MITSUBISHI ELECTRIC HYDRONICS & IT COOLING SYSTEMS S.p.A.







THE ECO-FRIENDLY SOLUTION FOR YOUR PERFECT COMFORT



Air source chillers and heat pumps with scroll compressors and low GWP refrigerant. From 49,6 to 218 kW

NX-G06 and NX-N-G06 are air source chiller and heat pump ranges with scroll compressors designed for delivering the best efficiencies in comfort applications.

Reduced refrigerant charge and low GWP refrigerant ensure the lowest CO, eq tons, for an environmentalfriendly approach.

Available in three different acoustical versions, NX-G06 and NX-N-G06 feature extremely low sound emissions, with zero compromises in efficiency.

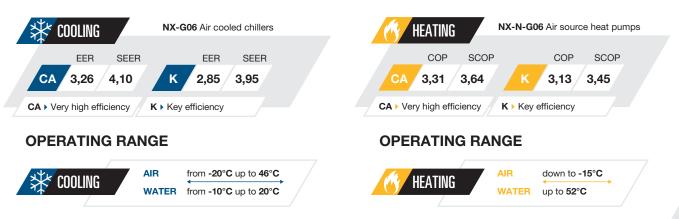
The new ranges are brilliantly engineered to integrate all the main hydraulic and mechanic components inside the unit, providing installers the ideal plug & play solution for the HVAC plant.

COMFORT **APPLICATIONS**

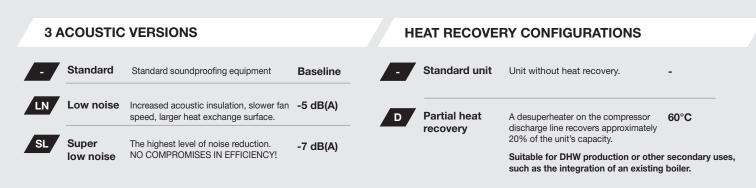
Hotels

- Shopping centres
- Office buildings
- Museums
- Education centres
- Sport facilities
- Banks
- Institutions

PREMIUM EFFICIENCIES IN HEATING AND COOLING



Average values (EN14511) / SEER: Regulation (EU) N. 2016/2281 / SCOP: Regulation (EU) N. 813/2013



NEW GENERATION GREEN REFRIGERANT

Fully committed to support the creation of a greener tomorrow, Mitsubishi Electric Hydronics & IT Cooling Systems presents the G06 series, chillers and heat pumps with reduced environmental impact.

Thanks to the new generation refrigerant R454B, the environmental impact of NX-G06 and NX-N-G06 is greatly reduced. Combining reduced refrigerant charge with a low GWP refrigerant, these units boast the lowest amount of CO_2 eq in the scroll unit market, thus resulting as the perfect choice for any new forward looking installation.

-76% vs R410A **R454B REFRIGERANT GWP: 466** -31% vs R32 High density, low GWP refrigerant. Its physical properties are similar to R410A, so the same type of equipment / components can be used. **GWP** ▶ Low GWP, only 466 REDUCED Reduced refrigerant **ENVIRONMENTAL** charge (-10% vs R410A) IMPACT Use of well-known components RELIABILITY Refrigerant circuit R452B reliability is maintained Same operating limits of R410A PERFORMANCE both in cooling and heating & ENVELOPE ▶ Higher efficiency (full load +3,5%, seasonal +2% vs R410A)

W3000+ CONTROL SOFTWARE

Fast adaptive responses and functional options, developed fully in-house. For the customer's complete peace of mind.

NIGHT MODE

The advanced control system is engineered to maintain optimal comfort conditions according to occupancy needs and variations.

Thanks to the night mode function, the unit lowers its sound emissions (-3 dB(A) with factory settings) leveraging on a reduced usage of its resources. Offering excellent comfort during low load periods.



Thanks to the extensive know-how in heat pump technology, a series of smart proprietary auto adaptive algorithms have been developed to manage the defrosting cycles in the smartest way.

- Reduction in defrosting time
- Minimum impact on leaving water temperature
- Reduction of energy required for defrosting
- ▶ Increase of COP



compared to units with traditional defrost cycles.

PACKAGED SOLUTION

NX-G06 and NX-N-G06 are all-in-one solutions, ready to be installed. The integrated hydronic modules includes the pumps, the buffer tanks and the main hydraulic components, allowing simplified installation and time-saving commissioning.

SILENT OPERATION AND NO COMPROMISES IN EFFICIENCY

NX-G06 and NX-N-G06 ranges have been designed for the perfect environmental well-being. Thanks to a specific design, the SL versions (super low noise) achieve the minimum sound level while maintaining the same performance as the standard acoustical version. 02/03

R454B



AIR SOURCE CHILLERS AND HEAT PUMPS

TECHNOLOGICAL CHOICES

W3000+ CONTROL

Management software developed fully in-house

- Proprietary settings for faster adaptive responses to different dynamics
- Enhanced diagnostics thanks to the black box function
- Connectivity with the most commonly used BMS protocols and M-Net Mitsubishi Electric proprietary protocol (Opt.)

Compact keyboard



CLIMAVENETA

HI ELECTRIC CS & IT COOLING

- Large LCD display and functional keys
- Quick and easy parameter consultation and adjustment by means of a multi-level menu
- KIPlink, the innovative Wi-Fi interface, is available as an option.

Plate heat exchanger

Compact and robust, made of AISI 316 steel plates, copper-brazed.

- Low pressure drops
- Fully protected against ice formation
- Closed-cell neoprene external lining



Scroll compressors

New generation scroll compressors, developed for the use of high density A2L refrigerants (Fluid Group 1 of PED Directive).

- Tandem or trio configuration to benefit from higher seasonal efficiency
- Specific oil management solution for enhanced reliability





R454B Refrigerant

High density, low GWP refrigerant

- Composition:
 69% R32 + 31% R1234yf
- Global Warming Potential: 466 (IPCC AR5)
- Safety classification:

GWP: 466

- A2L midly flammable (ISO 817)

-76% vs R410A

-31% vs R32

- Fluid Group 1 (PED)

Maximum quality of every single component, attention to detail, dedicated components for the R454B refrigerant: these are the fundamentals that make the NX-G06 and NX-N-G06 ranges the ideal solutions for forward-looking cooling systems.

