

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

PROCESS

CHILLERS

# NECS-Y / NX-Y

**NEW GENERATION OF AIR COOLED  
CHILLERS FOR IT COOLING APPLICATIONS.  
CAPACITY RANGE 39-885 kW,  
SCROLL COMPRESSORS AND R410A**



## NECS-Y / NX-Y

**HIGHEST PERFORMANCE  
IN ANY PROCESS ACTIVITY****Air source chillers for outdoor installation  
from 39 to 885 kW**

Outdoor unit for the production of chilled water with hermetic rotary scroll compressors, eco-friendly refrigerant R410A, axial-flow fans, plate or shell & tube heat exchangers and electronic expansion valve.

The range consists of 4 versions from 2 to 8 compressors in single-circuit or multi-circuit configuration.

**THE PERFECT SOLUTION  
FOR PROCESS COOLING**

In industrial processes a certain amount of heat is produced due to friction or process heating. Chillers employed in industrial applications remove this heat and through extremely reliable components they maintain appropriate temperature levels 24 hours a day, seven days a week.

**PROCESS COOLING  
APPLICATIONS**

- ✓ **Food industry**, where special attention is paid to safeguarding all the organoleptic properties of the products.
- ✓ **Chemical and Pharmaceutical**, during crystallization at low temperature or liquid cooling after sterilization.
- ✓ **Printing industry**, removing the heat generated by the friction of the printing rollers and cooling down the paper after it comes out of the ink drying ovens.
- ✓ **Plastics**, controlling the temperature of the molding process.
- ✓ **Winery**, keeping cooling in the fermentation stage.

**Cooling dependability  
and extended lifetime**

Designed for continuous operation, NX-Y and NECS-Y ranges meet the needs of the uninterrupted industry. Devoted devices and functions maximize the unit's uptime even in case of emergency circumstances.

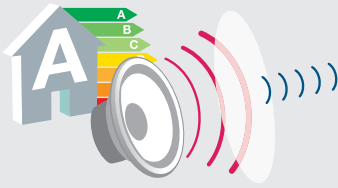
**Reduced  
operating costs**

Each component of NX-Y and NECS-Y ranges has been selected to ensure long life cycle and keep performance unchanged over time. This leads to reduced maintenance costs and higher energy saving throughout the whole unit's lifetime.

**VERSIONS**

NX-Y	0152P-0812P	39,2-227 kW	39,2 ▶	◀ 227								
NX-Y	0614P-1214P	159-327 kW		159 ▶	◀ 327							
NX-Y	0614T-1214T	159-352 kW		159 ▶	◀ 352							
NECS-Y	0202T-0612T	47,8-159 kW	47,8 ▶	◀ 159								
NECS-Y	1314-3218	334-885 kW			334 ▶				◀ 885			
			0	100	200	300	400	500	600	700	800	900

**Maximum reliability, production of the cooling energy by using multi-circuit and multi-compressor systems, unbeatable energy efficiency, system simplification: these are the advantages of the NX-Y and NECS-Y ranges.**



## HIGHEST ENERGY EFFICIENCY

When energy efficiency is key, Climaveneta NX-Y/CA represents the best solution in terms of top level performance. With Eurovent class A EER values, calculated on the basis of the restrictive European standard EN14511, NX-Y/CA ensures the highest efficiency values in its category.

NX-Y/CA also features three different versions with regards to sound emissions. In addition to the standard version, two further versions can be selected, LN-CA and SL-CA, which reduce noise by up to 10dB(A) while maintaining the same energy efficiency class.



## MAXIMUM RELIABILITY

Unit with multi-circuit chilling section (two to four, depending on the size) designed to ensure maximum efficiency both at full load and part loads, which assures uninterrupted service in the event one out of the two circuits is disrupted.

The number of compressors also ensures an accurate multi-step management of the cooling capacity provided by each unit in order to precisely meet the most demanding needs of the industrial applications.



## LOWEST ENVIRONMENTAL IMPACT

The new NX-Y range uses microchannel aluminum condenser coils on all units.

This means less refrigerant is needed compared to traditional copper coils, ensuring the lowest possible ratio between the refrigerant volume and the cooling capacity delivered, making this product range unique in its reference market.

The result is the ability to provide high cooling capacity units while completely respecting the environment.



## EXTRA DURABILITY

Particular attention has been paid to the unit's intensive use (24/7) and long-lasting operation.

Top-quality components and dedicated features such as Fast Restart or the Double power supply are key for an uninterruptible operation of the chiller under any unexpected circumstance.

## ABSOLUTE INTEGRABILITY



The availability of pumps and built-in water tanks reduce installation activities. The integrated hydronic module incorporates all the hydraulic components, thus optimizing installation space, time, and costs. All the units can be equipped with a multi-circuit shell and tube heat exchanger, designed and manufactured internally, with low pressure drops, ideal for use with particularly hard water or for serving indoor units.

# TECHNOLOGICAL CHOICES



## FULL-ALUMINUM COIL

The new NX-Y range uses microchannel aluminum condenser coils on all units. This means less refrigerant is needed compared to traditional copper coils, ensuring the lowest possible ratio between refrigerant volume and cooling capacity. Better resistance to corrosion is a key feature of this coil, ensuring a longer unit life cycle.

The reduction in weight achieved by using this technology also means the units can be handled more easily and safely, thus overcoming specific construction restrictions or limits in the positioning and installation of the unit.



## BUILT-IN HYDRONIC MODULE

The integrated hydronic module incorporates all the hydraulic components, thus optimizing installation space, time and costs.

On all versions it is possible to select single or twin pumps suitable for low and high pressure according to the installation needs. All the units can be equipped with a multi-circuit shell and tube heat exchanger, designed and manufactured internally in order to serve indoor units.

The shell and tube exchanger can achieve the highest flexibility during the unit installation, keeping the efficiency at the maximum level.

## EXCELLENCE IN RESULTS

### Compliance with the strictest European standards

The distinguishing feature of the new NX-Y units regards the calculation methods used to define the energy efficiency values. These values are now not only based on the capacity delivered and power consumed by the unit, but also taking into account heat exchanger pressure drop, or the available pressure head if the unit is installed with pumps, as required by European standard EN14511. In this way, energy efficiency is no longer an index for evaluating the unit alone, but rather extends the assessment by considering the unit within the system, consequently taking into account the energy required to pump the refrigerant or heat carrier fluid used in the system.



UP TO  
1500 kW

All NECS-Y units, as well as the complete range of Climaveneta air cooled liquid chillers up to 1.500 kW, are certified by the Eurovent program for units with capacities over 600kW. Climaveneta brand products are among the few units which participate in this non compulsory certification program.

This is consistent with Climaveneta's commitment for transparency as the best guarantee of quality and reliability for our partners and customers.



## ADVANCED CONTROL SYSTEM

The W3000 control unit with liquid crystal display (LCD) is fitted on all the units with a multi-language user interface, available as remote key pad for a remote connection up to 500 metres.

The Internal Clock manages a weekly schedule organised into time bands in order to optimise unit performance in IT applications units work 24/7.

Up to 10 daily time bands can be associated with different operating setpoints.

Supervision can be easily developed via proprietary devices or the integration in third party systems by means of the most common protocols as ModBus, Bacnet and Echelon LonWorks.

## ELECTRONIC EXPANSION VALVE

The use of the electronic expansion valve extends the operating conditions even with external temperature seasonal limits.

All the models of the NX-Y/CA high efficiency version and NECS-Y with a cooling capacity over 350kW make use of electronic valves as standard, for all sizes.

This component brings significant benefits, especially with variable loads and different outdoor climate conditions.

In these specific cases it is possible to make the system independent of continuous calibrations, thus adapting the process to different load conditions in a completely autonomous mode.

## Three sound emission levels

NX-Y range features three different sound emission levels for each energy class. This means the best unit can be identified according to its requirements that depends on where the system will be installed and what the application is.

- K:** liquid chiller with standard efficiency, compact version
- LN-K:** liquid chiller with standard efficiency, compact and low-noise version
- SL-K:** liquid chiller with standard efficiency, compact and super low-noise version
- CA:** high efficiency liquid chiller, compact version
- LN-CA:** high efficiency liquid chiller, compact and low-noise version
- SL-CA:** high efficiency liquid chiller, compact and super low-noise version

With the new NX-Y liquid chillers there are no more compromises when choosing the features, high efficiency and low noise can exist side-by-side without having to relinquish one or the other.

## Extended operating limits

The full range of Climaveneta liquid chillers can operate in the most extreme environmental conditions. All sizes and versions can work at full load up to +46°C outdoor temperature, always ensuring premium levels of energy performance. In addition, the high efficiency CA versions are able to operate in these conditions even in low-noise mode, finding their natural position in urban centres where the most restrictive environmental constraints in terms of noise occur. The new units are also able to ensure leaving water temperatures down to -12°C and, with certain precautions for the very low outdoor temperature, this range represent the ideal solution for most demanding IT Cooling processes.





