TAN-ASWH80-150

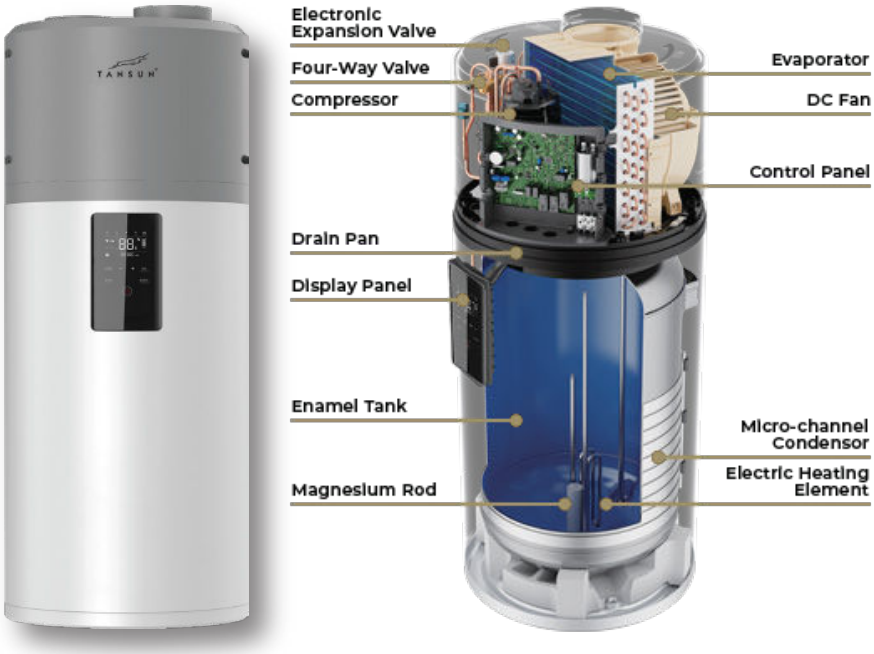
Wall Mounted 80L, 110L & 150L Air Sourced Hot Water Cylinders

TANSUN®
WORLD LEADERS IN RADIANT HEATING

Revolutionise Your Hot Water

The TANSUN Air Sourced Hot Water Cylinder is a compact, high-efficiency solution for domestic hot water. It features a powerful built-in compressor and eco-friendly R290 refrigerant. Using a reverse refrigeration cycle, it extracts ambient heat from the air to rapidly heat water with minimal environmental impact.

With wall-mounted 80L, 110L, and 150L capacities available, each unit provides a smart, space-saving option for reducing energy consumption and lowering household bills.



Benefits

- Compatible with infrared, electric, or gas heating systems
- Built-in R290 compressor for fast recovery times
- Ideal for homes seeking sustainable hot water solutions
- Very low energy consumption
- Low cost to run
- Suitable for Domestic or Commercial use

A+

R290 **REFRIGERANT**

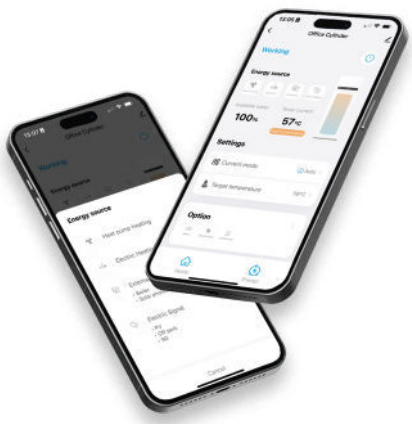
HIGH **EFFICIENCY**

EASY SIMPLE **INSTALLATION**

LOW NOISE **OPERATION**

COP **UP TO 3.5**

MICRO-CHANNEL **CONDENSER**



CONTROL EVERYTHING
VIA SMART CONTROL APP

Control, monitor & schedule your home heating system straight from your phone. Personalise your system to your lifestyle.

Tank

	TAN-ASWH80	TAN-ASWH110	TAN-ASWH150
Tank Volume	82L	102L	149L
Rated Voltage/Frequency	220V~240V/50Hz	220V~240V/50Hz	220V~240V/50Hz
Tank Max Pressure	0.8MPa	0.8MPa	0.8MPa
Thermal Insulation	40mm	40mm	40mm
Corrosion Protection	Magnesium rod	Magnesium rod	Magnesium rod
Insulation Protection Rating	IPX4	IPX4	IPX4

