

Outdoor unit for the production of chilled/hot water with fixed speed and variable speed (Inverter Driven) Scroll compressors, optimized for R410A in a single-circuit configuration, axial-flow fans, condensing coil with copper tubes and aluminum fins and electronic expansion valve as standard equipment. Flexible and reliable unit; it easily adapts itself to different thermal load conditions thanks to the precise temperature control together with the use of inverter technology. The high performance's level, both full and partial load, is achieved thanks to the accurate unit's design and to the use of fixed speed motor together with variable speed (inverter) motor.

Control	
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Electronic control W3000+

The brand new W3000+ controller offers advanced functions and algorithms. The Compact keypad, as standard equipment, features function controls and a complete LCD display for viewing data and activating the unit, via a multilevel menu, with settable display language. In addition to or as an alternative, the KIPlink is available - Keyboard In Your Pocket - is the innovative user interface based on WiFi technology that allows one to operate on the unit directly from the smartphone or tablet. Using KIPlink, it is possible to turn the unit on and off, adjust the set-point, plot the main operating variables, monitor in detail the status of the refrigerant circuits, the compressors, the fans and the pumps (if present) and display and reset the possible alarms. The regulation features the continuous modulation of capacity, based on sequential adjustment + DIP referring to the leaving water temperature (neutral zone adjustment + DIP on outlet temperature probe, for the 0151 size). Diagnostics include complete alarm management, with "blackbox" functions (via PC) and alarm log (display or PC) for best analysis of unit be haviour. The built-in clock can be used to create an operating profile containing up to 4 typical days and 10 time bands, essential for efficient programming of energy production. Optional proprietary devices can perform the adjustment of the resources in systems made of several units. Consumption metering and performance measurement are possible as well. The variable primary flow control is always available as per standard (VPF.E function). Supervision is available with different options, 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.

Refrigerant	R410A
Versions	/
- Basic	SL Super-low noise version
Configurations	
- Basic function	D Partial condensing heat recovery function

Features

Unit with high efficiency and reduced energy consumption, thanks to the inverter technology, contributing to lower operating costs and therefore achieving a quick return on investment.

VARIABLE PRIMARY FLOW

Energy saving due to variable pump speed management based on load demand and the variable flow assures the functioning of the units also with critical working conditions.

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 and buffer tank.

TWO SOUND EMISSION LEVELS

Two different acustic versions are available to fit specific application requirements.

Accessories

- Remote control keyboard (distance to 200m and to 500m)
- Set-up for remote connectivity with ModBus/Echelon protocol cards
- Compressor power factor correction
- Soft start
- Hydronic kit available in different configurations with 1 or 2 pumps fixed speed or variable speed and buffer tank
- VPF (Variable Primary Flow) system
- EC fans with electronic DC brushless
 motor
- LOW NOISE KIT (only on no silenced versions)
- User Limit Control (U.L.C.) allows the safe startup of the unit in critical conditions of water and air temperature.
- Night mode is a system setting to limit maximum noise level of the unit.
- Traditional coils with copper tubes and alluminium fins, also available with prepainted fins or Fin Guard Silver protective treatment.



