

# CO<sub>2</sub> Free Air Generators

for FT-IR & TOC Applications



The Parker Zander K-MT-LAB CO<sub>2</sub> removal purifier employs, robust, field proven technology to produce ultra high purity CO<sub>2</sub> free air for critical FT-IR and TOC purge applications. Flow rates range from 1.5 L/min to 100 L/min, with purities <1 ppm residual CO<sub>2</sub> and <0.003 ppm residual hydrocarbons.

The K-MT-LAB CO<sub>2</sub> removal purifiers provide a continuous stream of ultra high purity CO<sub>2</sub> free air from a single compact system. K-MT-LAB systems employ both upstream and downstream filtration to safeguard your analytical workflow.

Innovative design and technology facilitate maximum instrument uptime, attractive return on investment and proven analytical performance eliminating the need for other modes of supply.



## Product Features:

- **Complete compact and modular design for critical applications**
- **Produces a continuous supply CO<sub>2</sub> free air 24 hours a day**
- **Ultra high purity reduces signal/noise ratio, improving analytical performance**
- **Protects delicate optic surfaces and air bearings against moisture**
- **Eliminate inconvenient and potentially dangerous synthetic air cylinders**
- **Compact, reliable with minimal operator attention and maintenance**

## Technical Data

Cleanroom air generator K-MT-LAB	K-MTLAB 1	K-MTLAB 3	K-MTLAB 6
Outlet flow rate	1.5 NI/min	20 NI/min	100 NI/min
Regeneration gas volume	10 NI/min	36 NI/min	75 NI/min
Inlet flow rate	11.5 NI/min	56 NI/min	175 NI/min
Inlet temperature	+ 5°C to + 30°C		
CO <sub>2</sub> outlet concentration	< 1 ppm at max. 380 ppm at the inlet		
Residual hydrocarbons	< 0.003 ppm		
Particle separation	0.01 µm		
Pressure dewpoint	up to - 70°C		
Operating pressure	5 barü		
Initial differential pressure incl. filtration	300 mbar		
Connections	G 1/4"	G 1/4"	G 3/8"

## Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
K-MTLAB1	401	15.8	372	14.6	210	8.2	14	30.8
K-MTLAB3	827	32.5	429	16.8	210	8.2	20	44
K-MTLAB6	1185	46.6	580	22.8	300	11.8	54	119

## Preventative Maintenance

Preventative Maintenance Kit	Part Number	Change Frequency
Filter cartridges, condensate drain, silencer, reset module	KM 18 LAB 1-3	18 months
	KM 18 LAB 6	
Filter cartridges, condensate drain, silencer, main valves, seal set, reset module	KM 36 LAB 1-3	36 months
	KM 36 LAB 6	
Desiccant pack, 2.0 kg of molecular filter granulate *	DESPAC 2 LAB	

## Optional Extra's

Description	Part Number	Required for
Installation kit	IK7572	Suitable for all FT-IR generators