Performance

Type Of Extraction	Ambient / Exterior	Ambient / Exterior	Ambient / Exterior
COP @ 7°C / EN16147 [2]	2.91	2.79	3.03
COP @ 14°C / EN16147 [2]	3.07	3.32	3.39
Air Flow	180m³/h (50 l/s)	180m³/h (50 l/s)	180m³/h (50 l/s)
Permissable Pressure (Guaranteed Performance) [1]	35 Pa	35 Pa	35 Pa
Permissable Pressure (Operating Performance) [1]	65 Pa	65 Pa	65 Pa
Tapping Cycle [2]	M	M	L
Power Input By Electric Backup	1200W / 5 Amps	1200W / 5 Amps	1200W / 5 Amps
Rated Power Input By Heat Pump	250W	250W	250W
Maximum Power Input By Heat Pump	370W / 1.5 Amps	370W / 1.5 Amps	370W / 1.5 Amps
Maximum Power Input	1570W / 6.5Amps	1570W / 6.5 Amps	1570W / 6.5 Amps
Standby Power Input / Pes [2]	15.3W/0.06 Amps	18.7W / 0.08 Amps	22.5W / 0.09 Amps
Heating Up Time (7°C) [2]	4.44h	5.64h	8.62h
Heating Up Time (14°C) [2]	3.8h	4.79h	7.18h
Volume Of Mixed Water At 40°C @ 7°C [2]	103.8L	133.0L	190L
Reference Hot Water Temperature @7°C [2]	53.75°C	53.88°C	52.98C
Default Temperature Setting	56°C	56°C	56°C
Heating Temperature Range (HP)	35°C - 65°C	35°C - 65°C	35°C - 65°C
Heating Temperature Range (HP & Heater)	35°C - 75°C	35°C - 75°C	35°C - 75°C
Maximum Length Of Air Duct Combined Inlet/Outlet	36m	36m	36m
Diameter Of Air Duct Connection	160mm	160mm	160mm
Max Air Quality	375m3/h	375m3/h	375m3/h
Max Working Pressure Of Refrigerant	1.0/3.3MPa	1.0/3.3MPa	1.0/3.3MPa
Refrigerant Type /Weight	R290 /0.12kg	R290 /0.12kg	R290 /0.12kg
Sound Pressure Level [3]	50dB (A)	50dB (A)	50dB (A)
Sound Pressure Level @1m	37.7dB (A)	37.7dB (A)	37.7dB (A)
Ambient Temperature For Use Of Product	-7~45°C	-7~45°C	-7~45°C
Operating Temperature Of Heat Pump	-7~45°C	-7~45°C	-7~45°C
Thermal Dispersion [kW/24h]	0.360	0.456	0.528
Thermal Dispersion S [W]	15.3	19.3	22.5
Thermal Dispersion Ktant [W/K]	0.33	0.42	0.49
Wi-Fi Connection	Yes	Yes	Yes