FANS

High performing, axial fans:

- Different sizes and speeds to perfectly fit the requirements of each unit model
- Speed control (DVV) based on refrigerant pressure.

UP TO + 8% MORE SEASONAL EFFICIENCY



EC fans (opt. for CA versions)

- Continuous regulation of the air flow
- Reduced power consumption and increased efficiencies at partial loads

Highly resistent finned coils

New generation full aluminum micro-channel coils for cooling only chillers

- Long Life Alloy (LLA) for higher corrosion resistance and longer life cycle
- Up to 30% of refrigerant charge reduction vs. traditional solutions

Copper and aluminum tube & fins coils for reversible heat pumps



- Ideally designed to optimize airflow and heat transfer
- Protective coating available for harsh industrial and marine environments (Opt.)

HYDRONIC MODULES

The **fully integrated hydronic module** (opt.) includes the pumps, the buffer tank, and all the main hydraulic components, for the best **optimization of the installation space, time and costs**.

Pumps

- End-suction configuration
- 2-pole motor
- Single or twin pumps
- Low or high head (approx. 100 or 200 kPa).

Pumps + Buffer tank

- Up to 500 liter I buffer tank
- 20mm insulation lining
- Including: expansion vessel, safety valve, manometer.

Only terminals

- On/off control
- 1 or 2 external pumps



ACCESSORIES AND FURTHER OPTIONS

KIPlink user interface



An exclusive product of Mitsubishi Electric Hydronics & IT Cooling Systems.

Based on Wi-Fi technology, KIPlink is an option that allows one to operate on the unit directly from a mobile device (smartphone, tablet, or notebook) by simply scanning the QR code positioned on the unit.



MAIN FEATURES



Easier on-site operation

Monitor each component while moving around the unit for maintenance operations. View and change all parameters with easyto-understand screenshots and dedicated tooltips.

Get devoted "help" messages / for alarm reset and trouble shooting.



Real-time graphs and trends

Monitor the immediate labor status of the compressors, heat exchangers, cooling circuits, and pumps. View the real-time graphs of the key operating variable trends.

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Data logger function

View history of events and use the filter for a simple search.

Enhance diagnostics with data and graphs of 10 minutes before and after each alarm. Download all the data for detailed analysis.

FURTHER OPTIONS

| Set-point adjustment | 4-20 mA: Enables remote set-point adjustments (analog input). Double set-point: Enables the remote switch between 2 set-points (digital input). Set-point compensation: Automatic adjustment of the set-point on the basis of the outdoor temperature. |
|-------------------------|---|
| Control functions | Night mode: Limits the unit sound level reducing the usage of the resources. Sound power reduction (with factory settings): -3 dB(A). U.L.C. User Limit Control: Controls a mixing valve (not included) to ensure a safe start-up and operation of the unit even in critical conditions. Remote probe: Controls the unit's and pump's activation on the base of the water temperature of the buffer tank or hydraulic decoupler. Demand limit: Limits the unit's power absorption for safety reasons or in temporary situations (digital input). |
| Electrical | Compressor rephasing: The capacitors on the compressors' line increase the unit's power factor. Soft-starter: Manages the inrush current enabling lower motor windings' mechanical wear, avoidance of mains voltage fluctuations during starting and favorable sizing for the electrical system. |
| Connectivity | Serial card interface module to allow integration with BMS protocols: Modbus / LonWorks / BACnet MS/TP / BACnet over IP / Konnex / Modbus TCP/IP/ SNMP M-Net interface kit: Interface module to allow the integration of the unit with Mitsubishi Electric proprietary communication protocol M-Net. |
| Energy Meter | Energy meter for BMS: Acquires electrical data and the power absorbed by the unit and sends them the BMS for energy metering (Modbus RS485). Energy meter for W3000: The electrical data acquired is available directely on the unit's control. |

COILS AND COATINGS



circuit **Dual pressure relief valves with switch:** One valve is isolated from the refrigerant circuit while the other is in service. The userr can work on the isolated valve for periodic maintenance or replacement, without removing the refrigerant from the circuit. Refrigerant Leak detector: Factory installed device. In case of a gas leak detection it raises an alarm. leak detector Leak detector + compressor off: Factory installed device. In case of a gas leak detection it raises an alarm and stops the units. Water flow switch: Designed to protect the unit when the water flow across the evaporator is not sufficient and falls outside of the operating parameters **Hydraulic** Water filter: Filters the water before the unit's inlet. Anti-intrusion grilles: Perimeter metal grilles to protect against the intrusion of solid bodies into the unit structure. **Structure** Spring or rubber type anti-vibration mountings: Reduce vibrations, keeping noise transmission to a minimum. Packing Container slides or packing: The unit is provided with metal slides to load it in a conrtainer, with or without a protective nylon layer. Wooden cage packing: The unit is provided with a robust wooden cage, with or without a protective nylon layer.

Oven bake

UV topcoat



CHILLERS



NX-G06

Chiller, air cooled for outdoor installation, from 49,6 to 218 kW.

