



Dora HT

Water heater with heat pump for floor standing installation with positive air temperatures

- Air heat pump and integrated storage tank for the production of domestic hot water with inlet air temperature range not lower than 4°C
- Possibility of ducting exhaust air
- Floor-standing installation
- Available operating modes: Eco, Auto, Boost, Electric, Fan
- Wi-Fi board installed as standard and smartphone control via the “Dora Smart” App
- 1500 W electrical heater fitted in
- Simple and intuitive touch control panel on board the machine
- Enamelled steel water storage tank with 50 mm polyurethane insulation
- Main aluminium heat exchanger outside of the tank
- Anti-corrosion protection with magnesium anode
- Programmable anti legionella cycle
- Set-up (digital input) for activation with availability of photovoltaic energy
- Set-up (digital input) for activation with preferential electricity tariffs
- Ecological gas R134a

Code	Model
2COBA02L	DORA 200 HT
2COBA03L	DORA 260 HT

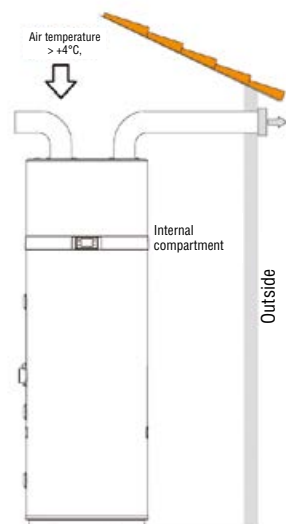
Control panel

The simple and intuitive programmable control system on the machine allows you to select between different Operating Modes: Eco: only the heat pump (Max setpoint 62°C) / Auto: heat pump with electrical heater as possible support (Max setpoint 62°C) / Boost: heat pump and electrical heater in simultaneous mode (Max setpoint 75°C) / Electric: only electrical heater (Max setpoint 75°C) / Fan: only active ventilation.

The electronics of Dora are able to optimise the integration of energy from other sources, thereby exploiting the possible availability of photovoltaic electricity. The electronics of Dora are able to optimise the integration of energy coming from other sources: it starts and exploits any over-production of photovoltaic electrical energy and raises the temperature of the water in the storage tank to the value set by the user (max 75°C).

Applications

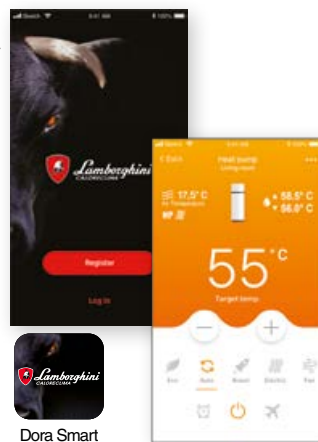
The air can be ducted to direct the flow appropriately for the various situations.



Use of energy that already exists in the environment
(POWER PLANT OR LAUNDRY ROOM)

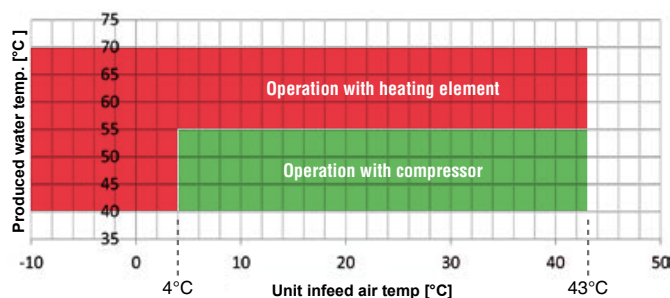
Connectivity

Thanks to the “Dora Smart” App, which can be downloaded to the smartphone, Dora can be fully managed by modifying its parameters and operating modes.



Limits of use

TEMPERATURE RANGE. The graph below indicates the temperature range of the produced air and water, which guarantees correct operation.



