THERANOJET®ARA

SHIELDED INJECTION SYSTEM FOR THERANOSTIC PRODUCTS

^{177}Lu ^{161}Tb ^{223}Ra ^{225}Ac ^{212}Pb ^{211}At

TRT PATENTED

Theranojet®ARA is a **shielded injection system** designed for the radiation protected intravenous administration of radiopharmaceutical drugs for **Targeted Radiation Therapy (TRT)** labelled in particular with ^{177}Lu. This single-dose shielded injection system is progressively fractionable and can be extended to other uses, such as alpha therapy and some diagnostic protocols.

Lightweight, mobile and versatile, the shielded injection system Theranojet®ARA allows to safely load pharmaceuticals, using a removable shielded container, facilitating transport and connection to the vial.

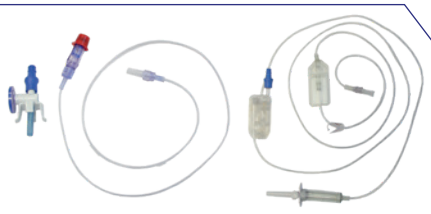
Designed for optima l radiation protection, Theranojet®ARA limits the risk of contamination to a minimum, guaranteeing medical staff comple te safety during injection. It prevents any risk of extravasation or the injection of air bubbles, thanks to its secure, configur able pump that guarantees flexibility accord ing to the different protocols used.

This **light weight** unit with 4 double castors, is **easy to handle and to move around**. Its two side handles allow it to be **moved effortlessly** to carry patient doses to the injection cubicles.

It is made entirely made of stainless steel, and includes a removable containment tray, allowing for simple and quick disinfection and decontamination, when required, without altering the injection unit's components.

CONSUMABLES

Patient injection kit: contact us



FOCUS

Bag holders [**1**] are designed to received NaCl (or amino acid) bags and facilitates dose dilution as well as tube rinsing.

The support [**2**] **and vial shield** [**3**] enable the vial to be turned over, ensuring that all the content is fully collected. This system, secured by a sterile transfer device, reduces the risk of contamination and needle-stick injuries by facilitating the set up and the decay of the vial at the end of the injection, unlike the use of needles, which requires risky handling.

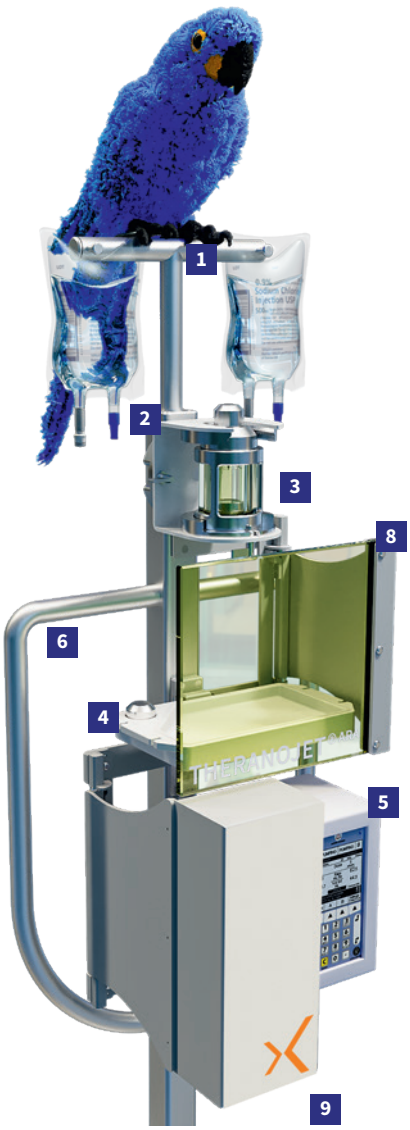
The removable containment tray [**4**] makes it possible to contain the radiopharmaceutical in the event of a possible connection problem. Since the tray can be removed, this makes disinfection and decontamination easier.

The pump [**5**] with its adjustable screen, ensures that the drug is injected in a configurable, secure way and is also used to rinse the connection to the vial. It self-manages the detection of occlusions and air bubbles. The two channels of the pump enable the progressive injection of the radiopharmaceutical with optimal operator radiation protection.

The side handles [**6**] make it easy to guide the device. It has a large gripping area that can be adjusted to the height of the health-care personnel.

The 4 swivel wheels [**7**] make it easy to move the device. It is possible to lock the wheels to ensure that the device can be moved.

The protection screen [**8**] **and protection housing** [**9**] protects the user during the injection. The transparency of leaded organic glass makes the tubing and retention area visible throughout the operation. Access to the pump is secure for rinsing the connection to the vial.



CHARACTERISTICS

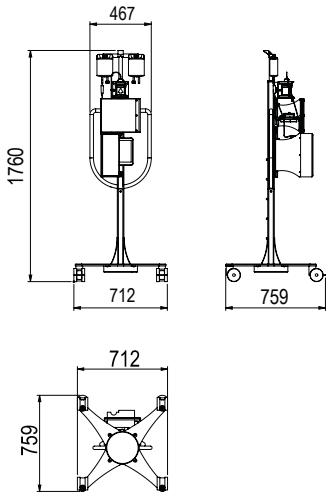
General
External dimensions (with serum rod): L 712 x D 759 x H 1 760 mm
Shielding thickness: Organic glass transparent screen: eq. 0.5 mm of lead
Component parts: - Dual-pouch IV pole - Shield vial shield - Rotating vial shield support - Pump - Mobile frame - Protection screen (Organic glass dim.: L220 x H 170 mm) - 2 swivel castor wheels - 2 swivel castor wheels with brakes - Injection kit support
Weight: 96 kg

Shielded vial shield
Shielding thickness: 21.5 mm of lead glass and 7 mm of lead
Vial volume: 30 mL
Weight of the vial shield with its cap : 3,9 kg
Lead glass screen dimensions: L 220 x H 170 mm

Radiation protection	
Maximum radioactivity that can behandled to obtain a dose rate less than 100µSv/h at 5 cm from the walls*	
Radionuclides	**Activity**
^{177}**Lu**	7400 MBq

Package
Package dimensions: L 850 x D 850 x H 1 900 mm
Package weight: 150 kg
Ref. Theranojet®ARA: 00050009
Ref. Additional vial shield: 00050036

EFFECTIVE DIMENSIONS (mm)



*Regulations in ASN Guide No.32 "In vivo nuclear medicine facilities: minimum technical rules for design, operation and maintenance"