

Portable Gas Conditioning System TGAK 3



The accurate analysis of gases in various locations requires a small and compact sample conditioning system. Installed in a rugged case the TGAK 3 features a complete system almost up to the same standard a stationary system provides.

In its basic version the system consists of a gas cooler with condensate vessel, a gas pump, filter, moisture detector and a flow meter with included needle valve. A version without pump is available as well.

Independent of the ambient temperature the gas is cooled down to +5°C and the dewpoint is therefore safely lower than the ambient and the moisture condenses. The electronics starts the pump not before the cooler has reached its working point. For the safety of the analyser the cooler is followed by a moisture sensor. This stops the pump in case of a sudden water slip.

The gas path's material may be chosen between a version for rather non corrosive gases and another with acid-resistant materials. This difference includes the filter element.

Concerning the condensate draining there's a choice between a condensate vessel with a cock or an integrated peristaltic pump with quick coupling.

Further options or variations may be available. Please contact us.

technical data

ambient temperature	+5..40°C ¹⁾	power supply	230 V, 50/60Hz or 115 V, 50/60Hz
outlet dew point	+5 ±1°C	power connection	2,5m cable with connector
dew point stability statically over whole range	0,1K ±1K	power consumption	max. 250 VA
inlet dew point max	60°C ¹⁾	ready for operation after	max. 10 min.
inlet gas temperature	110°C ¹⁾	dimensions (without pipe)(HxWxD)	appr. 510x355x270
gas flow standard version	appr. 10..max.110 l/h ¹⁾	weight of standard version	appr. 16 kg
acid-resistant version	appr. 10..max.110 l/h		
gas terminals	quick coupling	condensate draining condensate vessel peristaltic pump	cock quick coupling
rel. pressure max. only CSP4xxxx	0 bar 1 bar		
cooling capacity (at 25°C) ¹⁾	80 kJ/h		

Under restriction of the available cooling power. See the PKE 4 data sheet for specifications. You may as well use our gas cooler selection programme or simply call us.

materials in gas path

standard filter element	glass, PPH, viton, EPDM, stainless steel, PA 12, PC glass fibre
acid-resistant materials filter element	PVDF, glass, teflon, stainless steel, PTFE, Kalrez sintered PTFE

please indicate with order

portable gas conditioning system

The part number consists of a code for the available options.
Tick in desired code at x marked positions.

part no.				description
CSP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	00 TGAK 3
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 standard version
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 acid-resistant materials
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3 n.a.
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4 without pump
		<input type="checkbox"/>	<input type="checkbox"/>	1 supply 115 V
		<input type="checkbox"/>	<input type="checkbox"/>	2 supply 230 V
		<input type="checkbox"/>	<input type="checkbox"/>	1 condensate vessel with cock for manual draining
		<input type="checkbox"/>	<input type="checkbox"/>	2 peristaltic condensate pump included
			00	without further options

Example: portable gas conditioning system TGAK 3 (=CSP), higher resistive materials (=2), supply 230V (=2) with condensate vessel (=1) gives part number CSP 2 2 1 00



case trolley

accessories

part-no.	description	material	package
CS PX 00012	removable case trolley with 50mm wheels	aluminium	1 pcs.

spare parts

part-no.	description	material	package
41 15 001	filter element for CSP1xx00 and CSP4xx00	fibre glas	5 pcs.
41 15 105	filter element for CSP2xx00	PTFE	10 pcs.
91 24 030027	spare tube (90° connection) for peristaltic pump	norprene	1 pc.