



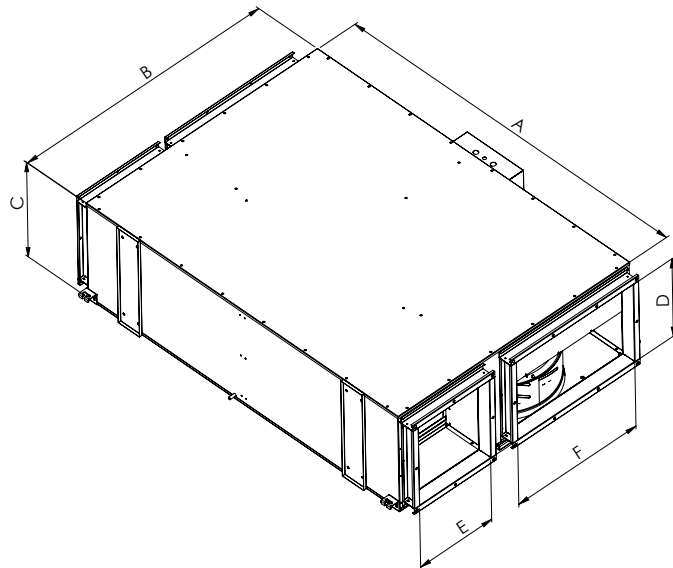
## **BGK** CEILING TYPE HEAT RECOVERY UNIT Aluminum Plated

BGK equipments are used in Hotels, Shopping Centers, Business Centers, Villas, Hospitals etc. with the purpose of refreshing air in the place.

These devices have a high-efficiency plate heat recovery exchanger. With this exchanger, pre-heating in winter conditions and pre-cooling in summer conditions are ensured by heat transfer without the mixture of exhaust air and fresh air from outside. No additional energy is spent during this time, a portion of the energy is saved from the air exhausted.

### Product Features;

- ◆ The devices use high-pressure, static and dynamically balanced, silent external rotor motor centrifugal fans that are directly coupled to the motor.
- ◆ The body material is corrosion-resistant galvanized sheet.
- ◆ Unit's body is insulated with polyethylene insulation material against sound and heat.
- ◆ There is a pan on the unit designed with the purpose of drainage of condensation possibly formed on the heat recovery exchanger.
- ◆ Easy maintenance - service for fan, motor and filters
- ◆ Reduces the investment and operating costs due to heat recovery.



