

Fuel Cell Air Supply



Key features

- Compact and flexible design: Singe-Stage / Dual-Stage / Expander-Stage
- High efficiency Permanent-Magnet-Synchronous-Machine (PMSM)
- Wide operating range
- Specification can be adapted to fit customer requirements
- Suitable for various applications
- Liquid cooling
- Aerodynamic oil-free bearing system
- High speed, high power density electric motor
- CAN 2.0 interface
- IP67 enclosure

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.

email: sales-turbo@pankl.com www.pankl-turbosystems.com

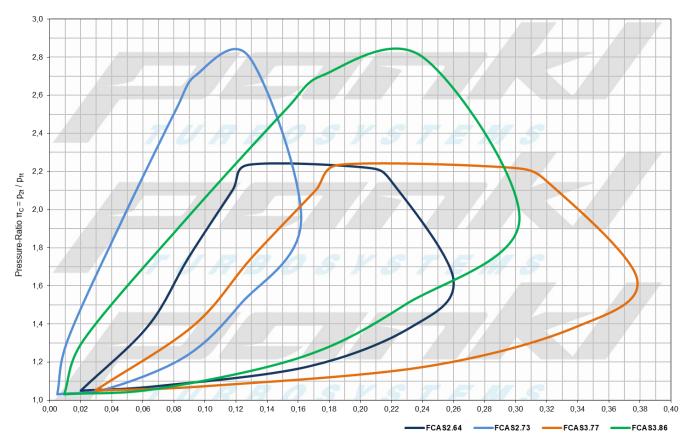




Fuel Cell Air Supply

| Туре | FCAS2 | FCAS3 |
|-------------------------|-------|-------|
| Nominal voltage: 400V | • | • |
| Nominal voltage: 800V | • | • |
| 22 kW PMSM | • | |
| 35 kW PMSM | | • |
| Single-Compressor Stage | • | • |
| Dual-Compressor Stage | • | • |
| Expander Stage | • | • |
| Extern inverter | • | • |

Pankl reserves the right to change specification without notice. The data may change according to the configuration



Corrected Mass Flow - Rate $\dot{m}_{\text{C,corr}} = \dot{m}_{\text{C}} \cdot \sqrt{T_{1t}/T_{\text{ref}}} \cdot p_{\text{ref}}/p_{1t}$ in kg/s

email: sales-turbo@pankl.com www.pankl-turbosystems.com