| NX-G06/CA | | | 0202P | 0252P | 0262P | 0302P | 0352P | 0402P |
|------------------------------|--------------|--------------|------------|------------|------------|----------|----------|----------|
| | | | | | | | | |
| 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 |
| PERFORMANCE | | | | | | | | |
| COOLING ONLY (GROSS VALUE) | | | | | | | | |
| Cooling capacity | (1) | kW | 52,80 | 59,95 | 66,81 | 81,64 | 92,73 | 103,6 |
| Total power input | (1) | kW | 15,59 | 17,95 | 20,27 | 24,80 | 28,22 | 31,39 |
| EER | (1) | kW/kW | 3,385 | 3,352 | 3,291 | 3,290 | 3,287 | 3,299 |
| ESEER | (1) | kW/kW | | | | | | |
| COOLING ONLY (EN14511 VALUE | 5) | | | | | | | |
| Cooling capacity | (1)(2) | kW | 52,70 | 59,80 | 66,70 | 81,40 | 92,40 | 103,3 |
| EER | (1)(2) | kW/kW | 3,330 | 3,290 | 3,240 | 3,240 | 3,200 | 3,230 |
| ENERGY EFFICIENCY | | | | | | | | |
| SEASONAL EFFICIENCY IN COOI | LING (Reg. E | U 2016/2281) | | | | | | |
| Ambient refrigeration | | | | | | | | |
| Prated,c | (7) | kW | 52,7 | 59,8 | 66,7 | 81,4 | 92,4 | 103 |
| SEER | (7)(8) | | 4,05 | 4,12 | 4,16 | 3,97 | 3,95 | 4,02 |
| Performance ηs | (7)(9) | % | 159 | 162 | 163 | 156 | 155 | 158 |
| EXCHANGERS | | | | | | | | |
| HEAT EXCHANGER USER SIDE IN | N REFRIGER | ATION | | | | | | |
| Water flow | (1) | l/s | 2,525 | 2,867 | 3,195 | 3,904 | 4,435 | 4,956 |
| Pressure drop | (1) | kPa | 37,5 | 34,6 | 35,1 | 37,5 | 59,4 | 51,6 |
| REFRIGERANT CIRCUIT | | | | | | | | |
| Compressors nr. | | N° | 2 | 2 | 2 | 2 | 2 | 2 |
| No. Circuits | | N° | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant charge | | kg | 7,30 | 7,90 | 8,00 | 9,30 | 12,4 | 12,5 |
| NOISE LEVEL | | | | | | | | |
| Sound Pressure | (3) | dB(A) | 53 | 53 | 54 | 56 | 56 | 58 |
| Sound power level in cooling | (4)(5) | dB(A) | 85 | 85 | 86 | 88 | 88 | 90 |
| SIZE AND WEIGHT | | | | | | | | |
| A | (6) | mm | 2395 | 2395 | 2395 | 2825 | 3360 | 3360 |
| В | (6) | mm | 1195 | 1195 | 1195 | 1195 | 1195 | 1195 |
| Н | (6) | mm | 1865 | 1865 | 1865 | 1980 | 1980 | 1980 |
| | | | | | | | | |

| | | | 04500 | 05000 | 05000 | 00405 | 07400 | 00405 |
|------------------------------|--------------|--------------|----------|----------|----------|----------|----------|-------|
| NX-G06/CA | | | 0452P | 0502P | 0562P | 0612P | 0712P | 0812P |
| Power supply | V/ph/Hz | 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 | 117,0 | 132,3 | 153,9 | 171,3 | 193,2 | 218,0 |
| Total power input | (1) | kW | 35,66 | 39,89 | 45,80 | 51,88 | 59,31 | 65,98 |
| EER | (1) | kW/kW | 3,277 | 3,316 | 3,360 | 3,301 | 3,258 | 3,303 |
| ESEER | (1) | kW/kW | | | | | | |
| COOLING ONLY (EN14511 VALUE | , | | | | | | | |
| Cooling capacity | (1)(2) | kW | 116,8 | 132,0 | 153,6 | 171,0 | 192,8 | 217,6 |
| EER | (1)(2) | kW/kW | 3,210 | 3,250 | 3,290 | 3,240 | 3,200 | 3,240 |
| ENERGY EFFICIENCY | | | | | | | | |
| SEASONAL EFFICIENCY IN COOL | .ING (Reg. E | U 2016/2281) | | | | | | |
| Ambient refrigeration | | | | | | | | |
| Prated,c | (7) | kW | 117 | 132 | 154 | 171 | 193 | 218 |
| SEER | (7)(8) | | 4,12 | 3,99 | 3,99 | 4,03 | 4,12 | 3,94 |
| Performance ηs | (7)(9) | % | 162 | 157 | 157 | 158 | 162 | 155 |
| EXCHANGERS | | | | | | | | |
| HEAT EXCHANGER USER SIDE IN | | | | | | | | |
| Water flow | (1) | l/s | 5,597 | 6,326 | 7,361 | 8,191 | 9,237 | 10,43 |
| Pressure drop | (1) | kPa | 53,6 | 52,9 | 59,3 | 52,7 | 51,8 | 65,9 |
| REFRIGERANT CIRCUIT | | | | | | | | |
| Compressors nr. | | N° | 2 | 2 | 2 | 2 | 2 | 2 |
| No. Circuits | | N° | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant charge | | kg | 12,9 | 17,5 | 19,8 | 20,3 | 20,8 | 23,0 |
| NOISE LEVEL | (2) | 15(4) | 50 | 50 | 50 | 50 | | |
| Sound Pressure | (3) | dB(A) | 58 | 58 | 59 | 59 | 60 | 61 |
| Sound power level in cooling | (4)(5) | dB(A) | 90 | 90 | 91 | 91 | 92 | 93 |
| SIZE AND WEIGHT | (0) | | 0000 | 0000 | 0100 | 0100 | 0100 | 1005 |
| A | (6) | mm | 3360 | 3980 | 3160 | 3160 | 3160 | 4335 |
| В | (6) | mm | 1195 | 1195 | 2250 | 2250 | 2250 | 2250 |
| H Operating weight | (6) | mm | 1980 | 1980 | 2170 | 2170 | 2170 | 2170 |
| Operating weight | (6) | kg | 1000 | 1080 | 1510 | 1550 | 1570 | 1810 |

Notes:

08/09

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

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 made in compliance with ISO 9614.
5 Sound power level in cooling, outdoors.

