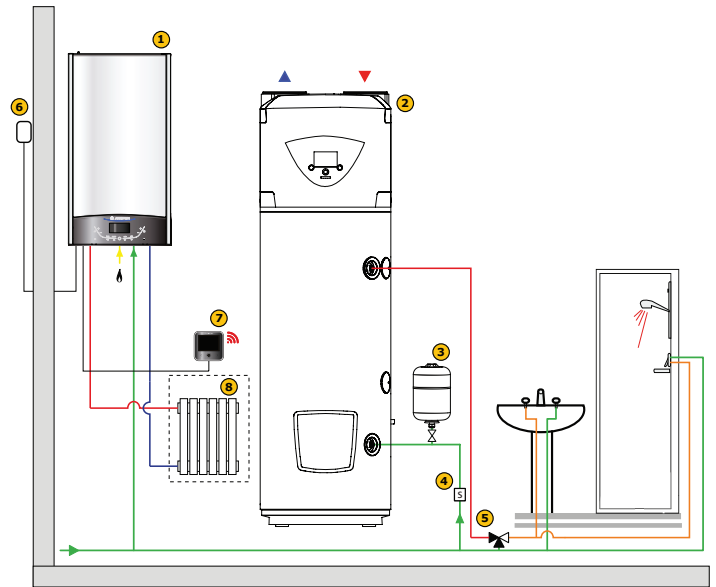


SINGLE-FAMILY SOLUTIONS



DOMESTIC HOT WATER FROM RENEWABLE SOURCE WITH HEAT PUMP WATER HEATER

Heating with condensing wall-hung boiler



Legend

- 1 Wall-Hung Boiler
- 2 Heat Pump Water Heater Nuos
- 3 Expansion Vessel
- 4 Safety group
- 5 Domestic hot water Mixing valve
- 6 External probe
- 7 Room sensor Cube S NET
- 8 Heating zone

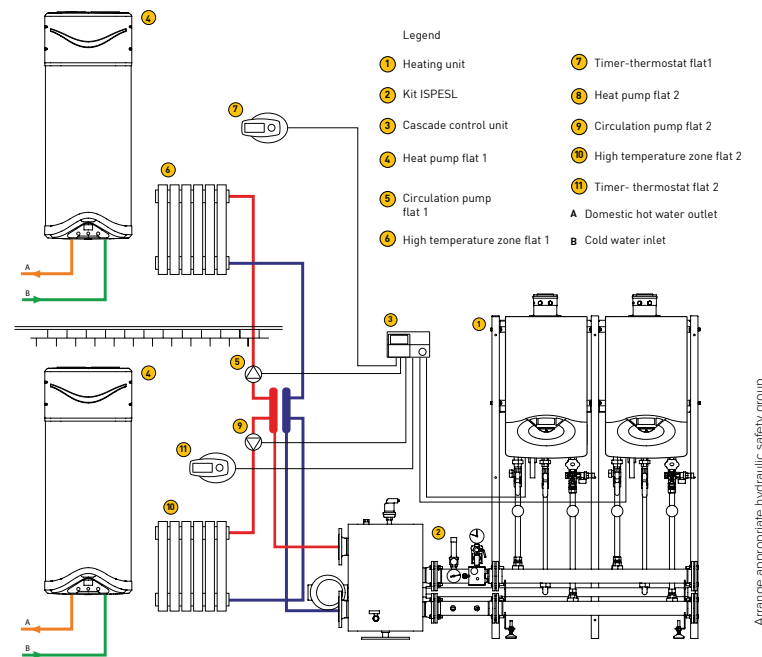
Arrange an appropriate hydraulic safety group

MULTI-FAMILY SOLUTIONS



DOMESTIC HOT WATER FROM RENEWABLE SOURCE WITH INDIVIDUAL WALL-HUNG HEAT PUMP WATER HEATER

Centralized heating system with condensing boilers



Legend

- 1 Heating unit
- 2 Kit ISPEL
- 3 Cascade control unit
- 4 Heat pump flat 1
- 5 Circulation pump flat 1
- 6 High temperature zone flat 1
- 7 Timer-thermostat flat 1
- 8 Heat pump flat 2
- 9 Circulation pump flat 2
- 10 High temperature zone flat 2
- 11 Timer-thermostat flat 2
- A Domestic hot water outlet
- B Cold water inlet