# NX-Y

## 0152P - 0812P

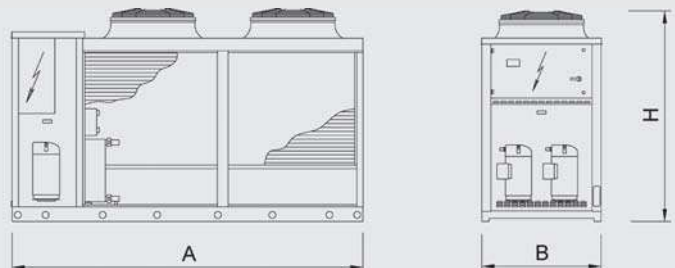
Chiller, air source  
for outdoor installation  
from 39,2 to 227 kW



NX-Y / K			0152P	0182P	0202P	0252P	0262P	0302P	0352P
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	39,2	44,3	51,9	58,9	65,0	77,6	88,5
Total power input	(1)	kW	13,5	15,6	18,1	20,5	23,5	26,8	31,3
EER	(1)	kW/kW	2,90	2,84	2,87	2,87	2,77	2,90	2,83
ESEER	(1)	kW/kW	4,41	4,37	4,41	4,39	4,33	4,23	4,41
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	39,0	44,0	51,6	58,6	64,7	77,2	87,9
EER	(1)(2)	kW/kW	2,83	2,78	2,80	2,82	2,71	2,84	2,76
ESEER	(1)(2)	kW/kW	4,19	4,15	4,20	4,20	4,17	4,06	4,16
Cooling energy class			C	C	C	C	C	C	C
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	39,0	44,0	51,6	58,6	64,7	77,2	87,9
SEPR HT	(7)(9)		5,39	5,41	5,37	5,32	5,29	5,19	5,12
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	20,5	23,7	27,7	31,3	35,8	42,3	48,4
SEPR MT	(8)(9)		3,55	3,42	3,56	3,53	3,61	3,38	3,43
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	1,88	2,12	2,48	2,82	3,11	3,71	4,23
Pressure drop	(1)	kPa	36,3	34,1	36,3	33,4	33,2	33,9	54,1
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	5,60	6,00	6,30	7,30	7,80	8,80	9,90
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	51	51	52	52	52	53	54
Sound power level in cooling	(4)(5)	dB(A)	83	83	84	84	84	85	86
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	1825	1825	1825	2395	2395	2395	2395
B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
H	(6)	mm	1865	1865	1865	1865	1865	1865	1865
Operating weight	(6)	kg	470	480	490	540	550	570	660

### Accessories:

- ▶ Microchannel coils with e-coating protection
- ▶ Traditional coils with copper tubes and aluminium fins, also available with prepainted fins or Fin Guard Silver protective treatment.
- ▶ Copper-Copper heat exchanger coils
- ▶ Compressor power factor correction
- ▶ Soft start
- ▶ Compressor suction and discharge valves
- ▶ High and low pressure gauges
- ▶ DVVF and DV2F devices for low air temperature operation
- ▶ Hydronic group with possible storage tank
- ▶ Anti-intrusion grills



NX-Y / K			0402P	0452P	0502P	0552P	0602P	0702P	0802P
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	102	114	127	144	166	189	207
Total power input	(1)	kW	35,4	40,1	44,9	52,3	57,7	67,9	77,9
EER	(1)	kW/kW	2,88	2,86	2,84	2,76	2,87	2,79	2,65
ESEER	(1)	kW/kW	4,04	4,13	4,13	4,24	4,08	4,15	3,89
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	101	114	127	144	165	189	206
EER	(1)(2)	kW/kW	2,82	2,79	2,78	2,70	2,82	2,74	2,60
ESEER	(1)(2)	kW/kW	3,86	3,96	3,95	4,04	3,92	3,99	3,74
Cooling energy class			C	C	C	C	C	C	D
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	101	114	127	144	165	189	206
SEPR HT	(7)(9)		4,88	4,90	5,00	4,94	4,96	4,85	4,60
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	54,5	62,0	69,9	79,3	89,4	104	116
SEPR MT	(8)(9)		3,15	3,15	3,23	3,26	3,26	3,17	2,99
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	4,88	5,47	6,09	6,90	7,92	9,06	9,88
Pressure drop	(1)	kPa	49,9	51,3	49,1	52,1	49,3	49,8	59,2
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	11,1	12,4	13,2	13,7	15,4	16,0	16,5
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	56	56	56	57	58	58	59
Sound power level in cooling	(4)(5)	dB(A)	88	88	88	89	90	90	91
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	2825	2825	2825	3360	3980	3980	3980
B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
H	(6)	mm	1980	1980	1980	1980	1980	1980	1980
Operating weight	(6)	kg	830	870	900	980	1130	1110	1140

NX-Y / LN-K			0152P	0182P	0202P	0252P	0262P	0302P	0352P
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	400/3/50
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	39,3	44,3	51,7	58,8	65,5	74,7	89,9
Total power input	(1)	kW	13,6	15,8	18,5	20,4	23,2	28,3	31,1
EER	(1)	kW/kW	2,89	2,80	2,79	2,88	2,82	2,64	2,89
ESEER	(1)	kW/kW	4,50	4,44	4,41	4,38	4,39	4,22	4,26
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	39,1	44,0	51,4	58,5	65,2	74,4	89,3
EER	(1)(2)	kW/kW	2,82	2,74	2,73	2,83	2,77	2,60	2,82
ESEER	(1)(2)	kW/kW	4,28	4,22	4,20	4,19	4,21	4,08	4,01
Cooling energy class			C	C	C	C	C	D	C
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	39,1	44,0	51,4	58,5	65,2	74,4	89,3
SEPR HT	(7)(9)		5,50	5,47	5,41	5,29	5,34	5,18	5,02
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	20,5	23,9	27,7	31,2	36,0	41,2	48,8
SEPR MT	(8)(9)		3,65	3,51	3,59	3,52	3,65	3,48	3,34
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	1,88	2,12	2,47	2,81	3,13	3,57	4,30
Pressure drop	(1)	kPa	36,3	34,2	36,0	33,3	33,7	31,4	55,9
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	5,80	6,00	7,10	7,30	7,80	8,80	10,5
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	47	47	47	48	48	48	51
Sound power level in cooling	(4)(5)	dB(A)	79	79	79	80	80	80	83
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	1825	1825	2395	2395	2395	2395	2825
B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
H	(6)	mm	1865	1865	1865	1865	1865	1865	1980
Operating weight	(6)	kg	480	500	540	570	570	580	780

**Notes:**

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511-3:2013.
- 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.
- Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
- Seasonal Energy Efficiency of Process Cooling at Medium Temperature [REGULATION (EU) N. 2015/1095]
- Seasonal space heating energy index

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.

Certified data in EUROVENT



## NX-Y 0152P - 0812P

Chiller, air source for outdoor installation  
39,2-227 kW

NX-Y / LN-K			0402P	0452P	0502P	0552P	0602P	0702P	0802P
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	99,4	113	125	140	163	179	194
Total power input	(1)	kW	35,9	39,3	44,2	52,9	58,1	70,3	81,9
EER	(1)	kW/kW	2,77	2,87	2,83	2,64	2,80	2,55	2,37
ESEER	(1)	kW/kW	4,11	4,29	4,33	4,36	4,20	4,10	3,83
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	98,8	112	124	139	162	179	193
EER	(1)(2)	kW/kW	2,71	2,81	2,78	2,60	2,75	2,51	2,33
ESEER	(1)(2)	kW/kW	3,92	4,11	4,14	4,17	4,04	3,95	3,70
Cooling energy class			C	C	C	D	C	D	E
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	98,8	112	124	139	162	179	193
SEPR HT	(7)(9)		5,01	5,10	5,23	5,05	5,14	4,79	4,58
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	54,2	61,5	69,0	77,7	89,1	100	111
SEPR MT	(8)(9)		3,34	3,29	3,35	3,33	3,40	3,18	2,98
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	4,75	5,40	5,99	6,69	7,78	8,58	9,28
Pressure drop	(1)	kPa	47,4	49,8	47,4	49,0	47,6	44,7	52,3
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	11,1	12,7	13,6	13,7	15,4	16,0	16,5
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	51	52	52	52	53	53	53
Sound power level in cooling	(4)(5)	dB(A)	83	84	84	84	85	85	85
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	2825	3360	3360	3360	3980	3980	3980
B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
H	(6)	mm	1980	1980	1980	1980	1980	1980	1980
Operating weight	(6)	kg	880	1000	1030	1060	1180	1150	1180

NX-Y / SL-K			0152P	0182P	0202P	0252P	0262P	0302P	0352P
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	400/3/50
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	39,4	44,6	52,3	58,9	65,9	77,7	88,5
Total power input	(1)	kW	13,9	16,1	18,2	20,3	22,9	27,4	30,5
EER	(1)	kW/kW	2,83	2,77	2,87	2,90	2,88	2,84	2,90
ESEER	(1)	kW/kW	4,28	4,25	4,49	4,15	4,22	4,30	4,40
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	39,2	44,3	52,0	58,6	65,6	77,3	87,9
EER	(1)(2)	kW/kW	2,77	2,71	2,81	2,84	2,82	2,78	2,83
ESEER	(1)(2)	kW/kW	4,07	4,05	4,27	3,99	4,05	4,12	4,14
Cooling energy class			C	C	C	C	C	C	C
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	39,2	44,3	52,0	58,6	65,6	77,3	87,9
SEPR HT	(7)(9)		5,28	5,32	5,48	5,07	5,17	5,27	5,14
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	20,6	24,0	28,0	31,2	36,0	42,6	48,0
SEPR MT	(8)(9)		3,46	3,36	3,64	3,30	3,46	3,47	3,39
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	1,88	2,13	2,50	2,82	3,15	3,72	4,23
Pressure drop	(1)	kPa	36,6	34,6	36,8	33,4	34,1	34,0	54,1
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	5,90	7,00	7,10	7,60	8,50	9,30	10,8
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	44	45	45	46	46	46	47
Sound power level in cooling	(4)(5)	dB(A)	76	77	77	78	78	78	79
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	2395	2395	2395	2825	2825	2825	3360
B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
H	(6)	mm	1865	1865	1865	1980	1980	1980	1980
Operating weight	(6)	kg	540	550	560	670	680	680	860