6 Unit in standard configuration/execution, without optional accessories. 7 Parameter calculated according to [REGULATION (EU) N. 2016/2281] 8 Seasonal energy efficiency ratio 9 Seasonal space cooling energy efficiency

The units highlighted in this publication contain R454B [GWP₁₀₀ 466] fluorinated greenhouse gases. Certified data in EUROVENT



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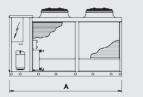
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R454B

| NX-G06/SL-CA | | | 0202P | 0252P | 0262P | 0302P | 0352P | 0402P |
|------------------------------|--------------|--------------|----------|----------|----------|----------|----------|----------|
| Power supply | | V/ph/Hz | 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 | 53,11 | 59,72 | 66,44 | 78,67 | 90,71 | 101,8 |
| Total power input | (1) | kW | 15,93 | 17,65 | 19,87 | 23,73 | 27,54 | 30,10 |
| EER | (1) | kW/kW | 3,340 | 3,373 | 3,337 | 3,321 | 3,298 | 3,382 |
| ESEER | (1) | kW/kW | | | | | | |
| COOLING ONLY (EN14511 VALUE | E) | | | | | | | |
| Cooling capacity | (1)(2) | kW | 53,00 | 59,60 | 66,30 | 78,50 | 90,40 | 101,5 |
| EER | (1)(2) | kW/kW | 3,280 | 3,330 | 3,290 | 3,260 | 3,220 | 3,310 |
| ENERGY EFFICIENCY | | | | | | | | |
| SEASONAL EFFICIENCY IN COO | LING (Reg. E | U 2016/2281) | | | | | | |
| Ambient refrigeration | () | | | | | | | |
| Prated,c | (7) | kW | 53,0 | 59,6 | 66,3 | 78,5 | 90,4 | 102 |
| SEER | (7)(8) | | 3,99 | 3,99 | 4,05 | 4,20 | 4,06 | 4,16 |
| Performance ηs | (7)(9) | % | 157 | 157 | 159 | 165 | 159 | 163 |
| EXCHANGERS | | | | | | | | |
| HEAT EXCHANGER USER SIDE I | | | | | | | | |
| Water flow | (1) | l/s | 2,540 | 2,856 | 3,177 | 3,762 | 4,338 | 4,867 |
| Pressure drop | (1) | kPa | 38,0 | 34,4 | 34,7 | 34,9 | 56,8 | 49,7 |
| REFRIGERANT CIRCUIT | | | - | - | - | - | | |
| Compressors nr. | | N° | 2 | 2 | 2 | 2 | 2 | 2 |
| No. Circuits | | N° | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant charge | | kg | 7,70 | 9,00 | 9,70 | 9,80 | 11,7 | 14,2 |
| NOISE LEVEL | | | | | | | | |
| Sound Pressure | (3) | dB(A) | 46 | 47 | 47 | 47 | 48 | 49 |
| Sound power level in cooling | (4)(5) | dB(A) | 78 | 79 | 79 | 79 | 80 | 81 |
| SIZE AND WEIGHT | | | | | | | | |
| Α | (6) | mm | 2825 | 3360 | 3360 | 3360 | 3980 | 3160 |
| B | (6) | mm | 1195 | 1195 | 1195 | 1195 | 1195 | 2250 |
| H | (6) | mm | 1980 | 1980 | 1980 | 1980 | 1980 | 2170 |
| Operating weight | (6) | kg | 670 | 760 | 770 | 780 | 940 | 1410 |

| NX-G06/SL-CA | | | 0452P | 0502P | 0562P | 0612P | 0712P | 0812P |
|------------------------------|-------------|---------------|----------|----------|----------|----------|----------|-------|
| NX-G00/SE-CA | | | | | | | | 0012P |
| Power supply | V/ph/Hz | 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 | 113,9 | 127,7 | 145,6 | 165,4 | 187,1 | 208,9 |
| Total power input | (1) | kW | 34,29 | 38,87 | 43,94 | 49,10 | 57,20 | 63,36 |
| EER | (1) | kW/kW | 3,321 | 3,283 | 3,317 | 3,369 | 3,271 | 3,295 |
| ESEER | (1) | kW/kW | | | | | | |
| COOLING ONLY (EN14511 VALUE) | | | | | | | | |
| Cooling capacity | (1)(2) | kW | 113,5 | 127,4 | 145,3 | 165,1 | 186,7 | 208,5 |
| EER | (1)(2) | kW/kW | 3,250 | 3,220 | 3,250 | 3,310 | 3,220 | 3,230 |
| ENERGY EFFICIENCY | | | | | | | | |
| SEASONAL EFFICIENCY IN COOL | ING (Reg. E | EU 2016/2281) | | | | | | |
| Ambient refrigeration | | | | | | | | |
| Prated,c | (7) | kW | 114 | 127 | 145 | 165 | 187 | 208 |
| SEER | (7)(8) | | 4,22 | 4,25 | 4,30 | 4,30 | 4,41 | 4,21 |
| Performance ηs | (7)(9) | % | 166 | 167 | 169 | 169 | 173 | 165 |
| EXCHANGERS | | | | | | | | |
| HEAT EXCHANGER USER SIDE IN | REFRIGEF | RATION | | | | | | |
| Water flow | (1) | l/s | 5,447 | 6,106 | 6,962 | 7,911 | 8,945 | 9,989 |
| Pressure drop | (1) | kPa | 50,8 | 49,3 | 53,1 | 49,1 | 48,5 | 60,5 |
| REFRIGERANT CIRCUIT | | | | | | | | |
| Compressors nr. | | N° | 2 | 2 | 2 | 2 | 2 | 2 |
| No. Circuits | | N° | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant charge | | kg | 14,9 | 17,4 | 21,6 | 23,5 | 23,6 | 27,0 |
| NOISE LEVEL | | | | | | | | |
| Sound Pressure | (3) | dB(A) | 50 | 50 | 51 | 52 | 53 | 54 |
| Sound power level in cooling | (4)(5) | dB(A) | 82 | 82 | 83 | 84 | 85 | 86 |
| SIZE AND WEIGHT | | | | | | | | |
| A | (6) | mm | 3160 | 3160 | 4335 | 4335 | 4335 | 5510 |
| В | (6) | mm | 2250 | 2250 | 2250 | 2250 | 2250 | 2250 |
| Н | (6) | mm | 2170 | 2170 | 2170 | 2170 | 2170 | 2170 |
| Operating weight | (6) | kg | 1450 | 1480 | 1740 | 1820 | 1850 | 2130 |









