

M-121 Basic Quench Microreactor

Technical Specifications

Microreactor

The basic quench microreactor is suited for general two-component chemical reactions, mixing and quenching. The basic quench microreactor is compatible with the *FlowStart* and *FlowScreen* and is supplied in a green cartridge for easy handling. This microreactor type consist of three inlets and a long channel compartment. The addition of a third inlet after the long channel compartment enables you to quench the reaction that takes place inside the microreactor.

Channel Lay-out

The channel layout is shown in Figure 1. The basic quench microreactor consist of three inlets. Two inlets are located on the left side of the microreactor, the third inlet and outlet are situated at the right side. Please note that the channels in this drawing are schematic in two dimensions; the actual channel geometry is in three dimensions and cannot be represented by this scheme.



Figure 1: Schematic view Basic Quench Microreactor channel lay-out

Specifications

M-121 Basic Quench Microreactor	
Outer dimensions	45.3 x 15.3 x 2.2 mm
Material	Borosilicate glass
Top diameter hole	300 μm
Bottom diameter hole	1170 μm
Channel width (maximum)	600 μm
Channel depth	500 μm
Effective reaction volume	92 μL