NX-Y / SL-K			0402P	0452P	0502P	0552P	0602P	0702P
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
Cooling capacity	(1)	kW	100	113	124	140	153	175
Total power input	(1)	kW	35,1	39,3	44,8	52,5	61,7	72,1
EER	(1)	kW/kW	2,85	2,89	2,77	2,68	2,48	2,43
ESEER	(1)	kW/kW	4,40	4,38	4,32	4,29	4,08	3,96
<b>COOLING ONLY (EN14511 VALUE)</b>								
Cooling capacity	(1)(2)	kW	99,4	113	124	140	152	175
EER	(1)(2)	kW/kW	2,79	2,82	2,72	2,63	2,44	2,40
ESEER	(1)(2)	kW/kW	4,19	4,18	4,15	4,12	3,95	3,81
Cooling energy class			C	C	C	D	E	E
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Process refrigeration at high temperature</b>								
Prated,c	(7)	kW	99,4	113	124	140	152	175
SEPR HT	(7)(9)		5,31	5,18	5,24	5,02	5,03	4,66
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>								
<b>Process refrigeration at medium temperature</b>								
Prated,c	(8)	kW	54,4	62,0	68,7	77,7	85,4	98,8
SEPR MT	(8)(9)		3,50	3,36	3,35	3,28	3,36	3,14
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
Water flow	(1)	l/s	4,78	5,42	5,95	6,72	7,32	8,39
Pressure drop	(1)	kPa	48,0	50,3	46,7	49,4	42,0	42,7
<b>REFRIGERANT CIRCUIT</b>								
Compressors nr.		N°	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1
Refrigerant charge		kg	11,9	13,1	14,0	14,5	15,4	16,0
<b>NOISE LEVEL</b>								
Sound Pressure	(3)	dB(A)	48	49	49	50	50	51
Sound power level in cooling	(4)(5)	dB(A)	80	81	81	82	82	83
<b>SIZE AND WEIGHT</b>								
A	(6)	mm	3360	3980	3980	3980	3980	3980
B	(6)	mm	1195	1195	1195	1195	1195	1195
H	(6)	mm	1980	1980	1980	1980	1980	1980
Operating weight	(6)	kg	960	1070	1080	1110	1180	1150

NX-Y / CA			0152P	0182P	0202P	0252P	0262P	0302P	0352P
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	400/3/50	400/3/50
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	41,7	47,4	55,0	62,5	69,6	85,0	96,6
Total power input	(1)	kW	12,8	14,5	16,7	19,3	21,8	26,5	30,2
EER	(1)	kW/kW	3,26	3,27	3,29	3,24	3,19	3,21	3,20
ESEER	(1)	kW/kW	4,56	4,65	4,45	4,45	4,49	4,28	4,41
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	41,4	47,1	54,7	62,2	69,2	84,5	95,9
EER	(1)(2)	kW/kW	3,17	3,18	3,21	3,16	3,12	3,14	3,11
ESEER	(1)(2)	kW/kW	4,30	4,41	4,23	4,26	4,28	4,07	4,13
Cooling energy class			A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	41,4	47,1	54,7	62,2	69,2	84,5	95,9
SEPR HT	(7)(9)		5,58	5,81	5,50	5,44	5,47	5,24	5,18
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	21,6	25,2	28,9	33,0	37,8	45,8	51,6
SEPR MT	(8)(9)		3,64	3,51	3,51	3,52	3,67	3,31	3,33
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	1,99	2,27	2,63	2,99	3,33	4,07	4,62
Pressure drop	(1)	kPa	40,9	39,1	40,7	37,6	38,0	40,7	64,4
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	6,30	7,90	8,00	8,10	8,70	10,0	12,0
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	52	52	53	53	54	56	56
Sound power level in cooling	(4)(5)	dB(A)	84	84	85	85	86	88	88
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	1825	2395	2395	2395	2395	2825	3360
B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
H	(6)	mm	1865	1865	1865	1865	1865	1980	1980
Operating weight	(6)	kg	480	540	550	560	570	680	830



## NX-Y 0152P - 0812P

Chiller, air source for outdoor installation  
39,2-227 kW

NX-Y / CA			0402P	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	400/3/50
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	108	122	138	160	178	201	227
Total power input	(1)	kW	33,6	38,3	42,6	48,9	55,4	63,5	70,5
EER	(1)	kW/kW	3,21	3,18	3,23	3,28	3,22	3,17	3,22
ESEER	(1)	kW/kW	4,43	4,54	4,34	4,32	4,31	4,38	4,17
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	107	121	137	159	178	200	226
EER	(1)(2)	kW/kW	3,13	3,10	3,16	3,20	3,15	3,10	3,14
ESEER	(1)(2)	kW/kW	4,19	4,30	4,13	4,08	4,13	4,18	3,96
Cooling energy class			A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	107	121	137	159	178	200	226
SEPR HT	(7)(9)		5,30	5,35	5,22	5,11	5,24	5,12	4,82
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	57,3	65,6	74,0	85,4	95,1	110	125
SEPR MT	(8)(9)		3,42	3,42	3,20	3,17	3,36	3,27	3,02
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	5,16	5,83	6,59	7,67	8,53	9,62	10,86
Pressure drop	(1)	kPa	56,0	58,2	57,4	64,4	57,2	56,2	71,5
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	13,3	14,3	15,3	18,8	20,3	23,0	24,5
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	58	58	58	59	59	60	61
Sound power level in cooling	(4)(5)	dB(A)	90	90	90	91	91	92	93
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	3360	3360	3980	3160	3160	3160	4335
B	(6)	mm	1195	1195	1195	2250	2250	2250	2250
H	(6)	mm	1980	1980	1980	2170	2170	2170	2170
Operating weight	(6)	kg	960	1000	1080	1510	1550	1570	1810

NX-Y / LN-CA			0152P	0182P	0202P	0252P	0262P	0302P	0352P
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	400/3/50
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	41,5	47,0	55,0	63,5	70,7	82,7	94,4
Total power input	(1)	kW	12,6	14,4	17,2	19,5	21,9	26,0	29,3
EER	(1)	kW/kW	3,29	3,26	3,20	3,26	3,23	3,18	3,22
ESEER	(1)	kW/kW	4,56	4,62	4,71	4,31	4,34	4,37	4,52
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	41,2	46,7	54,7	63,1	70,3	82,3	93,8
EER	(1)(2)	kW/kW	3,20	3,18	3,12	3,18	3,15	3,11	3,13
ESEER	(1)(2)	kW/kW	4,29	4,38	4,46	4,11	4,15	4,20	4,25
Cooling energy class			A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	41,2	46,7	54,7	63,1	70,3	82,3	93,8
SEPR HT	(7)(9)		5,57	5,78	5,75	5,28	5,33	5,42	5,37
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	21,5	25,0	29,2	33,5	38,3	44,8	50,7
SEPR MT	(8)(9)		3,62	3,48	3,78	3,39	3,54	3,50	3,47
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	1,98	2,25	2,63	3,04	3,38	3,95	4,52
Pressure drop	(1)	kPa	40,5	38,4	40,7	38,8	39,2	38,5	61,6
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	6,70	7,90	8,00	8,50	9,60	10,5	12,0
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	48	48	48	49	49	50	52
Sound power level in cooling	(4)(5)	dB(A)	80	80	80	81	81	82	84
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	2395	2395	2395	2825	2825	3360	3360
B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
H	(6)	mm	1865	1865	1865	1980	1980	1980	1980
Operating weight	(6)	kg	550	560	560	670	680	750	870



NX-Y / LN-CA			0402P	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	400/3/50
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	107	121	134	154	173	198	221
Total power input	(1)	kW	33,3	37,9	42,2	47,1	54,4	60,8	67,5
EER	(1)	kW/kW	3,23	3,18	3,18	3,27	3,18	3,26	3,28
ESEER	(1)	kW/kW	4,32	4,41	4,36	4,67	4,48	4,65	4,38
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	107	120	133	153	172	197	220
EER	(1)(2)	kW/kW	3,14	3,10	3,11	3,19	3,11	3,20	3,20
ESEER	(1)(2)	kW/kW	4,10	4,19	4,15	4,40	4,29	4,43	4,16
Cooling energy class			A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	107	120	133	153	172	197	220
SEPR HT	(7)(9)		5,25	5,27	5,30	5,44	5,46	5,40	5,07
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	57,0	65,0	72,8	82,9	93,2	108	122
SEPR MT	(8)(9)		3,37	3,37	3,32	3,51	3,66	3,50	3,22
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	5,14	5,77	6,42	7,36	8,26	9,49	10,58
Pressure drop	(1)	kPa	55,4	56,9	54,4	59,3	53,6	54,6	67,9
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	13,5	14,5	15,3	18,8	20,3	24,3	25,8
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	52	52	53	54	54	55	56
Sound power level in cooling	(4)(5)	dB(A)	84	84	85	86	86	87	88
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	3980	3980	3980	3160	3160	4335	4335
B	(6)	mm	1195	1195	1195	2250	2250	2250	2250
H	(6)	mm	1980	1980	1980	2170	2170	2170	2170
Operating weight	(6)	kg	1050	1080	1090	1510	1550	1810	1870

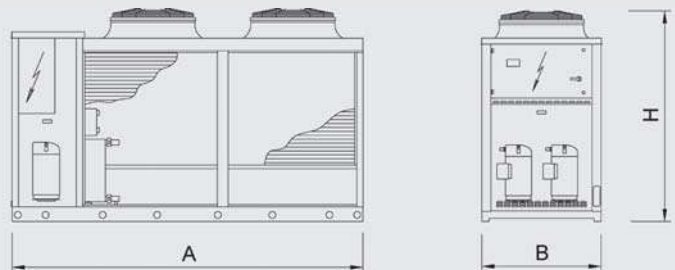
NX-Y / SL-CA			0152P	0182P	0202P	0252P	0262P	0302P	0352P
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	41,9	47,5	55,3	62,2	69,2	81,9	94,5
Total power input	(1)	kW	12,8	14,5	17,1	19,0	21,4	25,5	29,6
EER	(1)	kW/kW	3,27	3,28	3,23	3,27	3,23	3,21	3,19
ESEER	(1)	kW/kW	4,26	4,39	4,52	4,44	4,46	4,57	4,52
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	41,6	47,2	55,0	61,9	68,8	81,5	93,9
EER	(1)(2)	kW/kW	3,18	3,19	3,15	3,20	3,16	3,14	3,10
ESEER	(1)(2)	kW/kW	4,02	4,16	4,30	4,24	4,26	4,38	4,27
Cooling energy class			A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	41,6	47,2	55,0	61,9	68,8	81,5	93,9
SEPR HT	(7)(9)		5,30	5,58	5,58	5,41	5,44	5,61	5,38
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	21,6	25,2	29,2	32,8	37,4	44,4	50,8
SEPR MT	(8)(9)		3,36	3,27	3,59	3,47	3,62	3,62	3,49
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	2,00	2,27	2,65	2,97	3,31	3,92	4,52
Pressure drop	(1)	kPa	41,3	39,3	41,2	37,3	37,6	37,8	61,7
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	7,10	8,30	8,40	8,90	10,1	10,5	12,2
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	45	46	46	47	47	47	48
Sound power level in cooling	(4)(5)	dB(A)	77	78	78	79	79	79	80
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	2825	2825	2825	3360	3360	3360	3980
B	(6)	mm	1195	1195	1195	1195	1195	1195	1195
H	(6)	mm	1980	1980	1980	1980	1980	1980	1980
Operating weight	(6)	kg	650	660	670	760	770	780	940



