

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 (Sillimantini) 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 work tube spare tube		Rotary tube furnace, continuous operation										Batch operation				
			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	6000058702	691404536	○							●							
80 x 65 x 1790 mm	6000058701	691404537		○		○				●							
80 x 65 x 2040 mm	6000058700	691404538				○								○			
110 x 95 x 1540 mm	6000058704	691404539			○						●						
110 x 95 x 1790 mm	6000058703	691403376				○						●					
110 x 95 x 2040 mm	6000058216	691404540							○				●				
Ceramic tube C 610																	
80 x 65 x 1540 mm	6000058707	691404541	○						○								
80 x 65 x 1790 mm	6000058706	691404542		○		○				○							
80 x 65 x 2040 mm	6000058705	691404543				○								○			
110 x 95 x 1540 mm	6000058709	691404544			○						○						
110 x 95 x 1790 mm	6000058708	691404561				○						○					
110 x 95 x 2040 mm	6000052969	691403437							○					○			
Quartz glass tube																	
76 x 70 x 1540 mm	6000058947	691404545	●						○		○						
76 x 70 x 1790 mm	6000054644	691404546		●		○				○		○					
76 x 70 x 2040 mm	6000058946	691404547												○			
106 x 100 x 1540 mm	6000058949	691403519			●						○						
106 x 100 x 1790 mm	6000058948	691403305				●						○					
106 x 100 x 2040 mm	6000030741	691404548							●					○			
Quartz glass tube with pimple																	
76 x 70 x 1540 mm	6000058953	691404549	○						○								
76 x 70 x 1790 mm	6000058952	691404550		○		○				○		○					
76 x 70 x 2040 mm	6000058951	691404551												○			
106 x 100 x 1540 mm	6000058956	691404552			○						○						
106 x 100 x 1790 mm	6000058955	691403442				○						○					
106 x 100 x 2040 mm	6000058954	691404553							○					○			
CrFeAl-Alloy																	
75 x 66 x 1540 mm	6000058737	691405357	○		○				○		○						
75 x 66 x 1790 mm	6000054666	691405231		○		○				○		○					
109 x 99 x 1540 mm	6000058739	691403682			○						○						
109 x 99 x 1790 mm	6000058738	691403607				○						○					
109 x 99 x 2040 mm	6000030743	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.

Working tube outer Ø x inner Ø x length	Article No.	Model																	
		R					RS				RHTC			RHTH			RHTV		
		50-250	50-500	120-500	170-750	170-1000	50/250	120/500	170/750	170/1000	80-230	80-450	80-710	50-150	80-300	120-600	50-150	80-300	120-600
C 530																			
40 x 30 x 450 mm	692070274	○																	
40 x 30 x 700 mm	692070276		○	○															
50 x 40 x 450 mm	692070275	●					●												
50 x 40 x 700 mm	692070277		●	○															
50 x 40 x 850 mm	6000173488						○												
60 x 50 x 850 mm	692070305			○															
60 x 50 x 1100 mm	692070101				○														
80 x 70 x 850 mm	692070108			○			○												
80 x 70 x 1100 mm	692070109				○			○											
120 x 100 x 850 mm	692070110			●			●												
120 x 100 x 1100 mm	692070111				○			○											
120 x 100 x 1350 mm	692070131					○			○										
170 x 150 x 1100 mm	692071659				●			●											
170 x 150 x 1350 mm	692071660					●			●										
Vacuum tube¹ C 610																			
50 x 40 x 650 mm	692070207	○					●												
50 x 40 x 900 mm	691405352		○																
50 x 40 x 1230 mm	6000173486							○											
60 x 50 x 1230 mm	692070180			○				○											
60 x 50 x 1480 mm	692070181				○														
80 x 70 x 1230 mm	692070182			○				○											
80 x 70 x 1480 mm	692070183				○				○										
120 x 100 x 1230 mm	692070184			○				●											
120 x 100 x 1480 mm	692070185				○				○										
120 x 100 x 1730 mm	692070186					○				○									
170 x 150 x 1480 mm	692070187				○				●										
170 x 150 x 1730 mm	692070188					○				●									
C 799																			
50 x 40 x 380 mm	692071664												●				●		
50 x 40 x 450 mm	691403622	○																	
50 x 40 x 530 mm	692071665													○				○	
50 x 40 x 690 mm	692071714		○																
50 x 40 x 830 mm	692070163														○				○
80 x 70 x 530 mm	692071669																		
80 x 70 x 600 mm	692070600									●									
80 x 70 x 830 mm	692071670										●				○				○
80 x 70 x 1080 mm	692071647											●							
120 x 105 x 830 mm	692071713														●				●
Vacuum tube¹ C 799																			
50 x 40 x 990 mm	692070149												○				○		
50 x 40 x 1140 mm	692070176													○				○	
50 x 40 x 1440 mm	692070177														○				○
80 x 70 x 990 mm	692070190									○									○
80 x 70 x 1140 mm	692070148																		○
80 x 70 x 1210 mm	692070191																		○
80 x 70 x 1470 mm	692070192																		○
80 x 70 x 1440 mm	692070178																		○
120 x 105 x 1440 mm	692070147																		○
APM vacuum tube² with grinded ends																			
51 x 38 x 650 mm	691406358	●					●												
51 x 38 x 900 mm	691406359		●																
51 x 38 x 1230 mm	6000173484								○										
51 x 38 x 1480 mm	691406360									○									
51 x 38 x 1730 mm	691406361					○													○
60 x 52 x 1230 mm	691406362			○					○										
60 x 52 x 1480 mm	691406363				○					○									
60 x 52 x 1730 mm	691406364					○													○
75 x 66 x 1230 mm	691406206			○						○									
75 x 66 x 1480 mm	691406365				○						○								
75 x 66 x 1730 mm	691406366					○													○
115 x 104 x 1230 mm	691406367			●					●										
115 x 104 x 1480 mm	691406325				○														○
115 x 104 x 1730 mm	691406368					○													○
164 x 152 x 1480 mm	691406369				●				●										
164 x 152 x 1730 mm	691406370					●			●										
Vacuum quartz glass tube																			
50 x 40 x 650 mm	691403182	○					●												
50 x 40 x 900 mm	691406024		○																
50 x 40 x 1230 mm	6000173487								○										
60 x 54 x 1030 mm	691404422																		
60 x 54 x 1230 mm	691404423			○															
60 x 54 x 1480 mm	691404424				○														
80 x 74 x 1230 mm	691404425			○					○										
80 x 74 x 1480 mm	691404426				○					○									
120 x 114 x 1230 mm	691404427			○					●										
120 x 114 x 1480 mm	691404428				○														○
120 x 114 x 1730 mm	691404429					○													○
170 x 162 x 1480 mm	691404430				○				●										
170 x 162 x 1730 mm	691404431					○				●									

● Standard working tube
○ Working tube available as an option

¹With ground tube ends for connection of water-cooled flanges
²With attached holder for gas tight flange