



Heat pump for indoor installation to produce chilled/hot water with hermetic rotary Scroll compressors, centrifugal plug fans with EC motor, braze-welded plate-type exchanger and thermal expansion valve. Structure and the external paneling made from hot-galvanised metal plate and painted with epoxy powder coat RAL 7035. The panels are easy to remove for quick and easy access to the inside components from either side of the unit.

The range includes the single-circuit two-compressor versions and the dual circuit four-compressor versions.

### Control



#### Electronic control W3000TE

W3000TE Compact features function controls and LCD display for viewing data and activating the unit, via a multilevel menu, with settable display language. As alternative, the innovative KIPLink user interface allows one to operate on the unit directly from the smartphone or tablet. The controller provides water temperature control for the heating systems, cooling systems (only for reversible units), as well as for domestic hot water (only for reversible units). These different temperatures are managed automatically based on the different conditions in which the system operates, with the possibility to assign specific levels of priority to domestic hot water production, depending on the needs of the application. Regulation based on the exclusive QuickMind algorithm, including self-adaptive control logics, beneficial in low water content systems. As alternatives, the proportional- or proportional- integral regulations are also available. Complete alarm management system is available, with the "black-box" and the alarm history display functions.

For multiple units' systems, the regulation of the resources, via optional proprietary devices, can be implemented. Energy metering, for both consumption and capacity, can also be developed. Built-in clock can create an operating profile containing up to 4 typical days and 10 time bands, essential for efficient programming of energy production and fundamental for managing the Legionella prevention cycles. Supervision is available either using proprietary devices or by integration into third party systems using ModBus, BACnet, BACnet-over-IP and Echelon LonWorks protocols. A dedicated wall-mounted keypad can be used for remote control of all the functions.

Optionally (VPF package), capacity modulation can be integrated with hydraulic flow modulation, thanks to inverter-driven pumps and to specific resources for the hydraulic circuit.

### Refrigerant



### Versions

K	Standard efficiency	A	High efficiency
SL-K	Super low noise, standard efficiency		

### Configurations

-	Basic function	D	Partial condensing heat recovery function
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### Features

#### HIGH EFFICIENCY

Very high efficiency at full and partial load, at the highest market levels, thanks to the adopted technological solutions. These units ensure low operating costs and therefore a quick payback time.

#### ErP READY

The highest level of efficiency at part load can meet and exceed the minimum seasonal efficiency for heating, SCOP according with the eco-sustainable design requirements for all products using energy.

#### PLUG FUN WITH EC MOTOR

More air flow by smaller diameter.

Energy cost saving by highest efficiency at the operating point.

Fan is directly coupling with motor, no energy lost due to the transmission (belts and pulleys). External rotor fitted with permanent magnets. Outstanding efficiency even at partial load range, due to the lack of brushes and lower consumption in every working condition in order to achieve a better seasonal efficiency in accordance with ErP Directive.

#### TOTAL VERSATILITY

Horizontal or vertical air flow.

#### INTEGRATED HYDRONIC MODULE

The built-in hydronic module already contains the main water circuit components; it is available as option with single or twin in-line pump, for achieving low or high head, fixed or variable speed.

### Accessories

- Soft starters
- Set-up for remote connectivity with ModBus, Echelon, Bacnet, Bacnet over-IP.
- Outside air temperature probe for plant water set point compensation.
- Horizontal or vertical air outflow
- Hydronic module available in different configurations with 1 or 2 pumps fixed speed or variable speed, for achieving both low or high head.
- VPF (Variable Primary Flow) system
- Electronic expansion valve

NX-CN /K		0072	0092	0102	0122	0152	0182	0202	0232
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1) kW	18,37	22,60	25,76	30,34	37,95	44,87	51,74	57,71
Total power input	(1) kW	6,265	8,327	9,752	11,60	12,81	14,82	17,67	20,36
EER	(1) kW/kW	2,935	2,713	2,646	2,612	2,969	3,034	2,921	2,828
ESEER	(1) kW/kW	4,410	4,190	4,100	3,180	4,250	4,260	4,180	4,100
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2) kW	18,30	22,50	25,70	30,20	37,80	44,70	51,50	57,50
EER	(1)(2) kW/kW	2,940	2,710	2,660	2,630	2,980	3,060	2,940	2,850
ESEER	(1)(2) kW/kW	4,290	4,090	4,030	3,140	4,170	4,210	4,140	4,050
Cooling energy class		A	A	B	B	A	A	A	A
<b>HEATING ONLY (GROSS VALUE)</b>									
Total heating capacity	(3) kW	19,16	23,87	28,02	31,79	41,48	48,41	55,64	61,74
Total power input	(3) kW	6,864	8,851	10,57	12,08	13,78	15,96	18,58	21,11
COP	(3) kW/kW	2,799	2,701	2,642	2,628	3,007	3,025	2,989	2,924
<b>HEATING ONLY (EN14511 VALUE)</b>									
Total heating capacity	(3)(2) kW	19,30	24,00	28,10	31,90	41,70	48,60	55,80	61,90
COP	(3)(2) kW/kW	2,830	2,720	2,670	2,650	3,040	3,060	3,020	2,950
Cooling energy class		B	C	C	C	A	A	A	B
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Ambient refrigeration</b>									
Prated,c	(10) kW	-	-	-	-	-	-	-	-
SEER	(10)(11)	-	-	-	-	-	-	-	-
Performance ηs	(10)(12) %	-	-	-	-	-	-	-	-
<b>SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)</b>									
PDesign	(4) kW	14,5	17,9	21,4	24,5	32,1	37,5	43,0	47,9
SCOP	(4)(13)	3,56	3,53	3,52	3,46	3,71	3,71	3,67	3,64
Performance ηs	(4)(14) %	140	138	138	136	145	145	144	142
Seasonal efficiency class	(15)	A+	A+	A+	A+	A+	A+	A+	A+
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1) l/s	0,878	1,081	1,232	1,451	1,815	2,146	2,474	2,760
Pressure drop	(1) kPa	16,7	18,2	16,6	18,3	19,1	16,6	17,3	17,1
<b>HEAT EXCHANGER USER SIDE IN HEATING</b>									
Water flow	(3) l/s	0,925	1,152	1,352	1,535	2,002	2,337	2,686	2,980
Pressure drop	(3) kPa	18,6	20,7	20,1	20,4	23,2	19,6	20,4	19,9
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.	N°	2	2	2	2	2	2	2	2
No. Circuits	N°	1	1	1	1	1	1	1	1
Refrigerant charge	kg	8,20	8,50	8,90	9,10	19,0	20,2	21,1	21,5
<b>FANS</b>									
Air flow	m³/s	2,08	2,50	3,33	3,47	4,44	5,42	5,69	5,97
Available static pressure	Pa	30	30	30	30	30	30	30	30
<b>NOISE LEVEL</b>									
Sound power level in cooling	(5)(6)(16) dB(A)	80	81	82	82	81	84	85	86
Sound power level in heating	(5)(7)(16) dB(A)	70	70	70	70	80	80	80	80
Sound power level in heating	(5)(8)(16) dB(A)	80	81	82	82	81	84	85	86
<b>SIZE AND WEIGHT</b>									
A	(9) mm	1500	1500	1500	1500	2480	2480	2480	2480
B	(9) mm	900	900	900	900	1100	1100	1100	1100
H	(9) mm	1910	1910	1910	1910	2100	2100	2100	2100
Operating weight	(9) kg	430	440	460	470	810	840	840	860