## NX-Y 0152P - 0812P

Chiller, air source for outdoor installation  
39,2-227 kW

NX-Y / SL-CA			0412P	0462P	0512P	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	400/3/50
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	106	119	133	152	172	195	218
Total power input	(1)	kW	32,4	36,9	41,9	47,3	52,8	61,6	68,2
EER	(1)	kW/kW	3,27	3,22	3,17	3,21	3,26	3,16	3,19
ESEER	(1)	kW/kW	4,56	4,64	4,67	4,70	4,63	4,72	4,46
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	105	118	132	151	171	194	216
EER	(1)(2)	kW/kW	3,19	3,14	3,10	3,13	3,19	3,10	3,12
ESEER	(1)(2)	kW/kW	4,35	4,39	4,46	4,47	4,42	4,51	4,26
Cooling energy class			A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	105	118	132	151	171	194	216
SEPR HT	(7)(9)		5,52	5,46	5,63	5,51	5,61	5,49	5,17
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	56,4	64,0	72,6	82,1	92,6	107	121
SEPR MT	(8)(9)		3,53	3,53	3,56	3,54	3,69	3,57	3,30
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	5,07	5,67	6,36	7,25	8,24	9,32	10,40
Pressure drop	(1)	kPa	54,0	55,1	53,5	57,6	53,3	52,7	65,7
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1
Refrigerant charge		kg	14,1	15,0	18,5	20,1	22,7	25,6	27,1
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	49	50	50	51	52	53	54
Sound power level in cooling	(4)(5)	dB(A)	81	82	82	83	84	85	86
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	3160	3160	3160	4335	4335	4335	5510
B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1410	1450	1480	1740	1820	1850	2130





**Notes:**

- 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 EN14511-3:2013.
- 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 Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
- 8 Seasonal Energy Efficiency of Process Cooling at Medium Temperature [REGULATION (EU) N. 2015/1095]
- 9 Seasonal space heating energy index

**The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.**

**Certified data in EUROVENT**



NX-Y

**0614P - 1214P**

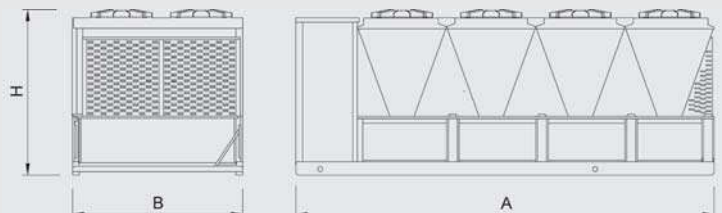
Chiller, air source for outdoor installation from 159 to 327 kW



NX-Y / K		0614P	0714P	0814P	0914P	1014P	1114P	1214P
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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
Cooling capacity	(1) kW	165	194	218	248	289	308	327
Total power input	(1) kW	58,3	66,7	78,9	88,6	99,0	108	118
EER	(1) kW/kW	2,83	2,91	2,76	2,80	2,92	2,85	2,76
ESEER	(1) kW/kW	4,06	4,39	4,30	4,41	4,26	4,27	4,18
<b>COOLING ONLY (EN14511 VALUE)</b>								
Cooling capacity	(1)(2) kW	164	193	217	247	288	307	325
EER	(1)(2) kW/kW	2,78	2,86	2,72	2,76	2,87	2,80	2,72
ESEER	(1)(2) kW/kW	3,85	4,16	4,08	4,18	4,05	4,08	3,99
Cooling energy class		C	C	C	C	C	C	C
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Process refrigeration at high temperature</b>								
Prated,c	(7) kW	164	193	217	247	288	307	325
SEPR HT	(7)(9)	4,78	5,17	5,20	5,21	5,01	5,02	5,02
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>								
<b>Process refrigeration at medium temperature</b>								
Prated,c	(8) kW	89,7	103	117	134	155	167	178
SEPR MT	(8)(9)	3,08	3,22	3,34	3,31	3,09	3,12	3,17
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
Water flow	(1) l/s	7,87	9,28	10,41	11,87	13,83	14,75	15,62
Pressure drop	(1) kPa	45,0	47,1	47,8	50,4	54,8	46,8	52,5
<b>REFRIGERANT CIRCUIT</b>								
Compressors nr.	N°	4	4	4	4	4	4	4
No. Circuits	N°	2	2	2	2	2	2	2
Refrigerant charge	kg	17,0	18,4	19,6	21,6	26,8	29,0	29,0
<b>NOISE LEVEL</b>								
Sound Pressure	(3) dB(A)	60	60	61	62	63	63	63
Sound power level in cooling	(4)(5) dB(A)	92	92	93	94	95	95	95
<b>SIZE AND WEIGHT</b>								
A	(6) mm	3160	3160	3160	3160	4335	4335	4335
B	(6) mm	2250	2250	2250	2250	2250	2250	2250
H	(6) mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6) kg	1510	1680	1690	1830	2250	2300	2330

**Accessories:**

- ▶ Microchannel coils with e-coating protection
- ▶ Traditional coils with copper tubes and aluminium fins, also available with prepainted fins or Fin Guard Silver protective treatment.
- ▶ Copper-Copper heat exchanger coils
- ▶ Electronic expansion valve
- ▶ Compressor power factor correction
- ▶ Soft start
- ▶ Compressor suction and discharge valves
- ▶ High and low pressure gauges
- ▶ DVVF and DVV2F devices for low air temperature operation
- ▶ Hydronic group with possible storage tank
- ▶ Anti-intrusion grills



NX-Y / LN-K			0614P	0714P	0814P	0914P	1014P	1114P	1214P
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	160	185	208	235	274	290	320
Total power input	(1)	kW	58,1	68,6	79,6	92,2	101	112	118
EER	(1)	kW/kW	2,75	2,70	2,62	2,55	2,71	2,60	2,70
ESEER	(1)	kW/kW	4,13	4,42	4,37	4,41	4,25	4,25	4,37
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	159	185	207	234	273	289	319
EER	(1)(2)	kW/kW	2,70	2,66	2,58	2,51	2,67	2,57	2,66
ESEER	(1)(2)	kW/kW	3,94	4,19	4,16	4,19	4,05	4,06	4,16
Cooling energy class			C	D	D	D	D	D	D
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	159	185	207	234	273	289	319
SEPR HT	(7)(9)		4,98	5,29	5,33	5,20	5,09	5,05	5,27
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	88,1	99,7	113	129	149	160	176
SEPR MT	(8)(9)		3,28	3,36	3,45	3,36	3,20	3,21	3,36
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	7,64	8,87	9,96	11,24	13,10	13,89	15,32
Pressure drop	(1)	kPa	42,4	43,0	43,7	45,2	49,2	41,5	50,5
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	17,0	18,4	19,6	21,6	26,8	29,0	29,0
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	54	54	55	56	57	57	58
Sound power level in cooling	(4)(5)	dB(A)	86	86	87	88	89	89	90
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	3160	3160	3160	3160	4335	4335	4335
B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1550	1730	1740	1870	2300	2350	2370

NX-Y / SL-K			0614P	0714P	0814P	0914P	1014P	1114P	1214P
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	159	180	214	241	264	296	312
Total power input	(1)	kW	56,3	70,7	77,8	89,3	104	109	120
EER	(1)	kW/kW	2,82	2,54	2,75	2,70	2,55	2,71	2,61
ESEER	(1)	kW/kW	4,34	4,41	4,40	4,41	4,28	4,34	4,26
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	158	179	213	240	263	295	311
EER	(1)(2)	kW/kW	2,78	2,51	2,71	2,66	2,51	2,68	2,57
ESEER	(1)(2)	kW/kW	4,13	4,21	4,19	4,20	4,09	4,15	4,07
Cooling energy class			C	D	C	D	D	D	D
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	158	179	213	240	263	295	311
SEPR HT	(7)(9)		5,20	5,30	5,41	5,31	5,12	5,17	5,15
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	87,4	97,6	116	131	145	162	172
SEPR MT	(8)(9)		3,43	3,40	3,48	3,40	3,25	3,26	3,28
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	7,60	8,60	10,25	11,54	12,63	14,16	14,93
Pressure drop	(1)	kPa	41,9	40,5	46,3	47,6	45,7	43,1	48,0
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	17,0	18,4	25,2	27,2	26,8	34,6	34,6
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	50	51	51	52	52	54	54
Sound power level in cooling	(4)(5)	dB(A)	82	83	83	84	84	86	86
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	3160	3160	4335	4335	4335	5510	5510
B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1550	1730	2030	2170	2300	2700	2730

**Notes:**

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511-3:2013.
- 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.
- Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
- Seasonal Energy Efficiency of Process Cooling at Medium Temperature [REGULATION (EU) N. 2015/1095]
- Seasonal space heating energy index

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.