Arrange appropriate hydraulic safety group

MONOBLOCK HEAT PUMP WATER HEATER



	NUOS PLUS			
	200	250	250 SYS	250 TWIN SYS
ENERGY CLASS	A+	A+	A+	A+
TAPPING PROFILE	L	XL	XL	XL
TYPE	Monoblock			
INTERNAL UNIT ASSEMBLY	Floor standing			
OPERATING RANGE AIR (°C)	-7/42			
MAX WATER TEMPERATURE (WITH/ WITHOUT HEATING ELEMENTS) (°C)	62/75			
COP*	3,28	3,64	3,54	3,54
SEASONAL EFFICIENCY (AVERAGE CLIMATE) (%)	126	137	129	132
HEATING TIME IN HEAT PUMP (h/min)*	4,3	5,23	5,29	5,43
INTEGRATED HEATING ELEMENTS (kW)	1,0 + 1,5			
INTEGRATED COILS	-	-	1	2
SOUND POWER (dB)	55			
OPERATING MODES	Green, Boost, Boost 2, Auto, Withdrawal time setting, Voyage, Antilegionella			
SILENCE FUNCTION	Yes			
PHOTOVOLTAIC FUNCTION	Yes			
EDF FUNCTION	Yes			
CODE	3079052		3079053	3079054 3079055
PAGE	28			

* (air temperature 7°C, water temperature from 10°C to set point) for further details see the product pages



NUOS PRIMO		NUOS PRIMO HC		
80	100	200	240	240 SYS
A	A	A	A	A
M	M	L	XL	XL
Monoblock		Monoblock		
Wall-hung		Floor standing		
10/40		-5/42		
55/75		55/75		
2,32 (Air T 20°C)	2,17 (Air T 20°C)	2,85 (Air T 20°C)	3,15 (Air T 20°C)	3,06 (Air T 20°C)
96 (indoor air)	91 (indoor air)	112	118	114
5,2	6,36	6,19	7,59	7,57
1,2		2,0		
-		-	-	1
54		53		
Green, Boost, Auto, Withdrawal time setting, Antilegionella		Green, Boost, Auto, Withdrawal time setting, Antilegionella		
-		-		
-		-		
-		Yes		
3623238	3623239	3069653	3069654	3069655
30	30	32	32	

NUOS PLUS



- / Operating range in heat pump mode with air temperatures from -7 to 42°C
- / Environmentally friendly gas R134A makes it possible to achieve water temperatures up to 62°C in heat pump mode
- / Condenser is wrapped around the boiler (not immersed in water)
- / Titanium enamelled steel boiler
- / Dual power steatite electrical heating elements
- / Active anode (protech) + magnesium anode
- / LCD Display
- / Modes: green, auto, boost, boost 2, voyage and antilegionella modes withdrawal time setting
- / One or two coils and sensor slots to integrate solar, boiler or biomass (NUOS PLUS 250 SYS and TWIN SYS)
- / Domestic hot water recirculation (NUOS PLUS 250 SYS and TWIN SYS)
- / Integrated photovoltaic function
- / Possibility of external load activation
- / Optimised combined or heating only boiler operation
- / Product intended for indoor installation

ENERGY CLASS



TECHNICAL DATA

	200	250	250 SYS	250 TWIN SYS
COP*	3,28	3,64	3,54	3,54
COP**	3,05	3,35	3,14	3,21
Heating time**	h:min 04:30	05:23	05:29	05:43
Min/max air temperature	°C -7/42	-7/42	-7/42	-7/42
Max. water temperature heat pump only mode/with R	°C 62/75	62/75	62/75	62/75
Sound power****	dB(A) 55	55	55	55
Sound power (silent mode)	dB(A) 52	52	52	52
Max electrical power consumption in heat pump mode	W 700	700	700	700
Nominal storage tank capacity	l 200	250	245	240
Max operating pressure	bar 6	6	6	6
Voltage/Max power consumption	V/W 220-240/2500	220-240/2500	220-240/2500	220-240/2500
Heating element power	W 1500+1000	1500+1000	1500+1000	1500+1000
Standard air flow rate	m³/h 700	700	700	700
Min volume of the installation room ***	m³ 30	30	30	30
Empty weight	kg 90	95	115	130
Electrical system protection grade	IP24	IP24	IP24	IP24
Insulation thickness	mm 50	50	50	50
Water connections diameter	" 3/4 M	3/4 M	3/4 M	3/4 M
Min Temperature of storage tank room	°C 1	1	1	1
Heat Exchanger Surface Area	m² -	-	0,65	0,65+0,65
Heat dispersion (Pes)**	W 23	22	24	26
Available static pressure	Pa 110	110	110	110
Annual energy consumption (average climate)**	kWh/year 812	1223	1303	1274
Seasonal efficiency**	% 126	137	129	132
V40 (Qty of mixed DWH at 40°C)**	l 273	346	345	345
F-GAS DATA				
Refrigerant type	R-134a	R-134a	R-134a	R-134a
Refrigerant charge	g 1300	1300	1300	1300
GWP	1430	1430	1430	1430
CO2 equivalents	t 1,86	1,86	1,86	1,86

NUOS PLUS	200	250	250 SYS	250 TWIN SYS
Energy class	A+	A+	A+	A+
Tapping profile	L	XL	XL	XL
CODE	3079052	3079053	3079054	3079055

The capacity indicated in this catalogue identifies the product category. The effective capacity of the product is given in the relevant technical documentation provided with the product.