#### 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]
- Total sound power of fans, as declared by the maker, at the rated speed of rotation and a useful static head of nominal on the delivery side.
- Sound power level in cooling, outdoors.
- Sound power level in heating, indoors.
- Sound power level in heating, outdoors.
- Unit in standard configuration/execution, without optional accessories.
- Parameter calculated according to [REGULATION (EU) N. 2016/2281]
- Seasonal energy efficiency ratio
- Seasonal space cooling energy efficiency
- Seasonal coefficient of performance
- Seasonal space heating energy efficiency
- Energy efficiency class referred to LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 811/2013]
- Sound power on the basis of measurements made in compliance with ISO 9614.

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

Certified data in EUROVENT

NX-CN /K		0272	0302	0352	0402	0452	0502	0552	0602
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1) kW	66,12	74,94	85,04	94,47	106,8	121,1	135,9	151,4
Total power input	(1) kW	23,80	27,29	32,31	35,39	40,67	44,20	52,32	59,85
EER	(1) kW/kW	2,777	2,744	2,632	2,669	2,624	2,740	2,598	2,532
ESEER	(1) kW/kW	4,090	3,930	3,820	3,830	3,780	3,910	3,760	3,700
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2) kW	65,90	74,70	84,80	94,30	106,6	120,8	135,6	151,1
EER	(1)(2) kW/kW	2,790	2,770	2,650	2,690	2,650	2,760	2,620	2,550
ESEER	(1)(2) kW/kW	4,060	3,920	3,790	3,830	3,760	3,900	3,740	3,680
Cooling energy class		A	A	B	B	B	A	B	B
<b>HEATING ONLY (GROSS VALUE)</b>									
Total heating capacity	(3) kW	70,72	79,49	89,35	102,2	114,6	131,1	146,9	162,9
Total power input	(3) kW	24,29	28,02	32,71	36,57	41,21	45,16	52,95	60,43
COP	(3) kW/kW	2,909	2,839	2,734	2,792	2,782	2,900	2,777	2,697
<b>HEATING ONLY (EN14511 VALUE)</b>									
Total heating capacity	(3)(2) kW	70,90	79,70	89,60	102,5	114,9	131,4	147,3	163,3
COP	(3)(2) kW/kW	2,940	2,870	2,760	2,820	2,810	2,930	2,810	2,730
Cooling energy class		B	B	C	B	B	B	B	C
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Ambient refrigeration</b>									
Prated,c	(10) kW	-	-	-	-	-	-	-	-
SEER	(10)(11)	-	-	-	-	-	-	-	-
Performance ηs	(10)(12) %	-	-	-	-	-	-	-	-
<b>SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)</b>									
PDesign	(4) kW	54,9	61,7	69,1	78,7	88,2	101	113	126
SCOP	(4)(13)	3,55	3,49	3,40	3,42	3,40	3,56	3,47	3,33
Performance ηs	(4)(14) %	139	137	133	134	133	139	136	130
Seasonal efficiency class	(15)	A+	A+	A+	-	-	-	-	-
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1) l/s	3,162	3,584	4,067	4,518	5,107	5,791	6,500	7,240
Pressure drop	(1) kPa	12,9	12,6	13,5	13,2	13,5	13,3	14,3	14,9
<b>HEAT EXCHANGER USER SIDE IN HEATING</b>									
Water flow	(3) l/s	3,414	3,837	4,313	4,932	5,532	6,328	7,091	7,864
Pressure drop	(3) kPa	15,1	14,4	15,2	15,7	15,8	15,9	17,0	17,6
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.	N°	2	2	2	2	2	2	2	2
No. Circuits	N°	1	1	1	1	1	1	1	1
Refrigerant charge	kg	27,1	23,6	24,6	32,2	33,0	38,9	39,9	40,8
<b>FANS</b>									
Air flow	m³/s	7,50	8,06	8,89	10,56	11,11	12,50	13,89	15,83
Available static pressure	Pa	30	30	30	30	30	30	30	30
<b>NOISE LEVEL</b>									
Sound power level in cooling	(5)(6)(16) dB(A)	84	85	87	87	84	90	92	90
Sound power level in heating	(5)(7)(16) dB(A)	80	80	80	82	83	83	84	85
Sound power level in heating	(5)(8)(16) dB(A)	84	85	87	87	84	90	92	90
<b>SIZE AND WEIGHT</b>									
A	(9) mm	2480	2480	2480	2980	2980	3970	3970	3970
B	(9) mm	1100	1100	1100	1260	1260	1260	1260	1260
H	(9) mm	2100	2100	2100	2100	2100	2100	2100	2100
Operating weight	(9) kg	920	960	1020	1260	1280	1510	1530	1610

