

## Working Tubes



Various working tubes as option

There are various working tubes available, depending on application and temperatures. The technical specifications of the different working tubes are presented in the following table:

Material	Tube outside Ø mm	Max. heat-up ramp K/h	Tmax in air* °C	Tmax in vacuum operation °C	Gas tight
C 530 (Sillimantint) <sup>1</sup>	< 120	unlimited	1300	not possible	no
	from 120	200			
C 610 (Pythagoras) <sup>1</sup>	< 120	300	1400	1200	yes
	from 120	200			
C 799 (99.7 % Al <sub>2</sub> O <sub>3</sub> ) <sup>1</sup>	< 120	300	1800	1400	yes
	from 120	200			
Quartz glass	all	unlimited	1100	950	yes
CrFeAl-Alloy	all	unlimited	1300	1100	yes

\*The max. allowed temperature might be reduced operating under aggressive atmospheres

<sup>1</sup>Tolerances with respect to form and position acc. to DIN 40680

## Working Tubes for Rotary Tube Furnaces: Standard (●) and Options (○)

Measurements outer Ø x inner Ø x length	Article No. <sup>1</sup>		Rotary tube furnace, continuous operation					Batch operation										
	work tube	spare tube	RSRC					RSRB										
			1100 °C		1300 °C			1100 °C										
			80-500	80-750	120-500	120-750	120-1000	80-500	80-750	120-500	120-750	120-1000	80-500	80-750	120-500	120-750	120-1000	
<b>Ceramic tube C 530</b>																		
80 x 65 x 1540 mm	601405318	691404536	○					●										
80 x 65 x 1790 mm	601405319	691404537		○		○			●		○							
80 x 65 x 2040 mm	601404701	691404538					○					○						
110 x 95 x 1540 mm	601405320	691404539			○					●								
110 x 95 x 1790 mm	601405321	691403376				○					●							
110 x 95 x 2040 mm	601405322	691404540					○					●						
<b>Ceramic tube C 610</b>																		
80 x 65 x 1540 mm	601405313	691404541	○					○										
80 x 65 x 1790 mm	601405314	691404542		○		○			○		○							
80 x 65 x 2040 mm	601404707	691404543					○					○						
110 x 95 x 1540 mm	601405315	691404544			○					○								
110 x 95 x 1790 mm	601405316	691404561				○					○							
110 x 95 x 2040 mm	601405317	691403437					○					○						
<b>Quartz glass tube</b>																		
76 x 70 x 1540 mm	601405308	691404545	●					○		○								
76 x 70 x 1790 mm	601405309	691404546		●		○			○		○							
76 x 70 x 2040 mm	601404713	691404547					○					○						
106 x 100 x 1540 mm	601405310	691403519			●					○								
106 x 100 x 1790 mm	601405311	691403305				●					○							
106 x 100 x 2040 mm	601405312	691404548					●					○						
<b>Quartz glass tube with pimple</b>																		
76 x 70 x 1540 mm	601405301	691404549	○					○										
76 x 70 x 1790 mm	601405304	691404550		○		○			○		○							
76 x 70 x 2040 mm	601404719	691404551					○					○						
106 x 100 x 1540 mm	601405305	691404552			○					○								
106 x 100 x 1790 mm	601405306	691403442				○					○							
106 x 100 x 2040 mm	601405307	691404553					○					○						
<b>CrFeAl-Alloy</b>																		
75 x 66 x 1540 mm	601405296	691405357	○		○			○		○								
75 x 66 x 1790 mm	601405297	691405231		○	○				○		○							
109 x 99 x 1540 mm	601405298	691403682			○					○								
109 x 99 x 1790 mm	601405299	691403607				○					○							
109 x 99 x 2040 mm	601405300	691405122					○					○						
<b>Quartz glass reactor</b>																		
76 x 70 x 1140 mm	601402746	691402548											●		○			
76 x 70 x 1390 mm	601402747	691402272												●		○		
106 x 100 x 1140 mm	601402748	691402629													●		○	
106 x 100 x 1390 mm	601402749	691402638														●		
<b>Quartz glass reactor with pimples</b>																		
76 x 70 x 1140 mm	601404723	691402804											○		○			
76 x 70 x 1390 mm	601404724	691403429												○		○		
106 x 100 x 1140 mm	601404725	691403355													○		○	
106 x 100 x 1390 mm	601404726	691403296														○		○
<b>Quartz glass mixing reactor</b>																		
76 x 70 x 1140 mm	601404727	691403407											○					
76 x 70 x 1390 mm	601404728	691404554												○				
106 x 100 x 1140 mm	601404732	691404557													○			
106 x 100 x 1390 mm	601404733	691404558														○		

● Standard working tube

○ Working tube available as an option

<sup>1</sup>Tubes/reactors incl. mounted sleeves for connection to the rotary drive. Spare tubes come without sleeves.

