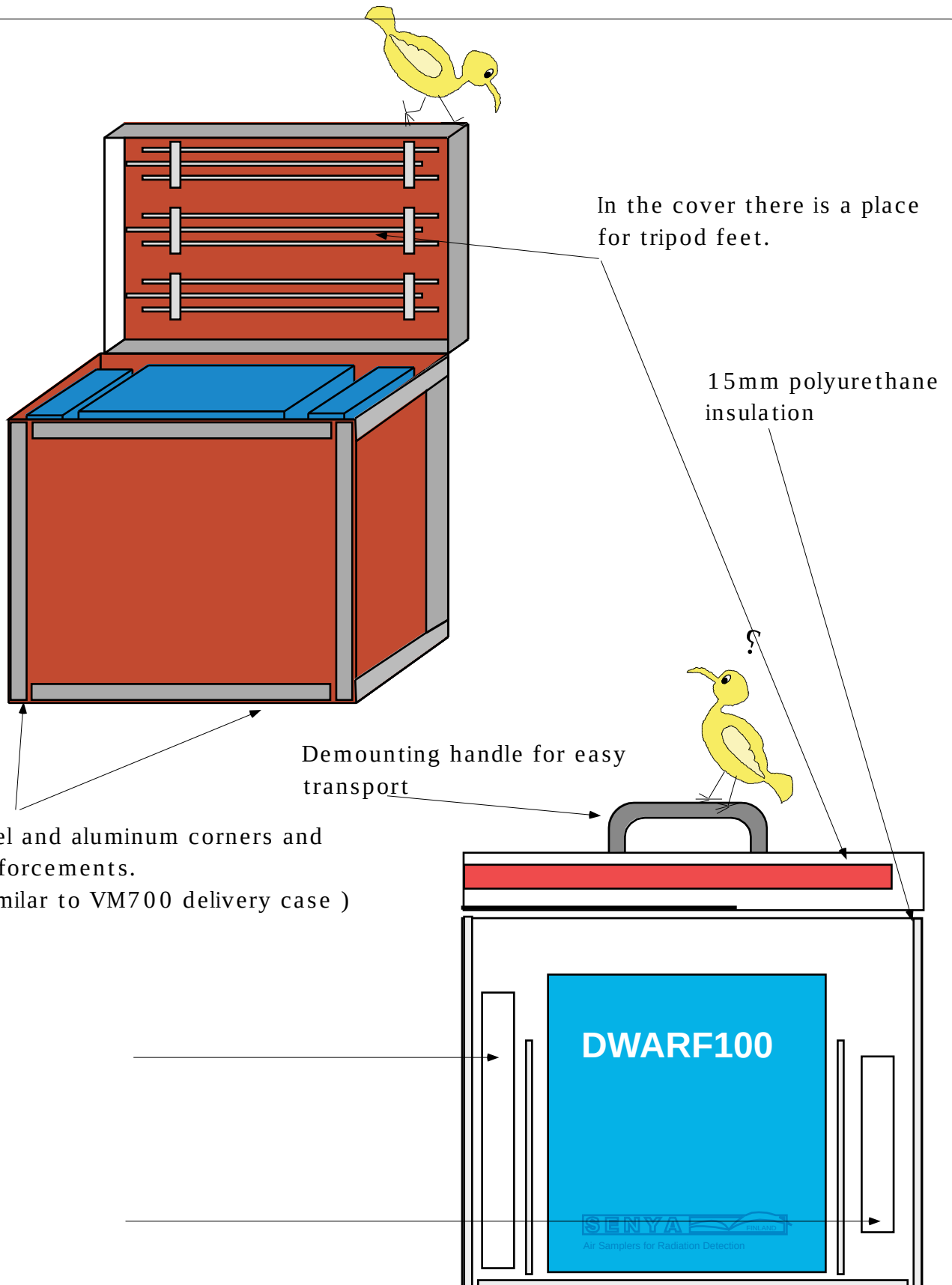


ON THE ROAD WITH NEW SENYA EQUIPMENT

DWARF100



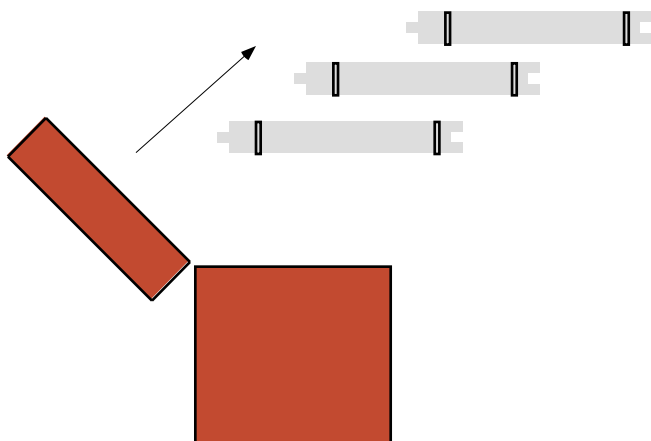
DWARF100



DELIVERY CASING

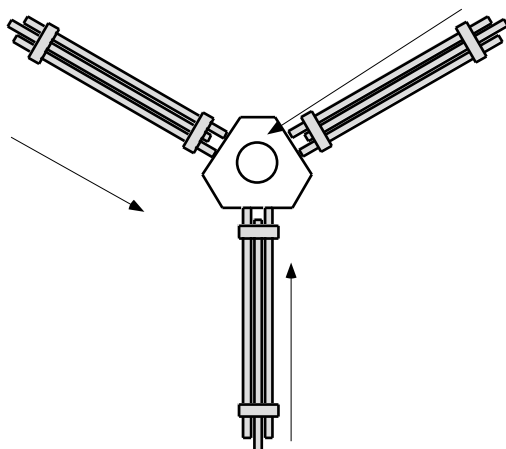
DWARF100

1



- a. Open the delivery case.
- b. Lift off three feet from lid.
- c. Lift off the tripod centre part.

2



- a. Install all three feet to tripod centre part.
- b. Put the tripod in standing position.

ATTENTION! DO NOT USE TRIPOD ON SLIPPERY SURFACE

- 3 Lift DWARF100 on tripod and secure it with locking screw underneath tripod centre.



DWARF100

Now you should have something
that looks like this.



Mains cord is 5 meters.
Connect it to earthed socket
230V/50Hz.



DWARF100

PORTABLE AIR SAMPLER DWARF 100

INTRODUCTION

PURPOSE	DWARF 100 is meant for collection of airborne radioactive particles on different kind of filters for more specific measurements.
WHERE	DWARF 100 can be used both indoors and outdoors.
WHO	DWARF 100 is meant for research institutes and inspecting authorities.
BUT NOT	DWARF 100 must NOT be used in direct HEAVY rain without a shelter or roof, but it can be used in light rain without problems.
AIR FLOW	Air flow of 140m ³ /h can be achieved with low pressure drop filters like Petrianov.
DATA	Displayed values: -pressure difference, air flow, total volume and time.
POWER OFF	During power outage the collected values are stored and when recovery the calculation continues from stored values, so no data lost.
LIFE TIME	DWARF 100 is not meant for continuous use, it is meant for short term sampling for some hours. It is so, because the pumps carbon brushes have a lifetime of 800-1000 hours. You can run DWARF 100 continuously all these 800-1000 hours if needed. After this a new pump should be installed.