**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]
- Total sound power of fans, as declared by the maker, at the rated speed of rotation and a useful static head of nominal on the delivery side.
- Sound power level in cooling, outdoors.
- Sound power level in heating, indoors.
- Sound power level in heating, outdoors.
- Unit in standard configuration/execution, without optional accessories.
- Parameter calculated according to [REGULATION (EU) N. 2016/2281]
- Seasonal energy efficiency ratio
- Seasonal space cooling energy efficiency
- Seasonal coefficient of performance
- Seasonal space heating energy efficiency
- Energy efficiency class referred to LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 811/2013]
- Sound power on the basis of measurements made in compliance with ISO 9614.

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

Certified data in EUROVENT

NX-CN /K		0702	0524	0604	0704	0804	0904	1004	1104
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1) kW	173,1	124,8	144,0	167,2	186,9	216,9	241,1	265,3
Total power input	(1) kW	66,44	47,29	56,52	63,94	74,42	81,79	93,22	108,2
EER	(1) kW/kW	2,607	2,638	2,549	2,617	2,512	2,652	2,587	2,452
ESEER	(1) kW/kW	3,790	4,050	3,920	4,070	3,890	4,060	3,960	3,920
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2) kW	172,7	124,4	143,6	166,8	186,4	216,4	240,5	264,7
EER	(1)(2) kW/kW	2,620	2,650	2,560	2,640	2,530	2,670	2,600	2,460
ESEER	(1)(2) kW/kW	3,770	3,960	3,830	4,000	3,820	3,990	3,890	3,860
Cooling energy class		B	B	B	B	B	B	B	C
<b>HEATING ONLY (GROSS VALUE)</b>									
Total heating capacity	(3) kW	187,1	135,0	156,7	179,9	199,1	231,1	256,0	283,1
Total power input	(3) kW	65,32	48,20	57,36	65,09	74,79	82,87	93,29	105,0
COP	(3) kW/kW	2,865	2,801	2,730	2,763	2,662	2,788	2,744	2,696
<b>HEATING ONLY (EN14511 VALUE)</b>									
Total heating capacity	(3)(2) kW	187,6	135,4	157,2	180,4	199,6	231,7	256,7	283,8
COP	(3)(2) kW/kW	2,900	2,830	2,760	2,790	2,690	2,820	2,770	2,720
Cooling energy class		B	B	C	C	C	B	C	C
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Ambient refrigeration</b>									
Prated,c	(10) kW	-	-	-	-	-	-	-	-
SEER	(10)(11)	-	-	-	-	-	-	-	-
Performance ηs	(10)(12) %	-	-	-	-	-	-	-	-
<b>SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)</b>									
PDesign	(4) kW	144	105	122	139	153	178	196	218
SCOP	(4)(13)	3,46	3,62	3,51	3,56	3,44	3,55	3,55	3,52
Performance ηs	(4)(14) %	135	142	137	139	135	139	139	138
Seasonal efficiency class	(15)	-	-	-	-	-	-	-	-
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1) l/s	8,277	5,966	6,887	7,998	8,935	10,37	11,53	12,69
Pressure drop	(1) kPa	15,5	19,6	19,6	19,9	19,9	20,4	20,5	19,6
<b>HEAT EXCHANGER USER SIDE IN HEATING</b>									
Water flow	(3) l/s	9,034	6,518	7,564	8,685	9,613	11,16	12,36	13,67
Pressure drop	(3) kPa	18,5	23,4	23,7	23,5	23,0	23,5	23,5	22,8
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.	N°	2	4	4	4	4	4	4	4
No. Circuits	N°	1	2	2	2	2	2	2	2
Refrigerant charge	kg	51,4	43,0	44,3	51,5	53,5	68,5	71,0	72,8
<b>FANS</b>									
Air flow	m³/s	18,06	13,06	15,28	17,78	19,44	22,50	24,17	24,17
Available static pressure	Pa	30	30	30	30	30	30	30	30
<b>NOISE LEVEL</b>									
Sound power level in cooling	(5)(6)(16) dB(A)	94	91	90	94	96	91	93	93
Sound power level in heating	(5)(7)(16) dB(A)	85	85	85	86	86	88	90	90
Sound power level in heating	(5)(8)(16) dB(A)	94	91	90	94	96	91	93	93
<b>SIZE AND WEIGHT</b>									
A	(9) mm	4670	3970	3970	4670	4670	5670	5670	5670
B	(9) mm	1260	1260	1260	1260	1260	1260	1260	1260
H	(9) mm	2100	2100	2100	2100	2100	2100	2100	2100
Operating weight	(9) kg	1820	1490	1590	1910	2060	2430	2490	2540

