



Micro Gas Air Con — Saves Operating Cost

Applications

To provide air conditioning for commercial, administrative, public buildings sized from 200 m²~5000 m². Especially, suitable for medium & small sized hotels, restaurants, office buildings and villas.

Functions

Cooling, Heating (hot water for special orders)

Cooling capacity

16kW, 23kW, 70kW, 115kW equal to 4.6RT, 6.6RT, 20RT and 33RT or 7HP, 10HP, 30HP, 50HP (a single unit can serve a 200 m²~2000 m² building).

Energy

Natural Gas, Town Gas, Biogas, LPG, Diesel (Steam, Hot Water, Exhaust can be used for special orders)

Low energy cost

By using natural gas, in many countries, the operating cost is only 30%~60% of that by using electric air conditioning (per actual results).

Clock and watch

The performance of BROAD micro gas air con is the same as BROAD packaged non-electric chiller, only a matter of size, just like the difference between a clock and a watch. Also, BCT70, BCT115 can be synchronized with BROAD packaged non-electric chillers.



Micro Gas Air Con Performance Data

| Model | | BCT16 | BCT23 | BCT70 | BCT115 | |
|-------------------------------------|------------------------|-------------------|-------|-------|--------|-------|
| Cooling capacity | kW | 16 | 23 | 70 | 115 | |
| | equal to HP | 7 | 10 | 30 | 50 | |
| Heating capacity | kW | 16 | 23 | 70 | 115 | |
| | 10 ⁴ kcal/h | 1.4 | 2 | 6 | 10 | |
| Chilled/heating water | | | | | | |
| Chilled water O/I temp. | °C | 7/14 | 7/14 | 7/14 | 7/14 | |
| Heating water O/I temp. | °C | 57/50 | 57/50 | 57/50 | 57/50 | |
| Flow rate | m ³ /h | 2.0 | 2.9 | 8.6 | 14.3 | |
| External head | mH ₂ O | 8 | 8 | 11 | 12 | |
| Fuel consumption (full load) | | | | | | |
| Cooling | natural gas | m ³ /h | 1.5 | 2.2 | 6.4 | 10.5 |
| | diesel oil | kg/h | 1.24 | 1.82 | 5.29 | 8.68 |
| Heating | natural gas | m ³ /h | 1.8 | 2.6 | 7.8 | 13.0 |
| | diesel oil | kg/h | 1.49 | 2.15 | 6.45 | 10.75 |
| Electricity consumption (full load) | | | | | | |
| Cooling | kW | 1.00 | 1.45 | 3.95 | 5.78 | |
| Heating | kW | 0.40 | 0.68 | 1.70 | 2.34 | |

1. Fuel: NG, Town Gas, LPG, Diesel, please specify it in purchase orders. Natural gas consumption is calculated per low heating value 10 kWh/m³ and diesel oil per low heating value of 12 kWh/kg.
2. The product life design is 20 years.

Patented technology

All BROAD technologies are self developed uniquely. There are more than 20 patented technologies.

Indoor unit design advantage

Combining BROAD outdoor units with BROAD indoor units will realize optimal system performance and take full advantage of remote monitoring via the internet, but the BROAD outdoor unit can also be combined with any other indoor units.

Model selection & ordering

BROAD recommends: For residences and hotels: 40~70 W/m² For restaurants and shopping malls: 100~200W/m²

Outdoor unit quantity selection per building area cooling load 1 unit for buildings ≤ 300 m² 1~2 units for buildings ≤ 2,000 m² 2~4 units for buildings ≤ 5,000 m² For year around non-stop applications, at least 2 units are recommended, but standby units are not recommended. Several units can all be combined as an integrated system.

Lead time: 3~5 months for small quantity orders. Orders greater than 300 units, it takes at least 5 months.

