# **ROLEC Gehäuse-Systeme GmbH**

## Information concerning system of protection IP69K

Testing criteria for system of protection IP69K according to DIN 40050-9:1993

### Test conditions for 1st Characteristic number (6)

Vacuum test with dust/air mixture

Vacuum  $\leq$  2kPa (20mbar)

Testing time 8 h

Testing dust 50% lime powder and 50% flue dust

Grain size distribution 33 weight percentage ≤ 32µm

67 weight percentage > 32µm, but ≤ 250µm

#### Test conditions for 2<sup>nd</sup> Characteristic number (9K)

System of protection test against penetration of water

Testing device high pressure water jet / fan nozzle

Spraying angle 0°-30°-60°-90°

Distance 100 - 150mm - on turntable - rpm (5 ±1) 1/min

14 – 16l/min ± 5% 8000 – 10000 kPa Water flow

Water pressure 8000 - 10000 kPa (80 - 100bar)

Water temperature 80°±5°C

Testing time 30 sec. for every position

#### Definition of the first characteristic number (6)

Characteristic number	Short description	Definition
6	Dust tight	No dust penetration

#### Definition of the second characteristic number (9K)

Characteristic number	Short description	Definition
9К	Protected against water penetration during cleansing with high pressure jet / steam jet	A water jet being squirted from any direction under very high pressure against the enclosure may cause no damage.

