AIR SOURCE ENERGY

NanoClima

100% INDOOR AIR SOURCE HEAT PUMP



A++ iConnect LOW GWP R290 Eco-Friendly refrigerant

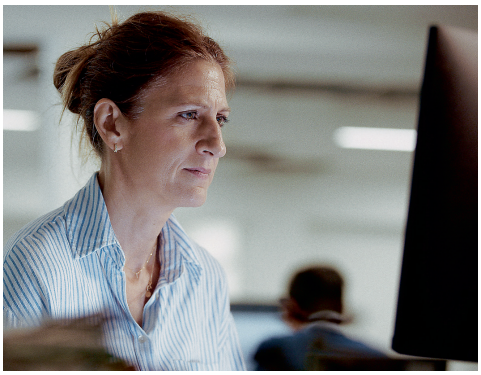
www.domusateknik.com

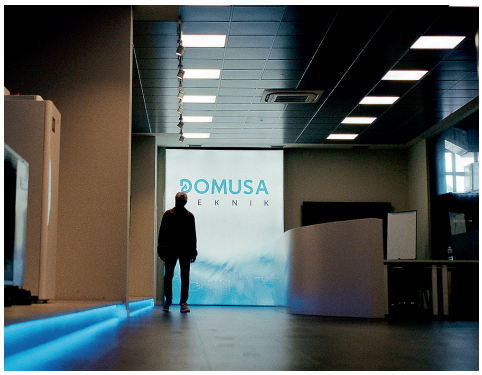
1976-2026 DOMUSA TEKNIK

50 years with you, manufacturing comfort

This is a special year for us: we are celebrating our 50th anniversary. Half a century of innovating, learning, and growing by your side. Since our foundation in 1976, we have evolved with you and thanks to you, moving from our very first boilers to leading the way in renewable solutions. This track record is our guarantee, but above all, it drives us to keep building a more efficient and sustainable future, together.







We are manufacturers, **our commitment is to quality**

All our efforts are focused on offering you the most advanced technology, with a practical sense and at the most reasonable price. We achieve this because we are manufacturers: we control the entire process, from design to production, using the highest quality materials that guarantee durability and efficiency.
This is the foundation of our comprehensive warranty, one of the most solid on the market.

2020 GOLD RECOGNITION IN ADVANCED MANAGEMENT

ISO 9001
Quality Management System of the organization

ISO 14001
Environmental Management Systems

45001
Environmental Management Systems

The best of both worlds

The agility and flexibility of a close-by company, backed by a leading cooperative group (80,000 employees and more than 100 companies). Local innovation, global solutions.

MONDRAGON | HUMANITY AT WORK | Finance Industry Retail Knowledge

100% Indoor Air Source Heat Pump

Preserves the facade's integrity

The NANOCLIMA range from DOMUSA TEKNIK represents the evolution of air source energy, offering a solution that eliminates the need for an outdoor unit.

R290 natural refrigerant

This high-temperature monobloc system uses R290 natural refrigerant, guaranteeing maximum efficiency with minimal environmental impact.

Compact design

The compact design of the NANOCLIMA allows you to enjoy energy savings of up to 70% without sacrificing space.

Urban apartments

The ideal solution for small homes or those without a terrace. With no visual impact on the facade, it allows the transition to air source energy without expensive building work.



Meets the entire thermal demand with a single unit

NANOCLIMA 4



Heating and cooling

4 kW output optimized for apartments or homes with modern insulation.

Versatility

Possibility of hybridization with an existing gas or oil boiler.

NANOCLIMA 4 HDX 135



Domestic Hot Water

Available models with integrated stainless steel tank.

Heating and cooling

4 kW output optimized for apartments or homes with modern insulation.

