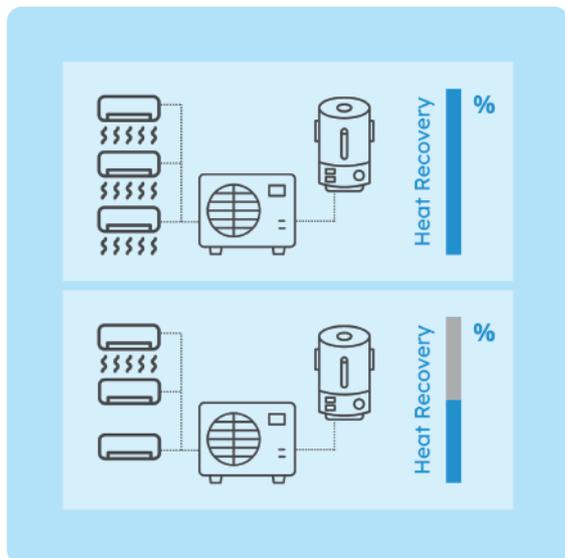


# All-in-One system

This is the solution to provide climate comfort and domestic hot water in a fully electric mode, with high energy efficiency, through air-to-air heat pumps



## Simple, complete and efficient, thanks to heat recovery

Nexya All-in-One is a complete multisplit system, providing both air conditioning and DHW production (class A+ within a range between A+ and F). The extreme simplicity and flexibility of the system make it the ideal solution for both new buildings and retrofit projects, aimed at making thermal energy consumption more efficient and fully electric. However, completeness and simplicity are not the only strengths: compared to traditional air conditioning and domestic hot water production systems, the parallel operation of the two cooling circuits (comfort and DHW) recovers heat that would normally be expelled by the external unit during cooling, and uses it for the production of DHW in the storage tank. Heat recovery can be total or partial, depending on the thermal power required by the storage tank and the number of internal units active in providing climate comfort.

## 100 or 190 litre storage tank

The system consists of an external unit, which can be combined with one or more internal units (wall, duct or box) and a DHW storage tank, which connects like any other internal unit. Made of enamelled steel, with 42 mm thick rigid polyurethane foam thermal insulation and a cyclopentane polyurethane external coating, it is available in two versions: 100L wall-mounted model or 190L tower model. Both are equipped with:

- direct expansion exchanger with micro-channel heat transfer technology, which ensures a larger contact area with the water tank than conventional systems;
- 1.5 kW (hanging) and 2 kW (tower) electric heating element, which ensures DHW even in case of system failure, thanks to independent control;
- dual temperature sensors for more accurate temperature control at the top and bottom of the tank;
- electronic expansion valve for timely control;
- on/off contact to start the tank from an external switch, and possibility of interface with BMS, photovoltaic and smartgrid systems as well.

Combined pressure and temperature safety valve (8 bar; 99°C) is standard in the 190L tower version. The sanitary expansion tank is not included in either version (to be provided by the installer).

## Operation in all conditions

Nexya All-in-One allows for DHW production up to 55°C (70°C with the electric heating element active) with outdoor temperatures between -15°C and +50°C. Various operating modes are available - Vacation, Hybrid, E-Heater, Economy and Smart Mode - along with a daily and weekly timer for switching on and off. Disinfection cycles are weekly.



