

















# Product Overview Sintering Furnaces





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Technical informationen		LHT 01/16 Turbo Fire	LHT 01/17 LB Speed	LHT 02/17 LB Speed
Possible sintering processes		Speed S	Speed + Classic	
Tmax in °C		1600	1650	1650
Shortest heating time in min from 20 °C up to 1500 °C		12,5	40	90
Max. heating rate in °C/min from 20 °C up to 1000 °C		220	60	20
Max. heating rate in °C/min from 1000 °C up to 1500 °C		55	20	10
Shortest cooling time <sup>1</sup> in min from 1500 °C down to 750 °C		9	30	28
Shortest cooling time <sup>1</sup> in min from 1500 °C down to 300 °C		25	86	107
Shortest process time in min		21,5 <sup>3</sup>	156 <sup>2</sup>	227 <sup>2</sup>
Energy consumption at shortest process time in kWh		0,5	1,3	4,3
Heating element type		Molybdenum disilicide		
Max. charging level (number of sintering saggars)				
Max. load (crowns)		5	30	75
Number of programs		50	50	50

<sup>1</sup>Cooling by stepwise opening from 1100 °C and full opening below 750 °C. For models with flap door, with air inlet fully open

<sup>2</sup>Process description: sintering temperature 1500 °C, 30 min holding time with an empty sintering sagger as load, and cooling down to 300 °C

	LHT 01/17 D	LHT 03/17 D	LHTCT 01/16	LHTCT 03/16
	Classic			
Tmax in °C	1650	1650	1550	1550
Shortest heating time in min from 20 °C up to 1500 °C	49	80	30	35
Max. heating rate in °C/min from 20 °C up to 1000 °C	30	20	100	85
Max. heating rate in °C/min from 1000 °C up to 1500 °C	10	10	25	20
Shortest cooling time <sup>1</sup> in min from 1500 °C down to 750 °C	-	-	-	-
Shortest cooling time <sup>1</sup> in min from 1500 °C down to 300 °C	198	165	110	145
Shortest process time in min	277 <sup>2</sup>	275 <sup>2</sup>	170 <sup>2</sup>	210 <sup>2</sup>
Energy consumption at shortest process time in kWh	1,9	3,8	1,8	3,1
Heating element type	Molybdenum disilicide		SiC	
Max. charging level (number of sintering saggars)				
Max. load (crowns)	30	75	30	60
Number of programs	50	50	10	10

<sup>3</sup>Process description: sintering temperature 1500 °C, no holding time with an empty sintering sagger as load, and cooling down to 750 °C