

AquaThermica

Air-to-water heat pump water heater for domestic hot water

The AguaThermica range includes models with volumes of 200 and 260 liters with and without a heat exchanger.

- () It is an environmentally friendly product, operating with renewable energy sources resulting in lower CO₂ emissions¹.
- The highest energy efficiency class A+ in its category, according to ErP regulations.
- Operates within a wide temperature range of the incoming air starting from -10°C to 43°C.
- Heats up water to 65°C with the heat pump only.
- Electric heating element for faster heating up and reaching of higher temperature of 75°C.
- (Highly efficient with a precisely balanced refrigerant cycle due to an electronically commutated motor and an electronic expansion
- ☼ Up to 75% lower electricity consumption³.
- Can be connected to other renewable energy sources like PV and solar systems or boilers.
- Programmable with an user friendly control panel.
- Automatic anti-legionella cycle.
- Self-diagnostic system.

¹According to the European Market and Statistical Report on the European Heat Pump Association 2018.

² AquaThermica is in energy efficiency class A+. ³ Compared to a TESY product of the MaxEau family GCV 200 56 20 D06 SRC in energy class C.







Energy efficiency class A+



Low CO₂ emissions



Electronic step motor for precisely balanced refrigerant cycle



Operational temperature range -10 to +43°C



65°C DHW with the heat pump only



Up to 75% reduced electricity consumption



Connectivity to Solar and PV panels



User-friendly LED Display

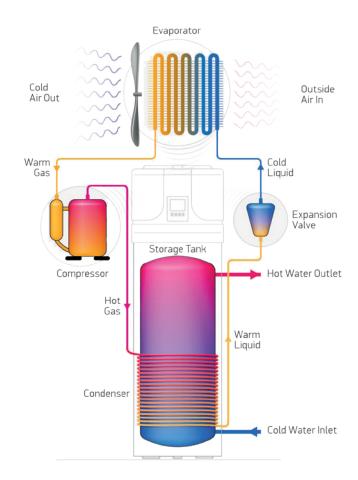
WORKING PRINCIPLE



Programmable user-friendly LED display

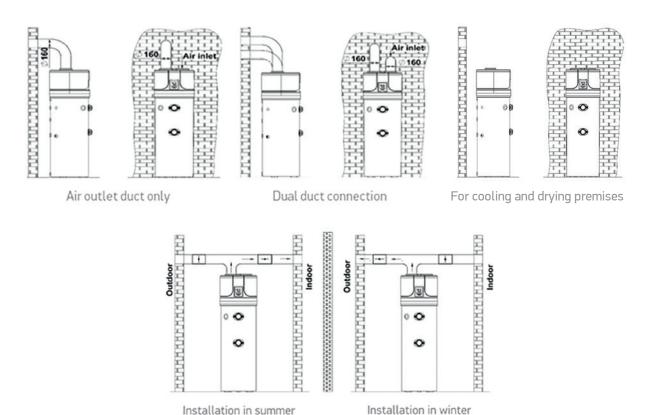






AIR-DUCT SYSTEM INSTALLATION

Applications for cooling and drying premises



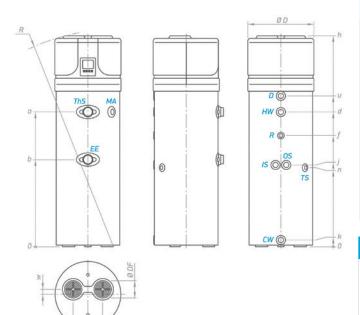
DRAWINGS AND TECHNICAL DATA

Model			AquaThermica 200 + heat exchanger	AquaThermica 200	AquaThermica 260 + heat exchanger	AquaThermica 260	
			HPWH 2.1 200 U 02 S	HPWH 2.1 200 U 02	HPWH 2.1 260 U 02 S	HPWH 2.1 260 U 02	
Art. Number		No	305277	305276	305278	305275	
Performance							
Declared load profile			L	L	XL	XL	
Heat pump thermal power yield; prated	Condition EN16147:2017 A7/W55	kW	1,1	1,1	1,2	1,2	
Heating time ;	Condition EN16147:2017 A7/W55	h:m	8:59	8:59	10:15	10:15	
COP DHW	Condition EN16147:2017 A7/W55		2.8	2.8	3,0	3,0	
COP DHW	Condition EN16147:2017 A14/W55		3.1	3.1	3.4	3.4	
Water heating energy efficiency class	Climate condition EN16147:2017 average		A+	A+	A+	A+	
Annual electricity consumption	Climate condition EN16147:2017 average	kWh	867	867	1355	1355	
Sound power Lw(A)	EN12102-2:2019	dB(A)	53	53	53	53	
Electrical data							
Power supply (Frequency)		V (Hz)	1 / N / 230 (50)				
Degree of protection			IPX4				
HP maximum absorption		kW	0.663 + 1.5 (e-heater) = 2.163				
Average heat pump consumption	Condition EN16147:2017 A7/W55	kW	0,43	0,43	0,466	0,466	
Electric heating element power		kW	1,5				
Maximum current in HP		А	3.1 + 6.5 (e-heater) = 9.6				
Required overload protections		А	16A T fuse/ 16A automatic switch, characteristic C (to be expected during connection to a power supply systems)			ring connection to	
Internal protection			Safety thermostat with a manual reset on a resistive element				
Operating conditions							
Min. ÷ max temperature heat pump air intake (90% R.H.)		°C	-10÷43				
Min. ÷ max temperature installation site		°C	4÷43				
Working temperature							
HP Maximum settable temperature		°C			75		