Certified data in EUROVENT

NX-Y

**0614T - 1214T**

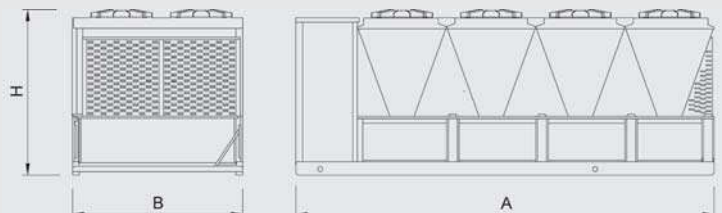
Chiller, air source for outdoor installation from 159 to 352 kW



NX-Y / K		0614T	0714T	0814T	0914T	1014T	1114T	1214T
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
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
Cooling capacity	(1) kW	165	194	218	248	289	308	327
Total power input	(1) kW	58,3	66,7	78,9	88,6	99,0	108	118
EER	(1) kW/kW	2,83	2,91	2,76	2,80	2,92	2,85	2,76
ESEER	(1) kW/kW	4,06	4,39	4,30	4,41	4,26	4,27	4,18
<b>COOLING ONLY (EN14511 VALUE)</b>								
Cooling capacity	(1)(2) kW	164	193	217	247	288	307	326
EER	(1)(2) kW/kW	2,79	2,87	2,71	2,76	2,86	2,81	2,73
ESEER	(1)(2) kW/kW	3,92	4,21	4,08	4,20	4,02	4,11	4,02
Cooling energy class		C	C	C	C	C	C	C
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Process refrigeration at high temperature</b>								
Prated,c	(7) kW	164	193	217	247	288	307	326
SEPR HT	(7)(9)	4,84	5,21	5,20	5,22	4,99	5,04	5,04
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>								
<b>Process refrigeration at medium temperature</b>								
Prated,c	(8) kW	89,8	103	117	134	155	167	178
SEPR MT	(8)(9)	3,10	3,24	3,34	3,32	3,08	3,12	3,18
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
Water flow	(1) l/s	7,87	9,28	10,41	11,87	13,83	14,75	15,62
Pressure drop	(1) kPa	23,3	32,4	50,9	45,5	61,7	38,0	42,7
<b>REFRIGERANT CIRCUIT</b>								
Compressors nr.	N°	4	4	4	4	4	4	4
No. Circuits	N°	2	2	2	2	2	2	2
Refrigerant charge	kg	22,0	22,0	24,6	26,0	31,6	35,4	35,4
<b>NOISE LEVEL</b>								
Sound Pressure	(3) dB(A)	60	60	61	62	63	63	63
Sound power level in cooling	(4)(5) dB(A)	92	92	93	94	95	95	95
<b>SIZE AND WEIGHT</b>								
A	(6) mm	3160	3160	3160	3160	4335	4335	4335
B	(6) mm	2250	2250	2250	2250	2250	2250	2250
H	(6) mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6) kg	1650	1810	1820	1950	2340	2530	2550

**Accessories:**

- ▶ Microchannel coils with e-coating protection
- ▶ Traditional coils with copper tubes and aluminium fins, also available with prepainted fins or Fin Guard Silver protective treatment.
- ▶ Copper-Copper heat exchanger coils
- ▶ Electronic expansion valve
- ▶ Compressor power factor correction
- ▶ Soft start
- ▶ Compressor suction and discharge valves
- ▶ High and low pressure gauges
- ▶ DVVF and DV2F devices for low air temperature operation
- ▶ Hydronic group with possible storage tank
- ▶ Anti-intrusion grills



NX-Y / LN-K			0614T	0714T	0814T	0914T	1014T	1114T	1214T
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	160	185	208	235	274	290	320
Total power input	(1)	kW	58,1	68,6	79,6	92,2	101	112	118
EER	(1)	kW/kW	2,75	2,70	2,62	2,55	2,71	2,60	2,70
ESEER	(1)	kW/kW	4,13	4,42	4,37	4,41	4,25	4,25	4,37
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	159	185	207	234	273	290	319
EER	(1)(2)	kW/kW	2,72	2,67	2,57	2,51	2,67	2,57	2,67
ESEER	(1)(2)	kW/kW	3,99	4,25	4,16	4,21	4,04	4,10	4,21
Cooling energy class			C	D	D	D	D	D	D
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	159	185	207	234	273	290	319
SEPR HT	(7)(9)		5,03	5,33	5,33	5,22	5,08	5,08	5,31
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	88,2	99,8	113	129	149	160	177
SEPR MT	(8)(9)		3,29	3,38	3,45	3,37	3,19	3,22	3,37
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	7,64	8,87	9,96	11,24	13,10	13,89	15,32
Pressure drop	(1)	kPa	21,9	29,6	46,5	40,7	55,4	33,7	41,0
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	22,0	22,0	24,6	26,0	31,6	35,4	35,4
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	54	54	55	56	57	57	58
Sound power level in cooling	(4)(5)	dB(A)	86	86	87	88	89	89	90
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	3160	3160	3160	3160	4335	4335	4335
B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1700	1860	1870	1990	2380	2580	2600

NX-Y / SL-K			0614T	0714T	0814T	0914T	1014T	1114T	1214T
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	159	180	214	241	264	296	312
Total power input	(1)	kW	56,3	70,7	77,8	89,3	104	109	120
EER	(1)	kW/kW	2,82	2,54	2,75	2,70	2,55	2,71	2,61
ESEER	(1)	kW/kW	4,34	4,41	4,40	4,41	4,28	4,34	4,26
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	158	179	213	240	263	295	311
EER	(1)(2)	kW/kW	2,79	2,52	2,71	2,66	2,51	2,68	2,58
ESEER	(1)(2)	kW/kW	4,18	4,24	4,19	4,20	4,07	4,17	4,10
Cooling energy class			C	D	C	D	D	D	D
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	158	179	213	240	263	295	311
SEPR HT	(7)(9)		5,25	5,32	5,41	5,31	5,11	5,19	5,17
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	87,5	97,7	116	131	145	162	173
SEPR MT	(8)(9)		3,45	3,43	3,48	3,41	3,24	3,27	3,30
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	7,60	8,60	10,25	11,54	12,63	14,16	14,93
Pressure drop	(1)	kPa	21,7	27,8	49,3	43,0	51,4	35,1	39,0
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	22,0	22,0	30,2	31,6	31,6	41,0	41,0
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	50	51	51	52	52	54	54
Sound power level in cooling	(4)(5)	dB(A)	82	83	83	84	84	86	86
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	3160	3160	4335	4335	4335	5510	5510
B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1700	1860	2160	2290	2380	2930	2950

**Notes:**

- 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 EN14511-3:2013.
- 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 Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
- 8 Seasonal Energy Efficiency of Process Cooling at Medium Temperature [REGULATION (EU) N. 2015/1095]
- 9 Seasonal space heating energy index

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.

Certified data in EUROVENT



## NX-Y 0614T - 1214T

Chiller, air source for outdoor installation from 159 to 352 kW

NX-Y / CA			0614T	0714T	0814T	0914T	1014T	1114T	1214T
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	174	205	235	266	302	330	352
Total power input	(1)	kW	54,4	65,0	72,9	84,1	95,8	103	111
EER	(1)	kW/kW	3,20	3,16	3,23	3,17	3,15	3,21	3,17
ESEER	(1)	kW/kW	4,31	4,26	4,45	4,49	4,43	4,35	4,37
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	174	204	234	265	301	329	351
EER	(1)(2)	kW/kW	3,16	3,11	3,16	3,11	3,11	3,16	3,12
ESEER	(1)(2)	kW/kW	4,17	4,06	4,20	4,24	4,26	4,17	4,18
Cooling energy class			A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	174	204	234	265	301	329	351
SEPR HT	(7)(9)		5,19	5,06	5,28	5,25	5,27	5,13	5,22
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	93,4	108	124	141	161	175	188
SEPR MT	(8)(9)		3,24	3,04	3,25	3,22	3,21	3,07	3,16
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	8,33	9,81	11,26	12,74	14,44	15,78	16,83
Pressure drop	(1)	kPa	26,1	36,2	59,5	52,4	36,5	43,6	49,6
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	22,0	27,6	30,2	31,6	35,4	41,0	41,0
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	60	61	62	63	63	64	65
Sound power level in cooling	(4)(5)	dB(A)	92	93	94	95	95	96	97
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	3160	4335	4335	4335	4335	5510	5510
B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1700	2150	2160	2290	2550	2930	2950

NX-Y / LN-CA			0614T	0714T	0814T	0914T	1014T	1114T	1214T
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	168	198	227	262	295	318	344
Total power input	(1)	kW	52,8	61,6	70,5	82,8	93,2	99,6	109
EER	(1)	kW/kW	3,17	3,22	3,23	3,17	3,16	3,19	3,17
ESEER	(1)	kW/kW	4,56	4,61	4,70	4,71	4,55	4,63	4,70
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	167	198	226	261	294	317	343
EER	(1)(2)	kW/kW	3,13	3,17	3,16	3,11	3,12	3,15	3,12
ESEER	(1)(2)	kW/kW	4,40	4,40	4,44	4,47	4,39	4,43	4,48
Cooling energy class			A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	167	198	226	261	294	317	343
SEPR HT	(7)(9)		5,54	5,68	5,76	5,76	5,51	5,58	5,68
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	90,9	105	121	140	158	171	186
SEPR MT	(8)(9)		3,58	3,50	3,64	3,64	3,38	3,44	3,54
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	8,01	9,49	10,87	12,53	14,08	15,21	16,47
Pressure drop	(1)	kPa	24,1	33,8	55,5	50,7	34,7	40,5	47,5
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	22,0	27,6	30,2	31,6	41,0	41,0	41,0
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	54	55	56	57	58	59	59
Sound power level in cooling	(4)(5)	dB(A)	86	87	88	89	90	91	91
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	3160	4335	4335	4335	5510	5510	5510
B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1700	2150	2160	2290	2880	2900	2930





NX-Y / SL-CA			0614T	0714T	0814T	0914T	1014T	1114T	1214T
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	167	195	224	259	292	317	344
Total power input	(1)	kW	52,3	61,0	69,9	82,0	92,6	99,6	109
EER	(1)	kW/kW	3,20	3,20	3,21	3,16	3,15	3,18	3,16
ESEER	(1)	kW/kW	4,69	4,70	4,68	4,72	4,72	4,68	4,70
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	167	194	223	258	291	316	342
EER	(1)(2)	kW/kW	3,16	3,15	3,14	3,11	3,11	3,13	3,11
ESEER	(1)(2)	kW/kW	4,52	4,49	4,42	4,47	4,55	4,49	4,47
Cooling energy class			A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	167	194	223	258	291	316	342
SEPR HT	(7)(9)		5,67	5,80	5,69	5,73	5,67	5,62	5,73
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	90,8	103	119	139	157	170	186
SEPR MT	(8)(9)		3,68	3,61	3,58	3,61	3,51	3,47	3,58
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	8,00	9,32	10,72	12,40	13,95	15,14	16,43
Pressure drop	(1)	kPa	24,1	32,7	53,9	49,6	34,1	40,1	47,2
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	4	4	4	4	4	4	4
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	27,6	27,6	35,8	37,2	41,0	41,0	41,0
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	51	51	52	53	54	55	55
Sound power level in cooling	(4)(5)	dB(A)	83	83	84	85	86	87	87
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	4335	4335	5510	5510	5510	5510	5510
B	(6)	mm	2250	2250	2250	2250	2250	2250	2250
H	(6)	mm	2170	2170	2170	2170	2170	2170	2170
Operating weight	(6)	kg	1980	2150	2490	2610	2880	2900	2930

**Notes:**

- Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
- Values in compliance with EN14511-3:2013.
- 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.
- Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
- Seasonal Energy Efficiency of Process Cooling at Medium Temperature [REGULATION (EU) N. 2015/1095]
- Seasonal space heating energy index

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.

