

Fuel Cell Air Supply



Type:		FCAS2	
Compressor type	Radial	Nominal voltage	400 V or 800 V
Coolant flow rate	10 l/min	Coolant inlet temperature	< 60 degC
Bearing type (oil free)	Aerodynamic bearings	Coolant flow rate	10 l/min
Max. continuous power (PMSM)	22 kW	Main dimensions (L x W x H)	220 x 190 x 190 mm
Cooling	Water/Glycol (50/50)	Weight	< 10.0 kg
Main dimensions with expander (L x W x H)	260 x 190 x 155 mm	Weight with expander	< 11,5 kg

- Compact and flexible design: Single-Stage / Dual-Stage / Expander-Stage
- High efficiency Permanent-Magnet-Synchronous-Machine (PMSM)
- Specification can be adapted to fit customer requirements
- Suitable for various applications
- Aerodynamic oil-free bearing system
- High speed, high power density electric motor

Pankl Turbosystems GmbH (PTSYS) located in Mannheim, Germany is a subsidiary of Pankl Racing Systems AG, Austria. PTSYS is a high-tech custom solution provider in the field of innovative electrified turbomachinery and air management solutions for automotive, aerospace and industrial applications. PTSYS' leading-edge electrified solutions are fitted with high-efficiency permanent magnet synchronous motors and integrated power electronics. Pankl Turbosystems GmbH's Fuel Cell Air Supply (FCAS) systems for next generation high-performance fuel cells from 30kW to over 300kW are recognized for their weight/size-to-performance ratio and are optimized for highly dynamic transient response and start-stop operation.