* Values obtained with an outdoor air temperature of 14°C and 87% relative humidity, 10°C inlet water temperature and temperature set to 55°C (EN 16147). Ducted product Ø150 rigid.

** Values obtained with 14°C outdoor air temperature and 87% relative humidity, 10°C inlet water temperature and 53°C set temperature (EN 16147). Ducted product Ø150 rigid.

*** Values obtained with 7°C outdoor air temperature and 87% relative humidity, 10°C inlet water temperature and 53°C set temperature (EN 16147 / 812/2013 – 814/2013). Ducted product Ø150 rigid.

**** Refers to non-ducted product

***** Values obtained from the average of three tests carried out with an outdoor air temperature of 7°C and 87% relative humidity, 10°C inlet water temperature and temperature set in accordance with the provisions of 2014/C 207/03 - transitional methods of measurement and calculation and EN 12102. Ducted product Ø200 rigid.

NUOS PRIMO



- / Operating range in heat pump mode with air temperatures from 10 a 40°C
- / Produced at room temperature
- / Environmentally friendly gas R134A makes it possible to achieve water temperatures up to 55°C in heat pump mode
- / Condenser is wrapped around the boiler (not immersed in water)
- / Titanium enamelled steel boiler
- / Integrated electrical heating elements
- / Anti-corrosion magnesium anode
- / LED Display
- / Modes: green, boost, auto, and antilegionella modes withdrawal time setting
- / Product intended for indoor installation

ENERGY CLASS



TECHNICAL DATA

80

100

COP*		2,32	2,17
Heating time*	h:min	5:20	6:36
Min/max air temperature	°C	10/40	10/40
Max. water temperature heat pump only mode/with R	°C	55/75	55/75
Sound power***	dB(A)	54	54
Average electrical power consumption in heat pump mode	W	250	250
Max Qty of domestic hot water at 40°C *	l	91	117
Nominal storage tank capacity	l	80	100
Max operating pressure	bar	8	8
Voltage/Max. power consumption	V/W	220-240/1550	220-240/1550
Heating element power	W	1200	1200
Standard air flow rate	m3/h	170	170
Min volume of the installation room **	m3	20	20
Empty weight	kg	45	49
Electrical system protection grade		IP24	IP24
Insulation thickness	mm	31	31
Water connections diameter	"	1/2M	1/2M
Min Temperature of storage tank room	°C	1	1
Heat dispersion (standby losses)*	W	17	20
Available static pressure	Pa	65	65
Annual energy consumption (average climate)*	kWh/year	533	567
Seasonal efficiency*	%	96	91
V40 (Qty of mixed DWH at 40°C)*	l	91	117

F-GAS DATA

Refrigerant type		R-134a	R-134a
Refrigerant charge	g	380	380
GWP		1430	1430
CO2 equivalents	t	0,54	0,54

NUOS PRIMO

80

100

Energy class	A	A
Tapping profile	M	M
CODE	3623238	3623239

The capacity indicated in this catalogue identifies the product category. The effective capacity of the product is given in the relevant technical documentation provided with the product.



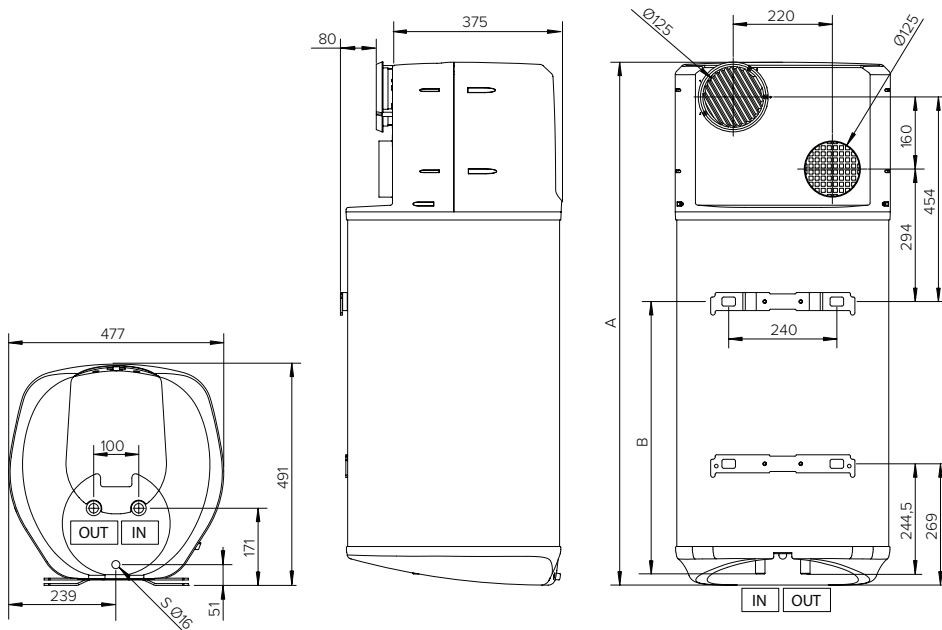
* Values obtained with 20°C outdoor air temperature and 37% relative humidity, 10°C inlet water temperature and 55°C set temperature (EN 16147 / 812/2013 – 814/2013). Non-ducted product.

