



Integrated Water Heater

# Heat Pump Technology

The Airco Water Heater utilises the latest heat pump technology to heat water. The system works on the principle of reversed-cycle refrigeration which means heat is taken from the atmosphere (air and sun) and discharged into the water.

## The Airco Water Heater is...

- **Environmentally Friendly & Energy Efficient**

With a COP of 260-380%, Airco Water Heaters use up to 70% less energy reducing the amount of greenhouse gasses produced.

- **Easy to Install**

The Airco Water Heater requires the same installation as a regular electric geyser. There is no need for complicated and expensive plumbing work. The unit can be installed in just 2 hours.

- **Safe**

No fuel is required with reduced risk of danger from oil leakages and fires. The condenser coil is located externally to avoid contamination.

- **Operational 365 days of the year**

Fully functional in a wide range of temperatures -20°C to 45°C. Operates day and night, and in heavy overcast and snow-fall days.

- **Durable**

The Airco Water Heater is equipped with an intelligent protection system. It has a very durable, enamel coated, stainless steel tank.

## Key Features

- Elegant design.
- Coil positioned around water tank. Safer with zero refrigerant leakages.
- Rust and bacteria resistant
- Adopt magnesium rod in the tank as anode, avoiding fretting to the tank.

## Operation Settings

### Economy Setting (default):

- Temperature range: 38°C-65°C
- Ambient temperature range set at: 5°C-45°C
- If ambient temperature is not in this range, the unit will alarm to notify user to adjust controls
- Heat pump functions only
- Benefit: Energy-saving COP. 66% more efficient than the standard geyser

### Hybrid Setting:

- Temperature range set at :38°C-70°C
- Ambient temperature range set at :-20°C-48°C
- Upper E-heater heats the upper level water first, then, lower E-heater will heat the lower level water
- The two E-heaters won't work at the same time.
- Benefits: Wide temperature range; Quick Heating

### E-Heater Setting:

- Temperature range set at: 38°C-70°C.
- Ambient temperature range set at: 5°C-43°C.
- If ambient temperature is not in this range, unit will switch to Enhanced-heating mode automatically. Upper E-heater will heat the upper level water first.
- Heat pump will heat the lower level water.
- When setting temperature, if higher than 65C, Low E-heater will work secondary to heat pump.
- 2 of these 3 heating equipment won't work at the same time.
- Benefits: Wide range of settings; Quick heating

### Specification:

Model		RSJ-15/190RDN3		
Power supply	Ph-V-Hz	1,220-240V~50Hz		
Running settings		Economy	Hybrid	E-heater
Heating capacity	kw	1.5	1.9	2
Power input	w	500	790	2000
Current	A	3.8	5.1	9.12
Hot water yield	L/h	32	32	32
Ambient temperature	C	5-43	5-43	-20-48
Power input of compressor	W	470		
Power input of E-heater	W	2000'2		
Power input of fan motor	W	3		
Protections		Hi pressure, over-load, electric leakage		
Refrigerant		R134		
Evaporator material		Hydrophilic aluminium fin, inn groove copper tube		
Water tank volume	L	190L		
Water System	Setting temp	C	38~70.50 default	
	Heat exchanger		Copper tube around tank	
	Water inlet		DN20	
	Water outlet		DN20	
	Water outlet		DN20	
	PT valve joint		DN20	
	Max pressure	MPa	0.7	
Setting temp		45		
Dimension	Mm	560'1580		
Net weight	kg	86		
Weight with water		257		
Application	Persons	-4		
Qty per20/40HQ	pieces	27/57/57		
Testing condition: Outdoor tem: 20/15C (DB/WB) inlet/outlet water temp: 15/55C				

\*Specifications maybe changed without notice.

# 0861 COOLING

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