

## TECHNICAL SUBMITTAL OKKI COMMERCIAL HEAT PUMP

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### 1. General Information

- **Product Name:** OKKI Commercial Heat Pump
- **Manufacturer:** Innova
- **Models Available:** OKKI 15, OKKI 30
- **Application:** Heating and cooling for large commercial spaces
- **Refrigerant:** R32 (Eco-friendly)

### 2. Product Description

The OKKI commercial heat pump is designed to provide **high-efficiency heating and cooling** for large spaces, including warehouses, factories, retail areas, schools, and sports centres. It features **Smart Jet technology** for **precise airflow control**, minimising stratification and optimising thermal comfort.

- **Net Zero & Decarbonisation:** Utilises renewable energy sources to reduce reliance on fossil fuels.
- **Modular System:** Supports installation of multiple units for **scalable heating and cooling solutions**.
- **Flexible Nozzle Configurations:** Available in **automatic (SA), manual (SM), or ducted (SC) versions** for targeted climate control.
- **Structure:** Internally Coated and galvanized sheet metal.
- **Brushless EC Fans:** radial fans with backward facing blades.
- **Filters:** G2 Metallic filters with all galvanised components.

### 3. Technical Specifications

#### Heating Performance

Model	Heating Capacity (Min - Max)	COP (Min - Max)
OKKI 15	13.4 kW (3.4 - 16.0)	3.76 (3.03 - 5.23)
OKKI 30	28.0 kW (5.5 - 29.0)	3.71 (3.05 - 5.00)

#### Cooling Performance

Model	Cooling Capacity (Min - Max)	COP (Min - Max)
OKKI 15	13.4 kW (3.3 - 15.0)	3.26 (2.93 - 5.08)
OKKI 30	23.2 kW (6.1 - 27.0)	3.24 (2.56 - 4.59)

#### Airflow & Ventilation

Model	Nominal Airflow (m <sup>3</sup> /h)	Useful Static Pressure (Pa)
OKKI 15	2500	170
OKKI 30	5000	170

## Sound Levels

Model	Radiated Sound Power (dB(A))	Sound Pressure @ 5m (dB(A))
OKKI 15	60	39
OKKI 30	64	42

## 4. Electrical Specifications – Indoor Unit

Model	Power Supply	Nominal Power (kW)	Total Absorbed Current (A)	IP Rating
OKKI 15	230V / 1Ph / 50Hz	0.4	1.83	IP X2
OKKI 30	230V / 1Ph / 50Hz	0.8	3.66	IP X2

## 5. Connections & Installation

- **Air Connections:** 355mm
- **Condensate Drainage:** 30mm
- **Refrigeration Circuit:**
  - Liquid Connection: **OKKI 15 - 3/8" | OKKI 30 - 1/2"**
  - Gas Connection: **OKKI 15 - 5/8" | OKKI 30 - 7/8"**
- **Operating Temperature Range:**
  - **Heating:** -20°C to 24°C (OKKI 15/30)
  - **Cooling:** -20°C to 46°C (OKKI 15/30)

## 6. Outdoor Unit Details

**Compressor:** High-efficiency **DC inverter rotary compressor**

**Refrigerant Type:** R32 (Environmentally friendly)

Model	Refrigerant Charge (kg)
OKKI 15	3.05
OKKI 30	5.20

## External Condenser Specifications

Model	Outdoor Unit	Power Supply	Max Power Consumption (kW)	Max Absorbed Current (A)	IP Rating
OKKI 15	Eeco-X15	400V / 3Ph / 50Hz	5	7.60	IP X4
OKKI 30	Eeco-X30	400V / 3Ph / 50Hz	9	13.67	IP X4

- **Heating Outdoor Air Range:** -15°C to 48°C (OKKI 15), -20°C to 24°C (OKKI 30)
- **Cooling Outdoor Air Range:** -20°C to 24°C (OKKI 15), -15°C to 46°C (OKKI 30)

## 7. Control & Monitoring

- **Smart Touch Remote Panel** (wall-mounted, with ModBus or WiFi control)
- **Automatic airflow modulation** based on temperature, VOC, and CO<sub>2</sub> sensors
- **Built-in Free Cooling function**

## 8. Compliance & Certifications

- **ErP Ecodesign Regulation No. 1254/2014**
- **Low Voltage Directive 2014/35/EU**
- **EMC Directive 2014/30/EU**
- **RoHS Directive 2011/65/EU**

## 9. Accessories

- **Smart Touch Wall Control Panel** (available in Black or White, with WiFi or ModBus)
- **Insulated Plenum Units** for air distribution
- **High-efficiency Carbon Air Filters**
- **Replacement ePM1 80% Filters**

## 10. Dimensions & Weight

### Internal Unit

Model	Dimensions (mm)	Weight (kg)
OKKI 15	1106x929x808	88
OKKI 30	1458x988x1041	130

## External Unit

Model	Dimensions (mm)	Weight (kg)
OKKI 15	980x370x996	84
OKKI 30	1140x460x996	109

### 11. Warranty & Support

- **Standard Warranty:** 3 years parts
- **Technical Support:** Available via Powrmatic customer service

### 12. Contact Information

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