POWER SUPPLY VOLTAGE RANGE. The table below provides the admissible variation conditions for the electrical power supply

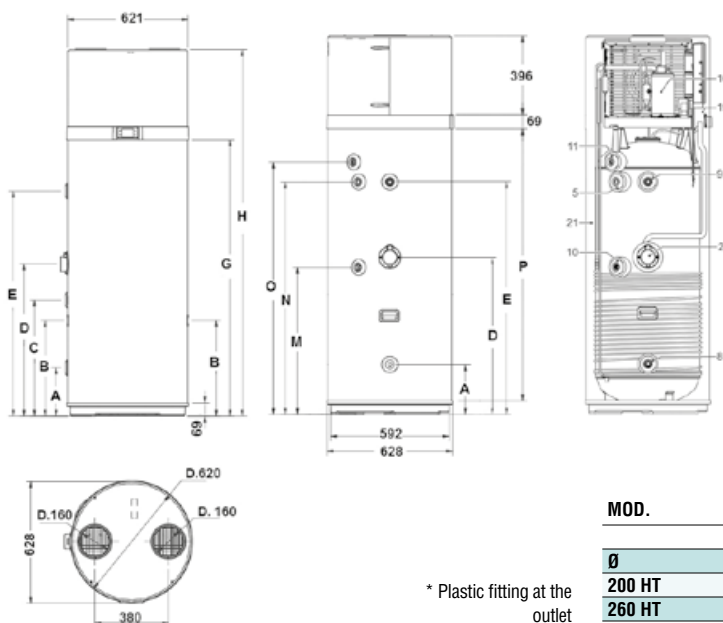
Standard power supply	V-ph-Hz	230-1-50
Admissible voltage range	V	207 - 254

DORA		200 HT	260 HT
Water heating energy efficiency class in average weather conditions		A⁺	A⁺
Water heating energy efficiency as a % in average weather conditions	%	116	127
Rated storage capacity	l	192	250
Maximum capacity of hot water at 40°C	l	260	358
Storage loss	W	60	70
Power of integrated heating element	Wel	1500	
Electric power absorbed on average	Wel	370	
Heat output efficiency to pump	Wth	1600	
Dimensions (Ø x H)	mm	621 x 1607	621 x 1892
Empty weight	kg	80	95
Maximum water pressure	bar	7	
Maximum air temperature	°C	43	
Minimum air temperature	°C	4	
Rated airflow	m³/h	350	
Required room cubic volume	m³	>20	
Electric power supply parameters	V-Hz	230V - 50Hz	
Protection rating		IP24	
Internal sound power Lw(A)	dB(A)	52	
Legionella control system		Automatic	
Anti-corrosion system		no. 2 Mg Anodes	
Operating mode		Auto, Eco, Boost, Electric, Fan	
Photovoltaic connection		Yes	
Solar Thermal connection		-	
App/Wi-Fi		Yes	
Type of gas		R134a	
Loading capacity	g	1000	
Heating time at 20°C* in ECO mod.	hh:mm	07:16	09:44
Heating time at 14°C** in ECO mod.	hh:mm	09:01	11:38
Heating time in mod. BOOST*	hh:mm	03:48	04:57
COP DHW 20°C*		2,8	3,1
COP DHW 14°C*		2,5	2,6
Average energy consumption in average weather conditions	kW/h	883	1315
Declared load profile		L	XL

* Test in accordance with regulation EN16147-2017 with air inlet temperature of 20°C (15°C), boiler storage room temperature of 20°C, water heating from 10°C to 55°C.

** Test in accordance with regulation EN16147-2017 with air inlet temperature of 14°C (13°C), boiler storage room temperature of 20°C, water heating from 10°C to 55°C.

Dimensions and hydraulic connections (in mm)



* Plastic fitting at the outlet

mod. HT

8 Cold water inlet fitting
9 Hot water outlet fitting
10 Set-up for recirculation
11 Condensate discharge
23 Pipe for safety thermostat bulb
26 Compartment for accessing the electrical heater and safety thermostat bulb

MOD.	A	B	D	E	G	H	M	N	O*	P
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
Ø	1" G	-	-	1" G	-	-	3/4" G	3/4" G	1/2" G	-
200 HT	250	-	705	876,5	1142	1607	705	877	976	1073
260 HT	250	-	785	1162	1427	1892	735	1162	1261	1358



Dora LT

Water heater with heat pump for hung and floor standing installation with negative air temperatures

- Air heat pump and integrated storage tank for the production of domestic hot water
- Active defrosting system to function correctly down to an air temperature of -7°C
- Ecological gas R290 for mod. 90-120 and R134a for mod. 200-260
- Possibility of ducting exhaust air
- Hung (mod. 90-120) and floor-standing installation (mod. 200-260)
- Electrical heater fitted in (1500 W base - 1200 W wall hung)
- Available operating modes: Eco, Auto, Boost, Electric, Fan
- Wi-Fi board installed as standard and smartphone control via the "Dora Smart" App
- Simple and intuitive touch control panel on board the machine
- Enamelled steel water storage tank with 50 mm polyurethane insulation
- Main aluminium heat exchanger outside of the tank
- Set-up with solar coil ("LT-S" version).
- Double anti-corrosion magnesium anode (mod. 200-260)
- Programmable anti legionella cycle
- Set-up (digital input) for activation with availability of photovoltaic energy
- Set-up (digital input) for activation with preferential electricity tariffs
- Set-up (digital input) for combination with solar thermal systems ("LT-S" models).
- Integrated management of solar thermal system with forced circulation ("LT-S" models)

