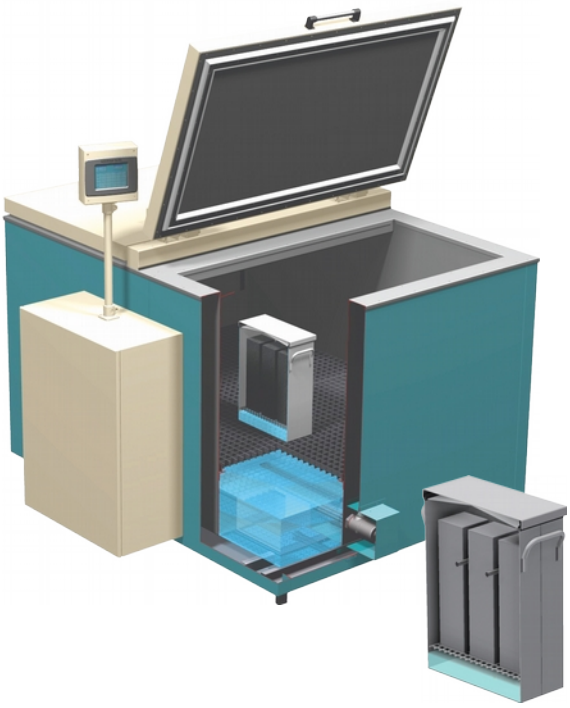
Schleibinger ASR Reactor

determination of the potential Alkali-Silica Reactivity

Alkali-Silica Reaction (ASR) is a reaction in concrete between the alkali hydroxides and certain types of aggregate. Expansion processes due to ASR are of high importance in regards on cracking formation and thus on durability of infrastructure. For ensuring durable construction accelerated testing at 60 °C according to RILEM AAR-4 recommendations and the French standard NF P 18454 has been developed.

ASR Reactor from Schleibinger is a high quality temperature-controlled chest for mineral building materials.

Testing setup



The samples will be placed into the sample container and stored in the ASR Reactor. The temperature inside the Reactor can be set very precisely in the range of room temperature to 60 °C. In addition, ASR reactor can be used as a fog chamber due to the optional fog generation system, which is recommended for the storage conditions at lower termperatures such as 38 °C or 40 °C.

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Features

- temperature adjustment in the range of room temperature to +60 °C
- incl. data logger with network interface
- continuously data recording of the temperature
- optional available fog generating system

Technical specifications*:

dimension (w x d x h)	183 cm x 158 cm x 120 cm
weight at empty condition	approx. 460 kg
inner dimensions (l x w x d)	150 cm x 110 cm x 95 cm
temperature range	room temperature to +60 °C
water volume	approx. 280 l
mains	400 V, 3 PH+N+PE, 50 Hz (optional 60 Hz)
power consumption	max. 12.5 kW
environmental conditions	+5 … +30 °C, rel. humidity max. 65 %

Order information:

K001	ASR Reactor Test Equipment
K002	ASR specimen container for 3 samples
K003	ASR fog generating system
K0113	ASR specimen mould, stainless steel
S0111	Measuring frame with digital gauge
S0115	Reference anchor for the ASR specimen

Please contact us for further information or visit our home page:

www.schleibinger.com

Schleibinger Geräte
Building Materials Testing Systems

*Changes are reserved for technical progress.

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