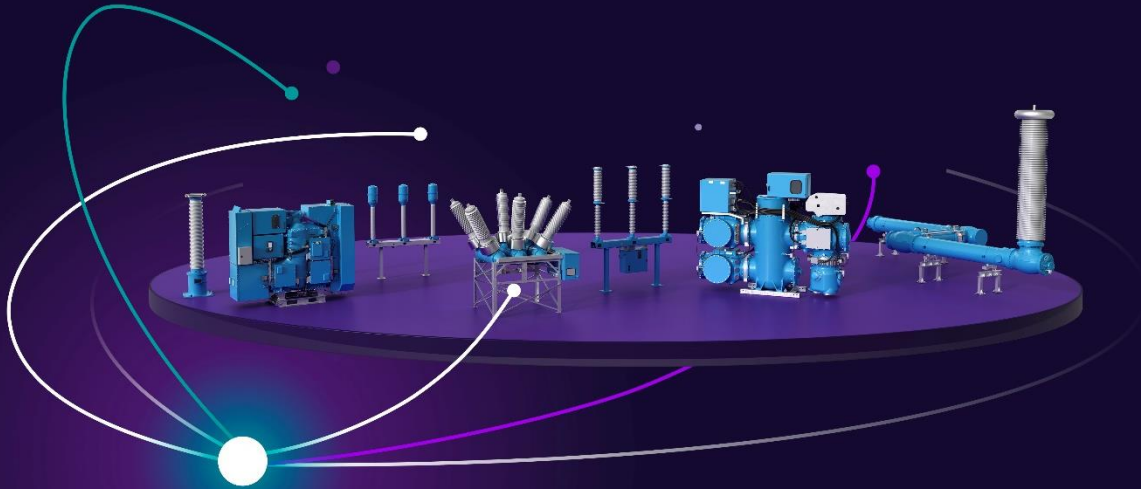


# 8VQ3 Blue Gas- Insulated Busducts

New member of our Blue portfolio:  
insulation up to 420 kV with Zero CO<sub>2</sub>e  
emissions and Zero harm

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## The urgent need to achieve Zero everywhere

Renewable energy sources are only part of the solution as we aim for the decarbonization of the energy sector. It's essential that we achieve Zero Global Warming Potential (GWP) in the transmission of power as well as in its generation.

Most switchgear still use SF<sub>6</sub> for insulation – a gas 25,200 times more climate-hostile than CO<sub>2</sub>, and one which stays in the atmosphere for up to 3,200 years.

By contrast, our Blue portfolio, including the 8VQ3 gas-insulated busducts, uses Zero fluorinated gases of any kind and has Zero harmful impact on the environment.

## Zero SF<sub>6</sub>, Zero greenhouse gases – just clean air

The only way to achieve zero GWP and Zero toxicity is by using clean air. The 8VQ3 Blue gas-insulated busducts operate with clean air insulation, and thus with Zero harmful greenhouse gases of any kind, with Zero toxic decomposition products and Zero safety requirements during handling and maintenance.

The clean air used – consisting of 80% nitrogen and 20% oxygen, cleaned and free of humidity – can be released into the atmosphere with Zero harmful effects to people or the environment.

At the same time, it maintains the highest standards of technical performance and reliability, together with low lifecycle costs. No specially trained personnel is needed for the transport, handling, or operation of the clean air GIB up to 420 kV.

## Essential facts and features

### Zero environmental impact

- Zero SF<sub>6</sub> and other F-gases
- Zero greenhouse gas emissions
- Zero GWP

### Zero regulation

- Zero reporting and accounting of gases required
- Zero F-gas training needed
- Zero issues with current and potential legislation against F-gases

### Zero impact on health & safety

- Zero toxic insulation gases
- Zero toxic decomposition products
- Zero special safety measures needed during maintenance
- Zero regulations on handling of gas
- Zero disposal of gases required at end of life

### Zero compromise on performance and reliability

- Voltage levels up to 420 kV
- Perfect for low temperature applications without liquefaction of the insulating medium

## Technical data of 8VQ3 Blue GIB™

Rated voltage	up to 420 kV
Rated frequency	50/60 Hz
Rated short-duration power-frequency withstand voltage (1 min)	up to 650 kV
Rated lightning impulse withstand voltage (1.2 / 50 µs)	up to 1425 kV
Rated switching impulse withstand voltage (250 / 2500 µs)	up to 1050 kV
Rated normal current	up to 5000 A
Rated peak withstand current	up to 170 kA
Rated short-time withstand current (up to 3 s)	up to 63 kA
Leakage rate per year and gas compartment (type-tested)	< 0.1 %
Insulation medium	clean air
Weight of SF <sub>6</sub> or other fluorinated greenhouse gases	0 kg
Minimum pole distance	1200 mm
Ambient temperature range	-50 °C up to +55 °C
Installation	indoor / outdoor
First major inspection	> 25 years
Expected lifetime	> 50 years
Standards	IEC / IEEE

Other values on request

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