Code	Model
2COBA00L	DORA 90 LT
2COBA01L	DORA 120 LT
2COBA04L	DORA 200 LT
2COBA05L	DORA 260 LT
2COBA06L	DORA 200 LT-S
2COBA07L	DORA 260 LT-S

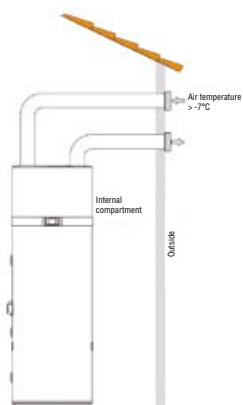
Code	Accessories (only mod. LT-S)
043007X0	solar manifold probe

Control panel

The simple and intuitive programmable control system on the machine allows you to select between different Operating Modes: Eco: only the heat pump (Max setpoint 62°C) / Auto: heat pump with electrical heater as possible support (Max setpoint 62°C) / Boost: heat pump and electrical heater in simultaneous mode (Max setpoint 75°C) / Electric: only electrical heater (Max setpoint 75°C) / Fan: only active ventilation.

The electronics of Dora are able to optimise the integration of energy from other sources, thereby exploiting the possible availability of photovoltaic electricity. The electronics of Dora are able to optimise the integration of energy coming from other sources: it starts and exploits any over-production of photovoltaic electrical energy and raises the temperature of the water in the storage tank to the value set by the user (max 75°C).

Applications



Use of energy that already exists outside
The inlet or outlet air can be ducted to direct the flow appropriately for the various situations.

POWER SUPPLY VOLTAGE RANGE The table below provides the admissible variation conditions for the electrical power supply

Standard power supply	V-ph-Hz	230-1-50
Admissible voltage range	V	207 - 254

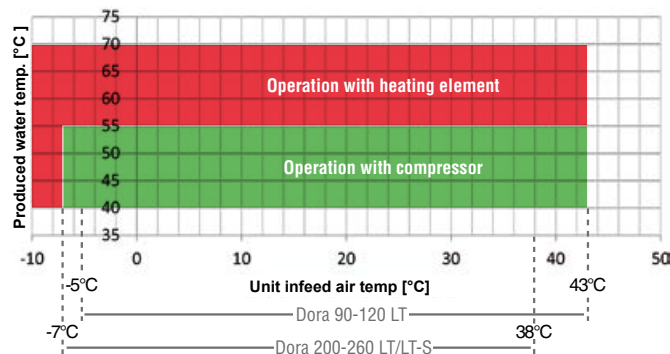
Connectivity

Thanks to the "Dora Smart" App, which can be downloaded to the smartphone, Dora can be fully managed by modifying its parameters and operating modes.



Limits of use

Temperature range. The graph below indicates the temperature range of the produced air and water, which guarantees correct operation.

