

## BBEL D138

High-capacity ducted central dehumidifier

DESIGNED FOR DUCTED HUMIDITY CONTROL

**138 L/day**  
at 30°C / RH80%

**110-150 m<sup>2</sup>**  
treated area

**1000 m<sup>3</sup>/h**  
air volume



### Key specifications

<b>Rated extraction</b>	138 L/day (at 30°C / RH80%)
<b>Secondary extraction</b>	2.9 L/h (~70 L/day)
<b>Applicable area</b>	110-150 m <sup>2</sup> (floor height 2.6 m)
<b>Supply air volume</b>	1000 m <sup>3</sup> /h
<b>External residual pressure</b>	130 Pa
<b>Power supply</b>	220 V / 50 Hz
<b>Input power</b>	1180 W
<b>Noise</b>	45 dB(A)
<b>Dimensions (L×W×H)</b>	972 × 580 × 400 mm
<b>Weight</b>	60 kg

<b>Air outlet diameter</b>	195 mm
<b>Return air diameter</b>	195 mm
<b>Refrigerant</b>	R410a
<b>Throttle method</b>	Capillary tube
<b>Operating temperature</b>	5-38°C
<b>Compressor</b>	High-efficiency hermetic compressor
<b>Heat exchanger</b>	Copper tube with aluminium fin
<b>Fan type</b>	Adjustable centrifugal fan
<b>Filter type</b>	Primary filter
<b>Drain system</b>	Built-in drain pump, DN15

### Product highlights

**1 Durable construction**  
Anti-corrosion treated sheet metal frame for long-term indoor service life.

**2 Efficient operation**  
High-efficiency heat exchanger and centrifugal fan support stable moisture removal.

**3 Wi-Fi enabled smart controller**  
LCD controller supports 2.4 GHz Wi-Fi app connectivity, humidity setting and status display.

**4 Built-in drainage pump**  
DN15 drain connection with internal pump simplifies concealed ducted installations.

### Typical applications

Villas & basements • Storage rooms • Gyms & wellness areas • Hotels & offices • Archives & humidity-sensitive spaces

### Installation essentials

Indoor ducted installation; reserve 400 × 600 mm service access; slope drain line 1-2%; built-in pump max lift 1 m; match duct sizing to final unit collars.

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# BBEL D138 - Controller, Wi-Fi and support notes

## Controller & Wi-Fi connectivity

- Smart LCD controller with humidity setpoint adjustment and operating status display.
- Wi-Fi connectivity for app-based monitoring/control via Smart Life app; requires 2.4 GHz Wi-Fi network.
- Automatic humidity control with manual mode and internal circulation / dehumidification mode selection.
- Fan-speed selection, timing function, child lock, filter reminder and filter-hour viewing.
- Fault indication and diagnostics: overflow, coil sensor, return-air sensor, low-pressure and high-temperature alerts.
- Wi-Fi setup status indication: fast flashing for configuration mode; slow flashing can be switched to fast configuration from controller keys.

## Wi-Fi / App notes

Wi-Fi operation requires a stable 2.4 GHz network. 5 GHz networks are not supported for controller pairing. Controller should be within reliable Wi-Fi coverage; use a Wi-Fi extender where required. App functions depend on router compatibility, mobile OS and product batch.

## Installation and commissioning

- Install indoors only on a structure capable of supporting at least five times the unit weight.
- Reserve minimum 400 × 600 mm access near filter/electrical service side.
- Use short, smooth ducts; avoid excessive elbows, diffuser restrictions and undersized ductwork.
- Drain pipe should slope downward by 1-2%; built-in pump maximum lift is 1 m.
- Allow unit to rest 2-4 hours after transportation before energising; commission by qualified personnel.

## Compliance and warranty notes

- Final approval must be based on actual unit nameplate, serial number and conformity/compliance documentation.
- Project consultant/HVAC designer must verify duct sizing, external static pressure and drain route.
- Use only BBEL-approved data sheets, manual, warranty certificate and labels for customer submission.
- Warranty depends on correct installation, commissioning, airflow, drainage and maintenance by qualified personnel.



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