

# PRODUCT SHEET

## VACUUMBOX

Order N°	Accessories included in vacuum box
<b>AC-12-BOX</b> 12 positions Dimensions (LxWxH in mm) : 310 <sup>1</sup> x145x185	- <b>AC -25-RV10</b> : 25 10mL reservoirs (PP <sup>2</sup> ) - <b>AC-1000-OT</b> : 25 yellow outer tips (PP) - <b>AC-1000-TUBE-PE</b> : 25 white inner tips (PE <sup>3</sup> ) – column or cartridge support - <b>AC-131-R</b> : 100 blue tip caps (PP) - <b>AC-01-GAUGE-PVC</b> : 1 vacuum gauge - <b>AC-12-RACK</b> or <b>AC-24-RACK</b> : 1 internal rack for e.g. 50 mL centrifuge tubes, adjustable height (PMMA <sup>4</sup> and screws in PP) - <b>SA-AC-01-VALVE-PC</b> : sample of 3 flow-rate regulation valve (PE), (catalogue reference: <b>AC-12-VALVE-PC</b> )  <b>ATTENTION: Vacuum pump not included</b>
<b>AC-24-BOX</b> 24 positions Dimensions (LxWxH in mm) : 560 <sup>5</sup> x145x185	

### Associated accessories

**AC-12-LINER** and **AC-24-LINER**: Inner Liner - PMMA (depending on the size of the vacuum box in use)

**AC-01-GAUGE**: Vacuum Gauge

**AC-25-RV10** : 10mL reservoirs (PP), bag of 25

**AC-200-RV10** : 10mL reservoirs (PP), bag of 200

**AC-25-RV20** : 20mL reservoirs (PP), bag of 25

**AC-1000-OT**: yellow outer tips (PP) – to ensure the box sealing (bag of 1000 units)

**AC-1000-TUBE-PE** : white inner tips (PE) – column or cartridge support (bag of 1000 units) - *replaces AC-1000-IT*

**AC-131-R**: blue tip caps (PP) for un-used positions, bag of 100

**AC-12-VALVE-PC**: flow-rate regulation valve (PC<sup>6</sup>), bag of 12 (do not leave in acid bath)

**AC-12-TS** and **AC-24-TS** : Cartridge rack - PMMA (depending on the size of the vacuum box in use)



**Fig.1: Vacuum box**



**Fig.2: Reservoirs**



**Fig.3: Different possibilities of set-up**

<sup>1</sup> Length : 390mm incl. vacuum gauge

<sup>2</sup> PP = Polypropylene

<sup>3</sup> PE = Polyethylene

<sup>4</sup> PMMA= Polymethyl methacrylate

<sup>5</sup> Length : 640mm incl. vacuum gauge

<sup>6</sup> PC=Polycarbonate

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**AC-12-RACK** and **AC-24-RACK**: internal rack (PMMA & PP), adjustable in height (depending on the size of the vacuum box in use)

**AC-12-LID** and **AC-24-LID**: vacuum box lid - PE (depending on the size of the vacuum box in use)

**AC-100-R02**: empty cartridges (2 mL), bag of 100 units (PP – frits in PE, 20µm porosity)

**AC-20-R04**: empty cartridges (8 mL), bag of 20 units (PP – frits in PE, 20µm porosity)

**AC-20-R12**: empty cartridges (20 mL), bag of 20 units (PP – frits in PE, 20µm porosity)

**RF-DF25-25PP01**: Package of 25 Resolve® filter (Ø 25 mm) funnel units (PP)

**RF-DF200-25PP01**: Case of 8 packs of 25 Resolve® filter (Ø 25 mm) funnel units (PP)

### Recommended characteristics of vacuum pump

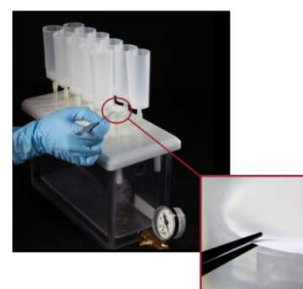
Pressure : 8 mbar

Air Flow : 16 L/min

Chemically inert



**Fig.4: AC-1000-TUBE-PE**



**Fig.5: Filtration unit with Resolve® filters**



**Fig.6: AC-12-TS**

### Methods\*

Reference	Description	Matrix	Analytes	Support
VBS01	Setup and Operation Instructions for Eichrom's Vacuum Box System (VBS)			
ACU02 VBS	Americium, Plutonium and Uranium in urine (Vakuum Box System)	urine	Am, Pu and U	cartridges
ACW03 VBS	Americium, Plutonium and Uranium in water (Vakuum Box System)	water	Am, Pu and U	cartridges
ACW13 VBS	Thorium, Plutonium and Uran in water (Vakuum Box System)	water	Pu, Th and U	cartridges
ACW16 VBS	Am_Np_Pu_Th_Cm_U in water (Vakuum Box System)	water	Am, Cm, Pu, Th and U	cartridges
ACW17 VBS	Am_Np_Pu_Th_Cm_U_Sr in water (Vakuum Box System)	water	Am, Cm, Pu, Th, U and Sr	cartridges
OTW01	Pb-210 and Po-210 in water	water	Pb, Po	columns, cartridges



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RAW04	Radium-226/228 in water (MnO <sub>2</sub> & DGA Resin method)	water	Ra-226, Ra-228	cartridges
SPA01	Cerium Fluoride microprecipitation for alpha spectrometry			

\*Methods developed by Eichrom Technologies LLC