EQUIPMENT	NANOCLIMA 4	NANOCLIMA 4 HDX 135
NANOCLIMA wall support	•	
Degasser	•	•
R290 gas sensor	•	•
Expansion vessel for heating	•	•
DHW expansion vessel		•
High-efficiency heating pump		•
135 L cylinder		•
Compact magnetic dirt separator filter		•
Two-stage immersion heater up to 3 kW		•
8L buffer tank		•
High-efficiency primary pump	•	•

“ALL-IN-ONE” COMPREHENSIVE SOLUTION



Maximum flow temperature

It reaches a 75 ºC flow temperature without electrical backup heaters, allowing you to maintain existing radiators.



iConnect connectivity

It allows for monitoring consumption history, programming operating schedules, and offering proactive support to the Technical Assistance Service.



R290 natural refrigerant

This high-temperature monobloc system uses R290 natural refrigerant, guaranteeing maximum efficiency with minimal environmental impact. By integrating the entire refrigerant circuit into a single unit located inside the home, installation is drastically simplified, eliminating the need for refrigerant handling or complex outdoor pipework.



With every installation facility

100% safe installation. As an indoor monobloc system, it does not require any refrigerant handling during installation. Only water flows to the home’s distribution circuit, minimizing leakage risks and allowing any certified heating professional to perform the installation.

Hybridization. The range of indoor modules offered by Domusa Teknik allows the Nanoclima to be hybridized with an existing gas or oil boiler.



Compact design

The compact design of the NANOCLIMA allows you to enjoy energy savings of up to 70% without sacrificing space. In addition, DOMUSA TEKNIK offers versions with a stainless steel hot water tank, ensuring exceptional durability and complete comfort in heating, cooling, and DHW, all intelligently managed through iConnect connectivity.



100% Indoor

The NANOCLIMA redefines the heat pump concept, as it is fully integrated inside the home.

It completely eliminates any outdoor visual impact and protects the facades.

Maximum installation versatility

The NANOCLIMA 100% indoor air source heat pump range redefines air source installation, eliminating the restrictions of conventional outdoor units.

Thanks to a ventilation ductwork system, the unit connects to the outside flexibly, allowing for routing through both the facade and the roof.



NANOCLIMA with hybridization kit and backup boiler.

NANOCLIMA HDX. "All-in-one" solution for heating/cooling and domestic hot water production.

NANOCLIMA. Installation for heating/cooling service.

Dimensions and clearances to consider for installation

SIDE VIEW.
Minimum top and front clearance for NanoClima and NanoClima HDX models.

FRONT VIEW.
Minimum side clearance for NanoClima and NanoClima HDX models.



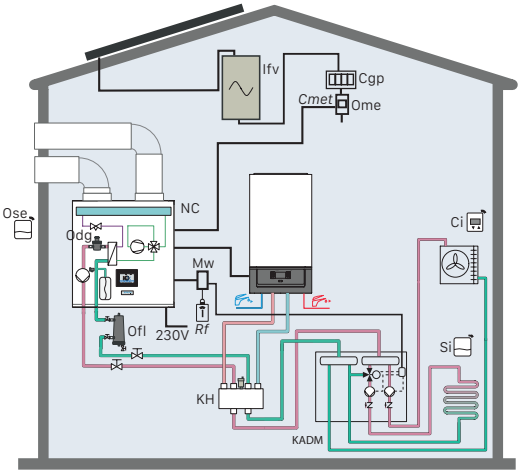
DUCTWORK INSTALLATION OPTIONS.
Examples applicable to both the NANOCLIMA and the NANOCLIMA HDX.



Range of ductwork allowing the installation to be adapted to the specific requirements of each space:

- 1 m insulated duct Ø250
- 90º insulated elbow Ø250
- Duct connector Ø250
- Wall terminal Ø250"

Installation examples



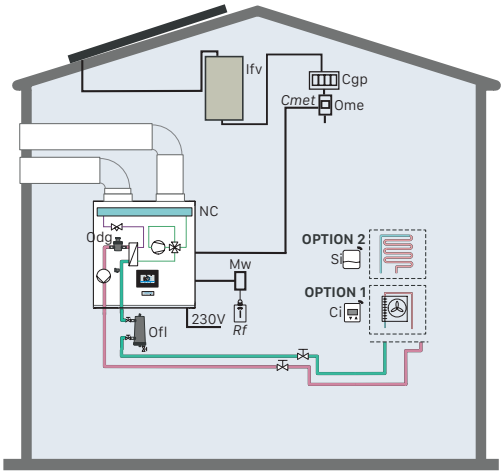
Hybridization with NANOCLIMA 4

Domestic hot water production is managed through the backup boiler, combining the performance of the air source heat pump with the boiler's immediate response capability.