### Notes

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- 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]
- Total sound power of fans, as declared by the maker, at the rated speed of rotation and a useful static head of nominal on the delivery side.
- Sound power level in cooling, outdoors.
- Sound power level in heating, indoors.
- Sound power level in heating, outdoors.
- Unit in standard configuration/execution, without optional accessories.
- Parameter calculated according to [REGULATION (EU) N. 2016/2281]
- Seasonal energy efficiency ratio
- Seasonal space cooling energy efficiency
- Seasonal coefficient of performance
- Seasonal space heating energy efficiency
- Energy efficiency class referred to LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 811/2013]
- Sound power on the basis of measurements made in compliance with ISO 9614.

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

Certified data in EUROVENT

NX-CN /SL-K		0072	0092	0102	0122	0152	0182	0202	0232	
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
<b>PERFORMANCE</b>										
<b>COOLING ONLY (GROSS VALUE)</b>										
Cooling capacity	(1)	kW	18,03	22,02	24,45	28,64	37,03	43,88	50,75	56,21
Total power input	(1)	kW	6,123	8,027	9,278	11,11	12,49	14,36	17,16	19,76
EER	(1)	kW/kW	2,941	2,740	2,640	2,577	2,960	3,049	2,953	2,838
ESEER	(1)	kW/kW	4,470	4,240	4,130	4,270	4,240	4,310	4,230	4,250
<b>COOLING ONLY (EN14511 VALUE)</b>										
Cooling capacity	(1)(2)	kW	17,90	21,90	24,40	28,50	36,90	43,70	50,60	56,00
EER	(1)(2)	kW/kW	2,950	2,740	2,660	2,590	2,980	3,070	2,970	2,840
ESEER	(1)(2)	kW/kW	4,390	4,160	4,090	4,200	4,200	4,270	4,190	4,210
Cooling energy class			A	A	B	B	A	A	A	A
<b>HEATING ONLY (GROSS VALUE)</b>										
Total heating capacity	(3)	kW	18,92	23,48	27,08	30,78	40,70	47,57	54,82	60,97
Total power input	(3)	kW	6,526	8,199	9,203	10,53	12,96	14,98	17,50	19,90
COP	(3)	kW/kW	2,894	2,866	2,946	2,933	3,131	3,173	3,131	3,065
<b>HEATING ONLY (EN14511 VALUE)</b>										
Total heating capacity	(3)(2)	kW	19,00	23,60	27,20	30,90	40,90	47,80	55,00	61,20
COP	(3)(2)	kW/kW	2,920	2,890	2,990	2,960	3,170	3,210	3,160	3,090
Cooling energy class			B	B	B	B	A	A	A	A
<b>ENERGY EFFICIENCY</b>										
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>										
<b>Ambient refrigeration</b>										
Prated,c	(10)	kW	-	-	-	-	-	-	-	-
SEER	(10)(11)		-	-	-	-	-	-	-	-
Performance ηs	(10)(12)	%	-	-	-	-	-	-	-	-
<b>SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)</b>										
PDesign	(4)	kW	14,3	17,6	20,6	23,6	31,4	36,7	42,4	47,2
SCOP	(4)(13)		3,73	3,75	3,90	3,88	3,86	3,87	3,84	3,84
Performance ηs	(4)(14)	%	146	147	153	152	151	152	151	150
Seasonal efficiency class	(15)		A+	A+	A++	A++	A++	A++	A++	A++
<b>EXCHANGERS</b>										
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>										
Water flow	(1)	l/s	0,862	1,053	1,169	1,370	1,771	2,098	2,427	2,688
Pressure drop	(1)	kPa	16,1	17,3	15,0	16,3	18,2	15,8	16,7	16,2
<b>HEAT EXCHANGER USER SIDE IN HEATING</b>										
Water flow	(3)	l/s	0,913	1,133	1,307	1,486	1,964	2,296	2,646	2,943
Pressure drop	(3)	kPa	18,1	20,0	18,7	19,2	22,3	19,0	19,8	19,4
<b>REFRIGERANT CIRCUIT</b>										
Compressors nr.		N°	2	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1
Refrigerant charge		kg	8,20	8,50	18,3	18,5	19,0	20,2	21,1	21,5
<b>FANS</b>										
Air flow		m³/s	1,81	2,08	2,22	2,36	3,61	4,44	4,86	5,14
Available static pressure		Pa	30	30	30	30	30	30	30	30
<b>NOISE LEVEL</b>										
Sound power level in cooling	(5)(6)(16)	dB(A)	70	72	71	72	79	76	78	79
Sound power level in heating	(5)(7)(16)	dB(A)	60	61	59	60	73	72	74	73
Sound power level in heating	(5)(8)(16)	dB(A)	70	72	71	72	79	76	78	79
<b>SIZE AND WEIGHT</b>										
A	(9)	mm	1500	1500	2480	2480	2480	2480	2480	2480
B	(9)	mm	900	900	1100	1100	1100	1100	1100	1100
H	(9)	mm	1910	1910	2100	2100	2100	2100	2100	2100
Operating weight	(9)	kg	480	490	820	830	860	920	920	940

**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]
- Total sound power of fans, as declared by the maker, at the rated speed of rotation and a useful static head of nominal on the delivery side.
- Sound power level in cooling, outdoors.
- Sound power level in heating, indoors.
- Sound power level in heating, outdoors.
- Unit in standard configuration/execution, without optional accessories.
- Parameter calculated according to [REGULATION (EU) N. 2016/2281]
- Seasonal energy efficiency ratio
- Seasonal space cooling energy efficiency
- Seasonal coefficient of performance
- Seasonal space heating energy efficiency
- Energy efficiency class referred to LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 811/2013]
- Sound power on the basis of measurements made in compliance with ISO 9614.