NX-N-G06

Heat pump, air source for outdoor installation, from 49,6 to 218 kW

| NX-N-G06/CA | | | 0202P | 0252P | 0262P | 0302P | 0352P | 0402P |
|------------------------------|---------|---------|------------|------------|------------|----------|----------|----------|
| 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 |
| PERFORMANCE | | | | | | | | |
| COOLING ONLY (GROSS VALUE) | | | | | | | | |
| Cooling capacity | (1) | kW | 49,19 | 57,23 | 64,17 | 77,67 | 88,29 | 98,07 |
| Total power input | (1) | kW | 16,76 | 18,54 | 20,90 | 25,29 | 28,80 | 32,07 |
| EER | (1) | kW/kW | 2,929 | 3,092 | 3,072 | 3,071 | 3,066 | 3,056 |
| ESEER | (1) | kW/kW | | | | | | |
| COOLING ONLY (EN14511 VALUE) | | | | | | | | |
| Cooling capacity | (1)(2) | kW | 49,10 | 57,10 | 64,00 | 77,50 | 88,00 | 97,80 |
| EER | (1)(2) | kW/kW | 2,890 | 3,040 | 3,030 | 3,030 | 3,000 | 3,000 |
| HEATING ONLY (GROSS VALUE) | | | | | | | | |
| Total heating capacity | (3) | kW | 56,66 | 66,73 | 71,55 | 83,30 | 96,89 | 106,0 |
| Total power input | (3) | kW | 16,84 | 19,88 | 21,32 | 24,83 | 28,16 | 31,50 |
| COP | (3) | kW/kW | 3,375 | 3,352 | 3,362 | 3,359 | 3,436 | 3,365 |
| HEATING ONLY (EN14511 VALUE) | | | | | | | | |
| Total heating capacity | (3)(2) | kW | 56,80 | 66,90 | 71,70 | 83,50 | 97,20 | 106,3 |
| COP | (3)(2) | kW/kW | 3,330 | 3,310 | 3,320 | 3,320 | 3,360 | 3,310 |
| ENERGY EFFICIENCY | | | | | | | | |
| SEASONAL EFFICIENCY IN HEATI | | | | | | | | |
| PDesign | (4) | kW | 41,9 | 49,1 | 53,1 | 62,0 | 71,3 | 77,3 |
| SCOP | (4)(13) | | 4,01 | 3,85 | 3,84 | 3,61 | 3,63 | 3,62 |
| Performance ηs | (4)(14) | % | 157 | 151 | 151 | 142 | 142 | 142 |
| Seasonal efficiency class | (15) | | A++ | A++ | A++ | A+ | - | - |
| EXCHANGERS | | | | | | | | |
| HEAT EXCHANGER USER SIDE IN | | | | | | | | |
| Water flow | (1) | l/s | 2,352 | 2,737 | 3,069 | 3,714 | 4,222 | 4,690 |
| Pressure drop | (1) | kPa | 32,6 | 31,5 | 32,3 | 34,0 | 53,8 | 46,2 |
| HEAT EXCHANGER USER SIDE IN | | | | | | | | |
| Water flow | (3) | l/s | 2,735 | 3,221 | 3,454 | 4,021 | 4,677 | 5,115 |
| Pressure drop | (3) | kPa | 44,0 | 43,7 | 41,0 | 39,8 | 66,0 | 54,9 |
| REFRIGERANT CIRCUIT | | | | | | | | |
| Compressors nr. | | N° | 2 | 2 | 2 | 2 | 2 | 2 |
| No. Circuits | | N° | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant charge | | kg | 13,5 | 14,9 | 15,2 | 18,0 | 24,8 | 28,2 |
| NOISE LEVEL | | 15(4) | | | | =0 | =0 | |
| Sound Pressure | (5) | dB(A) | 66 | 67 | 67 | 70 | 70 | 71 |
| Sound power level in cooling | (6)(7) | dB(A) | 84 | 85 | 85 | 88 | 88 | 89 |
| Sound power level in heating | (6)(8) | dB(A) | 84 | 85 | 85 | 88 | 88 | 89 |
| SIZE AND WEIGHT | (-) | | 0005 | 0005 | 0005 | 0005 | | 0000 |
| A | (9) | mm | 2395 | 2395 | 2395 | 2825 | 3360 | 3360 |
| B | (9) | mm | 1195 | 1195 | 1195 | 1195 | 1195 | 1195 |
| H | (9) | mm | 1865 | 1865 | 1865 | 1980 | 1980 | 1980 |
| Operating weight | (9) | kg | 670 | 700 | 700 | 830 | 940 | 990 |

Notes:

- Notes:
 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
 Values in compliance with EN14511
 Plant (side) heat exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C 87% R.H.
 Parameter calculated for LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 813/2013]
- 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, outdoors.8 Sound power level in heating, outdoors.9 Unit in standard configuration/execution, without optional accessories.

10 Parameter calculated according to [REGULATION (EU) N. 2016/2281]

- 10 Parameter Calculated according to [HEGULATION (EU) N. 2016/2281] 11 Seasonal energy efficiency ratio 12 Seasonal space cooling energy efficiency 13 Seasonal coefficient of performance 14 Seasonal space heating energy efficiency 15 Energy efficiency class referred to LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 811/2013]

The units highlighted in this publication contain R454B [GWP $_{\rm 100}$ 466] fluorinated greenhouse gases.