Certified data in EUROVENT

## NECS-Y

## 0202T - 0612T

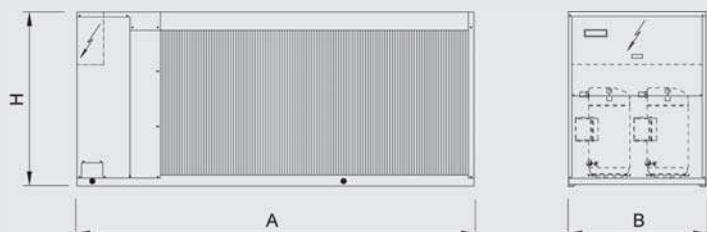
Chiller, air source for outdoor installation from 47,8 to 159 kW



NECS-Y / B		0202T	0252T	0302T	0352T	0412T	0452T	0512T	0552T	0612T	
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									
<b>PERFORMANCE</b>											
<b>COOLING ONLY (GROSS VALUE)</b>											
Cooling capacity	(1)	kW	53,0	58,1	76,0	86,8	96,9	112	127	145	159
Total power input	(1)	kW	18,3	21,5	27,8	31,9	36,3	39,7	43,7	50,2	58,6
EER	(1)	kW/kW	2,90	2,70	2,73	2,72	2,67	2,83	2,90	2,89	2,71
ESEER	(1)	kW/kW	3,72	3,47	3,52	3,49	3,41	3,59	3,65	3,66	3,44
<b>COOLING ONLY (EN14511 VALUE)</b>											
Cooling capacity	(1)(2)	kW	52,9	58,0	75,8	86,5	96,7	112	126	144	158
EER	(1)(2)	kW/kW	2,88	2,68	2,71	2,69	2,65	2,80	2,87	2,85	2,67
ESEER	(1)(2)	kW/kW	3,68	3,41	3,45	3,40	3,36	3,51	3,59	3,58	3,37
Cooling energy class			C	D	C	D	D	C	C	C	D
<b>ENERGY EFFICIENCY</b>											
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>											
<b>Process refrigeration at high temperature</b>											
Prated,c	(7)	kW	52,9	58,0	75,8	86,5	96,7	112	126	144	158
SEPR HT	(7)(9)		5,01	4,61	4,65	4,60	4,56	4,73	4,80	4,82	4,56
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>											
<b>Process refrigeration at medium temperature</b>											
Prated,c	(8)	kW	28,3	31,0	42,6	48,2	53,4	61,9	69,9	79,6	87,7
SEPR MT	(8)(9)		3,32	3,12	3,27	3,24	3,19	3,23	3,23	3,30	3,23
<b>EXCHANGERS</b>											
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>											
Water flow	(1)	l/s	2,54	2,78	3,63	4,15	4,63	5,37	6,06	6,93	7,58
Pressure drop	(1)	kPa	6,25	7,64	13,1	17,2	12,8	17,2	15,7	21,7	25,9
<b>REFRIGERANT CIRCUIT</b>											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Refrigerant charge		kg	10,3	10,3	12,6	13,7	16,2	17,8	21,4	25,1	22,9
<b>NOISE LEVEL</b>											
Sound Pressure	(3)	dB(A)	53	53	53	54	54	54	55	55	55
Sound power level in cooling	(4)(5)	dB(A)	85	85	85	86	86	86	87	87	87
<b>SIZE AND WEIGHT</b>											
A	(6)	mm	2195	2195	2195	2195	2745	2745	3245	3245	3245
B	(6)	mm	1120	1120	1120	1120	1120	1120	1120	1120	1120
H	(6)	mm	1465	1465	1465	1465	1465	1465	1665	1665	1665
Operating weight	(6)	kg	625	625	665	765	920	990	1135	1180	1155

**Accessories:**

- ▶ Traditional coils available with pre-painted fins or Fin Guard Silver protective treatment.
- ▶ Copper-Copper heat exchanger coils
- ▶ Compressor power factor correction
- ▶ Soft start
- ▶ Compressor suction and discharge valves
- ▶ High and low pressure gauges
- ▶ Compact keyboard with LCD display and multi-language user interface (referred to the shown picture)
- ▶ Hydronic group



NECS-Y / LN		0202T	0252T	0302T	0352T	0412T	0452T	0512T	0552T	0612T	
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									
<b>PERFORMANCE</b>											
<b>COOLING ONLY (GROSS VALUE)</b>											
Cooling capacity	(1)	kW	50,7	57,6	74,2	84,4	96,4	109	122	139	151
Total power input	(1)	kW	18,9	21,2	28,6	33,7	37,1	41,4	45,9	53,1	62,4
EER	(1)	kW/kW	2,68	2,72	2,59	2,50	2,60	2,63	2,66	2,61	2,42
ESEER	(1)	kW/kW	3,50	3,51	3,37	3,22	3,33	3,36	3,38	3,34	3,11
<b>COOLING ONLY (EN14511 VALUE)</b>											
Cooling capacity	(1)(2)	kW	50,6	57,5	74,0	84,2	96,2	108	122	138	150
EER	(1)(2)	kW/kW	2,67	2,70	2,57	2,48	2,58	2,60	2,64	2,59	2,39
ESEER	(1)(2)	kW/kW	3,46	3,46	3,30	3,17	3,27	3,30	3,32	3,28	3,04
Cooling energy class			D	C	D	E	D	D	D	D	E
<b>ENERGY EFFICIENCY</b>											
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>											
<b>Process refrigeration at high temperature</b>											
Prated,c	(7)	kW	50,6	57,5	74,0	-	96,2	108	122	138	-
SEPR HT	(7)(9)		4,78	4,72	4,51	-	4,52	4,51	4,50	4,51	-
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>											
<b>Process refrigeration at medium temperature</b>											
Prated,c	(8)	kW	27,3	30,8	42,0	47,3	53,3	60,5	68,0	77,2	84,6
SEPR MT	(8)(9)		3,26	3,20	3,21	3,04	3,16	3,15	3,11	3,17	3,02
<b>EXCHANGERS</b>											
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>											
Water flow	(1)	l/s	2,42	2,75	3,55	4,04	4,61	5,20	5,83	6,64	7,21
Pressure drop	(1)	kPa	5,70	7,50	12,5	16,3	12,7	16,2	14,6	19,9	23,5
<b>REFRIGERANT CIRCUIT</b>											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Refrigerant charge		kg	10,3	12,6	11,9	14,8	17,8	19,6	21,4	25,1	22,9
<b>NOISE LEVEL</b>											
Sound Pressure	(3)	dB(A)	48	48	49	51	51	51	52	52	52
Sound power level in cooling	(4)(5)	dB(A)	80	80	81	83	83	83	84	84	84
<b>SIZE AND WEIGHT</b>											
A	(6)	mm	2195	2195	2745	2745	2745	2745	3245	3245	3245
B	(6)	mm	1120	1120	1120	1120	1120	1120	1120	1120	1120
H	(6)	mm	1465	1465	1465	1665	1665	1665	1665	1665	1665
Operating weight	(6)	kg	625	650	715	840	965	1025	1135	1180	1155

NECS-Y / SL		0202T	0252T	0302T	0352T	0412T	0452T	0512T	
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							
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	47,8	55,5	69,9	85,4	96,8	106	117
Total power input	(1)	kW	20,3	22,6	30,9	33,6	37,3	43,2	48,1
EER	(1)	kW/kW	2,35	2,46	2,26	2,54	2,60	2,46	2,44
ESEER	(1)	kW/kW	3,13	3,19	3,00	3,25	3,30	3,14	3,14
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	47,7	55,4	69,7	85,2	96,6	106	117
EER	(1)(2)	kW/kW	2,34	2,44	2,25	2,52	2,57	2,43	2,42
ESEER	(1)(2)	kW/kW	3,09	3,14	2,93	3,19	3,25	3,09	3,09
Cooling energy class			E	E	F	D	D	E	E
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	-	-	-	-	-	-	-
SEPR HT	(7)(9)		-	-	-	-	-	-	-
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	26,2	29,8	40,5	47,7	53,4	59,5	66,1
SEPR MT	(8)(9)		3,04	2,97	2,98	3,02	3,06	2,97	2,98
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	2,29	2,65	3,34	4,08	4,63	5,07	5,62
Pressure drop	(1)	kPa	5,08	6,95	11,1	16,7	12,8	15,4	13,5
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	12,6	11,9	14,9	17,0	20,5	20,5	21,4
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	45	46	46	49	49	49	50
Sound power level in cooling	(4)(5)	dB(A)	77	78	78	81	81	81	82
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	2195	2745	2745	3245	3245	3245	3245
B	(6)	mm	1100	1100	1100	1100	1100	1100	1100
H	(6)	mm	1465	1465	1465	1665	1665	1665	1665
Operating weight	(6)	kg	650	700	750	915	1050	1075	1115

**Notes:**

- 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 EN14511-3:2013.
- 3 Seasonal space heating energy index
- 4 Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
- 5 Plant (side) cooling exchanger water (in/out) 16°C/ 10°C; Source (side) heat exchanger air (in) 35°C.
- 6 Plant (side) cooling exchanger water (in/out) 23°C/ 15°C; Source (side) heat exchanger air (in) 35°C.
- 7 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.
- 8 Sound power on the basis of measurements made in compliance with ISO 9614.
- 9 Sound power level in cooling, outdoors.
- 10 Unit in standard configuration/execution, without optional accessories.