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Certified data in EUROVENT

NX-CN /SL-K		0272	0302	0352	0402	0452	0502	0552	0602	
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	64,42	72,59	82,03	91,09	102,9	118,8	132,6	145,7
Total power input	(1)	kW	22,59	26,26	30,86	34,70	38,98	43,05	50,48	56,85
EER	(1)	kW/kW	2,850	2,760	2,654	2,625	2,638	2,763	2,626	2,561
ESEER	(1)	kW/kW	4,350	3,970	4,020	3,830	3,940	3,960	3,960	3,760
<b>COOLING ONLY (EN14511 VALUE)</b>										
Cooling capacity	(1)(2)	kW	64,20	72,40	81,80	90,90	102,7	118,5	132,3	145,4
EER	(1)(2)	kW/kW	2,870	2,770	2,660	2,640	2,650	2,780	2,640	2,570
ESEER	(1)(2)	kW/kW	4,340	3,970	3,990	3,820	3,910	3,930	3,930	3,740
Cooling energy class			A	A	B	B	B	A	B	B
<b>HEATING ONLY (GROSS VALUE)</b>										
Total heating capacity	(3)	kW	69,20	77,93	87,39	99,80	111,9	129,4	144,6	159,1
Total power input	(3)	kW	22,82	25,75	29,62	33,98	37,33	42,76	49,29	54,28
COP	(3)	kW/kW	3,035	3,019	2,953	2,935	3,000	3,023	2,933	2,930
<b>HEATING ONLY (EN14511 VALUE)</b>										
Total heating capacity	(3)(2)	kW	69,40	78,10	87,60	100,1	112,2	129,7	145,0	159,5
COP	(3)(2)	kW/kW	3,070	3,050	2,980	2,960	3,030	3,050	2,960	2,960
Cooling energy class			A	A	B	B	A	A	B	B
<b>ENERGY EFFICIENCY</b>										
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>										
<b>Ambient refrigeration</b>										
Prated,c	(10)	kW	-	-	-	-	-	-	-	-
SEER	(10)(11)		-	-	-	-	-	-	-	-
Performance ηs	(10)(12)	%	-	-	-	-	-	-	-	-
<b>SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)</b>										
PDesign	(4)	kW	53,7	60,3	67,3	76,5	85,8	99,2	111	122
SCOP	(4)(13)		3,86	3,69	3,67	3,56	3,67	3,69	3,66	3,57
Performance ηs	(4)(14)	%	151	145	144	139	144	145	143	140
Seasonal efficiency class	(15)		A++	A+	A+	-	-	-	-	-
<b>EXCHANGERS</b>										
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>										
Water flow	(1)	l/s	3,081	3,471	3,923	4,356	4,922	5,682	6,342	6,967
Pressure drop	(1)	kPa	12,3	11,8	12,5	12,2	12,5	12,8	13,6	13,8
<b>HEAT EXCHANGER USER SIDE IN HEATING</b>										
Water flow	(3)	l/s	3,340	3,762	4,218	4,818	5,403	6,246	6,982	7,680
Pressure drop	(3)	kPa	14,4	13,9	14,5	15,0	15,1	15,5	16,5	16,7
<b>REFRIGERANT CIRCUIT</b>										
Compressors nr.		N°	2	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1
Refrigerant charge		kg	34,1	29,9	31,1	32,2	37,7	38,9	39,9	49,0
<b>FANS</b>										
Air flow		m³/s	6,11	6,39	6,94	8,06	8,61	10,83	11,67	12,22
Available static pressure		Pa	30	30	30	30	30	30	30	30
<b>NOISE LEVEL</b>										
Sound power level in cooling	(5)(6)(16)	dB(A)	83	77	78	81	78	83	84	86
Sound power level in heating	(5)(7)(16)	dB(A)	75	72	71	76	77	76	76	81
Sound power level in heating	(5)(8)(16)	dB(A)	83	77	78	81	78	83	84	86
<b>SIZE AND WEIGHT</b>										
A	(9)	mm	2980	2980	2980	2980	3970	3970	3970	4670
B	(9)	mm	1260	1260	1260	1260	1260	1260	1260	1260
H	(9)	mm	2100	2100	2100	2100	2100	2100	2100	2100
Operating weight	(9)	kg	1090	1160	1230	1320	1610	1630	1650	1880

### Notes

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- Values in compliance with EN14511
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- Sound power level in heating, indoors.
- Sound power level in heating, outdoors.
- Unit in standard configuration/execution, without optional accessories.
- Parameter calculated according to [REGULATION (EU) N. 2016/2281]
- Seasonal energy efficiency ratio
- Seasonal space cooling energy efficiency
- Seasonal coefficient of performance
- Seasonal space heating energy efficiency
- Energy efficiency class referred to LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 811/2013]
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Certified data in EUROVENT