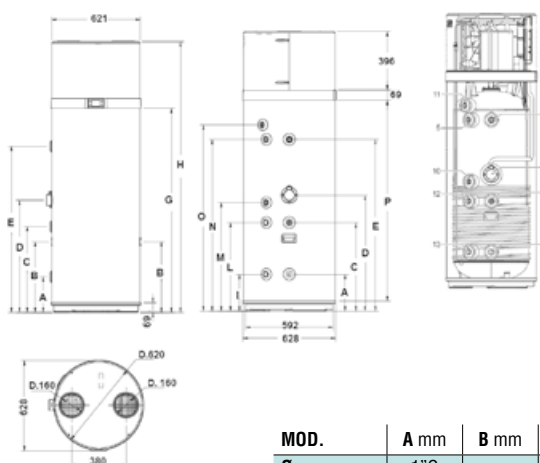


DORA		90 LT	120 LT	200 LT	260 LT	200 LT-S	260 LT-S
Water heating energy efficiency class in average weather conditions		A+	A+	A+	A+	A+	A+
Water heating energy efficiency as a % in average weather conditions	%	107	112	135	139	135	139
Rated storage capacity	l	89	118	192	250	187	247
Maximum capacity of hot water at 40°C	l	98	128	273	338	270	333
Storage loss	W	40	46	63	71	63	71
Power of integrated heating element	Wel	1200		1500		1500	
Electric power absorbed on average	Wel	270	270	430		430	
Heat output efficiency to pump	Wth	833		1820		1820	
Dimensions (Ø x H)	mm	510 x 1380	510 x 1530	621 x 1607	621 x 1892	621 x 1607	621 x 1892
Empty weight	kg	60	70	77	97	80	100
Maximum water pressure	bar	7		7		7	
Maximum air temperature	°C	43 / -5		43 / -7		43 / -7	
Minimum air temperature	m³/h	190		350/500		350/500	
Rated airflow	m³	15		>20		>20	
Required room cubic volume	V-Hz	230V - 50Hz		230V - 50Hz		230V - 50Hz	
Electric power supply parameters		IP24					
Protection rating	dB(A)	52		50		50	
Internal sound power Lw(A)		Automatic					
Legionella control system		no. 1 Mg Anodo		no. 2 Mg Anodes			
Anti-corrosion system		Auto, Eco, Boost, Electric, Fan					
Operating mode		Yes		Yes		Yes	
Photovoltaic connection		-		No		Yes	
Solar Thermal connection		Yes		Yes		Yes	
App/Wi-Fi		R290		R134a			
Type of gas	g	150		1000		1000	
Loading capacity	hh:mm	05:52*	08:15**	08:17	10:14	08:17	10:14
Heating time at 20°C* in ECO mod.	hh:mm	04:02**	06:26**	06:01	07:39	06:01	07:39
Heating time at 14°C** in ECO mod.	hh:mm	02:30*	04:30*	03:58	05:06	03:58	05:06
Heating time in mod. BOOST*		2,6*	2,7**	3,23	3,38	3,23	3,38
COP DHW 20°C*		2,7**	2,8**	3,49	3,59	3,49	3,59
COP DHW 14°C*		-	-	-	-	0,72	0,72
Average energy consumption in average weather conditions	kW/h	479	458	758	1203	758	1203
Declared load profile		M	M	L	XL	L	XL

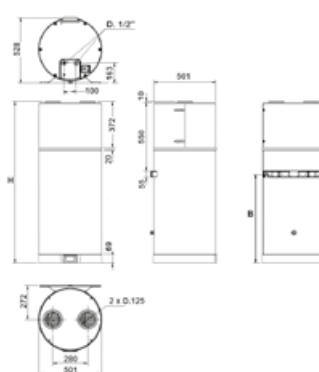
* Test in accordance with regulation EN16147-2017 with air inlet temperature of 20°C (15°C), boiler storage room temperature of 20°C, water heating from 10°C to 55°C.

** Test in accordance with regulation EN16147-2017 with air inlet temperature of 14°C (13°C), boiler storage room temperature of 20°C, water heating from 10°C to 55°C.

Dimensions and hydraulic connections (in mm)



mod. 200 / 260
mod. 90 / 120



mod. LT

8 Cold water inlet fitting
9 Hot water outlet fitting
10 Set-up for recirculation
11 Condensate discharge
12 Set-up for inlet thermal coil (only mod. LT-S)
13 Set-up for outlet thermal coil (only mod. LT-S)
20 Probe thermowell for solar (only mod. LT-S)
23 Pipe for safety thermostat bulb
26 Compartment for accessing the electrical heater and safety thermostat bulb

MOD.	A mm	B mm	C mm	D mm	E mm	G mm	H mm	I mm	L mm	M mm	N mm	O* mm	P mm
Ø	1"G	-	1/2"G	-	1"G	-	-	3/4"G	3/4"G	3/4"G	3/4"G	1/2"G	-
90 LT	-	711	-	-	-	-	1303	-	-	-	-	-	-
120 LT	-	963	-	-	-	-	1555	-	-	-	-	-	-
200 LT-S	250	490	600	705	876,5	1142	1607	250	599	705	877	976	1073
260 LT-S	250	493	600	785	1162	1427	1892	250	600	735	1162	1261	1358
200 LT	250	-	600	705	876,5	1142	1607	-	-	705	877	976	1073
260 LT	250	-	600	785	1162	1427	1892	-	-	735	1162	1261	1358

* Plastic fitting at the outlet