



Solar East R290 Commercial Heat Pump

Engineered Efficiency, Proven Performance



Solar East

R290 Air Source Heat Pump

R290 refrigerant technology delivering hot water, heating and cooling from a single unit. EVI enhanced vapour injection technology operates down to -25°C ambient. Output temperatures up to 75°C . DC inverter compressor and fan motor for maximum efficiency at all loads.

50-75 kW

BLN-050TC3 Capacity

75°C

Max Water Output

-25°C

Min Ambient Temp

R290

GWP=3

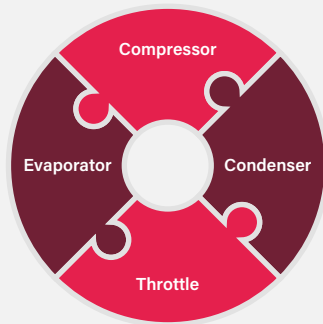
80%

Environmental energy from air

+

20%

Electricity energy



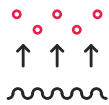
=100%

Room heating and domestic hot water

Environmentally
Conscious Choice

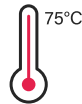
- **Eco-Environmentally**
- **Energy Saving**
- **High Efficiency**

Key Features



EVI Technology

Enhanced vapour injection: operates down to -25°C .



Up to 75°C Output

High temperature water for heating and domestic hot water.



All DC Inverter

DC inverter compressor and fan motor. A++ ERP efficiency rating.



R290 Eco Refrigerant

GWP of only 3 and zero ODP. Environmentally responsible.



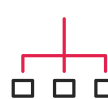
WiFi Remote Control

Monitor and operate from anywhere via smartphone or tablet.



Cascade Ready

Up to 16 units in parallel for large commercial and industrial sites.



Modbus RS485

Seamless integration with BMS and building management systems.



Power Monitoring

Daily and long-term electricity consumption tracking built in.

BLN-050TC3 50 kW R290 A++		BLN-075TC3 75 kW R290 A+++	
Power Supply (V/Ph/Hz)	380 to 415 / 3 / 50	Power Supply (V/Ph/Hz)	380 to 415 / 3 / 50
Nominal Heating (A7/W35) Capacity (kW)	17.56 - 50	Nominal Heating (A7/W35) Capacity (kW)	19.98 - 88.78
Nominal Heating (A7/W35) Power Input (kW)	2.61 - 12.88	Nominal Heating (A7/W35) Power Input (kW)	3.65 - 21.49
Nominal Heating (A7/W35) Current Input (A)	5.46 - 18.8	Nominal Heating (A7/W35) Current Input (A)	4.13 - 5.47
Nominal Heating (A7/W55) Capacity (kW)	17.95 - 49	Nominal Heating (A7/W55) Capacity (kW)	19.42 - 90.42
Nominal Heating (A7/W55) Power Input (kW)	3.48 - 17.2	Nominal Heating (A7/W55) Power Input (kW)	5.64 - 29.35
Nominal Heating (A7/W55) Current Input (A)	7.78 - 26.8	Nominal Heating (A7/W55) Current Input (A)	3.08 - 3.44
Nominal Heating (A35/W7) Capacity (kW)	10 - 35	Nominal Heating (A35/W7) Capacity (kW)	10.85 - 62.75
Nominal Heating (A35/W7) Power Input (kW)	3.84 - 14.50	Nominal Heating (A35/W7) Power Input (kW)	3.04 - 21.98
Nominal Heating (A35/W7) Current Input (A)	6.42 - 20.56	Nominal Heating (A35/W7) Current Input (A)	2.85 - 3.56
ERP Level (outlet water at 35 °C)	A++	ERP Level (outlet water at 35 °C)	A++
MAX input power (kW)	19.84	MAX input power (kW)	45.84
MAX input current (A)	30.30	MAX input current (A)	70.6
Refrigerant / GWP	R290 / 3	Refrigerant / GWP	R290 / 3
Rated water flow (m³/h)	8.60	Rated water flow (m³/h)	12.9
Fan quantity	1	Fan quantity	2
Fan motor type	DC Inverter	Fan motor type	DC Inverter
Compressor	DC Inverter	Compressor	Hitachi DC Inverter
IP Class	IPX4	IP Class	IPX4
Sound pressure at 1 m (dB(A))	65	Sound pressure at 1 m (dB(A))	65
Max outlet water temperature (°C)	75	Max outlet water temperature (°C)	75
Water piping connections	DN 40 (G 1½")	Water piping connections	DN 65
Water pressure drop (max) (kPa)	65	Water pressure drop (max) (kPa)	23
Min / max water pressure (MPa)	0.1 / 0.3	Min / max water pressure (MPa)	0.1 / 0.3
Operating temp range (heating) (°C)	-25 to 45	Operating temp range (heating) (°C)	-25 to 45
Operating temp range (cooling) (°C)	-16 to 45	Operating temp range (cooling) (°C)	-16 to 45
Unpacked dimensions L x W x H (mm)	1,155 x 990 x 1,880	Unpacked dimensions L x W x H (mm)	2,200 x 1,100 x 2,190
Net weight (kg)	500	Net weight (kg)	770

* Specifications subject to change without notice. Contact O'Brien Energy for confirmed engineering data.

Applications

The SolarEast R290 heat pump delivers hot water, space heating and cooling across commercial and industrial applications.



Hotels
& Resort



Office
Building



Schools



Gyms



Shopping
Mall



Food &
Beverages



Industrial
Facilities

Energy Engineered for performance, reliability and lower carbon outcomes.

Why O'Brien?

- **Australia's Largest**

Leading supplier of industrial boilers across Australia

- **20+ Years Experience**

Decades of engineering expertise in steam & hot water systems

- **24/7 Support**

Around the clock support with instant phone assistance

- **Accredited Training**

RTO Code 45484,
boiler operation training nationwide

- **Tailored Solutions**

Custom engineered,
with no off the shelf compromises

- **765+ Active Clients**

Trusted across Australia
and internationally

Ready to engineer
your energy solution?

Connect with us at



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