NEW

## TECHNICAL DATA

TECHNICAL DATA				UI Nexya DHW S5 E 100	UI Nexya DHW S5 E 190	
<b>Indoor unit code</b>				02660	02589	
<b>Indoor unit EAN code</b>				8021183026603	8021183025897	
<b>Tank features</b>				Enamelled steel	Enamelled steel	
<b>Tank protection from corrosion</b>				Magnesium anode	Magnesium anode	
<b>Electrical power supply</b>				Single-phase 220-240/1/50	Single-phase 220-240/1/50	
<b>Nominal tank volume</b>				l	l	
DHW (EN 16147:2017)	<b>Domestic hot water temperature setting</b>		Tset	°C	55	52
	<b>Domestic hot water reference temperature</b>		wh	°C	55	52,6
	<b>COPdhw (EN16147: A7/W52)</b>		medium area		2,61	2,62
	<b>COPdhw (EN16147: A14/W52)</b>		hot area		2,51	2,94
	<b>Water heating energy efficiency (area: EU average 812/2013)</b>		WH	%	108	128
	<b>Maximum volume of mixed water at 40°C</b>		Vmax	l	108	240
	<b>Declared load profile (UNI EN 16147)</b>				M	L
	<b>Energy class</b>				A+	A+
	<b>Heating time</b>		time	h:min	01:30:00	02:30:00
	<b>Maximum water temperature (without/with electric heater)</b>			°C	55/70	55/70
DIMENSIONS AND LIMITATIONS OF THE COOLING CIRCUIT	<b>Energy absorbed during heating time</b>		Weh	kWh	1,5	2,9
	<b>Power consumption in standby</b>		Pes	W	22	50
	<b>Electric heater</b>			kW / A	1,5 / 7,0	2,0 / 9,1
	<b>Sound pressure of the external unit</b>			dB(A)	-	-
	<b>Sound pressure of the external unit</b>			dB(A)	64	64
	<b>Nominal pressure of the domestic hot water boiler</b>			Mpa	0,8	1
	<b>Dimensions (WxHxD) (without packaging)</b>			mm	555 x 1060 x 500	504 x 1660 x 574
	<b>Weight (without packaging)</b>			kg	45,5	70
	<b>Dimensions (WxHxD) (with packaging)</b>			mm	630 x 1280 x 575	690 x 1860 x 690
	<b>Weight (with packaging)</b>			kg	55,5	92
OPERATIONAL LIMITS	<b>Liquid connection pipeline diameter</b>			mm (inch)	1/4" - 6,35	6,35 (1/4")
	<b>Connecting gas pipeline diameter</b>			mm (inch)	3/8" - 9,52	9,52 (3/8")
	<b>Maximum length for an internal unit</b>			m	20	20
	<b>Minimum total piping length</b>			m	5	5
	<b>Maximum difference in height between the internal and external units</b>			m	15	15
	<b>Maximum difference in height between the internal units</b>			m	10	10
	<b>Diameter of connections on the bathroom fixtures</b>			inch	DN15	RC3/4"
	<b>Electric Heating Element Connection</b>		Pipes		3 x 1,5 mm <sup>2</sup>	3 x 1,5 mm <sup>2</sup>
	<b>Storage Tank-Outdoor Unit Connection</b>		Pipes		4 x 1,0 mm <sup>2</sup>	4 x 1,0 mm <sup>2</sup>
	<b>External air temperature (min-max)</b>			°C	-15/50	-15/50
<b>Domestic hot water set point temperature (min-max) - without electric heating element</b>			°C	38 - 55	38 - 55	
<b>Domestic hot water set point temperature (min-max) - with electric heating element</b>			°C	38 - 70	38 - 70	

SPLIT AIR-TO-AIR HEAT PUMPS

# NEXYA MULTI WALL ALL-IN-ONE

[OS5+IS4/S5]



Size	<b>27</b>
Energy class	<b>A++, A+</b>
Type	<b>multisplit</b>
Filtration	<b>antidust   activated carbons   catalysts</b>
Application	<b>residential</b>



## A unique, even more efficient system

The system consists of an outdoor unit, a DHW storage tank, and up to 3 indoor units. Compared with systems that separately manage air conditioning and DHW production, Nexya All-in-One is more efficient, because it recovers waste heat (during cooling operation) for DHW production and is therefore ideal in both new construction and energy upgrades.

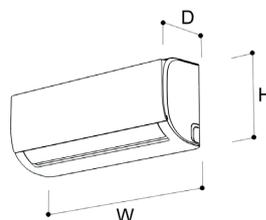
## Air Quality Technology

To improve indoor air quality in home environments, the unit is equipped with a triple-stage filtration system that combines a pre-filter (with anti-dust function), an activated carbon filter, effective against odors, and a cold catalytic filter capable of reducing impurities.