DRAWINGS AND TECHNICAL DATA

Model			AquaThermica 200 + heat exchanger	AquaThermica 200	AquaThermica 260 + heat exchanger	AquaThermica 260	
			HPWH 2.1 200 U 02 S	HPWH 2.1 200 U 02	HPWH 2.1 260 U 02 S	HPWH 2.1 260 U 02	
Art. Number No		No	305277	305276	305278	305275	
Design characteristic							
Compressor / compressore protection			Rotary / thermal circuit breaker with an automatic reset				
Thermodynamic circuit protection type			Safety pressure switches with an automatic reset; [high/low pressure 2.5/0.1 Mpa]				
Fan			Centrifugal				
	Nominal air capacity	m³/h	314				
	Max. pressure head available	Pa	98				
	Motor protection		Internal thermal circuit breaker with an automatic reset				
Condenser			Wound externally, not in contact with the water				
Automatic anti-Legionnella cycle			Yes				
Defrosting			4-way valve				
Refrigerant			R134a				
Refrigerant charge		g	880				
Global warming potential			1430				
CO2 equivalent		t	1287				
Water storage tank							
Water storage tank capacity		l	194	202	251	260	
V40*	EN16147:2017	l	262	272	339	351	
Internal heat exchanger for auxiliary source		m2	1	N/A	1,2	N/A	
Cathodic protection			Mg anode Ø32x400 mm				
Insulation - ridig PU		mm	50				
Transport weight		kg	112	96	128	110	
Maximum working pressure		bar	8				

^{*}Max. quantity of hot water at 40°C.



Dimension ±5mm	ıs	HPWH 200	HPWH 200 S	HPWH 260	HPWH 260 S
h	mm	1720	1720	2010	2010
а	mm	994	994	1285	1285
b	mm	724	724	834	834
d	mm	995	995	1285	1285
f	mm	803	803	1064	1064
i	mm	681	-	781	-
k	mm	60	60	60	60
n	mm	681	681	766	766
u	mm	1153	1153	1440	1440
W	mm	58	58	58	58
М	mm	260	260	260	260
ØDF	mm	160	160	160	160
R	mm	1785	1785	2055	2055
ØD	mm	630	630	630	630

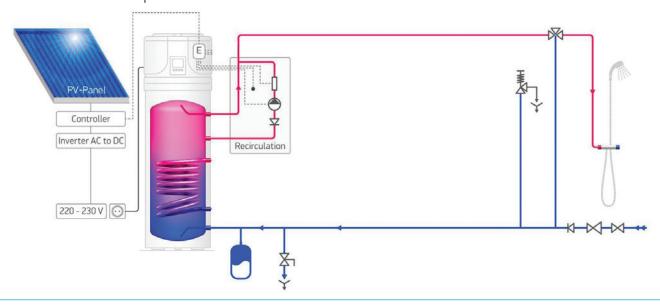
MODELS		HPWH 200	HPWH 200 S	HPWH 260	HPWH 260 S
CW	cold water inlet	G 1"	G 1"	G 1"	G 1"
HW	hot water outlet	G 1"	G 1"	G 1"	G 1"
IS	heat exchanger inlet	G 1"	-	G 1"	-
0S	heat exchanger outlet	G 1"	-	G 1"	-
R	recirculation	G ¾"	G ¾"	G ¾"	G ¾"
TS	thermo pocket level 1	G ½"	-	G ½"	-
EE	opening for electric element	G 1½"	G 1½"	G 1½"	G 1½"
CD	condense drainage	G ¾"	G ¾"	G ¾"	G ¾"

^{*}Thread designations according to EN ISO 228-1

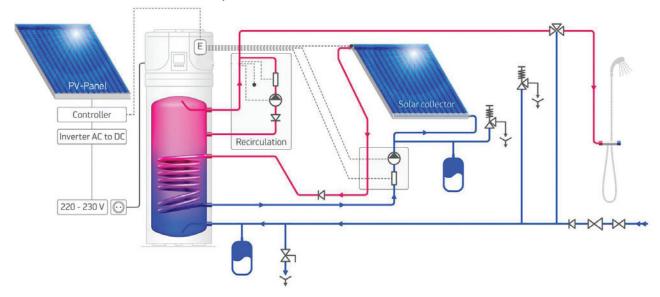
Air Air Outlet Inlet

CONNECTIVITY AND INSTALLATION OPTIONS

Connection to a PV panel



Connection to a PV and solar panel



Connection to a PV panel and a boiler

