

TDF DUCTED THERMODYNAMIC WATER HEATER

Airwell
Just feel well



A⁺



+ PRODUCTS

- Automatic, weekly, anti-legionella function.
- Multiple safeguards: pressure valve, double safeguard against rises in temperature (manual/automatic for TDF 300).
- No contamination risk: the condenser coil is outside the tank.
- Easy to install: closed refrigeration circuit - no intervention required.
- Anode and enamel provide anti-scale and anti-corrosion protection.

FEATURES



R134A FLUID



DOMESTIC HOT WATER



- Water output temperature: 38 to 70°C.
- Intelligent functionality mode: economic or electric (TDF 190).
- Automatic regulation (heat pump and electrical resistance): thermal confort and performances.
- Forced mode (electrical resistance).
- Ready to install.
- Absent mode (TDF 300).
- Ideal for family of 4 people.
- Large LCD screen for ease of use.
- Air outlet delivering 25 Pa pressure: option for up to 10 m of duct.
- 4-way valve: automatic defrosting.
- Solar Ready: Integrated solar heat exchanger for 190S and 300S models.
- Energy savings and performance gains thanks to its integrated solar heat exchanger.

ACCESSORIES/OPTIONS

Accessories	Part number
Adaptation kit, 90° bend and 1m duct (TDF 190)	7ACEL1735
Adaptation kit, 90° bend and 1m duct (TDF 300)	7ACEL1737
Extention kit 1m duct (TDF 190)	7ACEL1736
Extention kit 1m duct (TDF 300)	7ACEL1738

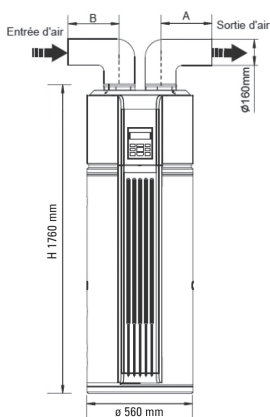
TDF TECHNICAL DATA

Model		AW-TDF190-H31	AW-TDF190-Solar-H31	AW-TDF300-H31	AW-TDF300-Solar-H31	
Part number		7HP030012	7HP030010	7HP030013	7HP030011	
Phase		Single phase	Single phase	Single phase	Single phase	
POWER AND PERFORMANCE						
Toutlet 5/12°C (DB/WB), Tw,in 15°C Tw,in 45°C	Heating capacity	kW	1.62	1.62	2.30	2.30
	Total power input	kW	0.42	0.42	0.53	0.53
	COP		3.86	3.86	4.34	4.34
Toutlet 43/26°C (DB/WB), Tw,in water 10°C Tw,out 70°C--> 190 Tw,out 65°C--> 300	Heating capacity		2.31	2.31	3.25	3.25
	Total power input		0.546	0.546	0.627	0.627
	COP		4.23	4.23	5.18	5.18
Electrical resistance		kW	3.00	3.00	3.00	3.00
Standard power supply		V	220-240/1/50			
Heating time DHW ⁽¹⁾		h/min	3/53	3/53	4/22	4/22
Maximum temperature DHW		°C	70	70	65	65
Acoustic pressure level (1 m)		dB(A)	44	44	44	44
Sound level (volume) (LWA)		dB(A)	58	58	59	59
ERP						
Thermodynamic water heaters (average climate) ⁽²⁾	Energy class of generator		A+	A+	A+	A+
	η _{wh}	%	115	115	123	123
	Annual consumption (AEC)	kWh	890	890	1356	1356
	Daily consumption	kWh	4.22	4.22	6.34	6.34
	COP		2.76	2.76	3.01	3.01
Thermodynamic water heaters (warmer climate) ⁽³⁾	η _{wh}	%	125	125	143	143
	Annual consumption (AEC)	kWh	819	819	1173	1173
	Daily consumption	kWh	3.86	3.86	5.49	5.49
Thermodynamic water heaters (cold climate) ⁽⁴⁾	η _{wh}	%	99	99	91	91
	Annual consumption (AEC)	kWh	1034	1034	1845	1845
	Daily consumption	kWh	4.90	4.90	8.56	8.56
DHW TANK						
Hot water tank volume		l	176	176	284	284
Maximal service pressure		bar	10	10	10	10
Refrigerant type / GWP			R134a /1430			
Refrigerant charge		kg	1.10	1.10	1.50	1.50
Fan type			Centrifuge	Centrifuge	Centrifuge	Centrifuge
Air flow			270	270	414	414
Dimensions (H x Ø)		mm	1830 x 610	1830 x 610	1930 x 700	1930 x 700
Operating weight		kg	287	310	412	435
PIPE LINE						
Inlet water		inches	3/4"			
Outlet water		inches	3/4"			

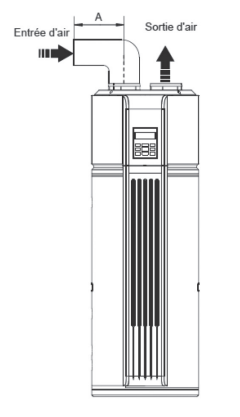
- Inlet water temperature 15 °C, storage setpoint 45 °C, air source side 15 °C DB / 12 °C WB.
- The product complies with the European ErP Directive, which includes Delegated Regulations (EU) No. 812/2013 and 814/2013, Medium Climate, Thermodynamic Water Heaters.
- The product complies with the European ErP Directive, which includes Delegated Regulations (EU) No. 812/2013 and 814/2013, Hot Climate, Thermodynamic Water Heaters.
- The product complies with the European ErP Directive, which includes Delegated Regulations (EU) No. 812/2013 and 814/2013, Cold Climate, Thermodynamic Water Heaters.



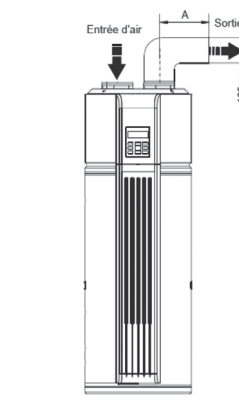
1 Inlet and outlet ducted



2 Entrée d'air gainée



3 Sortie d'air gainée



Location

Heated low volume room (< 20 m³)

Air inlet and air outlet

- Air inlet: outdoor air or extracted air (exhaust ventilation)
- Air outlet: to adjacent room or outdoor

Low volume room (< 20 m³) which can be refreshed

- Air inlet: outdoor air or extracted air (exhaust ventilation)
- Air outlet: in the room (ambient air)

Heated high volume room (> 20 m³) (kitchen, bathroom...)

- Air inlet: Ambient air
- Air outlet: To adjacent room or outdoor