



**22**  
power kW

**7"**  
display inch

**400/450/  
500/600**  
voltages V

#### SMART inductor recognition

The desired temperature and desired power do not have to be set if an inductor with SMART identification feature is connected. In this case the generator automatically adopts the settings defined in the program (1, 2 or 3) for the corresponding inductor.

### BETEX MF-GENERATOR 3.1 - 22kW

- Compact design with 7" display
- User-friendly touchscreen operation
- Smart electronics ensure optimum operating frequency
- Adjustable power regulation
- Double temperature measurement ( $\Delta T$  monitoring)
- Choice between fixed and flexible inductors
- Can heat according to preset temperature/time curve
- The heating process is displayed in a clear graph
- Log function to save and export data via a USB port



#### For more control and stress-free mounting

Thanks to the Delta-T  $\Delta T$  monitoring, it is possible to measure the internal and external temperature of a workpiece with 2 temperature probes. Thus the maximum preset temperature difference between 2 points can never be exceeded. This achieves even and uniform heating and prevents material stress.



The MF 3.1 features a 7-inch touchscreen



Optional signal tower for MF 2.5 and 3.1

# Technical specifications

## Medium frequency 3.0 and 3.1



Type	MF Generator 3.0 - 3.5kW	MF-GENERATOR 3.1-10kW	MF-GENERATOR 3.1-22kW	MF-GENERATOR 3.1-44kW
Forced air cooling	Yes	Yes	Yes	Yes
Power	3,0kW* / 3,5kW**	10kW	22kW	44kW
Frequency range	10-50kHz	10-25 kHz	10-25 kHz	10-25 kHz
Voltage/Amperage	230V / 13A* 230V / 16A** 240V / 16A***	3 ~ 400V / 16A 3 ~ 450V / 14A 3 ~ 500V / 12A 3 ~ 600V / 10A	3 ~ 400V / 32A 3 ~ 450V / 30A 3 ~ 500V / 28A 3 ~ 600V / 23A	3 ~ 400V / 63A 3 ~ 450V / 59A 3 ~ 500V / 55A 3 ~ 600V / 45A
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Temperature measurement	For type K thermo element	For type K thermocouple	For type K thermocouple	For type K thermocouple
Max. temperature °C / °F	240 °C / 464 °F	300 °C / 572 °F	300 °C / 572 °F	300 °C / 572 °F
Accuracy	± 3.5°C / ± 6.3 °F	± 3.5°C / ± 6.3 °F	± 3.5°C / ± 6.3 °F	± 3.5°C / ± 6.3 °F
Inductor recognition	No	Yes	Yes	Yes
Temperature sensor (2 pieces)	Yes, for max 300°C / 572 °F	Yes, for max 300°C / 572 °F	Yes, for max 300°C / 572 °F	Yes, for max 300°C / 572 °F
Extra thermocouple input	Yes	Yes	Yes	Yes
Dimensions of generator LxWxH	320 x 350 x 150 mm / 12.6x13.8x5.9 inch	600x300x600 mm / 23.6x11.8x23.6 inch	600x300x600 mm / 23.6x11.8x23.6 inch	600x650x580 mm / 23.6x25.6x22.8 inch
Weight of generator	7,85 kg	46 kg	46 kg	78 kg
<b>Operation</b>				
Dimensions display	4,3"	7"	7"	7"
Heat curve in display	Yes	Yes	Yes	Yes
Delta T (ΔT)	Yes	Yes	Yes	Yes
Setpoint power	No	Via touchscreen	Via touchscreen	Via touchscreen
Setpoint temperature	Via touchscreen	Via touchscreen	Via touchscreen	Via touchscreen
Setpoint temperature curve	Via touchscreen	Via touchscreen	Via touchscreen	Via touchscreen
Setpoint timer	Via touchscreen	Via touchscreen	Via touchscreen	Via touchscreen
Selection operating mode	Via touchscreen	Via touchscreen	Via touchscreen	Via touchscreen
Digital readings temperature	Setpoint and actual value on touchscreen	Setpoint and actual value on touchscreen	Setpoint and actual value on touchscreen	Setpoint and actual value on touchscreen
Digital readings time	Setpoint and actual value on touchscreen	Setpoint and actual value on touchscreen	Setpoint and actual value on touchscreen	Setpoint and actual value on touchscreen
Digital readings power	No	Actual value on touchscreen	Actual value on touchscreen	Actual value on touchscreen
Digital readings frequency	No	Actual value on touchscreen	Actual value on touchscreen	Actual value on touchscreen
USB connection	Yes	Yes	Yes	Yes
Network connection	No	Yes	Yes	Yes
Heating log	Yes	Yes	Yes	Yes
<b>Signaling by</b>				
Installation in operational state	LED on front	Via touchscreen	Via touchscreen	Via touchscreen
Error message	Acoustic signal	Acoustic signal	Acoustic signal	Acoustic signal
End of heating cycle	Acoustic signal	Acoustic signal	Acoustic signal	Acoustic signal
Signal tower	-	Optional	Optional	Optional

\*UKCA model specifications.

\*\* CE model specifications.