

ZX2 AirPlus

Eco-efficient gas-insulated switchgear

The ZX2 medium-voltage gas-insulated switchgear is now available with AirPlus™, offering a global warming potential (GWP) of less than 1 – yet keeping all advantages of the established ZX2 in the same compact size.

ZX2 AirPlus - Combining the eco-efficient insulation gas with the advantages of the reliable GIS design

The arc-proof ZX2 switchgear offers individual gas compartments for the circuit breaker and one or two busbar systems. The large low-voltage compartment offers space for all protection and control devices.

Key benefits of ZX2 AirPlus switchgear

- No SF₆ inside - AirPlus insulation gas has a global warming potential (GWP) < 1. This offers a climate-friendly alternative for users with a green focus.
- Compact - ZX2 AirPlus has the same compact dimensions as existing ZX2 using SF₆. This helps to save space and allows more feeders in limited rooms.
- Safe & Reliable - Sealed gas compartments protect from harsh ambient conditions and accidental access. This gives highest personnel safety and availability of your power supply.
- Low maintenance and cost - Gas compartments are maintenance-free for switchgear lifetime of 30 years or more. This reduces costs of ownership.

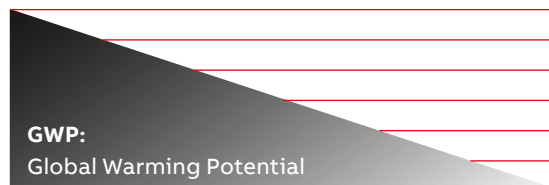


Reducing global warming potential by 99,99 %

With AirPlus the global warming potential of the insulation gas is reduced to less than 1 - a reduction of more than 99.99% compared to SF₆.

22,800 SF₆

AirPlus < 1



New gas in a known and reliable design

The new AirPlus insulation gas is available in a proven, safe and reliable switchgear design. Without increasing the filling pressure or adding solid-insulation material, the same compact GIS dimensions are maintained.

No climate impact – no regulations

SF₆-filled equipment is under reporting and inventory obligations. With AirPlus, these costly and time-consuming activities are no longer required.

ZX2 AirPlus - the eco-efficient alternative

ZX2 offering – choose your preferred solution

ZX2 switchgear is available in three different options, which allow you to select the insulation technology according to your own preference: with AirPlus, Ready-for-AirPlus or with SF₆.

The AirPlus technology is not replacing SF₆ as the insulation gas, but is an alternative and complement to ABB's GIS portfolio.

ZX2 AirPlus

AirPlus, with its GWP below 1, is the product of choice for businesses with an environmental sustainability focus.

ZX2 Ready-for-AirPlus

ZX2 Ready-for-AirPlus is the choice for businesses that want to be prepared to switch to the eco-efficient alternative in the future. This ZX2 is delivered with SF₆, but it is fully compatible and tested with AirPlus for a seamless future insulation gas replacement.

ZX2

The established ZX2 switchgear with SF₆ as the insulation gas is still available.

Technical data						
Panelwidth 600 mm and 800 mm	Rated voltage / maximum operating voltage	U _r	kV	12	24	36
	Rated power-frequency withstand voltage	U _d	kV	28	50	70
	Rated lightning impulse withstand voltage	U _p	kV	75	125	170
	Rated frequency	f _r	Hz		50	
	Rated normal current of busbars ¹⁾	I _r	A		...2000	
	Rated normal current	I _r	A		...2000	
	Rated short-time withstand current	I _k	kA		...31,5	
	Rated peak withstand current	I _p	kA		...80	
	Rated duration of short-circuit	t _k	s		...3	
Panelwidth 2 x 400 mm (Double feeder panel)	Rated voltage / maximum operating voltage	U _r	kV	12		24
	Rated power-frequency withstand voltage	U _d	kV	28		50
	Rated lightning impulse withstand voltage	U _p	kV	75		125
	Rated frequency	f _r	Hz		50	
	Rated normal current of busbars ¹⁾	I _r	A		...2000	
	Rated normal current	I _r	A		...630	
	Rated short-time withstand current	I _k	kA		...25	
	Rated peak withstand current	I _p	kA		...62.5	
	Rated duration of short-circuit	t _k	s		...3	

¹⁾ Higher currents on request

Configuration opportunities

Available panel widths are 400, 600 and 800 mm depending on rated currents.

Availability

The ZX2 AirPlus was first launched in Europe meeting IEC standards. The product range has now been extended to include also Chinese GB standards. If you are located in another region, please contact us for more information and availability in your market.