

AquaThermica

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

The AquaThermica 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 efficient²** with a precisely balanced refrigerant cycle due to an electronically commutated motor and an electronic expansion valve.
- ⊞ **Up to 75% lower electricity consumption³.**
- ⊞ Can be connected to **other renewable energy sources** like PV and solar systems or boilers.
- ⊞ **Pragammable 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.



Renewable Energy



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

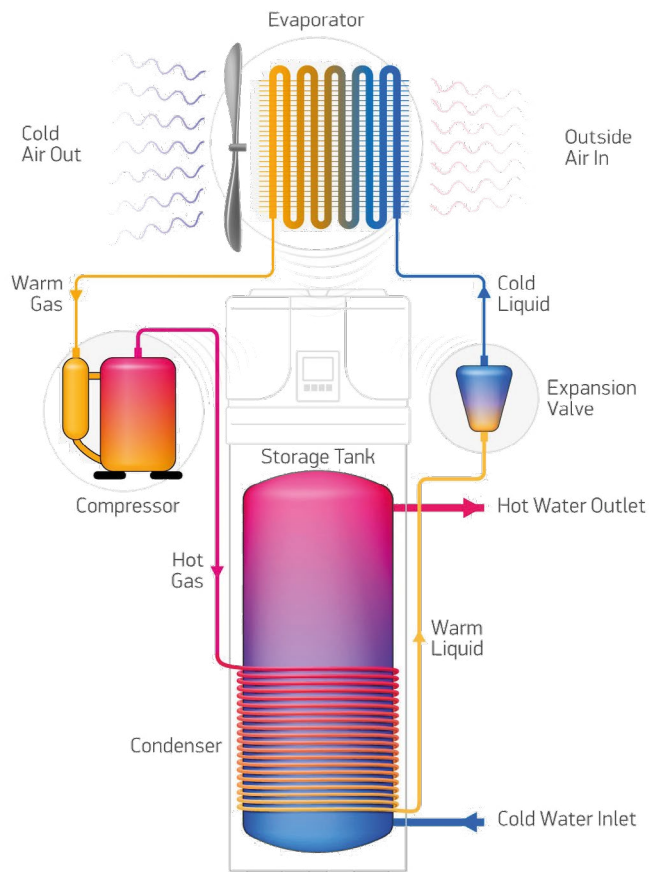
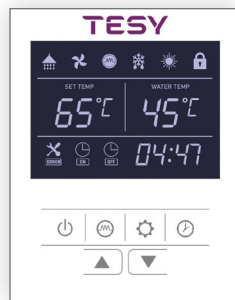


User-friendly LCD Display

WORKING PRINCIPLE

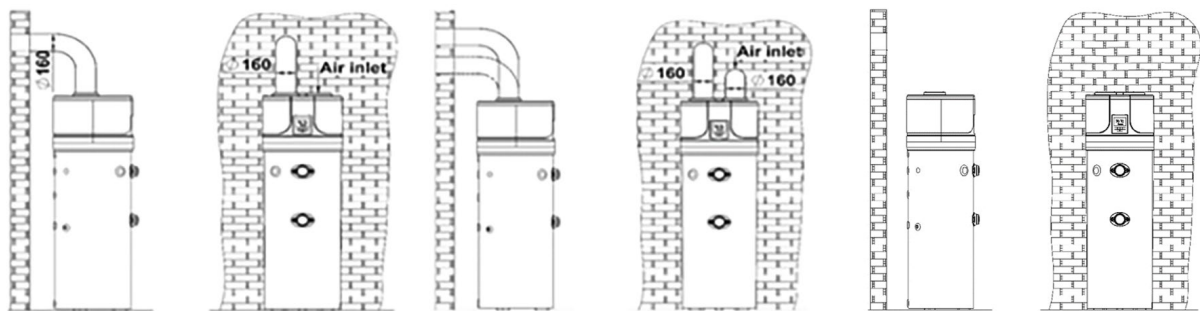


Programmable user-friendly LCD display



AIR-DUCT SYSTEM INSTALLATION

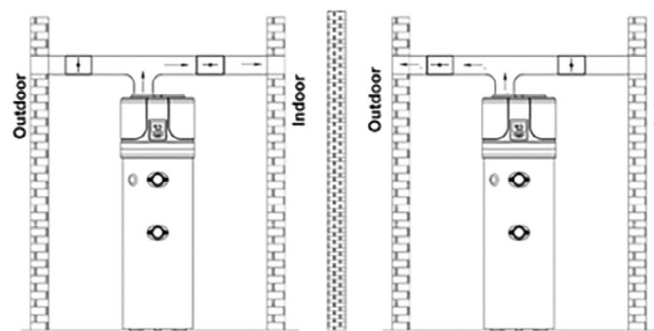
Applications for cooling and drying premises



