

Operator Safety

Medium Voltage Switchgear



BasisBlock MC3 with the graduated system for triple operator safety

Stage 1: Arc deflector

Stage 2: Arc absorber

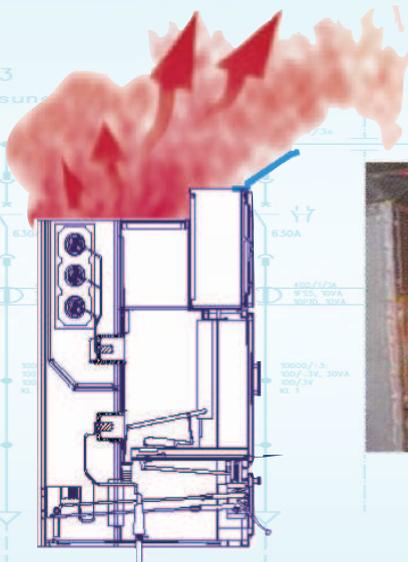
Stage 3: Exhaust channel

Anyone who has experienced an internal arc test knows what affect the release of a high electrical power supply output during the ignition phase of 1 s has: air is converted to a gas with a temperature of about 4000° C. It is „enriched“ with combustion and vaporisation residue from copper, steel and cast resin.

But where does this explosively emerging mixture (which is expelled upwards via the pressure reliefchannels into the switch room) spend itself? Leukhardt offers a concept of graduated operator safety to deal with this problem.

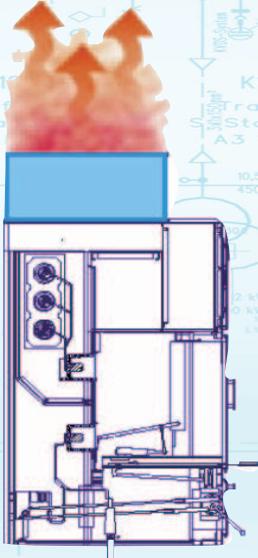
Stage 1: Arc deflector

The gas mixture is directed to the top at an angle by an arc deflector.



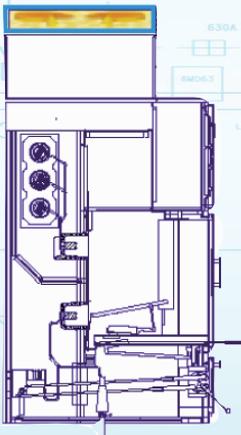
Stage 2: *Arc absorber*

The arc absorber is fitted to the top of the switchpanel, directly above the discharge openings of the three pressure relief channels. The absorber (which Leukhardt has registered, pending a patent) cools the gas (approx. temperature 4000° C) down. Pressure is reduced dramatically and the emission of dirt particles and smoke is diminished by about 15 %.



Stage 3: *Exhaust channel*

The residual gas conveys into a horizontal exhaust channel. This exhaust channel is connected to the arc absorber with a flange. This channel conveys the combustion by-products directly to the open air.



Our Company

SWITCH TO SAFETY:

Practice, knowledge and experience for our customers

Leukhardt began back in the 1950s with the extension of transformer stations and the manufacture of switchgear for medium and low voltage applications.

Nothing has stamped its mark on our development more deeply than the ideas of quality and safety. They provide the orientation for our innovations.

The skill and knowledge of our specialist engineers are the basis for efficient solutions and for a very flexible approach to handling projects.



Head office Immendingen



Leukhardt Schaltanlagen GmbH

Im Gewerbepark 10

D-78194 Immendingen

Phone: +49 7462 945 61 - 0

Fax: +49 7462 945 61 - 6166

www.leukhardt.de

info@leukhardt.de

Leukhardt Schaltanlagen GmbH

Tett nang Office

Im Leimen 16

D-88069 Tett nang

Phone: +49 7542 946 95-0

Fax: +49 7542 946 95-55

ingo.fuerbach@leukhardt.de

Leukhardt Schaltanlagen Systemtechnik GmbH

Hagenower Strasse 73

D-19061 Schwerin

Phone: +49 385 399 3561

Fax: +49 385 399 3569

Gustav-Ricker-Strasse 62

D-39120 Magdeburg

Phone: +49 391 626 962 - 0

Fax: +49 391 626 962 - 9

jens.schoenrock@leukhardt.de