Photovoltaic integration.

Heating

Cooling

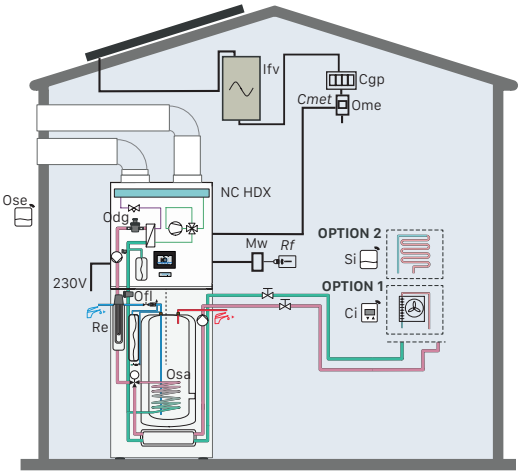


Climate control with NANOCLIMA 4

The perfect configuration for single-family homes. It eliminates complexity in the mechanical room and capitalizes on solar radiation hours.

Heating

Cooling



"All-in-one" solution NANOCLIMA 4 HDX 135

Covers heating, cooling, and DHW production needs from a single indoor unit.

Heating

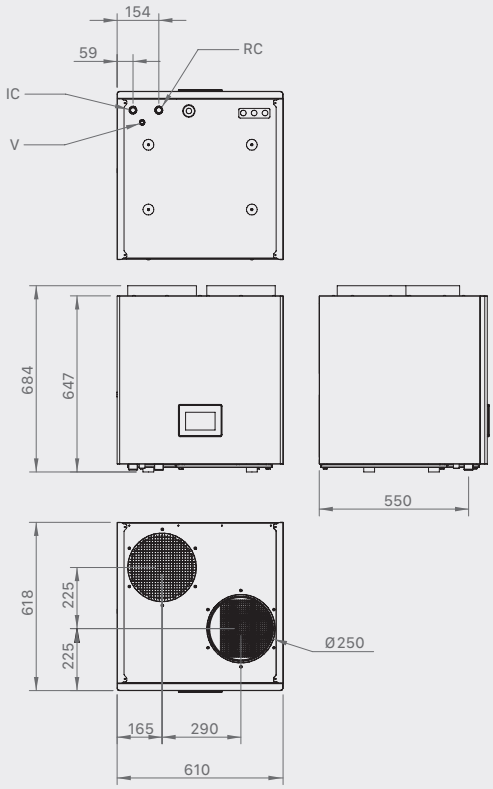
Cooling

Domestic Hot Water

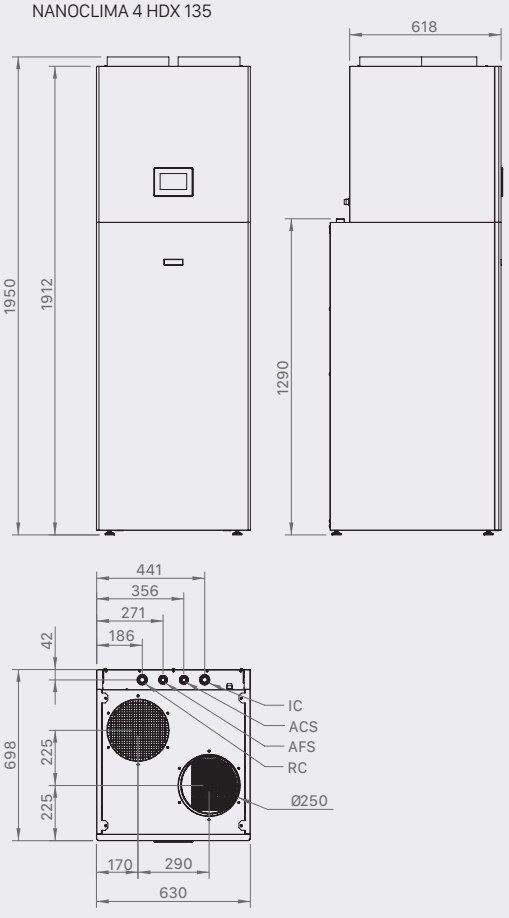
NC	NANOCLIMA
NC HDX	NANOCLIMA HDX
KADM	Air DM Kit
KH	Hybridization Kit
Ifv	Inverter
Cmet	Energy meter connection cable (0.6 x 2)
Cgp	Main protection box
Ome	Energy meter
Ose	Outdoor sensor
Mw	WiFi card
Rf	Receiver
Ofl	Magnetic dirt separator
Ci	Wireless control
Si	Wireless sensor
Odg	Deaerator
Osa	DHW sensor
Re	Electrical heater