Air outlet duct only

Dual duct connection

For cooling and drying premises



Installation in summer

Installation in winter

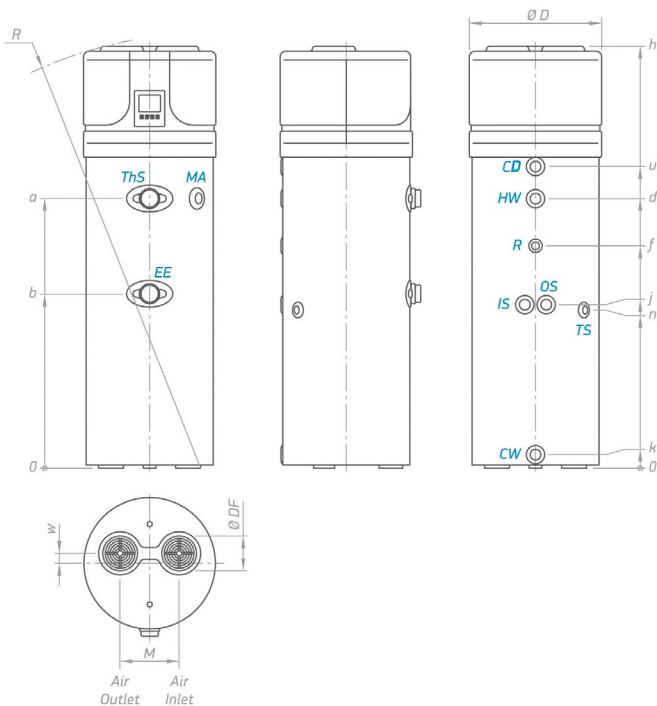
DRAWINGS AND TECHNICAL DATA

Model			AquaThermica 200 + heat exchanger	AquaThermica 200	AquaThermica 260 + heat exchanger	AquaThermica 260	
Art. Number			No	305061	305005	305062	305004
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		A	3.1 + 6.5 (e-heater) = 9.6				
Required overload protections		A	16A T fuse/ 16A automatic switch, characteristic C (to be expected during connection to a power supply systems)				
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		
Art. Number		No	305061	305005	305062	305004	
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	m ³ /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-Legionella 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		m ²	1	N/A	1,2	N/A	
Cathodic protection		Mg anode Ø32x400 mm					
Insulation - rigid PU		mm	50				
Transport weight		kg	112	96	128	110	
Maximum working pressure		bar	8				

*Max. quantity of hot water at 40°C.

