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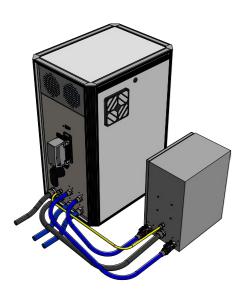
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TNX10/15/20/30 INDUCTION HEATING UNIT

Frequency 10kHz-100kHz

The **induction heating units** consist of two components, the medium frequency generator and the stationary heating station.

The TNX10/15/20/30 has been designed with state of the art semiconductor technology and therefore enables an optimal overall efficiency of the unit. The generator automatically selects the resonance frequency for any inductor and thereby always achieves maximum output.



Connectors cooling cycle

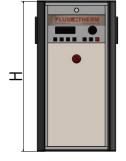


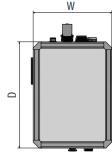
- + on/off switch
- + internal power supply
- + automatic resonance recognition
- + inductor short-circuit proof
- + User panel
- + controlled target value regulation with potentiometer 0–100
- + remote control socket for PLC controller
- + connection option for foot switch
- + 3m max. 5m connection cable between generator and heating station

- + Interchangeable condenser bridges
- + inductor connection

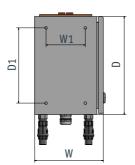
- + digital input for induction unit start
- + analogue input 0-10 V or 4-20 mA for target value

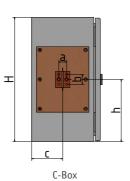
- + digital output for standby
- + digital output for power transmission at the inductor
- + digital output for induction unit error state
- analogue output for power transmission at the inductor, for frequency or water flow rate and more
- Error memory with 200 storage spaces
- + Integrated temperature controller (e.g. for external pyrometer)



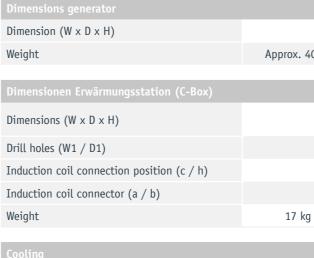


Generator





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Technical data	TNX10	TNX15	TNX20	TNX30	
MF power at the inductor connectors at the nominal operating point for continuous operation	10 kW	15 kW	20 kW	30 kW	
Frequency at maximum load	10 - 100 kHz (150 kHz upon request)				
MF-Voltage (rms.)	< 600 V				
Power supply	3 x 400V + N +PE				
Frequency	50 Hz				
Allowed voltage fluctuations	+5/-10 %				
Power consumption during stand by	< 200 W				
Power consumption at nominal load	11 kVA	17 kVA	22 kVA	35 kVA	
Power factor cosφ at nominal load	approx. 0,94				
Current per phase (400 V) at nominal load	approx. 15 A	approx. 25 A	approx. 32 A	approx. 51 A	
Required fuse protection	25A / 500V gl	32A / 500V gl	40A / 500V gl	63A / 500V gl	
Supply voltage - Remote Control	24 VDC				
External allowed power	Target value ref. input 0 – 10VDC / 0–20 mA				
Feedback power output	Power ref. output 0 - 10VDC / 0-20 mA				
Dimensions generator					

Weight	Approx. 40 kg	Approx. 50 kg	Approx. 55 kg	Approx. 70 kg		
Dimensionen Erwärmungsstation (C-Box)						
Dimensions (W v D v H)	300 x 210 x 380 mm					
Dimensions (W x D x H)	300 x 210 x 300 mm					
Drill holes (W1 / D1)	120 mm / 230 mm (hole diameter: 8 mm)					
Induction coil connection position (c / h)	95 mm / 190 mm					
Induction coil connector (a / b)	24 mm / 30 mm					

17 kg

370 x 500 x 710 mm (15 HE)

17 kg

17 kg

Cooling						
Water amount	8 l / min.	12 l / min.	15 l / min.	20 l / min.		
with a pressure of	5 bar dyn.					
Max. allowed pressure	7 bar					
Water outlet temperature	18 °C < T < 28 °C					
for open cooling system	Temperature may not go below the dew point					
Water connections	3/4" external thread					
Water quality	Drinking water or cleaned filtered industrial water (distilled water is also possible) Filter min. 500µm conductivity 50-300µS/cm PH-Range 7.0-8.5					