Dimensions

NANOCLIMA 4



NANOCLIMA 4 HDX 135



IC	Heating/Cooling supply
RC	Heating/Cooling return
V	Drainage
ACS	Domestic Hot Water
AFS	Domestic Cold Water

NanoClima

A++ iConnect LOW GWP R290 Eco-Friendly refrigerant

SPECIFICATIONS

TECHNICAL SPECIFICATIONS			NANOCLIMA 4	NANOCLIMA 4 HDX 135
Maximum current		A	7	20
Seasonal energy efficiency	SCOP 35 ºC		4.0	4.0
	ηs 35		157	157
	SCOP 55 ºC		3.2	3.2
	ηs 55		127	127
Nominal heating capacity (7/35)		kW	4.00	4.00
Nominal cooling capacity (35/18)		kW	2.25	2.25
Nominal heating power input (7/35)		kW	0.927	0.927
Nominal cooling power input (35/18)		kW	1.066	1.066
COP (7/35)			4.32	4.32
Electrical protection		-	IPX4	IPX4
Pump type		-	Air/Water, Inverter, Monoblock	Air/Water, Inverter, Monoblock
Application		-	Heating, Cooling and DHW	Heating, Cooling and DHW
Refrigerant			R290	R290
Refrigerant charge		kg	0.40	0.40
Power supply			230 V ~ 50 Hz	230 V ~ 50 Hz
Sound pressure level (1 m)		db(A)	36	36
Maximum flow temperature		ºC	75	75
Operating temperature range - Heating		ºC	-25/45	-25/45
Operating temperature range - Cooling		ºC	10/45	10/45
Nominal flow rate		m^3/h	0.69	0.69
DHW cylinder volume		L		135
DHW production L/10 min (añadir también el delta t 30)		L		280
Continuous DHW production (añadir también el delta t 30)		L/h		345
Vmax (V40)*		L		146
DHW COP*				2.68
Heating-up time/temperature*		h/min		1:44
Reference hot water temperature*		ºC		50
Standby power input (Pes)*		W		38.7

* Data according to EN 16147 standard

OPTIONAL ACCESSORIES	NANOCLIMA 4	NANOCLIMA 4 HDX 135
CONFORT DUO wireless heating/cooling room thermostat	●	●
Three-way valve	●	●
iConnect module	●	●
Filter with shut-off valves	●	●
1" water inlet filter	●	
Anti-freeze fluid (5 L)	●	●
Anti-freeze discharge valve kit	●	●
Backup pump kit	●	●
Backup pump insulation	●	●
Magnetic dirt separator filter	●	●
HP hydraulic kit	●	
Hybridization kit	●	
1.5 kW heating element kit	●	
2.5 kW heating element kit	●	
3.5 kW heating element kit	●	
Energy meter	●	●
Ø250 ductwork accessories	●	●
Hydraulic accessories - Air Kits		●
Hydraulic accessories - Air B Kits	●	

HEADQUARTERS & FACTORY
Bº San Esteban, s/n. 20737 ERREZIL (Gipuzkoa) Spain
Tel.: +34 943 813 899
domusateknik@domusateknik.com
www.domusateknik.com

HUMANITY AT WORK MONDRAGON

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