O'BRIEN



# OBYLN
# Commercial Heat Pump

Engineered Efficiency, Proven Performance



OBYLN

# Air Source Heat Pump

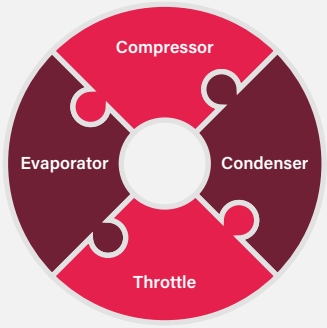
OBYLN refrigerant technology delivering hot water, heating and cooling from a single unit. EVI enhanced vapour injection technology operates down to –25 °C ambient. Output temperatures up to 75 °C. DC inverter compressor and fan motor for maximum efficiency at all loads.

| 50-75 kW | 75 °C | -25 °C | R290 |
|---|---|---|---|
| BLN-050TC3 Capacity | Max Water Output | Min Ambient Temp | GWP=3 |

**80%**
Environmental energy from air

**+**

**20%**
Electricity energy

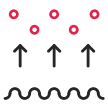



**=100%**
Room heating and domestic hot water

Enviromentally Concious 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.



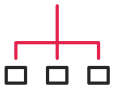
**R290 Eco Refrigerant**
GWP of only 3 and zero ODP. Environmentally responsible.



**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 \| OBYLN \| A++ | |
|---|---|
| Power Supply (V/Ph/Hz) | **380 to 415 / 3 / 50** |
| Nominal Heating (A7/W35) \| Capacity (kW) | **17.56 - 50** |
| Nominal Heating (A7/W35) \| Power Input (kW) | **2.61 - 12.88** |
| Nominal Heating (A7/W35) \| Current Input (A) | **5.46 - 18.8** |
| Nominal Heating (A7/W55) \| Capacity (kW) | **17.95 - 49** |
| Nominal Heating (A7/W55) \| Power Input (kW) | **3.48 - 17.2** |
| Nominal Heating (A7/W55) \| Current Input (A) | **7.78 - 26.8** |
| Nominal Heating (A35/W7) \| Capacity (kW) | **10 - 35** |
| Nominal Heating (A35/W7) \| Power Input (kW) | **3.84 - 14.50** |
| Nominal Heating (A35/W7) \| Current Input (A) | **6.42 - 20.56** |
| ERP Level (outlet water at 35 °C) | **A++** |
| MAX input power (kW) | **19.84** |
| MAX input current (A) | **30.30** |
| Refrigerant / GWP | **R290 / 3** |
| Rated water flow ($m^3/h$) | **8.60** |
| Fan quantity | **1** |
| Fan motor type | **DC Inverter** |
| Compressor | **DC Inverter** |
| IP Class | **IPX4** |
| Sound pressure at 1 m (dB(A)) | **65** |
| Max outlet water temperature (°C) | **75** |
| Water piping connections | **DN 40 (G 1½")** |
| Water pressure drop (max) (kPa) | **65** |
| Min / max water pressure (MPa) | **0.1 / 0.3** |
| Operating temp range (heating) (°C) | **–25 to 45** |
| Operating temp range (cooling) (°C) | **–16 to 45** |
| Unpacked dimensions L × W × H (mm) | **1,155 × 990 × 1,880** |
| Net weight (kg) | **500** |

| BLN-075TC3 \| 75 kW \| OBYLN \| A+++ | |
|---|---|
| Power Supply (V/Ph/Hz) | **380 to 415 / 3 / 50** |
| Nominal Heating (A7/W35) \| Capacity (kW) | **19.98 - 88.78** |
| Nominal Heating (A7/W35) \| Power Input (kW) | **3.65 - 21.49** |
| Nominal Heating (A7/W35) \| Current Input (A) | **4.13 - 5.47** |
| Nominal Heating (A7/W55) \| Capacity (kW) | **19.42 - 90.42** |
| Nominal Heating (A7/W55) \| Power Input (kW) | **5.64 - 29.35** |
| Nominal Heating (A7/W55) \| Current Input (A) | **3.08 - 3.44** |
| Nominal Heating (A35/W7) \| Capacity (kW) | **10.85 - 62.75** |
| Nominal Heating (A35/W7) \| Power Input (kW) | **3.04 - 21.98** |
| Nominal Heating (A35/W7) \| Current Input (A) | **2.85 - 3.56** |
| ERP Level (outlet water at 35 °C) | **A++** |
| MAX input power (kW) | **45.84** |
| MAX input current (A) | **70.6** |
| Refrigerant / GWP | **R290 / 3** |
| Rated water flow ($m^3/h$) | **12.9** |
| Fan quantity | **2** |
| Fan motor type | **DC Inverter** |
| Compressor | **Hitachi DC Inverter** |
| IP Class | **IPX4** |
| Sound pressure at 1 m (dB(A)) | **65** |
| Max outlet water temperature (°C) | **75** |
| Water piping connections | **DN 65** |
| Water pressure drop (max) (kPa) | **23** |
| Min / max water pressure (MPa) | **0.1 / 0.3** |
| Operating temp range (heating) (°C) | **–25 to 45** |
| Operating temp range (cooling) (°C) | **–16 to 45** |
| Unpacked dimensions L × W × H (mm) | **2,200 × 1,100 × 2,190** |
| Net weight (kg) | **770** |

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

# Applications

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


Hotels & Resort


Office Building


Schools


Gyms


Shoping 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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