



# Enero 2002

# TUBOS DETECTORES PRODUCTOS



# RAE TUBES

	Part Number	Standard Range	Extended Range
		<i>half or single stroke</i>	<i>varied no. strokes</i>
<b>ACETONE</b>	10-111-40	0.1 – 2 %	0.05 – 4 %
<b>AMMONIA</b>	10-100-05	1 – 30 ppmv	0.5 – 60 ppmv
	10-100-10	5 – 100 ppmv	2.5 – 200 ppmv
	10-100-15	25 – 500 ppmv	12 – 1,000 ppmv
	10-100-40	1 – 15 %	0.5 – 30 %
<b>BENZENE</b>	10-101-01 *	0.5 – 10 ppmv selective	0.25 – 30 ppmv
	10-101-10 *	5.0 – 40 ppmv selective	25 – 200 ppmv
	10-101-20	5 – 100 ppmv	2.5 – 200 ppmv
<b>CARBON DIOXIDE</b>	10-104-30	300 – 5,000 ppmv	150 – 10,000 ppmv
	10-104-40	0.05 – 1 %	0.025 – 2 %
	10-104-45	0.25 – 3 %	0.12 – 6 %
	10-104-50	1 – 20 %	0.25 – 20 %
	10-104-60	5 – 40%	1.25 – 40%
<b>CARBON MONOXIDE</b>	10-102-18	5 – 100 ppmv selective	2.5 – 200 ppmv
	10-102-20	5 – 100 ppmv	2.5 – 200 ppmv
	10-102-30	20 – 500 ppmv	10 – 1,000 ppmv
	10-102-45	0.2 – 4 %	0.05 – 4 %
<b>CHLORINE</b>	10-106-10	0.5 – 8 ppmv	0.25 – 16 ppmv
	10-106-20	5 – 100 ppmv	2.5 – 200 ppmv
<b>HYDROCARBONS</b>	10-110-30	50 – 1,000 ppmv	25 – 2,000 ppmv
<b>HYDROGEN CHLORIDE</b>	10-108-10*	1 – 20 ppmv	0.5 – 40 ppmv
	10-108-20*	20 – 500 ppmv	N/A
<b>HYDROGEN FLUORIDE</b>	10-105-10	0.5 – 20 ppmv	0.25 – 40 ppmv
<b>HYDROGEN SULFIDE</b>	10-103-05 *	0.2 – 3 ppmv w/ desiccant	0.1 – 6 ppmv
	10-103-04	0.2 – 3 ppmv	0.1 – 6 ppmv
	10-103-06	1 – 7 ppmv	0.5 – 7 ppmv
	10-103-10	2.5 – 60 ppmv	1.25 – 120 ppmv
	10-103-15	10 – 120 ppmv	5 – 240 ppmv
	10-103-18	25 – 250 ppmv	12.5 – 500 ppmv
	10-103-20	50 – 800 ppmv	25 – 1,600 ppmv
	10-103-30	100 – 2,000 ppmv	50 – 4,000 ppmv
	10-103-40	0.1 – 2 %	0.05 – 4 %
	10-103-50	2 – 40 %	0.5 – 40 %
<b>MEK</b>	10-113-20	0.02 – 0.6 %	0.01 – 1.8 %
<b>MERCAPTANS</b>	10-129-20	5 – 120 ppmv	2.5 – 240 ppmv
<b>METHYL BROMIDE</b>	10-131-10*	1 – 18 ppmv	0.5 – 36 ppmv
<b>NITROGEN DIOXIDE</b>	10-117-10	0.5 – 30 ppmv	N/A
<b>NITROGEN OXIDES</b>	10-109-20 *	1 – 50 ppmv	0.5 – 100 ppmv
<b>PHOSPHINE</b>	10-116-10	5 – 50 ppmv	2.5 – 100 ppmv
	10-116-20	25 – 500 ppmv	12.5 – 1,000 ppmv
	10-116-25	50 – 1,000 ppmv	25 – 2,000 ppmv
<b>SULFUR DIOXIDE</b>	10-107-15	2 – 30 ppmv	1 – 60 ppmv
	10-107-20	5 – 100 ppmv	2.5 – 200 ppmv
	10-107-25	100 – 1,800 ppmv	50 – 3,600 ppmv
	10-107-30	200 – 4,000 ppmv	50 – 4,000 ppmv
	10-107-40	0.2 – 5 %	0.1 – 10 %
<b>TOLUENE</b>	10-114-20	10 – 300 ppmv	5 – 600 ppmv
<b>VINYL CHLORIDE</b>	10-128-10 *	1 – 20 ppmv	0.5 – 40 ppmv
<b>WATER VAPOR</b>	10-120-10	2-10 lbs/MMCF (0.03-0.16 mg/L)	1 – 20 lbs/MMCF
	10-120-20	6-40 lbs/MMCF (0.1-0.64 mg/L)	3 – 80 lbs/MMCF
	10-120-30	0.05 – 1mg/L	0.05 – 4 mg/L
<b>XYLENE</b>	10-112-20	10 – 200 ppmv	5 – 400 ppmv
<b>GAS GENERATION</b>	10-123-01	Smoke Tubes ( <i>Stannic Chloride Irritant, 6 tubes/box</i> )	
	010-0004-000	Smoke Kit ( <i>includes an aspirator bulb, tube tip breaker and a box of six smoke tubes, soft leather case</i> )	

