

## Body Armour Integrity Tester



The **ASC BAIT** is an integrity test instrument for ballistic packs.

2 Insert ref X-375 HR/7				25-01-15 10:46:43
Testing...				
Equipment ready				
Start P (hPa)	Ext. P (hPa)	Int. P (Pa)	Delta P (Pa)	Program parameters
-519	-519	2985	-15	
Bar code Nr 2531297554601				Results
-90 Pa		Acceptance Limits	10 Pa	Settings
Step time 8.6 / 15.0 s		Total time 35.4 s		

### User-friendly and ergonomic:

A large high-resolution touch screen provides a clear user interface and allows a quick intuitive understanding of the instrument.

The function of the waterproof cover of soft body armour inserts is to avoid water ingress, as water absorption not only **increases the weight** of the vest, but can also lead to **reduced ballistic performance**. The integrity test provides certainty that waterproofness conforms to design specification and that users are not exposed to avoidable risks.

### Operation :

- The operator inserts the pack in the test chamber
- He closes the lid, which starts the test
- The instrument performs the measurement
- The test result is shown: green light: Pass, or red light: Fail
- The lid opens and the operator removes the product
- The measured values are available for output in Excel or pdf format (Test Certificate)

## Benefits of testing with the ASC BAIT

### ✓ Quick, clean test:

- Detects micro-leaks, even those impossible to see by visual inspection
- Quick test, no water, easy to operate: suitable for large quantities (i.e. 100% testing)
- Results are stored for full traceability

### ✓ Objective measurement:

- Leaks are quantified
- Clear GO/NO GO result, no interpretation required
- Test results are independent of operator influence, alertness, eyesight, etc.
- Easy verification of process with reference packs, zero leak and calibrated micro-leaks
- Process can be documented, certified, audited; a Test Report can be supplied

### ✓ Implementation assistance from ASC Instrument specialists:

- FAT, SAT, qualification, optimisation, training

# Body armour integrity tester ASC BAIT

## Measurement principle:

The method consists of creating a vacuum in the chamber in which the pack is placed, causing the pack to inflate. A sensor in the lid measures the pressure in the pack over a certain time. The variation of this internal pressure is directly related to the degree of leakage of the product.

This unique measurement method, developed by ASC Instrument and the fruit of many years of experience, has been patented and awarded several innovation prizes.

## Test results output:

Date	Time	Test Nr	Progr Nr	Test P (hPa)	Delta P (Pa)	Test time (s)	Result
21/01/2016	09:51:27	856	3	30	-67	53,8	OK
21/01/2016	09:52:37	857	3	27	-58	55,2	OK
21/01/2016	09:53:45	858	3	30	-62	53,1	OK
21/01/2016	09:54:52	859	3	30	-46	52,5	OK
21/01/2016	09:56:01	860	3	28	-53	54,5	OK
21/01/2016	09:57:10	861	3	27	-48	54,5	OK
21/01/2016	09:58:18	862	3	27	-59	53,6	OK
21/01/2016	09:59:23	863	3	30	-54	50,5	OK
21/01/2016	10:00:26	864	3	30	-69	48,3	OK
21/01/2016	10:01:36	865	3	30	-53	55,6	OK
21/01/2016	10:02:42	866	3	30	-64	51,5	OK
21/01/2016	10:03:50	867	3	30	-70	53,2	OK
21/01/2016	10:04:58	868	3	30	-116	53,2	OK
21/01/2016	10:06:01	869	3	27	-195	48,1	NOK
21/01/2016	10:06:57	870	3	27	---	41,0	IP max
21/01/2016	10:08:03	871	3	30	-64	51,5	OK
21/01/2016	10:09:10	872	3	30	-72	52,1	OK
21/01/2016	10:10:17	873	3	30	-62	52,5	OK
21/01/2016	10:11:24	874	3	30	-59	52,0	OK
21/01/2016	10:12:27	875	3	29	-68	48,3	OK

## Standard pressure range: -800 hPa

## Options and accessories

- USB port
- Ethernet port (LAN/PC)
- Batch Report (pdf / Excel)
- Barcode scanner
- Label printer
- Reference packs with calibrated leaks

Large version available : BAIT MAX, detailed specifications available on request

- Filtration kit
- Vacuum pump
- 3-colour status light column
- Workbench
- Fittings, tubing, etc.

## Specifications

### Dimensions

1650 x 1200 x 1400 mm (w x d x h)

Standard chamber (largest pack) :  
810 x 810 x 100 mm (w x d x h)

### Communication

Clear 5.7" touch screen  
Status lights

### Power supply

24 V DC/ 5 A (adapter supplied)

### Air supply

Clean and dry air, quality to ISO 8573-1  
-100 and 600 kPa

### Temperature

Operation : +15°C to + 25°C  
Storage : 0°C to 60°C



### ASC Instrument

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