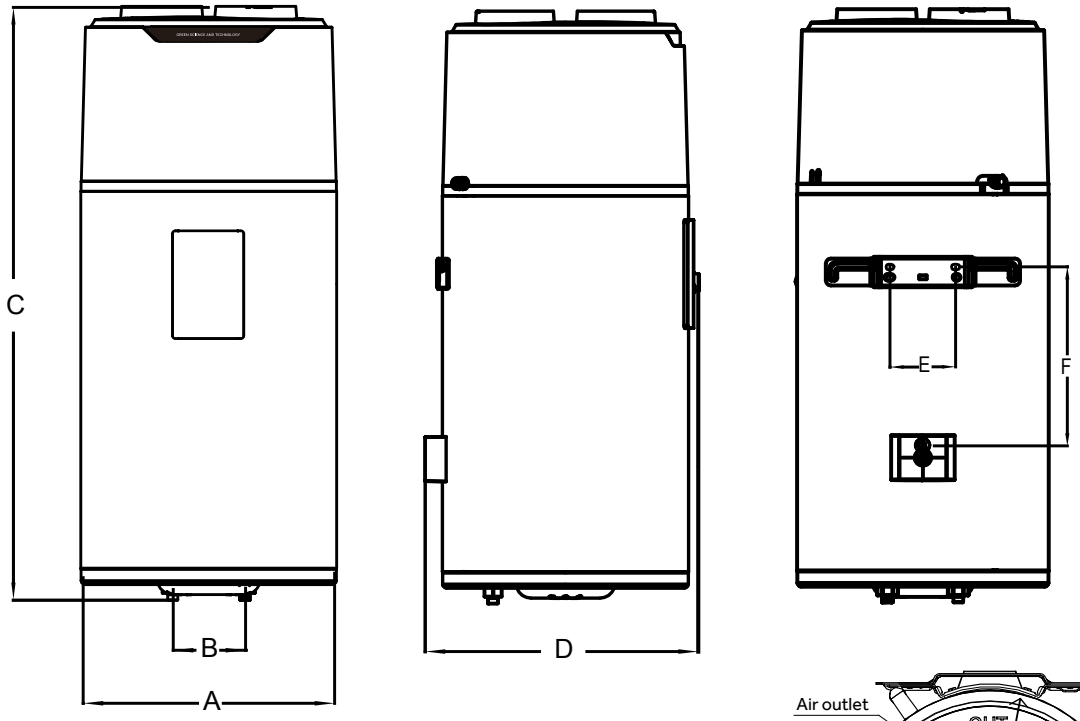
Dimension And Connections

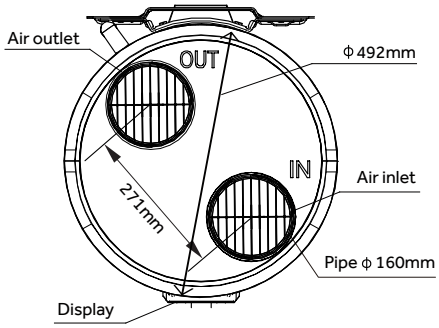
Water Inlet And Outlet Connection	R1/2"M Large Flow	R1/2"M Large Flow	R1/2"M Large Flow
Safety Valve Connection	R1/2"M	R1/2"M	R1/2"M
Product Dimensions (W/D/H)	492 x 547 x 1184mm	492 x 547 x 1334mm	492 x 547 x 1694mm
Packing Dimension With Pallet (W/D/H)	587 x 587 x 1534mm	587 x 587 x 1384mm	587 x 587 x 1894mm
Net /Gross Weight	51/58kg	54/62kg	64/83kg

Accreditated By:

[1] The unit is rated to operate at up to 65 Pa external static pressure as stated in the manufacturer's installation manual; performance outside these conditions cannot be guaranteed. Project TANSUN accepts no responsibility for the design, sizing, installation, or performance of any ducting associated with its air source hot water cylinders. [2] According to EN 16147. [3] According to EN12102.

The COP and noise level data was tested in Haier lab.
The COP values obtained with external air temperature of 7°C and 14°C, inlet water temperature of 10°C and set temperature of 55°C.
(SHW080&SHW110,according to EN 16147), inlet water temperature of 10°C and set temperature of 54°C (SHW150, according to EN 16147).
The sound power level data obtained with extrenal air temperature of 7°C, inlet water temperature of 10°C and set temperature of 55°C, according to EN12102.

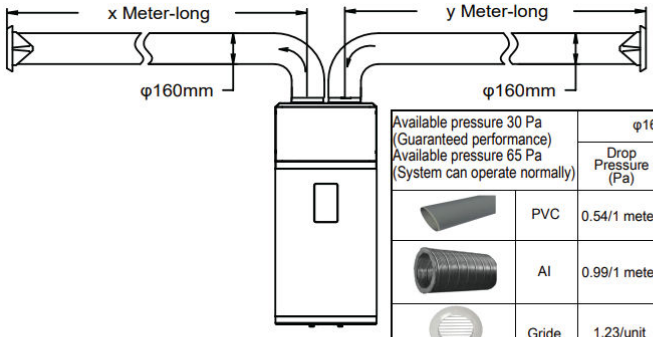




*Dimensions (mm)

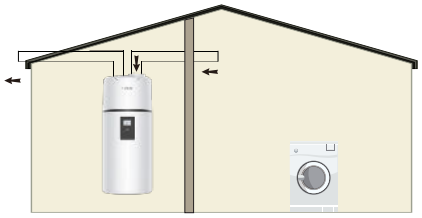
Model	A	B	C	D	E	F
TAN-ASWH80	492	140	1184	537	159	360
TAN-ASWH110	492	140	1334	537	159	360
TAN-ASWH150	492	140	1694	537	159	470

Ducting Options and Installation

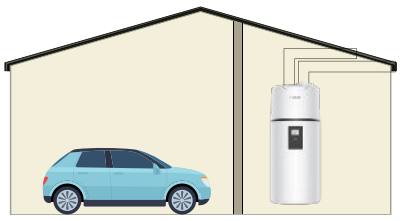


Installation suggestions:
x + y < 40 m (PVC)
x + y < 22 m (Al)

Available pressure 30 Pa (Guaranteed performance) Available pressure 65 Pa (System can operate normally)		φ160mm	
		Drop Pressure (Pa)	Equivalent 1m-long
	PVC	0.54/1 meter	1.00
	Al	0.99/1 meter	1.83
	Gride	1.23/unit	2.28
	90° PVC	1.62/unit	3.00
	90° Al	1.27/unit	2.35

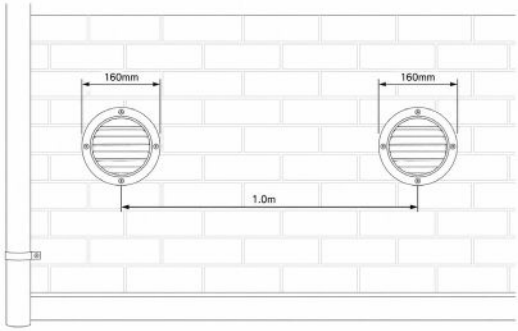


Installation with 1 duct to the Laundry room and 1 to the outside.



Installation with 2 ducts to the outside.

Termination Points



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