





Power 2kW/3kW/5kW Frequency 70kHz-450kHz Stationary design with one output for cyclic operation The induction heating unit TTH2t/TTH3t/TTH5t consists of two components, the high frequency Generator and the stationary heating station with the corresponding inductor.

The TTH2t/TTH3t/TTH5t 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.

### Unit design TTH2t/TTH3t/TTH5t

#### Generator:

- on/off switch
- internal power supply
- automatic resonance recognition
- inductor short-circuit proof
- · with measuring device for output power and frequency
- display of generator status with LEDs
- · continuous target value regulation with potentiometer 0-100%
- remote control socket for PLC controller
- · connection option for foot switch
- 1.5m connection cable between generator and heating station

#### Heating station:

- · matching transformator with electrical insulation
- replaceable condenser bridges
- · inductor connection
- inductor rapid fastener

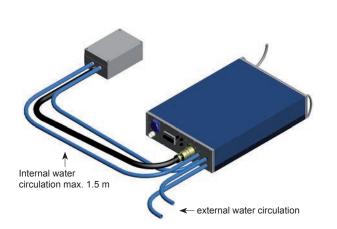
#### Remote control inputs:

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

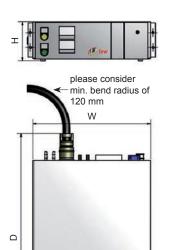
#### Remote control outputs:

- · digital output for standby
- digital output for power transmission at the inductor
- · digital output for induction unit error state
- analogue output 0-5V for power transmission at the inductor

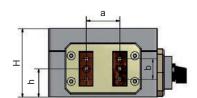
#### COOLING CIRCUIT CONNECTORS

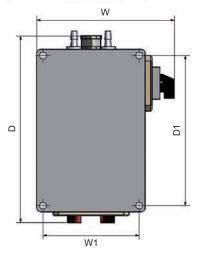






HEATING STATION





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# Technical Data TTH2t/TTH3t/TTH5t

Generator	2111	
TTH2t HF-output: Total input power:	2 kW 2,5 kVA	
TTH3t HF-output:	3 kW	
Total input power:	4 kVA	
TTH5t HF-output: Total input power:	5 kW 7 kVA	
Power supply	3 x 400 V/N+PE 16A, 50-60 Hz	
Internal control voltage	230 V/N AC 50-60 Hz	
Amount of heating stations	1 (stationary)	
Power-on time	70% (= continuous operation)	
Frequency	70 kHz bis 450 kHz	
Housing	Table housing 3HE, 84TE HF-design	
Dimensions [W x H x D]	450 x 150 x 650 mm	
Dimensions [W x H x D] with handles	450 x 150 x 690 mm	
Weight	approx. 20 kg	
Heating station		
Dimensions [W x H x D]	160 x 100 x 240 mm	
Mounting holes [W1 x D1]	142 x 222 mm	
Inductor level h	41 +/-5mm	
Connecting system inductor [a x b]	4 x M6, 50 x 30 mm	
Weight	approx. 8 kg	
Demote control		
Remote control Power supply	24V/100mA and 12V/100mA DC	
Inputs:		
Digital input coil energy transfer	24V DC	
Digital input external reset	24V DC	
External performance settings	0-10V or 0-20mA DC	
Outputs (alternatively): Potential free relay contacts or	24V/1,25A (AC/DC)	
Photomos outputs (high switching operation amounts)	24V/0,25A (AC/DC)	
Outputs for generator conditions	standby state	
	<ul> <li>power transmission to inductor</li> <li>error state</li> </ul>	
Water demand		
Water quality	Drinking water or cleaned filtered industrial water (no deionised or destilled water)	
Water hardness	max 8 German degrees of hardness	
Water connection	1x flow & 1x return	
Water connection flow & return	1/2" hose clip, tube di=12mm	
Pressure difference	4 – 6 bar	
Supply temperature	18°C – 25°C (max. 30°C)	
TTH2t Rate of flow Switchpoint of waterflow	approx. 2 l/min (including coil cooling) approx. 1,5 l/min	
TTH3t Rate of flow Switchpoint of waterflow	approx. 3 l/min (including coil cooling) approx. 2 l/min	
TTH5t Rate of flow Switchpoint of waterflow	approx. 4 l/min (including coil cooling) approx. 3 l/min	

## Article numbers and accessory list

ORDER NUMBER	ARTICLE DESCRIPTION	DESCRIPTION
Induction heating	g unit - stationary design	
IND0000	TTH2t	cyclic operation 70% with output power 2kW
IND0001	TTH3t	cyclic operation 70% with output power 3kW
IND0003	TTH5t	cyclic operation 70% with output power 5kW
Accessories		
IND0200	industry foot switch	foot switch to turn on and off the induction power
IND0203	industry foot switch with output power control	foot switch to turn the induction unit on and off and also to control the power output 0100%
IND0205	10turn potentiometer	fixed adjustment of the output power with interlock
IND0251m	lifting device TTH2-TTH5 320mm m	manual lifting device for heating stations TTH2 / TTH3 / TTH5
IND0251e	lifting device TTH2-TTH5 a	automatic lifting device for heating stations TTH2 / TTH3 / TTH5
Inductor		
IND0300	inductor	customer specific inductors
Optional: temper	ature control	
S-REGULUSxxx	Regulus	temperature control or programm control
IND0850	SPS	automatic sequence control & temperature control prepared for small devices
IND0850small	SPS-Small	automatic sequence control & temperature control
S-Sirius	infrared pyrometer	infrared pyrometer 300°C1300°C
S-Metis	infrared pyrometer	infrared pyrometer 75°C550°C
S-xxx	accessories	accessories, mounts, air purge for pyrometer
Optional: cooling	g system	
RKA-Chilly 15	cooling system CHILLY15- Sonder 1.425kW	cooling system for induction heating unit and inductor
RKA-Chilly 35	cooling system CHILLY35- Sonder 3.5kW	cooling system for induction heating unit and inductor



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