

## TUBE SAMPLING PUMP

Used with detector tubes for sampling of toxic gases and vapors. Bellows design provides precise volume with very low maintenance.

Stroke volume	100 ± 5 cm <sup>3</sup>
Dimensions (mm)	170 L x 45 H x 85 W
Weight	250 g

Ambient conditions (operation and storage):

Temperature	-20 to +50 °C
Humidity	0 to 95% non-condensing

Ex-Approval:

ATEX:	I M 1 II	1G IIC T6, -20°C ≤ Ta ≤ +50°C
	II 1D	BVS 04 ATEX H 068

**Part No. Description**

6400000	accuro® Pump – Includes tube opener & allen wrench
4056443	Hard-Side accuro Pump Kit – Includes pump, tube opener, spare parts kit, 10 rubber caps, allen wrench, molded plastic carrying case

**Extension Hoses for accuro and X-act 5000 pumps**

6400077	3 m, incl. adapter for tubes & adapter for hose in a carrying case
6400078	10 m, incl. adapter for tubes & adapter for hose
6400079	15 m, incl. adapter for tubes & adapter for hose

**Extension Hoses for X-act 5000 pumps**

6401175	30 m, incl. adapter for tubes & adapter for hose
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## DRAEGER

## AUTOMATIC TUBE PUMP

Used with detector tubes, simultest sets and sorbent tubes for sampling of toxic gases and vapors. Bar code reader transfers all relevant measurement parameters using the bar code on the box of tubes.

Short-term measurements using short-term tubes:

Strokes	Adjustable 1 to 199 strokes, 100 mL each
Flow rate range	0.1 to 2.0 L/min.
Dimensions (mm)	175 H x 230 W x 108 D
Weight	approx. 1.6 kg (3.5 lbs.) without battery pack

Environmental Requirements:

Operating Temp.	5 to 40 °C (41 to 104 °F)
Storage Temp.	-20 to 55 °C (-4 to 131 °F)
Relative Humidity	0 to 95%, non-condensing
Atmospheric Pres.	700 to 1300 hPa (10.2 to 18.9 psi)

Approvals:

ATEX:	Ex ia IIC T4 Ga	I M 1 / II 1G	Ex ia I Ma
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**Part No. Description**

4523617	X-act 5000 Kit – Includes pump, shoulder strap, NiMH rechargeable battery and 100-240 VAC charger
4523520	Rechargeable battery, X-act 5000, NiMH, T4
4523525	Alkaline battery pack, X-act 5000, T4 without batteries, requires 6 AA
4588195	Alkaline battery, AA, pack of 4
4523545	Wall charger, X-act 5000, 100-240 VAC
8103525	SO <sub>2</sub> Filter replacement

## DETECTOR TUBES



The detector tubes at right are a sample of more than 200, capable of detecting and measuring more than 500 gases, vapors, and aerosols in ambient air. The printed scale on the tubes provides for direct reading of the concentration.

<i>Tube</i>	<i>Part No</i>	<i>Substance(s) measured</i>
Acid Test	.8101121	Wide variety of Acidic gases
Alcohol 25/a	.8101631	Primary alcohols (e.g., methanol, ethanol, etc.)
Amine Test	.8101061	Wide variety of Basic gases
Benzene 0.5/c (specific)	.8101841	Crude oil, gasoline
Carbon Dioxide 0.1 %/a	.CH23501	Product of combustion
Carbon Dioxide 100/a	.8101811	Indoor Air Quality
Carbon Tetrachloride 0.2/b	.8101791	Metal degreasers
Choropicrin 0.1/a	.8103421	Fumigation gas
Diesel Fuel	.8103475	Diesel fuel vapors
Ethyl Formate 20/a	.8103541	Fumigation gas
Ethylene Oxide 1/a	.6728961	Industrial sterilant
Formaldehyde 0.2/a	.6733081	Preservative, Industrial sterilant
Hydrogen Sulfide 1/d	.8101831	Crude oil and gas by-products
Hydrogen Sulfide 5/b	.CH29801	Crude oil and gas by-products
Hydrogen Sulfide 100/a	.CH29101	Crude oil and gas by-products
Methyl Bromide 3/a	.6728211	Fumigation gas
Nitric Acid 1/a	.6728311	Metal cleaning/surface preparation
Nitrogen Dioxide 0.1/a	.3103631	Diesel exhaust emissions
Nitrous Fumes 2/a	.CH31001	Diesel exhaust emissions
Olefins 0.05%/a	.CH31201	Ethylene, Propylene, Butylene
Oxygen 5%/C	.8103261	Confined space entry
Perchloroethylene 2/a	.8101501	Metal degreasers
Petroleum Hydrocarbons 10/a	.8101691	Petroleum based fuels and solvents
Petroleum Hydrocarbons 100/a	.6730201	Petroleum based fuels and solvents
Phenol 1/b	.8101641	General disinfectants
Phosphine 0.1/a	.CH31101	Fumigation gas
Phosphine 50/a	.CH21201	Fumigation gas
Polytest	.CH28401	Organic vapors
Sulfur Dioxide 0.5/a	.6728491	Diesel exhaust emissions
Sulfuryl Fluoride 1/a	.8103471	Fumigation gas
Toluene 5/b	.8101661	Adhesive and paint solvents
Trichloroethylene 2/a	.6728541	Metal degreasers
Xylene 10/a	.6733161	Adhesive and paint solvents

# Dräger

Whatever or wherever your applications, trust **Dräger** respiratory and gas detection equipment to be there with you. We have more than **120 years of experience** in occupational safety, with authorized service and training in more than **90 countries** worldwide.

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