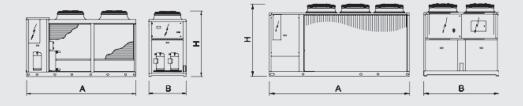
Certified data in EUROVENT

© R454B



HEATING COOLING SCROLL

| NX-N-G06/CA | | | 0452P | 0502P | 0562P | 0612P | 0712P | 0812P |
|------------------------------|-------------|-------------|----------|----------|----------|--------------|----------|----------|
| Power supply | | V/ph/Hz | 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 | 111,6 | 125,7 | 146,4 | 162,9 | 189,8 | 210,7 |
| Total power input | (1) | kW | 36,45 | 40,71 | 48,05 | 52,84 | 62,38 | 67,71 |
| EER | (1) | kW/kW | 3,058 | 3,088 | 3,044 | 3,085 | 3,042 | 3,112 |
| ESEER | (1) | kW/kW | | | | | | |
| COOLING ONLY (EN14511 VALUE |) | | | | | | | |
| Cooling capacity | (1)(2) | kW | 111,2 | 125,3 | 146,1 | 162,6 | 189,4 | 210,3 |
| EER | (1)(2) | kW/kW | 3,000 | 3,030 | 2,990 | 3,030 | 2,990 | 3,060 |
| HEATING ONLY (GROSS VALUE) | | | , | , | , | , | , | , |
| Total heating capacity | (3) | kW | 117,3 | 132,6 | 154,9 | 173,4 | 200,9 | 222,9 |
| Total power input | (3) | kW | 34,96 | 39,46 | 46,27 | 51,75 | 60,06 | 66,34 |
| COP | (3) | kW/kW | 3,351 | 3,357 | 3,346 | 3,354 | 3,343 | 3,362 |
| HEATING ONLY (EN14511 VALUE) | () | | -, | -, | -, | -, | -, | -, |
| Total heating capacity | (3)(2) | kW | 117,6 | 133,0 | 155.3 | 173,7 | 201,2 | 223.4 |
| COP | (3)(2) | kW/kW | 3.290 | 3,300 | 3,290 | 3,300 | 3.290 | 3,300 |
| ENERGY EFFICIENCY | (0)(=) | | 0,200 | 0,000 | 0,200 | 0,000 | 0,200 | 0,000 |
| SEASONAL EFFICIENCY IN HEAT | ING (Reg. E | U 813/2013) | | | | | | |
| PDesign | (4) | kW | 88,1 | 99.1 | 109 | 128 | 147 | 170 |
| SCOP | (4)(13) | | 3,71 | 3,60 | 3,47 | 3,59 | 3,42 | 3,38 |
| Performance ηs | (4)(14) | % | 145 | 141 | 136 | 140 | 134 | 132 |
| Seasonal efficiency class | (15) | ,,, | - | - | - | - | - | - |
| EXCHANGERS | (10) | | | | | | | |
| HEAT EXCHANGER USER SIDE IN | | ATION | | | | | | |
| Water flow | (1) | l/s | 5,336 | 6,009 | 7,003 | 7,792 | 9,075 | 10,08 |
| Pressure drop | (1) | kPa | 48,7 | 47,7 | 53,7 | 47,7 | 50,0 | 61,6 |
| HEAT EXCHANGER USER SIDE IN | . , | | .0,1 | ,. | 00,1 | ,. | 00,0 | 01,0 |
| Water flow | (3) | l/s | 5.662 | 6,403 | 7,479 | 8,370 | 9,696 | 10.76 |
| Pressure drop | (3) | kPa | 54,8 | 54,2 | 61,3 | 55,0 | 57,0 | 70,2 |
| REFRIGERANT CIRCUIT | (0) | u | 0.,0 | 0.,2 | 0.,0 | 00,0 | 0.,0 | ,_ |
| Compressors nr. | | N° | 2 | 2 | 2 | 2 | 2 | 2 |
| No. Circuits | | N° | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant charge | | kg | 30,2 | 34,7 | 41,7 | 48,7 | 54,3 | 63,8 |
| NOISE LEVEL | | 1.9 | 00,2 | 01,7 | ,, | 10,1 | 01,0 | 00,0 |
| Sound Pressure | (5) | dB(A) | 71 | 71 | 71 | 71 | 72 | 73 |
| Sound power level in cooling | (6)(7) | dB(A) | 89 | 90 | 91 | 91 | 92 | 93 |
| Sound power level in heating | (6)(8) | dB(A) | 89 | 90 | 91 | 91 | 92 | 93 |
| SIZE AND WEIGHT | (0)(0) | UD(A) | 03 | 30 | 51 | 51 | 52 | 30 |
| A | (9) | mm | 3360 | 3980 | 4110 | 4110 | 5110 | 5110 |
| В | (9) | mm | 1195 | 1195 | 2220 | 2220 | 2220 | 2220 |
| Н | (9) | mm | 1980 | 1980 | 2150 | 2150 | 2150 | 2150 |
| | . , | | 1090 | 1980 | 1740 | 2150 1840 | 2070 | 2150 |
| Operating weight | (9) | kg | 1090 | 1270 | 1740 | 1640 | 2070 | 2200 |







