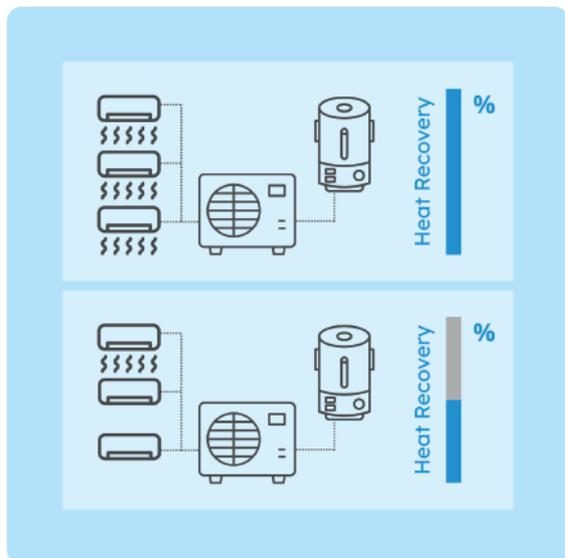


All-in-One system

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

SPLIT AIR-TO-AIR HEAT PUMPS

NEXYA MULTI DUCT ALL-IN-ONE

[OS5+IS5/S6]



Size	27
Energy class	A++, A+
Type	multisplit
Filtration	antidust
Application	residential



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.

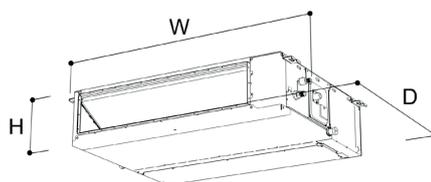
High installation flexibility

Suitable for any installation condition thanks to its compact dimensions and reversible air intake: the duct can be moved from the back of the unit (standard configuration) to the bottom, replacing it with a sheet metal panel.

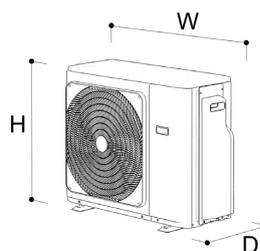
TECHNICAL INFO

- Digital display outside the indoor unit.
- Ability to control with external devices to turn on and off (remote on-off) and synchronize alarm condition (alarm contact).
- Indoor unit equipped with specific air inlets for introduction of outside or fresh air and condensate liquid lift pump (except for size 9 and 12).
- Golden Fin treatment on the battery of the outdoor unit.
- Wireless connectivity is already built in for the boiler (OS Comfort app).
- Compatible with Airzone control systems.

DIMENSIONS AND WEIGHT



		9	12	18
W	mm	700	700	700
H	mm	200	200	245
D	mm	450	450	750
WEIGHT	kg	16,6	16,6	24,4



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

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

COMPATIBLE ACCESSORIES

B1234	Wireless 4-wire wall control
B0969	4-wire wall-mounted remote control
B0970	Wi-Fi disc kit



TECHNICAL DATA

UE Nexxa WHR S5 E Quadri Inverter 27

Outdoor unit code		OS-CEMAH27EI	
Outdoor unit EAN code		8021183122213	
	Output power in cooling mode (min/rated/max)	(1) kW	2,36/7,87/8,66
	Output power in heating mode (min/rated/max)	(1) kW	2,45/8,17/8,98
	Absorbed power in cooling mode (min/rated/max)	(1) kW	0,36/2,38/2,85
	Absorbed power in heating mode (min/rated/max)	(1) kW	0,3/1,98/2,37
	Absorption in cooling mode (min/nom/max)	(1) A	0,7/10/21
	Absorption in heating mode (min/nom/max)	(1) A	0,6/8,3/10
	EER	(1)	3,31
	COP	(1)	4,14
	Maximum power consumption in cooling mode	(2) kW	5,3
	Maximum power consumption in heating mode	(3) kW	5,3
	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	430
	Annual energy consumption in heating mode - Average season	(4) kWh/year	2150
	Annual energy consumption in heating mode - Warmer season	(4) kWh/year	1732
	Annual energy consumption in heating mode - Cold season	(4) kWh/year	-
PROJECT LOADS (EN 14825)	Cooling	Pdesignc (4)	7,9
	Heating - Mid Season	Pdesignh (4)	6,2
	Heating - Hot season	Pdesignh (4)	6,3
	Heating - Cold Season	Pdesignh (4)	-
SEASONAL EFFICIENCY (EN14825)	Cooling	SEER (4)	6,4
	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)		946x810x410
	Weight (without packaging)		64,3
	Dimensions (WxHxD) (with packaging)		1090x885x500
	Weight (with packaging)		68,6
	Air flow rate		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
	Refrigerant preloaded quantity	kg	1,8
Maximum operating pressure (High/Low side)	MPa	4,3/1,7	
ELECTRICAL CONNECTIONS	External Unit Power Supply	V/F/Hz	Single-phase 220-240/1/50
	Maximum Current	A	17
	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

Indoor unit code		UI Nexxa S6 E Duct 9	UI Nexxa S6 E Duct 12	UI Nexxa S6 E Duct 18
Indoor unit EAN code		OS-SEDAH09EI	OS-SEDAH12EI	OS-SEDAH18EI
Indoor unit EAN code		8021183122244	8021183122251	8021183122268
	Indoor Unit Power Supply	V/F/Hz	220-240/1/50	220-240/1/50
	Nominal cooling capacity	(1) kW	2,64	3,52
	Nominal heating capacity	(1) kW	2,93	3,81
INDOOR UNIT	Dimensions (WxHxD) (without packaging)	MM	700x200x450	700x200x450
	Weight (without packaging)	kg	16,6	16,6
	Dimensions (WxHxD) (with packaging)	mm	860x285x540	860x285x540
	Weight (with packaging)	kg	19,8	19,8
	Indoor air flow rate in cooling mode (min/average/max)	m³/h	450-540-620	470-570-660
	Indoor air flow rate in heating mode (min/average/max)	m³/h	450-540-620	470-570-660
	Sound pressure (silent/min/med/max)	(6) dB(A)	/-31-33-35	/-31-33-35
	Sound power	(5) dB(A)	52	52
	Fan pressure	Pa	25	25
	Fan pressure adjustment field	Pa	0-80	0-100
	Liquid connection pipeline diameter	inch - mm	1/4" - 6,35	1/4" - 6,35
	Connecting gas pipeline diameter	inch - mm	3/8" - 9,52	3/8" - 9,52
	INDOOR ELECTRICAL CONNECTIONS	Operating temperatures in cooling mode (min/max)	°C B.S.	+16/+32
Operating temperatures in heating mode (min/max)		°C B.S.	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 1.5 metres below the internal unit fitted with standard ducting of 2 metres (delivery) and 1 metre (return)

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

(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.olimpiaplendid.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.