** Refers to non-ducted product

*** Values obtained from the average of three tests carried out with an air temperature of 20°C and 37% relative humidity, 10°C inlet water temperature and temperature set in accordance with the provisions of 2014/C 207/03 - transitional methods of measurement and calculation and EN 12102. Non-ducted product.



Dimensions	80	100
A mm	1160	1304
B mm	604,5	748,5



IN Cold water inlet G 1/2"
OUT Hot water outlet G 1/2"
S Condensate drain

NUOS PRIMO HC



- / Operating range in heat pump mode with air temperature from -5 to 42 °C
- / Environmentally friendly gas R134A makes it possible to achieve water temperatures up to 62 °C in heat pump mode
- / Condenser is wrapped around the boiler (not immersed in water)
- / Titanium enamelled steel boiler
- / Immersed electric heating element
- / Active anode (protech) + magnesium anode
- / LCD Display
- / Modes: green, auto, boost and antilegionella modes, withdrawal time setting
- / Coil and sensor slot for solar energy integration or boiler (NUOS PRIMO 240 SYS)
- / Integrated transportation straps
- / Product intended for indoor installation

ENERGY CLASS



TECHNICAL DATA

	200	240	240 SYS	
COP*	2,85	3,15	3,06	
COP**	2,71	2,86	2,77	
Heating time**	h:min	6,19	7,59	7,57
Min/max air temperature	°C	-5/42	-5/42	-5/42
Max. water temperature heat pump only mode/with R	°C	55/75	55/75	55/75
Sound power****	dB(A)	53	53	53
Average electrical power consumption in heat pump mode	W	500	500	500
Nominal storage tank capacity	l	202	244	239
Max operating pressure	bar	6	6	6
Voltage/Max power consumption	V/W	220-230/2750	220-230/2750	220-230/2750
Heating element power	W	2000	2000	2000
Standard air flow rate	m ³ /h	400	400	400
Min volume of the installation room ***	m ³	20	20	20
Empty weight	kg	87	92	107
Electrical system protection grade		IP24	IP24	IP24
Insulation thickness	mm	35	35	35
Water connections diameter	"	3/4 M	3/4 M	3/4 M
Min Temperature of storage tank room	°C	1	1	1
Heat Exchanger Surface Area	m ²	-	-	0,65
Heat dispersion (standby losses)**	W	28	34	35
Available static pressure	Pa	55	55	55
Annual energy consumption (average climate)** kWh/year		912	1425	1470
Seasonal efficiency**	%	112,3	117,6	114,0
V40 (Qty of mixed DWH at 40°C)**	l	247	323	313
F-GAS DATA				
Refrigerant type		R-134a	R-134a	R-134a
Refrigerant charge	g	900	900	900
GWP		1430	1430	1430
CO2 equivalents	t	1,29	1,29	1,29

NUOS PRIMO HC

	200	240	240 SYS
 Energy class	A	A	A
 Tapping profile	L	XL	XL
CODE	3069653	3069654	3069655

The capacity indicated in this catalogue identifies the product category. The effective capacity of the product is given in the relevant technical documentation provided with the product.



* Values obtained with 20°C outdoor air temperature and 37% relative humidity, 10°C inlet water temperature and 55°C set temperature (EN 16147 / 812/2013 – 814/2013). Non-ducted product.

** Refers to non-ducted product

*** Values obtained from the average of three tests carried out with an outdoor air temperature of 7°C and 87% relative humidity, 10°C inlet water temperature and temperature set in accordance with the provisions of 2014/C 207/03 - transitional methods of measurement and calculation and EN 12102.