NX-N-G06

Heat pump, air source for outdoor installation, from 49,6 to 218 kW

| NX-N-G06/LN-CA | | | 0202P | 0252P | 0262P | 0302P | 0352P | 0402P |
|------------------------------|---------|---------|------------|------------|------------|----------|----------|----------|
| 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 |
| PERFORMANCE | | | | | | | | |
| COOLING ONLY (GROSS VALUE) | | | | | | | | |
| Cooling capacity | (1) | kW | 45,64 | 52,16 | 57,44 | 76,20 | 83,63 | 95,03 |
| Total power input | (1) | kW | 18,09 | 20,42 | 23,41 | 24,96 | 29,00 | 32,12 |
| EER | (1) | kW/kW | 2,519 | 2,559 | 2,453 | 3,048 | 2,883 | 2,960 |
| ESEER | (1) | kW/kW | | | | | | |
| COOLING ONLY (EN14511 VALUE) | | | | | | | | |
| Cooling capacity | (1)(2) | kW | 45,50 | 52,10 | 57,30 | 76,00 | 83,40 | 94,80 |
| EER | (1)(2) | kW/kW | 2,500 | 2,530 | 2,430 | 3,010 | 2,830 | 2,910 |
| HEATING ONLY (GROSS VALUE) | | | | | | | | |
| Total heating capacity | (3) | kW | 56,66 | 66,73 | 71,55 | 83,30 | 96,89 | 106,0 |
| Total power input | (3) | kW | 16,84 | 19,88 | 21,32 | 24,83 | 28,16 | 31,50 |
| COP | (3) | kW/kW | 3,375 | 3,352 | 3,362 | 3,359 | 3,436 | 3,365 |
| HEATING ONLY (EN14511 VALUE) | | | | | | | | |
| Total heating capacity | (3)(2) | kW | 56,80 | 66,90 | 71,70 | 83,50 | 97,20 | 106,3 |
| COP | (3)(2) | kW/kW | 3,330 | 3,310 | 3,320 | 3,320 | 3,360 | 3,310 |
| ENERGY EFFICIENCY | | | | | | | | |
| SEASONAL EFFICIENCY IN HEATI | | , | | | | | | |
| PDesign | (4) | kW | 41,9 | 49,1 | 53,1 | 62,0 | 71,3 | 77,3 |
| SCOP | (4)(13) | | 4,01 | 3,85 | 3,84 | 3,61 | 3,63 | 3,62 |
| Performance ηs | (4)(14) | % | 157 | 151 | 151 | 142 | 142 | 142 |
| Seasonal efficiency class | (15) | | A++ | A++ | A++ | A+ | - | - |
| EXCHANGERS | | | | | | | | |
| HEAT EXCHANGER USER SIDE IN | | | | | | | | |
| Water flow | (1) | l/s | 2,183 | 2,494 | 2,747 | 3,644 | 3,999 | 4,545 |
| Pressure drop | (1) | kPa | 28,0 | 26,2 | 25,9 | 32,7 | 48,3 | 43,4 |
| HEAT EXCHANGER USER SIDE IN | | | | | | | | |
| Water flow | (3) | l/s | 2,735 | 3,221 | 3,454 | 4,021 | 4,677 | 5,115 |
| Pressure drop | (3) | kPa | 44,0 | 43,7 | 41,0 | 39,8 | 66,0 | 54,9 |
| REFRIGERANT CIRCUIT | | | | | | | | |
| Compressors nr. | | N° | 2 | 2 | 2 | 2 | 2 | 2 |
| No. Circuits | | N° | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant charge | | kg | 13,5 | 14,9 | 15,2 | 18,0 | 24,8 | 28,2 |
| NOISE LEVEL | (5) | 15(4) | 50 | | | | 0.5 | |
| Sound Pressure | (5) | dB(A) | 59 | 60 | 61 | 64 | 65 | 66 |
| Sound power level in cooling | (6)(7) | dB(A) | 77 | 78 | 79 | 82 | 83 | 84 |
| Sound power level in heating | (6)(8) | dB(A) | 78 | 79 | 80 | 83 | 84 | 85 |
| SIZE AND WEIGHT | (0) | | 0005 | 0005 | 0005 | 0005 | 0000 | 0000 |
| A | (9) | mm | 2395 | 2395 | 2395 | 2825 | 3360 | 3360 |
| В | (9) | mm | 1195 | 1195 | 1195 | 1195 | 1195 | 1195 |
| H | (9) | mm | 1865 | 1865 | 1865 | 1980 | 1980 | 1980 |
| Operating weight | (9) | kg | 680 | 740 | 750 | 870 | 950 | 1000 |

Notes:

12/13

Notes:
Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
Values in compliance with EN14511
Plant (side) heat exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
Parameter calculated for LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 813/2013]

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, outdoors.8 Sound power level in heating, outdoors.9 Unit in standard configuration/execution, without optional accessories.

10 Parameter calculated according to [REGULATION (EU) N. 2016/2281]

10 Parameter Calculated according to [HEGULATION (EU) N. 2016/2281] 11 Seasonal energy efficiency ratio 12 Seasonal space cooling energy efficiency 13 Seasonal coefficient of performance 14 Seasonal space heating energy efficiency 15 Energy efficiency class referred to LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 811/2013]

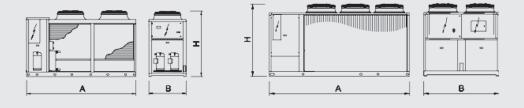
The units highlighted in this publication contain R454B [GWP $_{\rm 100}$ 466] fluorinated greenhouse gases.

