





Power 20kW/25kW

Frequency 70kHz-450kHz

Stationary design with one output for continuous operation

# The induction heating unit TTH20/TTH25 consists of two components, the high frequency Generator and the stationary heating station with the

corresponding inductor.

The TTH20/TTH25 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 TTH20/TTH25

#### 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

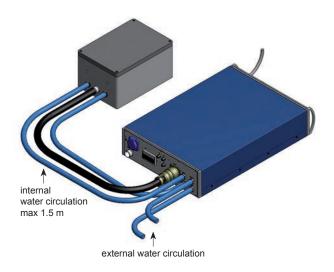
#### Remote control inputs

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

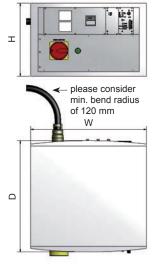
#### Remote control outputs

- · 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

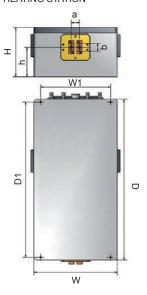
#### COOLING CIRCUIT CONNECTORS



#### **GENERATOR**



#### HEATING STATION



# Technical data TTH20/TTH25

Generator		
TTH20 HF-output	20 kW	
total input power	23 kVA	
TTH25 HF-output total input power	25 kW 28 kVA	
Power supply	3 x 400 V/N+PE 63A, 50-60 Hz	
Internal control voltage	230 V/N AC 50-60 Hz	
Amount of heating stations	1 (stationary)	
Power-on time	100% (= continuous operation)	
Frequency	70 kHz bis 450 kHz	
Housing	Tischgehäuse 7HE, 84TE HF-Ausführung	
Dimensions (W x H x D) with handles	550 x 350 x 530 mm	
Weight	approx. 45 kg	
Handing adding		
Heating station  Dimensions (W x H x D) without fan	310 x 180 x 600 mm	
Dimensions (W x H x D) with fan	330 x 180 x 610 mm	
Mounting holes (W1 x D1)	260 x 580 mm	
Connecting system induktor (a x b)	4 x M6, 50 x 30 mm	
Weight	approx. 48 kg	
Remote control		
Power supply	24V/100mA und 12V/100mA DC	
Inputs: Digital input coil energy transfers	24V DC	
Digital input external reset	24V DC	
External performance settings	0-10V bzw. 0-20mA DC	
Outputs (alternatively): Potential fee relay contacts OR	24V/1,25A AC/DC	
Photomos-outputs (high switching operation amounts)	24V/0,25A AC/DC	
Outputs for generator conditions	<ul><li>standby-state</li><li>power transmission to inductor</li></ul>	
	• error state	
Water demand		
Water quality	Drinking water or cleaned filtered industrial water (no deionised	
Traces quanty	or destilled water)	
Water hardness	max. 8 German degrees of hardness	
Water connection	1 x flow, 1 x return	
Water connection flow & return	1/2" hose clip, tube di = 12 mm	
Pressure difference	4 – 6 bar	
Supply temperature	18°C – 25°C (max. 30°C)	
TTH20 rate of flow generator	approx. 5 l/min	
switchpoint of waterflow generator rate of flow inductor	approx. 4 l/min approx. 6 l/min	
switchpoint of waterflow inductor	approx. 4 I/min	
TTH25 rate of flow generator	approx. 6 l/min	
switchpoint of waterflow generator rate of flow inductor	approx. 4 l/min	
switchpoint of waterflow inductor	approx. 7 l/min approx. 4 l/min	

## Article numbers and accessory list

ORDER NUMBER	ARTICLE DESCRIPTION	DESCRIPTION
Induction heating	g unit – stationary design	
IND0028	TTH20	contiuous operation 100% with output power 20kW
IND0029	TTH25	contiuous operation 100% with output power 25kW
Accesories		
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
IND0253e	HUB TTH20-TTH25 e	automatic lifting device for heating station TTH20 / TTH25 electric powerd version
Inductor		
IND0300	Inductors	customer specific inductors
Optional: temper	rature 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 systems	
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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