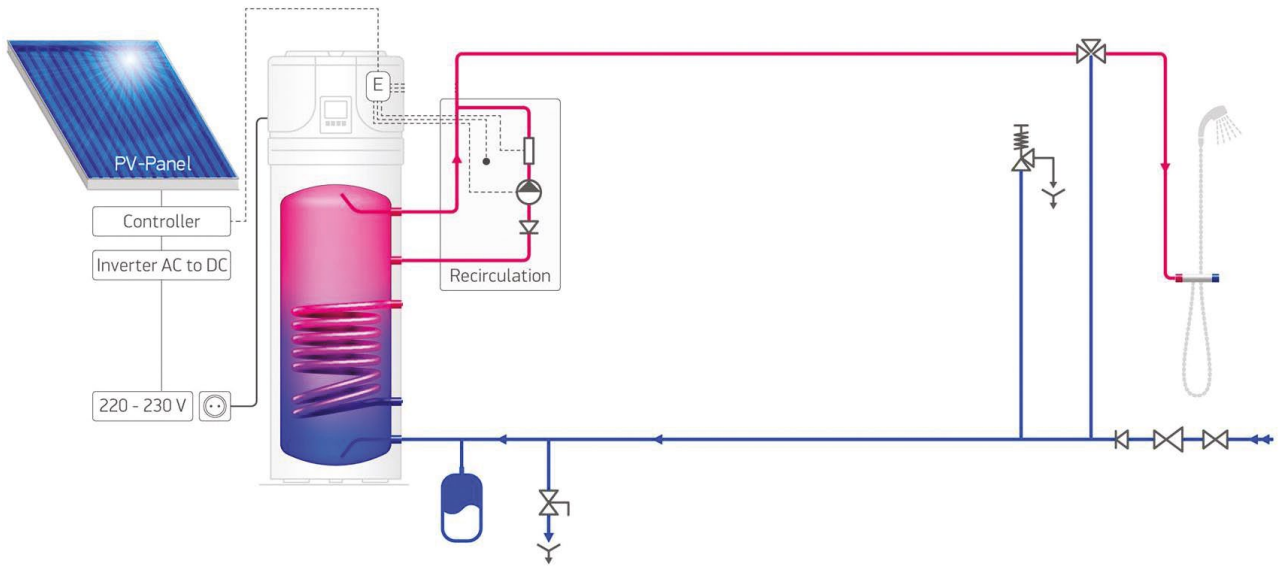


Dimensions ±5mm		EVHP 9S 200 60	EVHP 200 60	EVHP 9S 260 60	EVHP 260 60
h	mm	1720	1720	2010	2010
a	mm	994	994	1285	1285
b	mm	724	724	834	834
d	mm	995	995	1285	1285
f	mm	803	803	1064	1064
i	mm	681	-	781	-
k	mm	60	60	60	60
n	mm	681	681	766	766
u	mm	1153	1153	1440	1440
w	mm	58	58	58	58
M	mm	260	260	260	260
ØDF	mm	160	160	160	160
R	mm	1785	1785	2055	2055
ØD	mm	630	630	630	630

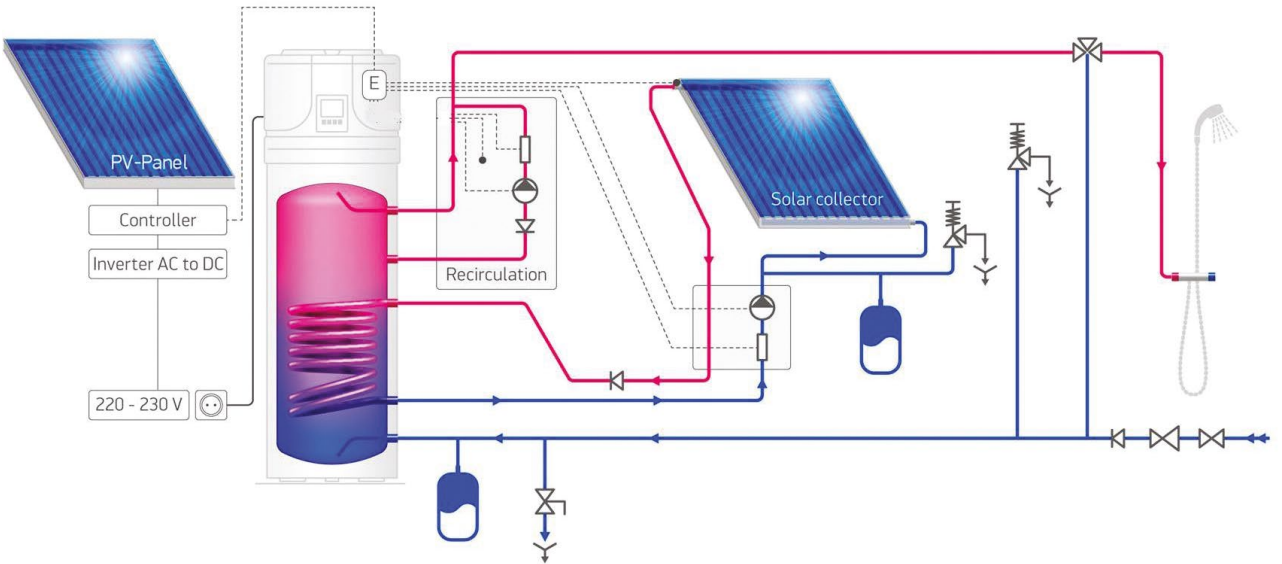
MODELS		EVHP 9S 200 60	EVHP 200 60	EVHP 9S 260 60	EVHP 260 60
CW	cold water inlet	G 1"	G 1"	G 1"	G 1"
HW	hot water outlet	G 1"	G 1"	G 1"	G 1"
IS	heat exchanger inlet	G 1"	-	G 1"	-
OS	heat exchanger outlet	G 1"	-	G 1"	-
R	recirculation	G ¾"	G ¾"	G ¾"	G ¾"
TS	thermo pocket level 1 opening for electric element	G ½"	-	G ½"	-
EE	condense drainage	G ¾"	G ¾"	G ¾"	G ¾"
TsH	Thermal safety thermostat				
MA	Mg anode	G 1 ¼"	G 1 ¼"	G 1 ¼"	G 1 ¼"
Thread designations according to EN ISO 228-1!					

CONNECTIVITY AND INSTALLATION OPTIONS

Conection to a PV panel



Conection to a PV and solar panel



Conection to a PV panel and a boiler