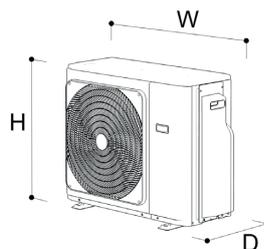
## TECHNICAL INFO

- Manual oscillation of horizontal airflow.
- Golden Fin treatment on the outdoor unit battery to prevent corrosive weathering.
- Wireless connectivity is integrated into the wall-mounted indoor unit by easily installing the USB stick (OS Comfort app), included in the package, while for the kettle it is already integrated (OS Comfort app), with separate management.

## DIMENSIONS AND WEIGHT



		9	12	18
W	mm	805	805	957
H	mm	285	285	302
D	mm	194	194	213
WEIGHT	kg	7,6	7,6	10,0



		27
W	mm	946
H	mm	810
D	mm	410
WEIGHT	kg	64,3

- Cooling
- Heating
- Dehumidification
- Ventilation
- DHW production
- Auto Mode
- Auto-restart
- Auto-diagnosis
- Defrost
- Temperature Sensor
- Sleep Mode
- Vertical swing
- Timer
- Turbo Mode



## TECHNICAL DATA

UE Nexxa WHR S5 E Quadri Inverter 27

Outdoor unit code		OS-CEMAH27E1			
Outdoor unit EAN code		8021183122213			
	Output power in cooling mode (min/rated/max)	(1)	kW	2,35-7,83-8,62	
	Output power in heating mode (min/rated/max)	(1)	kW	2,45-8,15-8,97	
	Absorbed power in cooling mode (min/rated/max)	(1)	kW	0,34-2,29-2,75	
	Absorbed power in heating mode (min/rated/max)	(1)	kW	0,3-2,02-2,43	
	Absorption in cooling mode (min/nom/max)	(1)	A	1,1-10,7-12,6	
	Absorption in heating mode (min/nom/max)	(1)	A	1,5-9,6-13	
	EER	(1)		3,42	
	COP	(1)		4,03	
	Maximum power consumption in cooling mode	(2)	kW	5,30	
	Maximum power consumption in heating mode	(3)	kW	5,30	
	Energy efficiency class in cooling	(4)		A++	
	Energy efficiency class in heating mode - Average season	(4)		A+	
	Energy efficiency class in heating mode - Warmer season	(4)		A+++	
	Energy efficiency class in heating mode - Cold season	(4)		-	
	Annual energy consumption in cooling mode	(4)	kWh/year	435	
	Annual energy consumption in heating mode - Average season	(4)	kWh/year	2199	
	Annual energy consumption in heating mode - Warmer season	(4)	kWh/year	1814	
	Annual energy consumption in heating mode - Cold season	(4)	kWh/year	-	
PROJECT LOADS (EN 14825)	Cooling	Pdesignc	(4)	kW	7,8
	Heating - Mid Season	Pdesignh	(4)	kW	6,3
	Heating - Hot season	Pdesignh	(4)	kW	6,6
	Heating - Cold Season	Pdesignh	(4)	kW	-
SEASONAL EFFICIENCY (EN14825)	Cooling	SEER	(4)		6,3
	Heating - Mid Season	SCOP ( A )	(4)		4,0
	Heating - Hot season	SCOP ( W )	(4)		5,1
	Heating - Cold Season	SCOP ( C )	(4)		-
OUTDOOR UNIT	Dimensions (WxHxD) (without packaging)		mm	946x810x410	
	Weight (without packaging)		kg	64,3	
	Dimensions (WxHxD) (with packaging)		mm	1090x885x500	
	Weight (with packaging)		kg	68,6	
	Air flow rate		m <sup>3</sup> /h	4000	
	Sound Pressure	(7)	dB(A)	61	
	Sound power	LWA	(5)	dB(A)	69
COOLING CIRCUIT	Liquid connection pipeline diameter		nr inch-mm	4 x 1/4" - 6,35	
	Connecting gas pipeline diameter		nr inch-mm	3 x 3/8" - 9,52 + 1 x 1/2" - 12,7	
	Piping length covered by precharge		m	30	
	Piping recommended minimum length		m	3	
	Maximum piping length (overall)		m	80	
	Maximum pipeline length (single pipeline branch)		m	35	
	Additional refrigerant		g/m	20	
	Maximum elevation of external unit above internal units		m	15	
	Maximum elevation of external unit below internal units		m	15	
	Maximum elevation difference between internal units		m	10	
	Refrigerant gas	Type	(8)		R32
	Global warming potential	GWP			675
ELECTRICAL CONNECTIONS	Refrigerant preloaded quantity		kg	1,8	
	Maximum operating pressure (High/Low side)		MPa	4,3/1,7	
	External Unit Power Supply		V/F/Hz	Single-phase 220-240/1/50	
	Maximum Current		A	23,5	
INDOOR UNIT	Operating temperatures in cooling mode (min/max)		°C B.S.	-1/+50	
	Operating temperatures in heating mode (min/max)		°C B.U.	-15/+24	