**\*Asterix indicates boxes which contain 5 colorimetric tubes and 5 pre-tubes, with 1 connector, for a total of 5 measurements.**

# RAE PUMPS

## Piston Hand Pump Kit includes

- 50/100 ml Piston Hand Pump - Model LP-1200
- Spare inlet filters (2)
- Spare rubber inlet
- Spare plunger gasket
- Carrying case



## MANUAL HAND PUMP (LP-1200)

PISTON HAND PUMP	RAE PART NUMBER	
Hand Pump Only	010-0901-000	
Hand Pump Kit	010-0001-000	

## SAMPLE-RAE

### Model ASP-2000

The SampleRAE is the world's easiest, most accurate method of detection tube sampling. Human error has been eliminated from sample timing and flow monitoring with the microprocessor controlled and user programmable flow rate. A strong internal pump offers truly one-handed operation. The SampleRAE calibrates easily and runs on either Ni-Cd or alkaline batteries. The sample volume displays constantly on a large, backlit Liquid Crystal Display.



### SampleRAE Kit includes

- SampleRAE Automatic Pump - Model ASP-2000
- Gas outlet port adapter with tubing
- Calibration tube
- Screw driver
- Alkaline battery adapter
- Operations manual
- Carrying case
- 4 AA alkaline batteries (if specified)
- Rechargeable Ni-Cd battery (if specified)
- 120 V AC/DC Wall Adapter (if specified)

## SAMPLE-RAE MONITOR (ASP-2000)

BATTERIES and CHARGERS	RAE PART NUMBER	
Alkaline	010-0011-000	
Rechargeable, No wall adapter	010-0011-100	
Rechargeable, 120 V wall adapter	010-0011-110	
Rechargeable, 230 V wall adapter *	010-0011-120	

\* for monitors requiring EEx, add the suffix "E"

## TUBE and PUMP ACCESSORIES

012-3050-000	Rechargeable Ni-Cd battery pack, 4.8 V, 900 mAh	(ASP-2000)
012-3052-000	Alkaline battery adapter for 4xAA	(ASP-2000)
500-0036-000	Wall charging adapter, 120 V AC to 12 V DC	(ASP-2000)
500-0036-001	Wall charging adapter, 230 V AC to 12 V DC	(ASP-2000)
010-3009-015	Remote sampling hose, 15' (5m), and adapter assembly	(ALL)
010-3009-035	Remote sampling hose, 35' (11m), and adapter assembly	(ALL)
012-3009-000	Gas outlet port adapter with 2' of Tygon® tubing	(ASP-2000)
500-0003-000	Tedlar® bag - 3 liter sample collection	(ASP-2000)
010-3013-000	Calibration orifice	(ASP-2000)
010-3006-000	LP-1200 Accessory Kit (3 rubber inlets & filters, 2 gaskets, lubricant)	(ALL)
701-0002-000	Case, soft leather packing case (11"x8.75"x3")	(ALL)
010-2007-000	Colorimetric tube reader	(TUBES)
010-4003-000	Handbook of Gas Detection Tubes and Sampling Pumps	(ALL)
010-2002-000	Aspirator bulb for Smoke tubes	(TUBES)
010-2003-000	Colorimetric tube tip breaker	(TUBES)