R HFC R-410A	P PLATES
💥 COOLING	AXIAL
HEATING	© SCROLL

i-NX-N			0151P	0182P	0202P	0262P	0302P	0352P	0402P	0502F
Power supply		V/ph/Hz 4	400/3+N/50	400/3+N/50	400/3+N/50) 400/3+N/50	400/3/50	400/3/50	400/3/50	400/3/5
PERFORMANCE										
COOLING ONLY (GROSS VALUE)										
Cooling capacity	(1)	kW	43,87	50,90	62,09	74,40	85,27	104,7	113,8	128,3
Fotal power input	(1)	kW	15,79	18,34	22,11	26,13	30,40	37,39	41,10	46,15
ER	(1)	kW/kW	2,778	2,781	2,810	2,851	2,806	2,799	2,769	2,783
ESEER	(1)	kW/kW	4,270	4,300	4,140	4,350	4,260	4,450	4,380	4,470
COOLING ONLY (EN14511 VALUE)										
Cooling capacity	(1)(2)	kW	43,60	50,60	61,70	74,00	84,90	104,2	113,3	127,7
EER	(1)(2)	kW/kW	2,710	2,720	2,750	2,790	2,760	2,750	2,720	2,730
ESEER	(1)(2)	kW/kW	4,000	4,000	3,860	4,060	4,010	4,160	4,100	4,200
Cooling energy class			С	С	С	С	С	С	С	С
HEATING ONLY (GROSS VALUE)										
Fotal heating capacity	(3)	kW	46.80	53.82	66.60	79.72	90.60	111.6	119.5	138.0
Fotal power input	(3)	kW	14,85	17,09	21,08	24,83	28,81	35,54	37,97	42,95
COP	(3)	kW/kW	3,141	3,146	3,156	3,214	3,146	3,144	3,145	3,209
HEATING ONLY (EN14511 VALUE)	. ,		-,	-,	-,	-,	-,	-,	-,	2,200
Fotal heating capacity	(3)(2)	kW	47.10	54.10	67.00	80.20	91.10	112.2	120.1	138.7
COP	(3)(2)	kW/kW	3,100	3,100	3,110	3,170	3,110	3,110	3,110	3,170
Cooling energy class	(0)(=)		B	B	B	B	B	B	B	B
ENERGY EFFICIENCY			5	D	D	U	D			U
	Dem Ell 204	10/0004)								
SEASONAL EFFICIENCY IN COOLING (Reg. EU 20	16/2201)								
Ambient refrigeration	(10)									
Prated,c	(10)	kW	-	-	-	-	-	-	-	-
SEER	(10)(11)	0/	-	-	-	-	-	-	-	-
Performance ηs	(10)(12)	%	-	-	-	-	-	-	-	-
SEASONAL EFFICIENCY IN HEATING (I			047	44.4	45.0	01.0	00.0	05.4	05.0	400
PDesign	(4)	kW	34,7	41,4	45,9	61,2	68,9	85,4	85,2	106
SCOP	(4)(13)	0(3,73	3,80	3,68	3,83	3,84	4,02	3,98	3,97
Performance ns	(4)(14)	%	146	149	144	150	151	158	156	156
Seasonal efficiency class	(15)		A+	A+	A+	A++	A++	-	-	-
EXCHANGERS										
HEAT EXCHANGER USER SIDE IN REF	RIGERATIO	N								
Nater flow	(1)	l/s	2,098	2,434	2,969	3,558	4,078	5,008	5,442	6,137
Pressure drop	(1)	kPa	37,2	38,2	40,9	42,0	36,2	39,0	38,8	38,4
HEAT EXCHANGER USER SIDE IN HEA	TING									
Nater flow	(3)	l/s	2,259	2,598	3,215	3,848	4,373	5,387	5,768	6,659
Pressure drop	(3)	kPa	43,1	43,6	48,0	49,1	41,6	45,1	43,6	45,2
REFRIGERANT CIRCUIT										
Compressors nr.		N°	1	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1
Refrigerant charge		kg	14,4	19,5	22,9	27,1	26,8	38,7	39,2	50,9
NOISE LEVEL		5		,						
Sound Pressure	(5)	dB(A)	66	66	68	69	68	70	70	70
Sound power level in cooling	(6)(7)	dB(A)	84	84	86	87	87	89	89	89
Sound power level in heating	(6)(8)	dB(A)	84	84	85	86	87	89	89	89
SIZE AND WEIGHT	()()		U .	• •			0.			20
Operating weight	(9)	kg	650	730	820	880	1030	1190	1210	1340
	(0)	кy								
	(9)	mm	2000	2000	2625	2625	3250	3250	3250	3875
A B	(9) (9)	mm mm	2000 1350	2000 1350	2625 1350	2625 1350	3250 1350	3250 1350	3250 1350	3875 1350

Notes

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

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] Average sound pressure level at Im 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. 2 3

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The units highlighted in this publication contain HFC R410A [GWP₁₀₀ 2088] fluorinated greenhouse gases.

7 Sound power level in cooling, outdoors.
8 Sound power level in heating, outdoors.
9 Unit in standard configuration/execution, without optional accessories.
10 Parameter calculated according to [REGULATION (EU) N. 2016/2281]
11 Seasonal energy efficiency ratio
12 Seasonal space cooling energy efficiency
13 Seasonal space heating energy efficiency
14 Seasonal space heating energy efficiency
15 Energy efficiency class referred to LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 811/2013]