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.

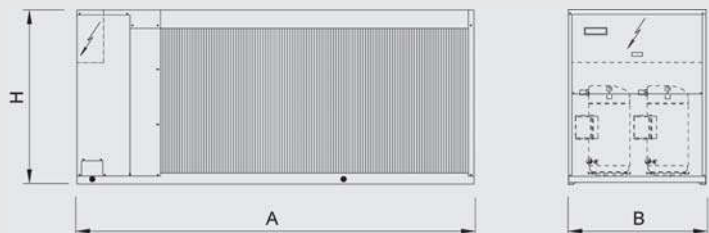
Certified data in EUROVENT



## NECS-Y 0202T - 0612T

Chiller, air source for outdoor installation  
from 47,8 to 159 kW

NECS-Y / HT			0202T	0252T	0302T	0352T	0412T	0452T	0512T
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	55,0	61,6	80,6	91,4	104	116	130
Total power input	(1)	kW	17,3	20,3	25,9	30,5	33,7	38,6	42,2
EER	(1)	kW/kW	3,18	3,03	3,11	3,00	3,09	3,00	3,08
ESEER	(1)	kW/kW	4,07	3,81	3,93	3,76	3,87	3,76	3,86
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	54,9	61,5	80,4	91,1	104	115	130
EER	(1)(2)	kW/kW	3,16	3,01	3,08	2,96	3,06	2,96	3,05
ESEER	(1)(2)	kW/kW	3,99	3,75	3,85	3,67	3,78	3,69	3,79
Cooling energy class			A	B	B	B	B	B	B
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	54,9	61,5	80,4	91,1	104	115	130
SEPR HT	(7)(9)		5,39	5,00	5,05	4,85	5,01	4,92	5,05
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	29,1	32,7	44,3	49,8	56,1	63,1	71,2
SEPR MT	(8)(9)		3,51	3,26	3,46	3,30	3,35	3,29	3,32
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	2,63	2,94	3,86	4,37	4,99	5,53	6,21
Pressure drop	(1)	kPa	6,72	8,58	14,7	19,1	14,9	18,3	16,5
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	12,6	11,9	14,9	17,0	20,5	20,5	21,4
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	53	54	54	55	55	55	55
Sound power level in cooling	(4)(5)	dB(A)	85	86	86	87	87	87	87
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	2195	2745	2745	3245	3245	3245	3245
B	(6)	mm	1120	1120	1120	1120	1120	1120	1120
H	(6)	mm	1465	1465	1465	1665	1665	1665	1665
Operating weight	(6)	kg	650	700	750	915	1050	1075	1115





**Notes:**

- 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 EN14511-3:2013.
- 3 Seasonal space heating energy index
- 4 Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
- 5 Plant (side) cooling exchanger water (in/out) 16°C/ 10°C; Source (side) heat exchanger air (in) 35°C.
- 6 Plant (side) cooling exchanger water (in/out) 23°C/ 15°C; Source (side) heat exchanger air (in) 35°C.
- 7 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.
- 8 Sound power on the basis of measurements made in compliance with ISO 9614.
- 9 Sound power level in cooling, outdoors.
- 10 Unit in standard configuration/execution, without optional accessories.

**The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.**

**Certified data in EUROVENT**



## NECS-Y

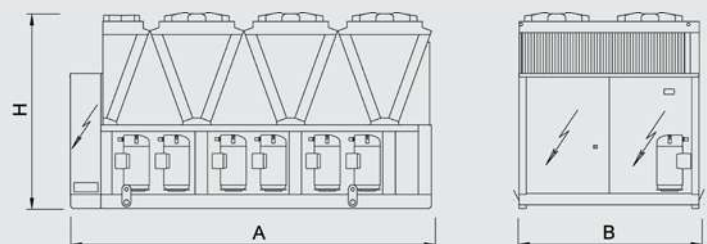
1314 - 3218

Chiller, air source for  
outdoor installation  
from 334 to 885 kW

NECS-Y / B		1314	1414	1614	1715	1816	2015
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>							
<b>COOLING ONLY (GROSS VALUE)</b>							
Cooling capacity	(1) kW	354	379	413	458	501	526
Total power input	(1) kW	124	130	148	160	172	184
EER	(1) kW/kW	2,85	2,91	2,80	2,86	2,92	2,86
ESEER	(1) kW/kW	4,16	4,24	4,04	4,19	4,21	4,07
<b>COOLING ONLY (EN14511 VALUE)</b>							
Cooling capacity	(1)(2) kW	353	377	412	456	499	524
EER	(1)(2) kW/kW	2,80	2,87	2,75	2,81	2,87	2,82
ESEER	(1)(2) kW/kW	3,95	4,06	3,86	3,99	3,99	3,91
Cooling energy class		C	C	C	C	C	C
<b>ENERGY EFFICIENCY</b>							
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>							
<b>Process refrigeration at high temperature</b>							
Prated,c	(7) kW	353	377	-	-	-	-
SEPR HT	(7)(9)	4,86	4,86	-	-	-	-
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>							
<b>Process refrigeration at medium temperature</b>							
Prated,c	(8) kW	196	211	234	255	274	296
SEPR MT	(8)(9)	3,18	3,13	2,98	3,24	3,32	3,05
<b>EXCHANGERS</b>							
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>							
Water flow	(1) l/s	16,94	18,12	19,77	21,91	23,97	25,14
Pressure drop	(1) kPa	54,0	43,8	52,2	48,5	58,1	39,3
<b>REFRIGERANT CIRCUIT</b>							
Compressors nr.	N°	4	4	4	5	6	5
No. Circuits	N°	2	2	2	2	2	2
Refrigerant charge	kg	39,0	45,0	45,0	53,0	58,0	63,0
<b>NOISE LEVEL</b>							
Sound Pressure	(3) dB(A)	64	64	64	64	65	65
Sound power level in cooling	(4)(5) dB(A)	96	96	96	96	97	97
<b>SIZE AND WEIGHT</b>							
A	(6) mm	3905	3905	3905	5080	5080	5080
B	(6) mm	2260	2260	2260	2260	2260	2260
H	(6) mm	2450	2450	2450	2450	2450	2450
Operating weight	(6) kg	2730	2770	2800	3400	3650	3690

**Accessories:**

- ▶ Set-up for remote connectivity with ModBus/Echelon protocol cards
- ▶ Remote control keyboard (distance to 200m and to 500m)
- ▶ Soft starters



NECS-Y / SL			1314	1414	1614	1715	1816	2015	2116
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	334	358	397	431	465	498	532
Total power input	(1)	kW	129	137	153	168	183	192	206
EER	(1)	kW/kW	2,58	2,61	2,60	2,57	2,55	2,60	2,58
ESEER	(1)	kW/kW	4,29	4,31	4,21	4,33	4,36	4,26	4,37
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	332	357	396	430	463	496	531
EER	(1)(2)	kW/kW	2,55	2,58	2,56	2,53	2,51	2,57	2,55
ESEER	(1)(2)	kW/kW	4,10	4,15	4,03	4,14	4,15	4,12	4,19
Cooling energy class			D	D	D	D	D	D	D
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	332	357	396	430	463	496	531
SEPR HT	(7)(9)		5,14	5,04	5,02	5,03	5,11	5,00	5,05
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	187	202	227	244	260	284	301
SEPR MT	(8)(9)		3,42	3,30	3,24	3,29	3,39	3,21	3,28
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	15,95	17,13	19,01	20,63	22,24	23,80	25,46
Pressure drop	(1)	kPa	47,8	39,2	48,2	43,0	50,0	35,2	40,3
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	4	4	4	5	6	5	6
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	42,0	45,0	54,0	57,0	55,0	72,0	71,0
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	54	54	54	54	54	54	54
Sound power level in cooling	(4)(5)	dB(A)	86	86	86	87	87	87	87
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	5080	5080	5080	6255	6255	6255	7430
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(6)	kg	3060	3160	3200	3900	4110	4190	4640

NECS-Y / SL			2316	2416	2418	2618	2818	3018	3218
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	579	596	616	666	718	758	795
Total power input	(1)	kW	220	230	245	258	275	288	306
EER	(1)	kW/kW	2,63	2,59	2,52	2,58	2,61	2,63	2,60
ESEER	(1)	kW/kW	4,38	4,29	4,32	4,39	4,36	4,39	4,27
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	577	594	614	664	716	755	792
EER	(1)(2)	kW/kW	2,60	2,56	2,49	2,55	2,58	2,60	2,56
ESEER	(1)(2)	kW/kW	4,20	4,12	4,15	4,19	4,19	4,21	4,09
Cooling energy class			D	D	E	D	D	D	D
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Process refrigeration at high temperature</b>									
Prated,c	(7)	kW	577	594	614	664	716	755	792
SEPR HT	(7)(9)		5,01	5,01	5,20	5,20	5,12	5,05	5,03
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>									
<b>Process refrigeration at medium temperature</b>									
Prated,c	(8)	kW	330	-	345	375	405	430	454
SEPR MT	(8)(9)		3,24	-	3,45	3,44	3,33	3,26	3,23
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	27,70	28,49	29,45	31,87	34,32	36,24	38,00
Pressure drop	(1)	kPa	40,8	43,1	41,6	48,7	38,2	42,6	46,8
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	6	6	8	8	8	8	8
No. Circuits		N°	3	2	4	4	4	4	4
Refrigerant charge		kg	77,0	86,0	89,0	89,0	93,0	103	112
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	55	55	55	56	57	57	57
Sound power level in cooling	(4)(5)	dB(A)	88	88	88	89	90	90	90
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	7430	7430	7430	8605	9780	9780	9780
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2450	2450	2450	2450	2450	2450	2450
Operating weight	(6)	kg	4730	4790	5410	5810	6160	6200	6250

**Notes:**

- 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 EN14511-3:2013.
- 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 Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
- 8 Seasonal Energy Efficiency of Process Cooling at Medium Temperature [REGULATION (EU) N. 2015/1095]
- 9 Seasonal space heating energy index

The units highlighted in this publication contain HFC R410A [GWP<sub>100</sub> 2088] fluorinated greenhouse gases.

