



DANTECH®

MICROWAVE

BATCH  
SYSTEM

# INDUSTRIAL MICROWAVE TECHNOLOGY



[www.dantechuk.com](http://www.dantechuk.com)

**JUST IN TIME**

**NO DRIP  
LOSSES**

**SMALL  
FOOTPRINT**

DanTech industrial microwave systems can efficiently heat and temper many different products in a matter of minutes.

**Typical uses include:**

- Tempering frozen meat, fish, fruit blocks and vegetables from  $-20^{\circ}\text{C}$  to  $-3^{\circ}\text{C}$ .
- Pre-heating liquids.
- Heating butter, caramel and other ingredients.
- Tempering, rubber, plastics, composites wood for further processing.

**Advantages:**

- Meat, fish, fruit, vegetables: no drip loss
- Liquids can be rapidly heated for pasteurisation
- Confectionery, ready for pumping, blending etc.
- Rubber, plastics, composites perfect temperatures for moulding.

**Benefits of microwave technology:**

- Precise temperature control from simple operator controlled interface.
- Production scheduling can be elevated to "Just in Time".
- No change to organoleptic properties of food products.
- Reduces the risk of bacteria growth.
- Small footprint, frees up space for production.
- Improves production flow.





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### Know-How

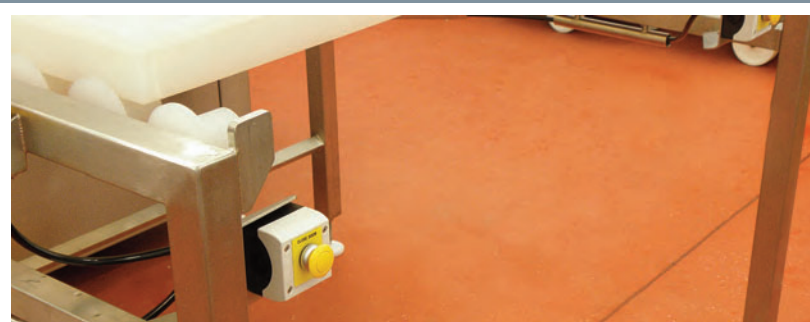
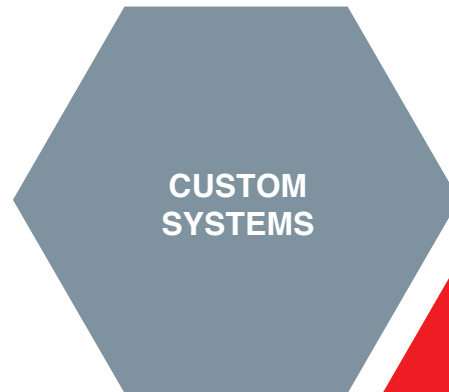
DanTech has designed, supplied and installed many microwave systems in the UK, Ireland, Europe and the Middle East. With more than 30 years expertise in microwave technology, DanTech has the skill to design, develop, deliver and support solutions that maximise productivity.

### OEM

As an OEM we are able to custom design and build oven applicators to suit a client's needs whilst complying with the latest CENELEC and IEC legislation on industrial microwave installations.

### Safety

DanTech was the first to introduce on all systems, automatic CO<sub>2</sub> fire suppression systems to protect operators and buildings in case of fire caused by overheating. All systems delivered by Dantech meet the IEC 60519-6, EN & BS safety standards.





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## TECHNICAL SPECIFICATIONS

### BATCH OVEN:

**MODEL:** MIT 5000-75 Oven Applicator

**Construction:** Stainless steel grade 1.4301 (AISI 304) and food grade microwave transparent materials

Upper & lower opposed rotary microwave antennae.

Pneumatically operated guillotine door assembly with tri-rated safety switch mechanism and twin closing "deadman" switch control

**Operation:** PLC control with simple touchscreen operator interface.  
Ethernet connection for remote diagnostics

**Safety:** CO<sub>2</sub> fire suppression system compliant to IEC 60519-6 fire safety legislation.  
Dual control system with tri-rated sensors.  
Load capacity per cycle: 150 kg

**Electrical:** Electrical 6A, 220-240VAC N + PE 50 Hz  
Rating: IP 65  
Compressed air: 3-4 Bar. 8 mm  
Max operating temperature: 50° C

**Dimensions:** L x W x H =  
2860 (incl loading table) x 2050 x 2210 mm  
Net weight: 1115 kg

### TRANSMITTER:

**MODEL: WAVE GEN 80**

**Construction:** Cabinet is stainless steel grade 1.4301 (AISI 304) with safety interlocks.

**Control:** PLC control package with full safety system and Ethernet connections for remote diagnostics.

**Electrical:** Frequency: 896 or 915 MHz  
Power: 110 kVA  
Rating: IP 55  
Microwave power output: 75 kW  
High Voltage 12 pulse 110 kVA multi-tap transformer.  
Internal cooling system and external stainless steel plate heat exchanger.

**Dimensions:** L x W x H = 1400 x 1200 x 2200 mm  
Net Weight: 880kg

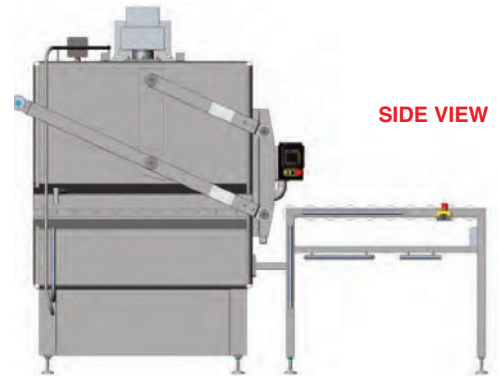
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Specifications subject to change.

FRONT VIEW



SIDE VIEW



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