

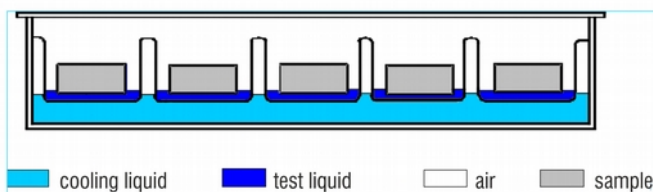
CDF/CIF – Freeze-Thaw Testing Equipment

The CDF/CIF-Freeze-Thaw Testing Equipment (CDF machine) is a high-quality testing device for carrying out freeze-thaw resistance tests on building materials. It is equipped with a micro-processor controller including internet interface. All relevant safety regulations for refrigeration and electrics have taken into account.

CDF machine enables the implementation of the freeze-thaw resistance tests according to RILEM Recommendation for CDF/CIF tests, CEN/TS 12390-9, CEN/TR 15177, ASTM C666 Procedure A and other standards.



Testing setup



The specimen containers with the samples are suspended in a bath with heat-transfer liquid. This arrangement enables an optimal temperature distribution, a fast temperature adjustment and a temperature gradient perpendicular to the tested surface. Due to the optimal thermal contact, the temperature can be maintained very accurately over the entire temperature curve.

Features

- automatic freezing and thawing according to temperature profile
- temperature profile freely programmable
- incl. data logger with network interface
- with environmental friendly refrigerant – no annual leak test is required (accord. to EU 517-2014)
- continuously data recording of the temperature
- cooling by air or optional combined by air and water
- optional with higher heat power to perform the cube test according to CEN/TS 12390-9 or test according to ASTM C666 procedure A.

Technical specifications*:

dimension (w x d x h)	225 cm x 95 cm x 120 cm
weight at empty condition	approx. 560 kg
inner dimensions of the bath (l x w x d)	170 cm x 51 cm x 20 cm
temperature range	-20 °C ... +20 °C
temperature control	indirectly via cooling liquid
cooling liquid	mixture of ethylene glycol and water
volume of cooling liquid	approx. 100 l
refrigerant	R448a
mains	400 V, 3 PH+N+PE, 50 Hz (optional 60 Hz)
protection	IP20
power consumption	max. 10.5 kW
environmental conditions	+5 ... +28 °C, rel. humidity max. 65 %

Order information:

C0001	CDF Test Equipment
C0005	combined air and water cooling
C0124	option ASTM and cube test (VDZ test)
C0031	glycol coolant
C0061	refractometer
GN-B 1/2	GN test container
C0114	VDZ test container
C0665B	ASTM test container

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*Changes are reserved for technical progress.

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