



Heat pumps
Heating only

TDF

THERMODYNAMIC WATER HEATERS



+ PRODUCTS

- Excellent COP
- Small footprint
- Anti-legionella function
- No handling of refrigerant
- Limescale protection

FEATURES



THE + «SUSTAINABLE DEVELOPMENT»

- High energy class A+
- High performance product with COP > 5
- Product 3 to 4 times more economical than an electric tank

THE + «USER»

- Perfect to replace an electric tank
- “Peak/Off peak” operation

THE + «INSTALLER»

- Easy to install thanks to its compact footprint
- Narrow gauge to fit through all doors
- Integrated limescale protection (anode)

THE + «TECHNOLOGY»

- No risk of contamination following a refrigerant leak, thanks to the external 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

Airwell

Just feel well

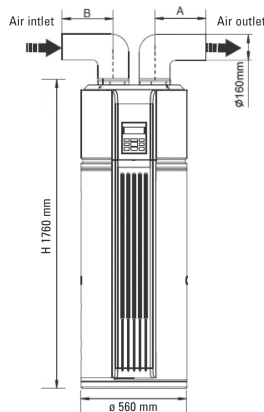
TDF TECHNICAL DATA

Model		AW-TDF190-H31	AW-TDF300-H31
Part number		7HP030012	7HP030013
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
	Total power input	kW	0.42
	COP		3.86
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
	Total power input		0.546
	COP		4.23
Electrical resistance	kW	3.00	3.00
Phase/Voltage/Frequency		1P/220-240V/50Hz	
Heating time DHW ⁽¹⁾	h/min	3/53	4/22
Maximum temperature DHW	°C	70	65
Acoustic pressure level (1 m)	dB(A)	44	44
Sound level (volume) (LWA)	dB(A)	58	59
ERP			
Thermodynamic water heaters (average climate) ⁽²⁾	Energy class of generator		A+
	η _{wh}	%	115
	Annual consumption (AEC)	kWh	890
	Daily consumption	kWh	4.22
	COP		2.76
Thermodynamic water heaters (warmer climate) ⁽³⁾	η _{wh}	%	125
	Annual consumption (AEC)	kWh	819
	Daily consumption	kWh	3.86
Thermodynamic water heaters (cold climate) ⁽⁴⁾	η _{wh}	%	99
	Annual consumption (AEC)	kWh	1034
	Daily consumption	kWh	4.90
DHW TANK			
Hot water tank volume	l	176	284
Maximal service pressure	bar	10	10
Refrigerant type / GWP			
Refrigerant charge	kg	1.10	1.50
Fan type		Centrifuge	Centrifuge
Airflow	m³/h	270	414
Dimensions (H x Ø)	mm	1830 x 610	1930 x 700
Operating weight	kg	287	412
PIPE LINE			
Inlet water	inches	3/4"	
Outlet water	inches	3/4"	

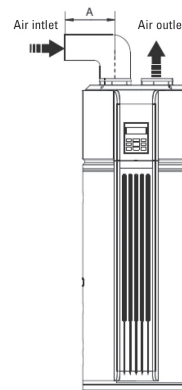
- Inlet water temperature 15°C, storage setpoint 45°C, air source side 15°C DB / 12°C WB.
- The product complies with the European ErP Directive, which includes Delegated Regulations (EU) No. 812/2013 and 814/2013, Medium Climate, Thermodynamic Water Heaters.
- The product complies with the European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



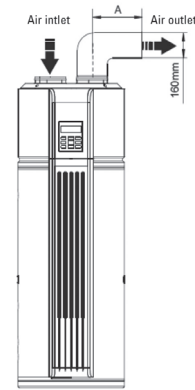
1 Inlet and outlet ducted



2 Inlet ducted



3 Outlet ducted



Location

Air inlet and air outlet

Heated low volume room (< 20 m³)

- 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