OF WHAT	All aluminum parts are anodized after fabrication. All electrical parts except the pump are situated in highest part of the sampler.
HOW	DWARF 100 is meant to be used on a heavy duty tripod, that is included with the delivery. It is however important to remember NOT TO INSTALL this tripod on slippery surface, like indoor linoleum floor.
COOLING	DWARF 100 has double air circulation: the air that is coming through the sampling filter is blown out from the exhaust ventilators. The cooling air for pump is taken from a separate intake. This arrangement certifies the fact that motor is getting cooling air although the filter would get filled.
POWER	DWARF100 standard: 230V/50Hz, 1,2kW. (110V/60Hz)

IMPORTANT

	Because cooling air to pump motor is not filtered, it is important to remember that: If you use DWARF 100 in very contaminated areas, it is possible that you get some of contaminating particles inside the sampler.
FILTERS	You can use almost any kind of filters on DWARF 100, but highest air flow can be achieved with low pressure drop filters like Petrianov. Filter size is 230 x 295mm.
SERVICE	After every 800-1000 hours of use the pump should be changed. This is most conveniently done at SENYA Oy. No other kind of service is needed during the use of DWARF 100.

DWARF100

Lift locking spring up to release filter frame.

Carefully push filter into two pins.

Close filter frame while holding locking spring up .



1. Open the filter frame.
2. Place filter in place, notice two hang pins.
3. Close filter frame.

DWARF100



1. Set START switch to START position. This RESETS the panel meter and starts new measuring. The actual calculation starts when the 50Pa value is exceeded.
2. Now you can start your sampler by turning to RUN..

DWARF100



DWARF100



Extra rain covers