Certified data in EUROVENT

HEATING COOLING SCROLL

r R454B

| NX-N-G06/LN-CA | | | 0452P | 0502P | 0562P | 0612P | 0712P | 0812P |
|------------------------------|-------------|-------------|----------|----------|----------|----------|----------|----------|
| Power supply | | V/ph/Hz | 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 | 105,5 | 119,9 | 138,5 | 158,7 | 181,4 | 203,9 |
| Total power input | (1) | kW | 36,88 | 40,62 | 46,63 | 51,90 | 59,49 | 65,30 |
| EER | (1) | kW/kW | 2,859 | 2,953 | 2,972 | 3,058 | 3,049 | 3,123 |
| ESEER | (1) | kW/kW | | | | | | |
| COOLING ONLY (EN14511 VALUE) |) | | | | | | | |
| Cooling capacity | (1)(2) | kW | 105,2 | 119,5 | 138,2 | 158,4 | 181,0 | 203,6 |
| EER | (1)(2) | kW/kW | 2,810 | 2,900 | 2,920 | 3,010 | 3,000 | 3,070 |
| HEATING ONLY (GROSS VALUE) | | | | | | | | |
| Total heating capacity | (3) | kW | 117,3 | 132,6 | 154,9 | 173,4 | 200,9 | 222,9 |
| Total power input | (3) | kW | 34,96 | 39,46 | 46,27 | 51,75 | 60,06 | 66,34 |
| COP | (3) | kW/kW | 3,351 | 3,357 | 3,346 | 3,354 | 3,343 | 3,362 |
| HEATING ONLY (EN14511 VALUE) | | | | | | | | |
| Total heating capacity | (3)(2) | kW | 117,6 | 133,0 | 155,3 | 173,7 | 201,2 | 223,4 |
| COP | (3)(2) | kW/kW | 3,290 | 3,300 | 3,290 | 3,300 | 3,290 | 3,300 |
| ENERGY EFFICIENCY | | | | | | | | |
| SEASONAL EFFICIENCY IN HEAT | ING (Reg. E | J 813/2013) | | | | | | |
| PDesign | (4) | kW | 88,1 | 99,1 | 109 | 128 | 147 | 170 |
| SCOP | (4)(13) | | 3,71 | 3,60 | 3,47 | 3,59 | 3,42 | 3,38 |
| Performance ηs | (4)(14) | % | 145 | 141 | 136 | 140 | 134 | 132 |
| Seasonal efficiency class | (15) | | - | - | - | - | - | - |
| EXCHANGERS | | | | | | | | |
| HEAT EXCHANGER USER SIDE IN | | | | | | | | |
| Water flow | (1) | l/s | 5,046 | 5,732 | 6,624 | 7,590 | 8,673 | 9,751 |
| Pressure drop | (1) | kPa | 43,6 | 43,4 | 48,0 | 45,2 | 45,6 | 57,7 |
| HEAT EXCHANGER USER SIDE IN | | | | | | | | |
| Water flow | (3) | l/s | 5,662 | 6,403 | 7,479 | 8,370 | 9,696 | 10,76 |
| Pressure drop | (3) | kPa | 54,8 | 54,2 | 61,3 | 55,0 | 57,0 | 70,2 |
| REFRIGERANT CIRCUIT | | | | | | | | |
| Compressors nr. | | N° | 2 | 2 | 2 | 2 | 2 | 2 |
| No. Circuits | | N° | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant charge | | kg | 30,2 | 34,7 | 41,7 | 48,7 | 54,3 | 63,8 |
| NOISE LEVEL | (=) | 15(4) | | 0.5 | 0.5 | 0.5 | | |
| Sound Pressure | (5) | dB(A) | 66 | 65 | 65 | 65 | 66 | 67 |
| Sound power level in cooling | (6)(7) | dB(A) | 84 | 84 | 85 | 85 | 86 | 87 |
| Sound power level in heating | (6)(8) | dB(A) | 85 | 85 | 86 | 86 | 87 | 88 |
| SIZE AND WEIGHT | | | 0000 | 0000 | 4440 | 4440 | 5110 | 5440 |
| A | (9) | mm | 3360 | 3980 | 4110 | 4110 | 5110 | 5110 |
| В | (9) | mm | 1195 | 1195 | 2220 | 2220 | 2220 | 2220 |
| H | (9) | mm | 1980 | 1980 | 2150 | 2150 | 2150 | 2150 |
| Operating weight | (9) | kg | 1100 | 1280 | 1750 | 1850 | 2080 | 2210 |







"BY FAR THE BEST PROOF IS EXPERIENCE"

Sir Francis Bacon British Philosopher (1561 - 1626)

Every project is characterised by different needs and system specifications for various climates. All these projects share high energy efficiency, maximum integration, and total reliability resulting from the Climaveneta brand experience.

ESSELUNGA NOVARA NOVARA - ITALY

Period: 2017 Application: Supermarket Plant type: Hydronic System Cooling capacity: 541 kW Heating capacity: 601 kW Installed machines: 2x NX-N SL CA T 0904, 1x NX-N/CA 0202 P, 1x MANAGER 3000

CULTURAL CENTRE, LA PLATA BUENOS AIRES - ARGENTINA

Period: 2015 - 2016 Application: Museum Plant type: Hydronic System Cooling capacity: 546 kW Heating capacity: 602 kW Installed machines: 2x NX-N-K 1004T, 14x WIZARD

PENGUIN SYDNEY AQUARIUM SYDNEY - AUSTRALIA

Period: 2016 - 2018 Application: Museum Plant type: Hydronic System Cooling capacity: 420 kW Installed machines: 2x NX/K/S 1014P

IKEA MUSEUM

2016-18 Almhult - Sweden

Application: Retail - Museum

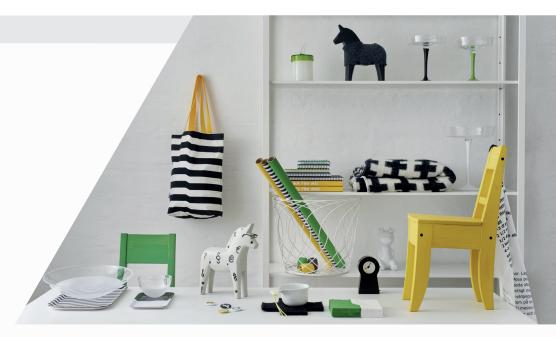
Plant type: Hydronic System

Cooling capacity: 880 kW

Installed machines: 1x NX/K 1214P, 2x NECS-FC/SL/S 0904

PROJECT

The Ikea Museum is a 7,000 sqm structure located in Almhult, Ikea's historical headquarters. It celebrates the 70-years history of the firm through its products and the stories of people who have bought its furniture over the years and is expected to become a tourist attraction. The four floors include fully furnished rooms, old catalogues, living spaces of the future and exhibits dedicated to the store's most popular and not-sopopular items.



CHALLENGE

The structure required a reliable and efficient HVAC system both in visitors areas and in technical rooms, in order to ensure a pleasant visiting experience, in line with the values celebrated by Ikea all over the world through a unique shopping experience.

SOLUTION

The M&E consultants opted for Climaveneta units for this prestigious project. A NX air source chiller with scroll compressors was installed for the air conditioning of the museum. The local temperate climate has made possible to equip the cooling system of the technical rooms with 2 NECS-FC chillers. Thanks to Climaveneta advanced free cooling technology system, they use outdoor temperature as a free source for cooling much more often than traditional free cooling chillers, thus maximising the energy saving achievable.

FERRARI LAND TARRAGONA - SPAIN

Period: 2017 Application: Sport structures Plant type: Hydronic System Cooling capacity: 1321 kW Heating capacity: 1495 kW Air flow: 110200 m³/h Installed machines: 2x FOCS-N/SL-CA; 3x NECS-N/B; 1x NX-N/K; 7x WZ-E

BILL S RESIDENCE MELBOURNE - AUSTRALIA

Period: 2017 - 2018 Application: Residential buildings Plant type: Hydronic System Cooling capacity: 44 kW Installed machines: 1x i-NX/S 0151P







Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a

MITSUBISHI ELECTRIC HYDRONICS & IT COOLING SYSTEMS S.p.A.

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