i-NX-N 0151P - 0502P 40,96-128,3 kW

HEAT PUMPS

i-NX-N /SL			0151P	0182P	0202P	0262P	0302P	0352P	0402P	0502F
Power supply		V/ph/Hz 4	100/3+N/50	400/3+N/50	400/3+N/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/5
PERFORMANCE										
COOLING ONLY (GROSS VALUE)										
Cooling capacity	(1)	kW	40,96	48,39	59,30	72,40	81,36	98,56	111,7	125,7
Total power input	(1)	kW	14,76	17,30	21,37	25,36	28,32	35,56	40,19	43,83
EER	(1)	kW/kW	2,770	2,798	2,771	2,850	2,876	2,770	2,779	2,870
ESEER	(1)	kW/kW	4,360	4,300	4,230	4,380	4,450	4,500	4,580	4,520
COOLING ONLY (EN14511 VALUE)										
Cooling capacity	(1)(2)	kW	40,80	48,10	59,00	72,00	81,00	98,20	111,2	125,1
EER	(1)(2)	kW/kW	2,720	2,740	2,720	2,790	2,820	2,730	2,730	2,820
ESEER	(1)(2)	kW/kW	4,110	4,020	3,970	4,080	4,180	4,250	4,320	4,250
Cooling energy class			С	С	С	С	С	С	С	С
HEATING ONLY (GROSS VALUE)										
Total heating capacity	(3)	kW	45,67	54,94	66,62	81,40	90,40	110,8	124,4	139,5
Total power input	(3)	kW	13,89	16,82	20,35	24,94	27,68	33,96	38,08	42,74
	(3)	kW/kW	3,288	3,268	3,281	3,269	3,264	3,259	3,265	3,267
HEATING ONLY (EN14511 VALUE)	(2)(2)	1.1.0./	46.00	EE 00	67.00	01.00	00.00	114 4	105 4	440.0
Total heating capacity COP	(3)(2)	kW kW/kW	46,00 3,240	55,30 3,220	67,00 3,230	81,90 3,220	90,90 3,220	111,4 3,220	125,1 3,220	140,2
	(3)(2)	KVV/KVV	3,240 A	3,220 A	3,230 A	3,220 A	3,220 A	3,220 A	3,220 A	3,230 A
Cooling energy class			A	A	A	A	A	A	A	A
		0.0004								
SEASONAL EFFICIENCY IN COOLING (Reg. EU 20'	16/2281)								
Ambient refrigeration	(10)									
Prated,c	(10)	kW	-	-	-	-	-	-	-	-
SEER	(10)(11) (10)(12)	%	-	-	-	-	-	-	-	-
Performance ηs			-	-	-	-	-	-	-	-
SEASONAL EFFICIENCY IN HEATING (I	(4)	kW	34,4	41,3	50.0	57,0	67,8	77.4	04.1	105
PDesign SCOP	(4)(13)	KVV	34,4	3,76	3,68	3,82	3,96	77,4 3,93	94,1 4,02	4,04
Performance ns	(4)(13)	%	148	147	144	150	155	154	158	4,04
Seasonal efficiency class	(15)	/0	A+	A+	A+	A++	A++	-	-	-
EXCHANGERS	(10)		A'	<u></u>	<u> </u>	A				-
HEAT EXCHANGER USER SIDE IN REF		NI .								
Water flow	(1)	/N /s	1.959	2.314	2.836	3,462	3.891	4.713	5.341	6.010
Pressure drop	(1)	kPa	32.4	34.6	37.3	39.8	33.0	34.6	37.3	36.8
HEAT EXCHANGER USER SIDE IN HEA	()	кга	52,4	54,0	57,5	39,0	55,0	54,0	57,5	30,0
Water flow	(3)	l/s	2.205	2.652	3,216	3.929	4.364	5.348	6.004	6,732
Pressure drop	(3)	kPa	41,1	45,4	48,0	51,2	41,5	44,5	47,2	46,2
REFRIGERANT CIRCUIT	(0)	KI CI	71,1		40,0	51,2	-1,5	,5	77,2	4 0,2
Compressors nr.		N°	1	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1
Refrigerant charge		kg	18,8	25,4	26,2	26,6	37,6	37,0	49,9	61,0
NOISE LEVEL		Ng	10,0	20,7		20,0	01,0	07,0	10,0	01,0
Sound Pressure	(5)	dB(A)	60	60	61	61	61	63	63	63
Sound power level in cooling	(6)(7)	dB(A)	78	78	79	80	80	82	82	82
Sound power level in heating	(6)(8)	dB(A)	78	78	79	80	80	82	82	82
SIZE AND WEIGHT							20			
Operating weight	(9)	kg	670	830	860	1010	1080	1260	1320	1460
A	(9)	mm	2000	2625	2625	3250	3250	3875	3875	4500
B	(9)	mm	1350	1350	1350	1350	1350	1350	1350	1350
H	(9)	mm	2070	2070	2070	2170	2170	2170	2170	2170

Notes

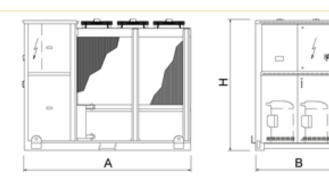
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Plant (side) heat exchanger water (in/out) 40°C/45°C; Source (side) heat exchanger air (in) 7°C - 87% R.H.
Parameter calculated for LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 813/2013]
Average sound pressure level at 1m distance, unit in a free field on a reflective surface; pop-briging value calculated from the sound power level.

non-binding value calculated from the sound power level. Sound power on the basis of measurements made in compliance with ISO 9614. 6

The units highlighted in this publication contain HFC R410A [GWP₁₀₀ 2088] fluorinated greenhouse gases. Certified data in EUROVENT

Dimensional drawing



7 Sound power level in cooling, outdoors.
8 Sound power level in heating, outdoors.
9 Unit in standard configuration/execution, without optional accessories.
10 Parameter calculated according to [REGULATION (EU) N. 2016/2281]
11 Seasonal energy efficiency ratio
12 Seasonal space cooling energy efficiency
13 Seasonal coefficient of performance
14 Seasonal space heating energy efficiency
15 Energy efficiency class referred to LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 811/2013]