

## TDF 190/1.5

### 180-L ducted water heater

- Refrigerant: R134a.
- Water output temperature: 38 to 70°C.
- Intelligent functionality mode: economy or electric.
- Automatic regulation (heat pump and electrical resistance): thermal confort and performances.
- Forced mode (electrical resistance).
- Ready to install.
- Absent mode.
- Ideal for family of 4 people.



#### PRODUCT ADVANTAGES

- > Automatic, weekly, anti-legionella function.
- > Multiple safeguards: pressure valve, double safeguard against rises in temperature.
- > No contamination risk: the condenser coil is outside the tank.
- > Easy for the heating engineer to install: closed refrigeration circuit - no intervention required.
- > Anode and enamel provide anti-scale and anti-corrosion protection.
- > Large LCD screen for ease of use.
- > Air outlet delivering 25 Pa pressure: option for up to 5 m of duct.
- > 4-way valve: automatic defrosting.

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### 180-L ducted water heater

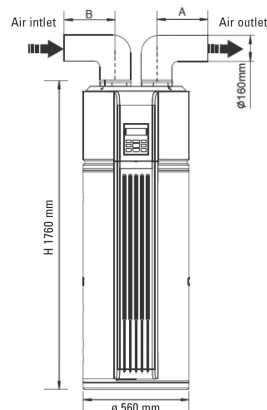
#### [ TECHNICAL DATA ]

Model		HWHM-TDF190/1.5-H31
Part number		7HP030004
<b>COP</b>		<b>2.61</b>
Water heating capacity	W	1450
Rated capacity	W/A	3900/17
Power supply		220-240V~ 50Hz
Operation control		Auto/Manual startup, error alarm, timer, etc
Protection system		TCO1, TCO2, T&P valve, automatic defrost, surge protector etc.
Electric heater capacity	W	3150
<b>WATER PIPES</b>		
Water inlet temperature	°C	Standard: 60°C, 38°C~70°C
Water side exchanger		Safety condenser, copper tube wrapped around outside of storage tank
Diameter of inlet		DN 20
Diameter of outlet		DN 20
Max. operating pressure	MPa	1.0
<b>EVAPORATOR</b>		
Type of fin		Hydrophilic aluminium, Grooved copper tube
Motor capacity	W	28
Air outlet type		Outlet/inlet vertically, duct connection available
<b>OTHERS FEATURES</b>		
Protection type		T 20 A 250 V c.a
Refrigerant type		R134a (1000 g)
Dimensions		ø 560 mm - 1760 H
Water tank capacity	litres	180
Weight	kg	107

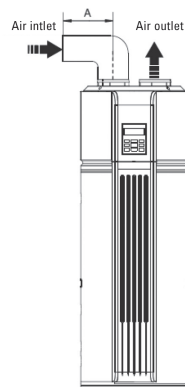
Test conditions: outdoor temperature of 15/12°C (dry bulb / wet bulb), input water temperature 15°C, output water temperature 45°C.



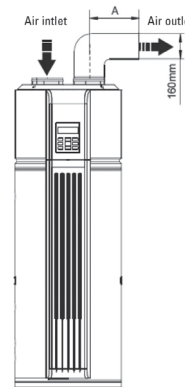
#### 1 Inlet and outlet ducted



#### 2 Inlet ducted



#### 3 Outlet ducted



Max. duct length	A+B < 5 m	A < 5 m	A < 5 m
Location	Heated low volume room (< 20 m²)	Low volume room (< 20 m²) which can be refreshed	Heated high volume room (> 20 m²) (kitchen, bathroom...)
Air inlet and air outlet	<ul style="list-style-type: none"> <li>Air inlet: outdoor air or extracted air (exhaust ventilation)</li> <li>Air outlet: to adjacent room or outdoors</li> </ul>	<ul style="list-style-type: none"> <li>Air inlet: outdoor air or extracted air (exhaust ventilation)</li> <li>Air outlet: in the room (ambient air)</li> </ul>	<ul style="list-style-type: none"> <li>Air inlet: Ambient air</li> <li>Air outlet: To adjacent room or outdoors</li> </ul>