NX-CN /SL-K		0702	0524	0604	0704	0804	0904	1004
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
Cooling capacity	(1) kW	166,5	121,9	139,6	161,4	179,8	212,2	234,1
Total power input	(1) kW	64,25	45,91	54,26	61,38	70,85	80,14	90,90
EER	(1) kW/kW	2,593	2,656	2,571	2,629	2,540	2,649	2,575
ESEER	(1) kW/kW	3,920	4,140	4,000	4,210	3,990	4,160	4,020
<b>COOLING ONLY (EN14511 VALUE)</b>								
Cooling capacity	(1)(2) kW	166,1	121,6	139,2	161,0	179,4	211,7	233,6
EER	(1)(2) kW/kW	2,610	2,670	2,580	2,640	2,550	2,660	2,590
ESEER	(1)(2) kW/kW	3,900	4,050	3,920	4,130	3,920	4,070	3,950
Cooling energy class		B	B	B	B	B	B	B
<b>HEATING ONLY (GROSS VALUE)</b>								
Total heating capacity	(3) kW	181,8	133,1	153,7	175,9	194,3	227,8	251,1
Total power input	(3) kW	61,22	45,27	52,59	59,23	67,03	78,57	86,97
COP	(3) kW/kW	2,971	2,938	2,922	2,971	2,900	2,898	2,886
<b>HEATING ONLY (EN14511 VALUE)</b>								
Total heating capacity	(3)(2) kW	182,2	133,5	154,2	176,4	194,8	228,4	251,7
COP	(3)(2) kW/kW	3,000	2,960	2,950	3,000	2,920	2,920	2,910
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>Ambient refrigeration</b>								
Prated,c	(10) kW	-	-	-	-	-	-	-
SEER	(10)(11)	-	-	-	-	-	-	-
Performance ηs	(10)(12) %	-	-	-	-	-	-	-
<b>SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)</b>								
PDesign	(4) kW	140	103	118	135	148	175	191
SCOP	(4)(13)	3,67	3,79	3,70	3,82	3,66	3,70	3,71
Performance ηs	(4)(14) %	144	148	145	150	144	145	145
Seasonal efficiency class	(15)	-	-	-	-	-	-	-
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
Water flow	(1) l/s	7,963	5,832	6,675	7,721	8,596	10,15	11,19
Pressure drop	(1) kPa	14,4	18,7	18,4	18,5	18,4	19,5	19,3
<b>HEAT EXCHANGER USER SIDE IN HEATING</b>								
Water flow	(3) l/s	8,777	6,427	7,420	8,491	9,379	10,99	12,12
Pressure drop	(3) kPa	17,5	22,7	22,8	22,4	21,9	22,9	22,7
<b>REFRIGERANT CIRCUIT</b>								
Compressors nr.	N°	2	4	4	4	4	4	4
No. Circuits	N°	1	2	2	2	2	2	2
Refrigerant charge	kg	56,9	43,0	44,3	51,5	53,5	68,5	71,0
<b>FANS</b>								
Air flow	m³/s	13,89	11,11	12,22	13,89	15,00	19,17	19,72
Available static pressure	Pa	30	30	30	30	30	30	30
<b>NOISE LEVEL</b>								
Sound power level in cooling	(5)(6)(16) dB(A)	89	83	85	81	83	88	88
Sound power level in heating	(5)(7)(16) dB(A)	80	77	80	73	73	85	85
Sound power level in heating	(5)(8)(16) dB(A)	89	83	85	81	83	88	88
<b>SIZE AND WEIGHT</b>								
A	(9) mm	5670	3970	4670	5670	5670	5670	5670
B	(9) mm	1260	1260	1260	1260	1260	1260	1260
H	(9) mm	2100	2100	2100	2100	2100	2100	2100
Operating weight	(9) kg	2120	1610	1840	2310	2460	2550	2610

**Notes**

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- 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.
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- Sound power level in heating, indoors.
- Sound power level in heating, outdoors.
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- Seasonal space cooling energy efficiency
- Seasonal coefficient of performance
- Seasonal space heating energy efficiency
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Certified data in EUROVENT

