



# CEMTEC®

<b>System components:</b>	CEMTEC probe with oven flap Local control box Coolant temp. control cabinet PLC cabinet Compressed air tank	
<b>Dimensions and weight:</b>	CEMTEC length	5630 mm
	CEMTEC width	1000 mm
	CEMTEC height	1800 mm (e-chain downwards)
	CEMTEC height	2500 mm (e-chain upwards)
	Probe Tube diameter	114,3 mm
	Probe insertion depth	Up to 3350 mm
	CEMTEC weight	700 kg
<b>Process conditions:</b>	Dust load:	up to 2000g/m <sup>3</sup>
	Temperature:	≤ 1400°C
<b>IP rating:</b>	CEMTEC probe	IP 65
	Local control box	IP 65
	Coolant temp. control cabinet	IP 55 (optional IP 65)
	PLC cabinet	IP 54 ( e-room installation only, others on request )
<b>Probe material:</b>	.4571, 316 Ti (Other on request)	
<b>Probe cooling method:</b>	water / water or air / water	
<b>Probe cooling – customer supply:</b>	<b>For tube bundle re-cooler</b> Cooling water supply by client additional data needed  <b>For CEMTEC closed cooling circuit</b> De-mineralized water + 25 % TYFOCOR® L (frost protection up to -20 °C)	
<b>Probe cooling capability:</b>	Water / coolant cooling capacity 160 kW Air / coolant cooling capacity 170 kW	
<b>Compressed air supply:</b>	7-9,5 bar Quality [5:4:3] dew point <-20°C	

<b>Pneumatic drives:</b>	Probe insertion / retraction Probe rotation Probe plunger movement
<b>Power supply:</b>	<b>With tube bundle re-cooler</b> 380VAC – 560 VAC 50/60 HZ / Output min. max. 2000 VA  <b>with air /coolant re-cooler</b> max. 9500 VA +/- 10 %  (others on request)
<b>Gas analysis (If ordered):</b>	<b>In-situ measurement</b> O <sub>2</sub> oder O <sub>2</sub> /CO <sub>e</sub>  <b>Extractive measurement</b> SO <sub>2</sub> , NO <sub>x</sub> , CO <sub>2</sub> etc. <b>(others on request)</b>
<b>O<sub>2</sub> / CO<sub>e</sub> in situ measurement (optional):</b>	0-2% O <sub>2</sub> to 0-25% O <sub>2</sub> 0-500 ppm CO <sub>e</sub> to 0-10.000 ppm CO <sub>e</sub>
<b>Customer Signals:</b>	Hardwired via potential Free Contacts and ModbusTCP / Profinet
<b>T90-time in situ measurement:</b>	approx. 5 sec. on test gas
<b>Ambient temperature:</b>	- 20 °C to + 50 °C (PLC control cabinet 0 °C to + 35 °C)