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## NECS-Y 1314-3218

Chiller, air source for outdoor installation  
from 334 to 885 kW

NECS-Y / CA			1314	1414	1614	1715	1816	2015	2116	
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	
<b>PERFORMANCE</b>										
<b>COOLING ONLY (GROSS VALUE)</b>										
Cooling capacity	(1)	kW	370	391	438	481	518	549	591	
Total power input	(1)	kW	120	125	142	154	166	177	189	
EER	(1)	kW/kW	3,10	3,13	3,10	3,12	3,11	3,10	3,12	
ESEER	(1)	kW/kW	4,45	4,48	4,39	4,54	4,50	4,42	4,48	
<b>COOLING ONLY (EN14511 VALUE)</b>										
Cooling capacity	(1)(2)	kW	369	390	436	479	515	547	589	
EER	(1)(2)	kW/kW	3,04	3,08	3,04	3,07	3,05	3,06	3,07	
ESEER	(1)(2)	kW/kW	4,22	4,28	4,17	4,30	4,24	4,23	4,28	
Cooling energy class			B	B	B	B	B	B	B	
<b>ENERGY EFFICIENCY</b>										
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>										
<b>Process refrigeration at high temperature</b>										
Prated,c	(7)	kW	369	390	436	479	515	547	589	
SEPR HT	(7)(9)		5,17	5,10	5,02	5,38	5,36	5,15	5,24	
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>										
<b>Process refrigeration at medium temperature</b>										
Prated,c	(8)	kW	202	215	245	264	280	307	326	
SEPR MT	(8)(9)		3,28	3,20	3,15	3,48	3,51	3,25	3,36	
<b>EXCHANGERS</b>										
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>										
Water flow	(1)	l/s	17,72	18,72	20,97	23,01	24,75	26,26	28,28	
Pressure drop	(1)	kPa	59,0	46,8	58,7	53,5	61,9	42,9	49,8	
<b>REFRIGERANT CIRCUIT</b>										
Compressors nr.		N°	4	4	4	5	6	5	6	
No. Circuits		N°	2	2	2	2	2	2	2	
Refrigerant charge		kg	46,0	54,0	54,0	62,0	67,0	72,0	77,0	
<b>NOISE LEVEL</b>										
Sound Pressure	(3)	dB(A)	65	65	65	64	65	65	65	
Sound power level in cooling	(4)(5)	dB(A)	97	97	97	97	98	98	98	
<b>SIZE AND WEIGHT</b>										
A	(6)	mm	5080	5080	5080	6255	6255	6255	7430	
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260	
H	(6)	mm	2450	2450	2450	2450	2450	2450	2450	
Operating weight	(6)	kg	3060	3100	3130	3800	4050	4090	4540	

NECS-Y / CA			2316	2416	2418	2618	2818	3018	3218	
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	
<b>PERFORMANCE</b>										
<b>COOLING ONLY (GROSS VALUE)</b>										
Cooling capacity	(1)	kW	633	657	701	740	785	831	885	
Total power input	(1)	kW	204	212	225	239	250	266	283	
EER	(1)	kW/kW	3,10	3,10	3,11	3,10	3,13	3,12	3,13	
ESEER	(1)	kW/kW	4,48	4,37	4,44	4,46	4,50	4,49	4,45	
<b>COOLING ONLY (EN14511 VALUE)</b>										
Cooling capacity	(1)(2)	kW	630	655	699	737	782	828	881	
EER	(1)(2)	kW/kW	3,06	3,05	3,06	3,04	3,09	3,07	3,07	
ESEER	(1)(2)	kW/kW	4,27	4,16	4,22	4,22	4,30	4,28	4,22	
Cooling energy class			B	B	B	B	B	B	B	
<b>ENERGY EFFICIENCY</b>										
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>										
<b>Process refrigeration at high temperature</b>										
Prated,c	(7)	kW	630	655	699	737	782	828	881	
SEPR HT	(7)(9)		5,11	5,06	5,10	5,10	5,07	5,01	5,01	
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>										
<b>Process refrigeration at medium temperature</b>										
Prated,c	(8)	kW	352	367	-	403	-	-	-	
SEPR MT	(8)(9)		3,25	3,22	-	3,24	-	-	-	
<b>EXCHANGERS</b>										
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>										
Water flow	(1)	l/s	30,26	31,43	33,55	35,39	37,52	39,72	42,31	
Pressure drop	(1)	kPa	48,6	52,5	54,0	60,0	45,6	51,1	58,0	
<b>REFRIGERANT CIRCUIT</b>										
Compressors nr.		N°	6	6	8	8	8	8	8	
No. Circuits		N°	3	2	4	4	4	4	4	
Refrigerant charge		kg	81,0	86,0	89,0	99,0	112	112	112	
<b>NOISE LEVEL</b>										
Sound Pressure	(3)	dB(A)	66	66	66	66	67	67	67	
Sound power level in cooling	(4)(5)	dB(A)	99	99	99	99	100	100	100	
<b>SIZE AND WEIGHT</b>										
A	(6)	mm	7430	7430	9780	9780	9780	9780	9780	
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260	
H	(6)	mm	2450	2450	2450	2450	2450	2450	2450	
Operating weight	(6)	kg	4630	4690	5930	5970	6040	6070	6110	



COOLING

SCROLL

ENERGY CLASS

R HFC R-410A

AXIAL

T SHELL &amp; TUBES

NECS-Y / SL-CA			1314	1414	1614	1715	1816
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>							
<b>COOLING ONLY (GROSS VALUE)</b>							
Cooling capacity	(1)	kW	370	394	440	481	522
Total power input	(1)	kW	119	126	142	154	167
EER	(1)	kW/kW	3,11	3,12	3,11	3,12	3,12
ESEER	(1)	kW/kW	4,57	4,56	4,44	4,54	4,58
<b>COOLING ONLY (EN14511 VALUE)</b>							
Cooling capacity	(1)(2)	kW	369	393	438	480	520
EER	(1)(2)	kW/kW	3,07	3,08	3,06	3,08	3,08
ESEER	(1)(2)	kW/kW	4,38	4,39	4,27	4,39	4,40
Cooling energy class			B	B	B	B	B
<b>ENERGY EFFICIENCY</b>							
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>							
<b>Process refrigeration at high temperature</b>							
Prated,c	(7)	kW	369	393	438	480	520
SEPR HT	(7)(9)		5,52	5,43	5,17	5,45	5,61
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>							
<b>Process refrigeration at medium temperature</b>							
Prated,c	(8)	kW	201	215	244	262	280
SEPR MT	(8)(9)		3,54	3,42	3,22	3,44	3,58
<b>EXCHANGERS</b>							
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>							
Water flow	(1)	l/s	17,72	18,85	21,05	22,99	24,94
Pressure drop	(1)	kPa	41,9	35,9	44,8	32,9	38,7
<b>REFRIGERANT CIRCUIT</b>							
Compressors nr.		N°	4	4	4	5	6
No. Circuits		N°	2	2	2	2	2
Refrigerant charge		kg	53,0	67,0	67,0	77,0	81,0
<b>NOISE LEVEL</b>							
Sound Pressure	(3)	dB(A)	53	53	53	54	54
Sound power level in cooling	(4)(5)	dB(A)	86	86	86	87	87
<b>SIZE AND WEIGHT</b>							
A	(6)	mm	6255	6255	6255	7430	7430
B	(6)	mm	2260	2260	2260	2260	2260
H	(6)	mm	2450	2450	2450	2450	2450
Operating weight	(6)	kg	3490	3700	3730	4400	4650

NECS-Y / SL-CA			2015	2116	2316	2416	2418
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>							
<b>COOLING ONLY (GROSS VALUE)</b>							
Cooling capacity	(1)	kW	550	592	638	662	695
Total power input	(1)	kW	177	189	204	213	223
EER	(1)	kW/kW	3,11	3,13	3,12	3,11	3,12
ESEER	(1)	kW/kW	4,52	4,60	4,59	4,53	4,58
<b>COOLING ONLY (EN14511 VALUE)</b>							
Cooling capacity	(1)(2)	kW	549	590	636	660	693
EER	(1)(2)	kW/kW	3,08	3,08	3,08	3,06	3,09
ESEER	(1)(2)	kW/kW	4,35	4,40	4,39	4,33	4,43
Cooling energy class			B	B	B	B	B
<b>ENERGY EFFICIENCY</b>							
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>							
<b>Process refrigeration at high temperature</b>							
Prated,c	(7)	kW	549	590	636	660	693
SEPR HT	(7)(9)		5,28	5,46	5,28	5,30	5,55
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2015/1095)</b>							
<b>Process refrigeration at medium temperature</b>							
Prated,c	(8)	kW	305	324	353	368	374
SEPR MT	(8)(9)		3,28	3,43	3,31	3,32	3,54
<b>EXCHANGERS</b>							
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>							
Water flow	(1)	l/s	26,32	28,29	30,52	31,68	33,25
Pressure drop	(1)	kPa	36,8	42,5	44,7	48,1	35,8
<b>REFRIGERANT CIRCUIT</b>							
Compressors nr.		N°	5	6	6	6	8
No. Circuits		N°	2	2	3	2	4
Refrigerant charge		kg	86,0	91,0	96,0	98,0	98,0
<b>NOISE LEVEL</b>							
Sound Pressure	(3)	dB(A)	54	54	55	55	55
Sound power level in cooling	(4)(5)	dB(A)	87	87	88	88	88
<b>SIZE AND WEIGHT</b>							
A	(6)	mm	7430	8605	8605	8605	9780
B	(6)	mm	2260	2260	2260	2260	2260
H	(6)	mm	2450	2450	2450	2450	2450
Operating weight	(6)	kg	4510	4990	5360	5360	6100



for a greener tomorrow

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 sustainable society.



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