

Working Tubes

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 in mm	Max. heat-up ramp in K/h	Tmax in air ³ in °C	Tmax in vacuum operation in °C	Gas tight
C 530 (Sillimantin) ¹	< 120 from 120	unlimited 200	1300	not possible	no
C 610 (Pythagoras) ¹	< 120 from 120	300 200	1400	1200	yes
C 799 (Alsint 99.7 %) ¹	< 120 from 120	300 200	1800	1400	yes
Quartz glass ²	all	unlimited	1100	950	yes
FeCrAl-Alloy ² (APM)	all	unlimited	1300	1100	yes

¹Tolerances with respect to form and position acc. to DIN 40680

²All dimensions are nominal dimensions, tolerances on request

³The max. allowed temperature might be reduced operating under aggressive atmospheres

Various working tubes as option

Measurements outer Ø x inner Ø x length	Article No. ⁴		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
Ceramic tube C 530																	
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					○					●					
Ceramic tube C 610																	
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					○					○					
Quartz glass tube																	
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					●					○					
Quartz glass tube with pimple																	
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					○					○					
CrFeAl-Alloy																	
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					○					○					
Quartz glass reactor																	
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													●		
106 x 100 x 1640 mm	600048571	600032705														●	
Quartz glass reactor with pimples																	
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													○		
Quartz glass mixing reactor																	
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

⁴Tubes/reactors incl. mounted sleeves for connection to the rotary drive. Spare tubes come without sleeves.