NX-CN /A		0072	0092	0102	0122	0152	0182	0202	0232	
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
<b>PERFORMANCE</b>										
<b>COOLING ONLY (GROSS VALUE)</b>										
Cooling capacity	(1)	kW	18,74	23,01	26,05	30,93	38,29	45,37	52,47	58,35
Total power input	(1)	kW	6,090	8,036	8,822	10,59	12,51	14,50	17,28	19,89
EER	(1)	kW/kW	3,071	2,861	2,948	2,915	3,064	3,131	3,035	2,930
ESEER	(1)	kW/kW	4,610	4,370	4,520	4,600	4,370	4,380	4,290	4,270
<b>COOLING ONLY (EN14511 VALUE)</b>										
Cooling capacity	(1)(2)	kW	18,60	22,90	25,90	30,80	38,10	45,20	52,30	58,10
EER	(1)(2)	kW/kW	3,090	2,870	2,980	2,930	3,090	3,170	3,060	2,950
ESEER	(1)(2)	kW/kW	4,550	4,290	4,510	4,530	4,290	4,340	4,240	4,230
Cooling energy class			A	A	A	A	A	A	A	A
<b>HEATING ONLY (GROSS VALUE)</b>										
Total heating capacity	(3)	kW	19,42	24,20	28,26	32,28	41,76	48,86	56,28	62,60
Total power input	(3)	kW	6,883	8,795	9,828	11,43	13,67	15,91	18,60	21,23
COP	(3)	kW/kW	2,820	2,753	2,879	2,833	3,051	3,075	3,027	2,953
<b>HEATING ONLY (EN14511 VALUE)</b>										
Total heating capacity	(3)(2)	kW	19,50	24,30	28,40	32,40	42,00	49,10	56,50	62,80
COP	(3)(2)	kW/kW	2,860	2,790	2,930	2,870	3,090	3,130	3,070	2,990
Cooling energy class			B	C	B	B	A	A	A	B
<b>ENERGY EFFICIENCY</b>										
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>										
<b>Ambient refrigeration</b>										
Prated,c	(10)	kW	-	-	-	-	-	-	-	-
SEER	(10)(11)		-	-	-	-	-	-	-	-
Performance $\eta_s$	(10)(12)	%	-	-	-	-	-	-	-	-
<b>SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)</b>										
PDesign	(4)	kW	14,8	18,2	21,7	24,9	32,4	37,8	43,6	48,6
SCOP	(4)(13)		3,65	3,60	3,86	3,80	3,76	3,76	3,74	3,69
Performance $\eta_s$	(4)(14)	%	143	141	151	149	147	147	147	145
Seasonal efficiency class	(15)		A+	A+	A++	A+	A+	A+	A+	A+
<b>EXCHANGERS</b>										
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>										
Water flow	(1)	l/s	0,896	1,100	1,246	1,479	1,831	2,170	2,509	2,790
Pressure drop	(1)	kPa	17,4	18,9	17,0	19,0	19,4	16,9	17,8	17,4
<b>HEAT EXCHANGER USER SIDE IN HEATING</b>										
Water flow	(3)	l/s	0,937	1,168	1,364	1,558	2,016	2,358	2,717	3,022
Pressure drop	(3)	kPa	19,1	21,3	20,4	21,1	23,5	20,0	20,9	20,5
<b>REFRIGERANT CIRCUIT</b>										
Compressors nr.		N°	2	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1
Refrigerant charge		kg	8,20	8,50	18,3	18,5	19,0	20,2	21,1	21,5
<b>FANS</b>										
Air flow		m³/s	2,50	2,92	3,75	4,17	4,86	6,11	6,53	6,94
Available static pressure		Pa	30	30	30	30	30	30	30	30
<b>NOISE LEVEL</b>										
Sound power level in cooling	(5)(6)(16)	dB(A)	76	79	82	84	86	83	84	85
Sound power level in heating	(5)(7)(16)	dB(A)	66	68	70	66	76	79	80	79
Sound power level in heating	(5)(8)(16)	dB(A)	76	79	82	84	86	83	84	85
<b>SIZE AND WEIGHT</b>										
A	(9)	mm	1500	1500	2480	2480	2480	2480	2480	2480
B	(9)	mm	900	900	1100	1100	1100	1100	1100	1100
H	(9)	mm	1910	1910	2100	2100	2100	2100	2100	2100
Operating weight	(9)	kg	480	490	820	830	860	920	920	940

#### Notes

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- 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.
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- Sound power level in heating, outdoors.
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Certified data in EUROVENT



NX-CN /A		0272	0302	0352	0402	0452	0502	0552	0602
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1) kW	66,63	76,02	85,95	94,75	108,3	122,0	136,6	152,7
Total power input	(1) kW	22,87	26,54	31,09	36,00	39,03	43,81	51,52	57,66
EER	(1) kW/kW	2,908	2,868	2,762	2,633	2,777	2,785	2,652	2,646
ESEER	(1) kW/kW	4,350	4,090	4,080	3,880	4,020	3,970	3,930	3,830
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2) kW	66,40	75,80	85,70	94,60	108,0	121,7	136,3	152,4
EER	(1)(2) kW/kW	2,940	2,890	2,780	2,660	2,810	2,810	2,670	2,670
ESEER	(1)(2) kW/kW	4,330	4,080	4,070	3,870	4,010	3,960	3,900	3,830
Cooling energy class		A	A	A	A	A	A	B	B
<b>HEATING ONLY (GROSS VALUE)</b>									
Total heating capacity	(3) kW	70,87	80,28	90,06	103,0	115,8	131,7	147,5	164,0
Total power input	(3) kW	24,27	27,82	31,97	37,35	40,38	45,26	52,51	58,92
COP	(3) kW/kW	2,918	2,888	2,816	2,761	2,866	2,907	2,810	2,784
<b>HEATING ONLY (EN14511 VALUE)</b>									
Total heating capacity	(3)(2) kW	71,10	80,50	90,30	103,3	116,1	132,0	147,9	164,4
COP	(3)(2) kW/kW	2,960	2,930	2,850	2,790	2,900	2,940	2,840	2,820
Cooling energy class		B	B	B	B	B	B	B	B
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Ambient refrigeration</b>									
Prated,c	(10) kW	-	-	-	-	-	-	-	-
SEER	(10)(11)	-	-	-	-	-	-	-	-
Performance ηs	(10)(12) %	-	-	-	-	-	-	-	-
<b>SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)</b>									
PDesign	(4) kW	55,1	62,4	69,7	79,4	89,2	101	114	127
SCOP	(4)(13)	3,69	3,55	3,50	3,39	3,52	3,57	3,51	3,43
Performance ηs	(4)(14) %	144	139	137	132	138	140	137	134
Seasonal efficiency class	(15)	A+	A+	A+	-	-	-	-	-
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1) l/s	3,186	3,635	4,110	4,531	5,178	5,835	6,532	7,301
Pressure drop	(1) kPa	13,1	13,0	13,8	13,3	13,9	13,5	14,4	15,1
<b>HEAT EXCHANGER USER SIDE IN HEATING</b>									
Water flow	(3) l/s	3,421	3,875	4,347	4,974	5,589	6,356	7,120	7,918
Pressure drop	(3) kPa	15,2	14,7	15,4	16,0	16,2	16,1	17,1	17,8
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.	N°	2	2	2	2	2	2	2	2
No. Circuits	N°	1	1	1	1	1	1	1	1
Refrigerant charge	kg	34,1	29,9	31,1	32,2	37,7	38,9	39,9	49,0
<b>FANS</b>									
Air flow	m³/s	8,06	9,17	9,72	11,11	12,50	13,33	14,44	16,94
Available static pressure	Pa	30	30	30	30	30	30	30	30
<b>NOISE LEVEL</b>									
Sound power level in cooling	(5)(6)(16) dB(A)	89	84	85	88	86	87	89	93
Sound power level in heating	(5)(7)(16) dB(A)	76	79	78	79	79	80	81	82
Sound power level in heating	(5)(8)(16) dB(A)	89	84	85	88	86	87	89	93
<b>SIZE AND WEIGHT</b>									
A	(9) mm	2980	2980	2980	2980	3970	3970	3970	4670
B	(9) mm	1260	1260	1260	1260	1260	1260	1260	1260
H	(9) mm	2100	2100	2100	2100	2100	2100	2100	2100
Operating weight	(9) kg	1090	1160	1230	1320	1610	1630	1650	1880

