

Application

Bree High-Frequency Capacitors are indicated for installations with heating by induction, melting, agitation, or casting of facilities and similar applications with an AC voltage control or adjustment at frequencies exceeding the grid values.

As they are water cooled, they are recommended for indoor installation, and their main role is to correct the power factor of induction furnaces.

Fully Tested Equipment

- Bree has its own laboratory that allows it to conduct the routine, type, and special tests set out in international standards (IEC 60110).
- Bree's own manufacturing plant has ISO 9001, ISO 14001, and ISO 45001 certification.
- Bree is the nation's largest 100% Brazilian manufacturer of capacitors. The BR in our name stands for Brazil.

Design Features

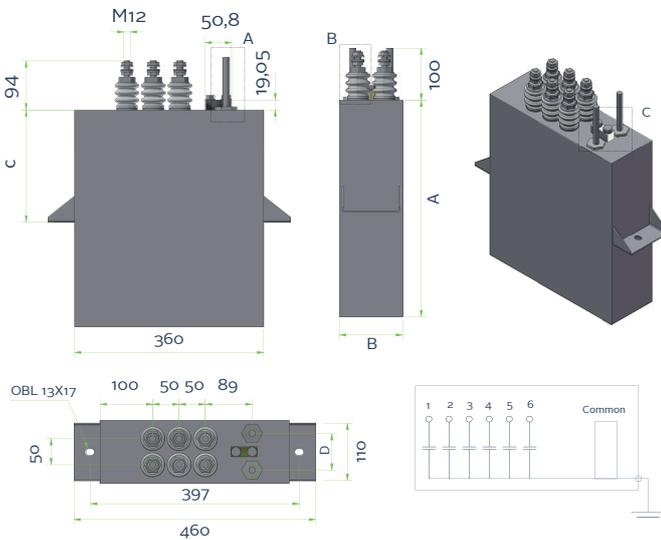
All Bree Capacitors are manufactured as per the following technical specifications:

- Available voltages from 100V to 3,000V;
- Number of taps: 1 to 8;
- Available frequencies from 60Hz to 20,000Hz;
- Impregnation with WEMCOL II biodegradable oil, providing the best operation at different temperatures;
- Vitrified porcelain bushings as insulators, designed for perfect sealing and high mechanical robustness;
- Capacitance tolerance of -10% to 10%;
- Discharge resistor: optional;
- Installation altitude: 1000 AMSL;
(call us for higher altitudes)
- PCB-free equipment.
- Temperature class: -40 °C to 50 °C.
(call us for other temperatures)

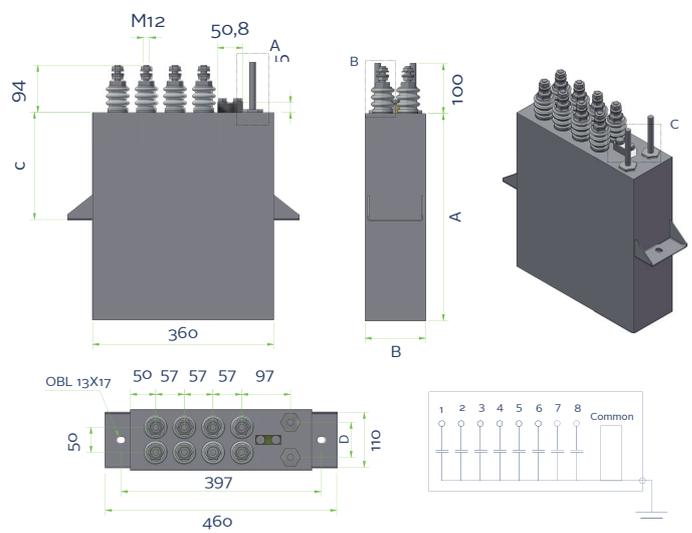


High-Frequency Capacitors

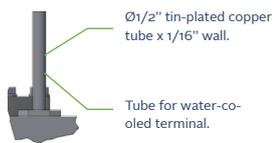
6-tap Grounded Cooled HF Terminal



8-tap Grounded Cooled HF Terminal



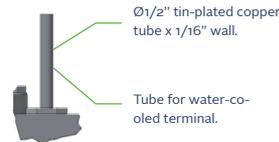
Detail A



Detail B



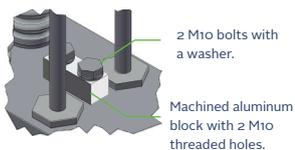
Detail A



Detail B



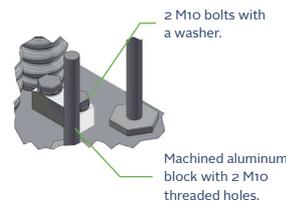
Detail C



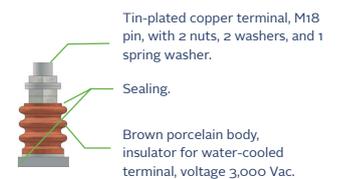
Design Detail



Detail C



Design Detail



| POWER (KVAR) | VOLTAGE (Vrms) | FREQUENCY (HZ) | CURRENT (Arms) | NUMBER OF TAPS | COOLING | DIMENSIONS (mm) | | | |
|--------------|----------------|----------------|----------------|----------------|----------|-----------------|-----|-----|-----|
| | | | | | | A | B | C | D |
| 1.400 | 1.200 | 800 | 800 | 6 | Grounded | 480 | 120 | 250 | 73 |
| 1.400 | 1.250 | 1.000 | 1.000 | 6 | Grounded | 400 | 150 | 400 | 73 |
| 1.200 | 1.250 | 1.200 | 1.200 | 6 | Grounded | 400 | 150 | 295 | 73 |
| 1.250 | 1.250 | 1.200 | 1.200 | 6 | Grounded | 400 | 120 | 295 | 73 |
| 1.200 | 1.500 | 1.200 | 1.200 | 6 | Grounded | 390 | 150 | 390 | 73 |
| 1.500 | 1.500 | 1.200 | 1.200 | 6 | Grounded | 350 | 150 | 285 | 73 |
| 1.200 | 1.800 | 1.200 | 1.200 | 6 | Grounded | 370 | 150 | 370 | 73 |
| 1.800 | 1.800 | 1.200 | 1.200 | 8 | Grounded | 460 | 150 | 295 | 100 |
| 900 | 800 | 3.000 | 3.000 | 6 | Grounded | 330 | 120 | 228 | 73 |
| 1.200 | 800 | 3.000 | 3.000 | 8 | Grounded | 400 | 150 | 400 | 100 |
| 1.200 | 1.250 | 3.000 | 3.000 | 8 | Grounded | 330 | 105 | 224 | 60 |
| 600 | 800 | 10.000 | 10.000 | 6 | Grounded | 280 | 120 | 180 | 73 |
| 1.140 | 800 | 10.000 | 10.000 | 8 | Grounded | 480 | 120 | 295 | 60 |