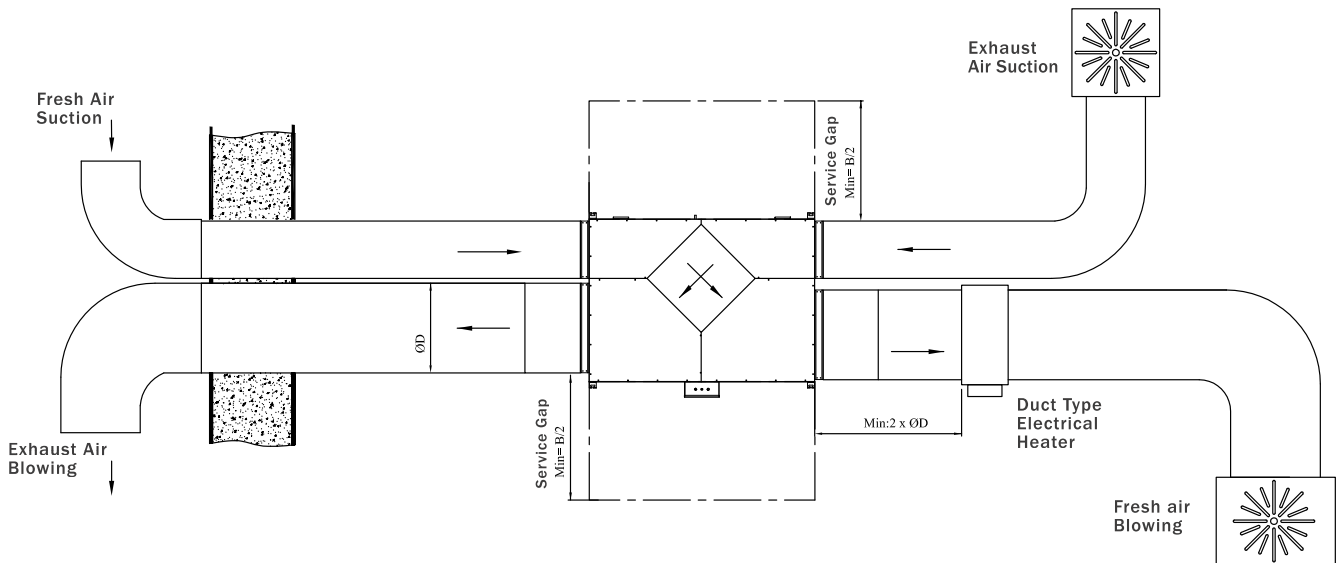


| TYPE    | A    | B    | C   | D   | E   | F   |
|---------|------|------|-----|-----|-----|-----|
| BGK 75  | 1100 | 900  | 315 | 220 | 200 | 455 |
| BGK 100 | 1200 | 1000 | 365 | 270 | 300 | 455 |
| BGK 200 | 1500 | 1200 | 415 | 320 | 400 | 555 |
| BGK 300 | 1700 | 1200 | 475 | 380 | 400 | 555 |
| BGK 400 | 1800 | 1300 | 515 | 420 | 400 | 655 |
| BGK 500 | 2000 | 1500 | 615 | 520 | 400 | 855 |

| TYPE    | BGK CAPACITY TABLE m <sup>3</sup> /h - Pa |      |      |      |      |      |      |      |      |     |     |
|---------|---|------|------|------|------|------|------|------|------|-----|-----|
|         | Pa  | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 550  | 600 | 700 |
| BGK 75  | m <sup>3</sup> /h                         | 750  | 700  | 550  | 300  | 0    |      |      |      |     |     |
| BGK 100 | m <sup>3</sup> /h                         | 1000 | 900  | 800  | 500  | 150  | 0    |      |      |     |     |
| BGK 200 | m <sup>3</sup> /h                         | 2000 | 1800 | 1700 | 1300 | 1000 | 500  | 0    |      |     |     |
| BGK 300 | m <sup>3</sup> /h                         | 3000 | 2800 | 2500 | 2100 | 1700 | 1200 | 600  | 0    |     |     |
| BGK 400 | m <sup>3</sup> /h                         | 4000 | 3800 | 3500 | 3200 | 2750 | 2300 | 1800 | 1200 | 650 | 0   |
| BGK 500 | m <sup>3</sup> /h                         | 5000 | 4800 | 4550 | 4000 | 3500 | 3000 | 2200 | 1500 | 800 | 0   |

| TYPE    | VOLTAGE | FREQUENCY | POWER  | CURRENT | CAPACITOR | SPEED | AIR FLOW          | AĞIRLIK | ELECTRICAL HEATER | VOLTAGE OF ELECTRICAL HEATER |
|---------|---------|-----------|--------|---------|-----------|-------|-------------------|---------|-------------------|------------------------------|
|         | V       | Hz        | W      | (A)     | (uF)      | d/d   | m <sup>3</sup> /h | kg      | KW                | V                            |
| BGK 75  | 230     | 50        | 140X2  | 0,86    | 6         | 1440  | 750               | 80      | 3                 | 380                          |
| BGK 100 | 230     | 50        | 200X2  | 1       | 8         | 1420  | 1000              | 100     | 3                 | 380                          |
| BGK 200 | 230     | 50        | 310X2  | 1,55    | 10        | 1430  | 2000              | 130     | 5                 | 380                          |
| BGK 300 | 230     | 50        | 500X2  | 2,5     | 10        | 1435  | 3000              | 180     | 8                 | 380                          |
| BGK 400 | 380     | 50        | 960X2  | 2       | -         | 1350  | 4000              | 200     | 10                | 380                          |
| BGK 500 | 380     | 50        | 1670X2 | 3       | -         | 1350  | 5000              | 230     | 13                | 380                          |

If the outside air is below -3 degrees, electrical heaters must be used before taking air into the device.





**Body and Insulation**

The body is covered with galvanized metal with high corrosion resistance. The inside of the device is insulated with a 10 mm polythene foam for sound and heat insulation.

**Control System**

Control System has been developed to control all equipment, meet user demands and is made simple and easy to user. The equipment in the standard device and the optional accessories can be controlled by the system.

The control unit can be used more functionally through the panel. The Heat Recovery Unit can be switched on and off via the BMS, fault signal can be received and all functions of the device can be controlled via ModBus.

**Filtres**

G4 class filters are used both for exhaust and fresh air to raise the indoor air quality and protecting the components inside the unit.

**Fresh Air and Exhaust Air Ventilator**

Backward curved plug fan is used in heat recovery units. The fan blades are of high aerodynamic efficiency. Since the fans are connected directly to the motor, belt-pulley problems are eliminated and maintenance costs are reduced with AC fans.

**Aluminum Plated Heat Exchanger**

BGK Heat Recovery Units use an aluminum cross-flow plated heat recovery exchanger. Heat Recovery Exchanger consists of plates that have an improved surface area to ensure high efficiency and no leakage from the edges. With heat exchanger optimization, heat transfer efficiency is increased and pressure loss is reduced.