**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]
- Total sound power of fans, as declared by the maker, at the rated speed of rotation and a useful static head of nominal on the delivery side.
- Sound power level in cooling, outdoors.
- Sound power level in heating, indoors.
- Sound power level in heating, outdoors.
- Unit in standard configuration/execution, without optional accessories.
- Parameter calculated according to [REGULATION (EU) N. 2016/2281]
- Seasonal energy efficiency ratio
- Seasonal space cooling energy efficiency
- Seasonal coefficient of performance
- Seasonal space heating energy efficiency
- Energy efficiency class referred to LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 811/2013]
- Sound power on the basis of measurements made in compliance with ISO 9614.

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NX-CN /A		0702	0524	0604	0704	0804	0904	1004	
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	173,7	124,8	144,3	169,3	187,2	216,9	238,0
Total power input	(1)	kW	64,96	46,32	55,18	62,04	70,82	81,01	91,54
EER	(1)	kW/kW	2,672	2,695	2,614	2,731	2,644	2,678	2,601
ESEER	(1)	kW/kW	3,950	4,120	4,000	4,210	4,060	4,080	3,990
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	173,3	124,4	143,9	168,8	186,7	216,4	237,4
EER	(1)(2)	kW/kW	2,700	2,710	2,630	2,750	2,660	2,690	2,610
ESEER	(1)(2)	kW/kW	3,940	4,030	3,920	4,130	3,990	4,010	3,920
Cooling energy class			B	A	B	A	B	B	B
<b>HEATING ONLY (GROSS VALUE)</b>									
Total heating capacity	(3)	kW	186,8	134,8	156,8	181,2	199,6	230,8	253,9
Total power input	(3)	kW	65,86	47,22	56,14	64,22	71,33	82,01	89,80
COP	(3)	kW/kW	2,835	2,856	2,795	2,822	2,799	2,815	2,827
<b>HEATING ONLY (EN14511 VALUE)</b>									
Total heating capacity	(3)(2)	kW	187,3	135,2	157,3	181,7	200,2	231,4	254,6
COP	(3)(2)	kW/kW	2,870	2,880	2,820	2,860	2,830	2,840	2,850
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>Ambient refrigeration</b>									
Prated,c	(10)	kW	-	-	-	-	-	-	-
SEER	(10)(11)		-	-	-	-	-	-	-
Performance ηs	(10)(12)	%	-	-	-	-	-	-	-
<b>SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)</b>									
PDesign	(4)	kW	145	106	124	142	154	180	194
SCOP	(4)(13)		3,52	3,68	3,55	3,60	3,56	3,55	3,59
Performance ηs	(4)(14)	%	138	144	139	141	139	139	141
Seasonal efficiency class	(15)		-	-	-	-	-	-	-
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	8,308	5,966	6,903	8,094	8,952	10,37	11,38
Pressure drop	(1)	kPa	15,7	19,6	19,7	20,4	19,9	20,4	20,0
<b>HEAT EXCHANGER USER SIDE IN HEATING</b>									
Water flow	(3)	l/s	9,019	6,508	7,570	8,749	9,635	11,14	12,26
Pressure drop	(3)	kPa	18,4	23,3	23,7	23,8	23,1	23,5	23,2
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	4	4	4	4	4	4
No. Circuits		N°	1	2	2	2	2	2	2
Refrigerant charge		kg	56,9	43,0	48,4	64,1	66,3	68,5	71,0
<b>FANS</b>									
Air flow		m³/s	18,61	13,06	15,56	19,72	19,72	21,94	21,94
Available static pressure		Pa	30	30	30	30	30	30	30
<b>NOISE LEVEL</b>									
Sound power level in cooling	(5)(6)(16)	dB(A)	95	87	90	88	88	91	91
Sound power level in heating	(5)(7)(16)	dB(A)	85	81	85	80	81	88	88
Sound power level in heating	(5)(8)(16)	dB(A)	95	87	90	88	88	91	91
<b>SIZE AND WEIGHT</b>									
A	(9)	mm	5670	3970	4670	5670	5670	5670	5670
B	(9)	mm	1260	1260	1260	1260	1260	1260	1260
H	(9)	mm	2100	2100	2100	2100	2100	2100	2100
Operating weight	(9)	kg	2120	1610	1840	2310	2460	2550	2610

### Notes

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- 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]
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- Energy efficiency class referred to LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 811/2013]
- Sound power on the basis of measurements made in compliance with ISO 9614.

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

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### Dimensional drawing

