

BBEL D35

Compact ducted central dehumidifier

DESIGNED FOR DUCTED HUMIDITY CONTROL

35 L/day
at 30°C / RH80%

20-50 m²
treated area

350 m³/h
air volume



Key specifications

Rated extraction	35 L/day (at 30°C / RH80%)
Secondary extraction	0.8 L/h (~18-19 L/day)
Applicable area	20-50 m ² (floor height 2.6 m)
Supply air volume	350 m ³ /h
External residual pressure	80 Pa
Power supply	220 V / 50 Hz
Input power	400 W
Noise	36 dB(A)
Dimensions (L×W×H)	892 × 490 × 270 mm
Weight	37 kg

Air outlet diameter	150 mm
Return air diameter	150 mm
Refrigerant	R134a
Throttle method	Capillary tube
Operating temperature	5-38°C
Compressor	High-efficiency hermetic compressor
Heat exchanger	Copper tube with aluminium fin
Fan type	Adjustable centrifugal fan
Filter type	Primary filter
Drain system	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 D35 - 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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