-	-	-	-
Cooling Energy Class		-	-	-	-	-	-	-
Energy Efficiency								
Seasonal Efficiency in Cooling (reg. EU 2016/2281) Ambient Refrigeration								
PRATED,C *7	kW	168	197	226	250	280	313	345
SEER *7 *8		4.73	4.76	4.78	4.79	4.71	4.73	4.62
Performance ns *7*9	%	186	188	188	189	185	186	182
Exchangers								
Heat Exchangers User Side in Refrigeration								
Water Flow *1	l/s	8.052	9.444	10.81	11.9	13.39	14.97	16.54
Pressure Drop at the Heat Exchanger	kPa	42.7	44.3	46.7	46.6	42.8	39.8	48.5
Refrigerant Circuit								
Compressor NR.	No.	4	4	4	4	4	4	4
Circuits	No.	2	2	2	2	2	2	2
Refrigerant Charge	kg	30.1	31.9	37.5	37.6	47.5	51.8	51.9
Noise Level								
Sound Pressure *3	dB(A)	54	54	55	55	56	58	59
Sound Power Level in Cooling *4 *5	dB(A)	86	86	87	87	88	90	91
Size and Weight								
Width (A) *6	mm	3160	3160	3160	3160	4335	4335	4335
Depth (B) *6	mm	2250	2250	2250	2250	2250	2250	2250
Height (H) *6	mm	2290	2290	2290	2290	2290	2290	2290
Operating Weight *6	kg	1620	1640	1850	1880	2230	2260	2470

1. Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
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