

- The energy saving BAJ band heaters are specially set up on injection moulding machines and extrusion heads. By combining a band heater to a BAJ insulation system, we can guarantee a very low heating loss, both conductive and radiative. This system allows a lower energy consumption than compared to an installation equipped with standard, non insulated band heaters.

This system exists in 2 types :

- mini B.A.J. : insulation provided by a thin layer of insulator, energy saving of 15% on average.
- B.A.J. : insulation provided by a thick layer of insulator, energy saving of 40% on average.

- The energy saving band heater technology also called BAJ (Brevet Acim Jouanin), can be adapted to all kind of band heaters, mica and ceramic.

- The particular design allows a very good preservation of the insulator even with high temperature.

The advantage of the BAJ is the thermal isolation of each

- bandheater, which enables to respect the different heating zones on injection and extrusion lines.

## CHARACTERISTICS

External sheath, in polished steel or steel treated in the surface, protecting the insulator from all sort of compression.

- It acts like a reflector, spreading the radiation towards the surface to be heated. The outside frame is made of two halves cylinder connected by a hinge for easy mounting on the sheath.

Insulating structure with a low thermal conductivity, placed between the frame and the band heater. The thickness of the the insulator has been specially improved in order to minimize eventual loss.

- Mica or ceramic band heaters, depending on the application.
- Their thermal capacity respects all insulation factors in order to avoid overheating problems and premature failure of the band heater. IP 40 band heater.

The band heater and the frame are clamped with barrel nuts, which allows a strong clamping and is specially designed for a mounting where space is limited.

- Connection under cap : axial, radial or tangential, set up on the outside frame. Different types of connection, see p 11.

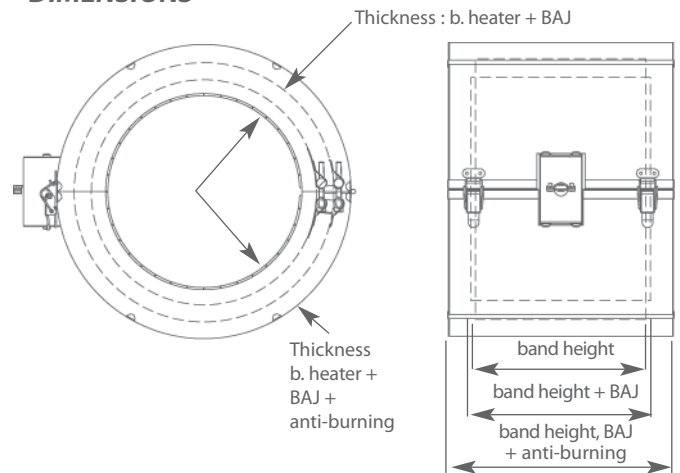
Products are in accordance with the EN 60335-1norm

- Wattage tolerance : +5% -10%
- Leakage current < 0.75 mA/kW.

Manufacturing depending on feasibility study and compatibility between watt density, sizes and accessories.



## DIMENSIONS



Kind of band heater	Thickness	Total height
Insulated ceramic heater (B.A.J.)	28 mm	H + 6 mm
Insulated ceramic heater (B.A.J.) with anti-burning sheath	50 mm	H + 11 mm
Insulated mica heater (mini B.A.J.)	10 mm	H
Insulated mica heater (B.A.J.)	20 mm	H + 6 mm
Insulated mica heater (mini B.A.J.) with anti-burning sheath	50 mm	H + 11 mm

Sizes without connection cap.

## OPTIONS

- Mini BAJ assembly on a mica band heater : Option 6
- BAJ assembly on a mica or ceramic band heater.
- In order to protect users from eventual burning, an anti-burning sheath (also called open work sheath) can be installed on a band heater supplied with the BAJ system.
- The energy saving band heaters can be fitted with sensors supports. See option 2, p12.