PERL PLUMBING, GAS & DRAINAGE

PERL ELECTRICAL, HVAC & SOLAR

BLACK SHIELD

NeoPower Black Shield 270L

Premium All-in-One Heat Pump

Reliable, energy-efficient hot water for modern New Zealand homes.

COP 5.4
Super Efficiency

DC Inverter
Compressor

R290
Refrigerant

Smart Control
App & Touch Screen

Low Noise
42–48 dB



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Features & Benefits

Why installers and homeowners choose the NeoPower Black Shield 270L

High Efficiency
Industry-leading COP 5.4. Generates 5.4 kW of heat for every 1 kW of electricity consumed.

Intelligent Inverter Control
Advanced inverter compressor adjusts operating frequency based on real-time water usage for optimal performance.

Eco Refrigerant
Uses R290 natural refrigerant with very low GWP and strong environmental performance.

Quiet Operation
Silent mode around 42 dBs. Overall operating noise 42–48 dBs depending on mode.

Durable Construction
Anti-corrosion enamel-coated tank with extra-thick carbon steel construction for long-lasting reliability.

Smart Control
Smart colour touch screen with integrated Wi-Fi app control and monitoring.

Ideal Household Size
270L capacity, perfectly suited for 2–4 people.



1 kW
Power Input

cop
5.4

5.4 kW
Heat Generated

Heat pumps efficiently draw heat from ambient air and transfer it into water.

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Technical Specifications

NeoPower Black Shield 270L | Model NA44-270B

⚡ Power Supply	220-240V / 50Hz / 60Hz
🔥 Rated Heating Capacity (kW)	3
⚡ Rated Input Power (kW)	0.556
📊 COP	5.4
⚡ Max Current (A)	9A
🛢️ Tank Capacity (L)	270
❄️ Refrigerant	R290 / 410g
🔄 Heat Exchanger	Microchannel
💧 Water Proof Level	IPX4
🔒 Max Water Tank Pressure	0.85MPa
⚙️ Expansion Valve	Electronic
💨 Air Flow (m³/h)	1000m³/h
➡️ Air Discharge	Horizontal
🔌 Electric Heater Power (kW)	1.6
⚡ Electric Heater Current (A)	7.1
🌡️ Default Water Temperature (°C)	60
🌡️ MAX Water Temperature (°C)	75
🌡️ Ambient Temperature Range (°C)	-7° to 46°C
🔊 Noise (dB)	42-48 (depending on mode)
📐 Unpacked Dimension (mm)	650 x 1870
📦 Packed Dimension (mm)	720 x 2005
⚖️ Net Weight (kg)	130
⚖️ Gross Weight (kg)	150



Operation Modes

🌡️ Standard mode	Heat pump only. Default 53°C, range 40-60°C.
🌿 Eco mode	Heat pump only. Default 60°C, range 40-60°C.
⚡ Hybrid mode	Heat pump and heating element together. Default 70°C, range 40-70°C. Heat pump heats to 60°C, then heating element heats to 70°C.
🔥 Heating element mode	Heating element only. Default 60°C, range 40-70°C.

Warranty

🔋 Tank	7 years
⚙️ Compressor	5 years
🔧 Parts & Labour	2 years

Warranty subject to the NeoPower manufacturer terms and applicable NZ consumer law. PERL supplies and installs the system.

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