

COMPRESSOR EMTC(T)-90K GEN5

THE STEP INTO THE FUTURE

The new Generation 5 of our 90k platform is the step into the future for reliable and efficient cathode ventilation for fuel cells 140-260KW! Also this new compressor system is based on the proven and patented technology of the FISCHER Fuel Cell Compressor AG. The result of the consequent continued development can be seen in:

- Series tool components designed for large quantities
- Consequent design-to-cost approach
- Higher robustness
- Increased lifetime
- Significant increase in performance
- Improvement of efficiency

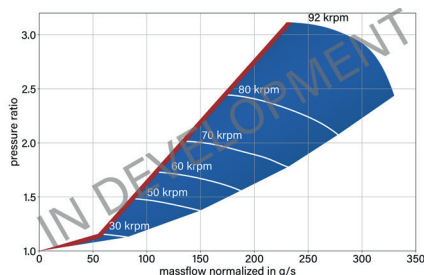
The market launch will take place in the second half of 2023 with customer integration.



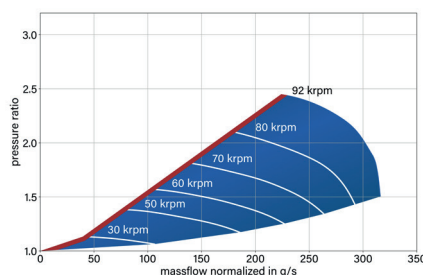
Structure Version	EMTCT / EMTC / EMTCC
Medium	Filtered Air
Bearing	Aerodynamic Bearing (Spiral Groove Bearing)
Air Supply Bearing	Not necessary
Motor	Synchronous Electric Motor
Continuous Motor Power	32kW
IP Class	IP6k9k/IP67
High Voltage Supply (Full Power)	450-750VDC
Low Voltage Supply	8-36VDC
Speed Range	20'000-92'000rpm

Acceleration (t90 Time)	3.5s
Inlet Air Temperature	-40 to 50°C
Inlet Air Pressure	0.60 to 1.10 bara
Cooling Mode	Water Cooling (Water/Glycol 50/50%)
Cooling Temperature	-30 to 70°C
Coolant Volume Flow	10 l/min
Compressor Weight Compressor	<18kg
Dimension	ø260mm, Length 392mm
Inverter	SiC Technology
Communication	CAN 2.0B

EMTCT



EMTC



FISCHER reserves the right to change specifications and design without notice. The data change depending on the configuration.