## TECHNICAL DATA

UI Nexxa S4 E Inverter 9 UI Nexxa S4 E Inverter 12 UI Nexxa S4 E inverter 18

Indoor unit code		OS-SENEH09E1		OS-SENEH12E1		OS-SENEH18E1	
Indoor unit EAN code		8021183114928		8021183114935		8021183114942	
	Indoor Unit Power Supply		V/F/Hz	220-240/1/50	220-240/1/50	220-240/1/50	
	Nominal cooling capacity	(1)	kW	2,64	3,52	5,27	
	Nominal heating capacity	(1)	kW	2,93	3,81	4,97	
INDOOR UNIT	Dimensions (WxHxD) (without packaging)		mm	805x285x194	805x285x194	957x302x213	
	Weight (without packaging)		kg	7,6	7,6	10,0	
	Dimensions (WxHxD) (with packaging)		mm	870x365x270	870x365x270	1035x385x295	
	Weight (with packaging)		kg	9,7	9,8	13,0	
	Indoor air flow rate in cooling mode (min/average/max)		m <sup>3</sup> /h	340-460-520	360-500-600	340-460-520	
	Indoor air flow rate in heating mode (min/average/max)		m <sup>3</sup> /h	340-460-520	360-500-600	340-460-520	
	Sound pressure (silent/min/med/max)		dB(A)	/-26-30-40	/-26-34-40	/-26-30-40	
INDOOR PIPING DIMENSIONS	Sound power	(5)	dB(A)	54	54	55	
	Liquid connection pipeline diameter		inch - mm	1/4" - 6,35	1/4" - 6,35	1/4" - 6,35	
INDOOR UNIT	Connecting gas pipeline diameter		inch - mm	3/8" - 9,52	3/8" - 9,52	1/2" - 12,7	
	Operating temperatures in cooling mode (min/max)		°C B.S.	+17/+32	+17/+32	+17/+32	
	Operating temperatures in heating mode (min/max)		°C B.S.	0/+30	0/+30	0/+30	

(1) The data refers to the EN 14511 Standard

(2) Cooling test conditions: indoor temperature DB 32°C - WB 26°C; outdoor temperature DB 37°C

(3) Heating test conditions: indoor temperature DB 27°C; outdoor temperature DB 3°C - WB 2°C

(4) The data refers to the EN 14825 Standard

(5) The data refers to the EN 12102 Standard

(6) Test conditions: semi-anechoic chamber, unit positioned in free-field conditions, measuring instrument positioned at 1 metre, centred with respect to the internal unit and 0.8 metres below it

(7) Test conditions: semi-anechoic chamber, unit positioned in free-field conditions, measuring instrument positioned at a distance of 1 metre at a height of 1 metre

(8) Non-hermetically sealed equipment containing fluorinated GAS with a GWP equivalent of 675

The declared data refers to one of the combinations capable of achieving the highest energy class. For the energy class and performance of the individual combinations, refer to the selection tables on the website [www.olimpiasplesind.it](http://www.olimpiasplesind.it) and to the energy labels of the specific combination (range between A+++ and D). The actual power consumption of the product, in conditions of real use, may differ from what is indicated. The data is subject to changes and modifications without prior notice.