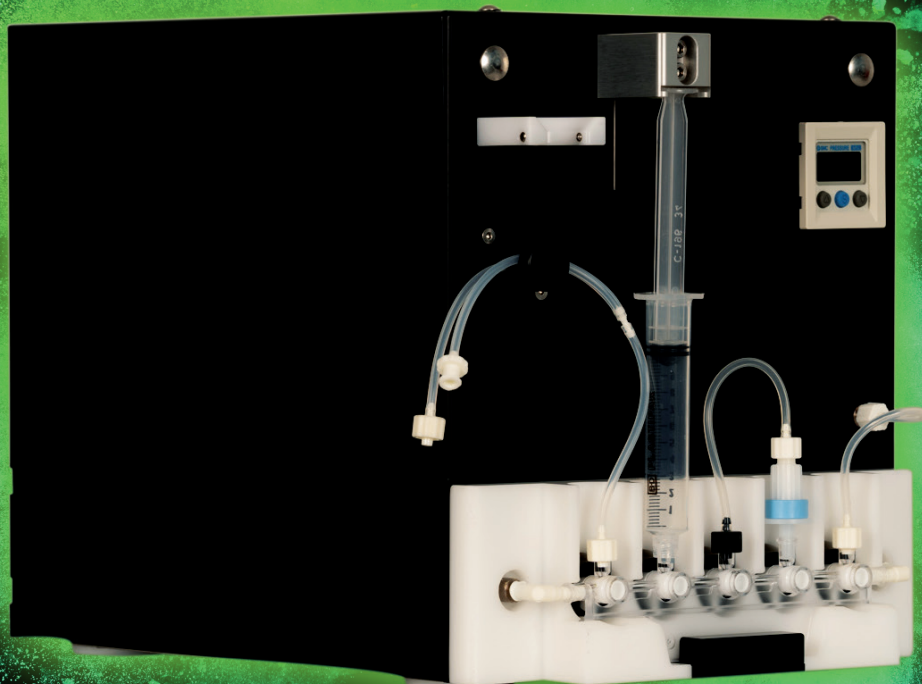


# NEPTIS® NaF / Ammonia

## PLUG PLAY AND PRODUCE



**Ora**

an ISO13485 certified company

# NEPTIS® NaF/Ammonia // TECH. FEATURES

THE NEPTIS® NaF IS A SMALL SYNTHESIZER FOR THE PRODUCTION OF SIMPLE MOLECULES WHICH ONLY REQUIRE PURIFICATION OF THE ISOTOPE ( $^{18}\text{F}$  OR  $^{13}\text{N}$ ), SUCH AS  $^{18}\text{F}$ NaF OR  $^{13}\text{N}$ AMMONIA. THE PROCESS IS AS SIMPLE AS RECOVERING THE ISOTOPE PRODUCED BY THE CYCLOTRON, AND FORMULATE IT !

NEPTIS® NaF is a single 5 stopcocks manifold machine which can quickly run this 3 steps process :

- STEP 1 : the target is unloaded directly on the purification cartridge
- STEP 2 : using the syringe driver, the cartridge is rinsed to remove impurities
- STEP 3 : the final compound is eluted to give the final bulk solution

As the process is very simple, the cassette contains a minimum of accessories and connections. Unlike other machines which require the installation of a complete kit, here only the useful components are used. This reduces manufacturing costs as well as the risk of errors. Yield is considered as quantitative ; the sequence is perfectly optimized to save significant time.

The reconditioning of the purification cartridge as well as the rinsing of the manifold allows performing several consecutive runs without changing the cassette.

A nice tool to have in the laboratory to free other synthesizers when production of  $^{18}\text{F}$ NaF or  $^{13}\text{N}$ Ammonia are required.

## APPLICATIONS

Current VIRTUAL SYNTHESIZER® Applications

$^{18}\text{F}$  NaF  
 $^{13}\text{N}$  Ammonia

## SOFTWARE

The NEPTIS® software is a web browser based application making it the most evolutionary software for automated synthesizers. Programmed in HTML5 and Java™ under a Linux OS based computer hardware it provides more reliability and flexibility to its end-user (i.e. several modules can be controlled by one computer making it more efficient and productive).

## GMP COMPLIANT

Ensuring a smooth integration  
into your **Quality Assurance program**

ORA is ISO13485 certified since 2014. All NEPTIS® documentation meets strict GMP regulations and requirements. Moreover, NEPTIS® Software is 21CFR Part 11 compliant and all NEPTIS® products (automated synthesizers) follow and apply GAMP5 guidelines.

## ON-THE-GO DEVELOPMENT

NEPTIS® synthesizer is delivered with a **complete software package**

- **NEPTIS® Control** allows the user to visualize all of the pertinent information of a synthesis in real-time.
- **NEPTIS® Designer** is a stand alone software which allows the development of molecules or the modification of one.
- **NEPTIS® Trending** is an indispensable tool for analysis of data production runs with additional functionalities of key parameters (i.e. calibration, maintenance log, et al.).

## INNOVATION

- **WNE® system** NEPTIS® NaF is equipped with the exclusive patented WNE® technology: 3-positions pneumatic actuators. Only pneumatic pressure is required; unlike electrically driven actuators, there is no need for any electronic logic control system which is susceptible to radiation, providing an unmatched reliability.
- **Electronics** The CPU is installed outside of the machine making its reliability exclusive and preserving it from radiation damages.

## REQUIREMENTS

Power supply	100/240V AC, 50-60 Hz
Compressed air	6 to 8 bars
Nitrogen	3 to 8 bars

## SPECIFICATIONS

- 1 ramp of 5 pneumatic actuators with 3 positions each
- 1 rad detector
- 1 syringe driver (10 ml)
- 1 vacuum pump
- sensors for vacuum, flow and pressure

## HOTCELL COMPATIBILITY

Up to 4 NEPTIS® NaF can be installed into one single mini-cell.

## DIMENSIONS

W x H x D	215 x 245 x 330 mm 8.5 x 9.7 x 13.0 in
Weight	10,5 kg   23 lbs

The above features are not restrictive. For further information call +32 (0)71 61 38 23 or email us at [questanswered@oradiochem.eu](mailto:questanswered@oradiochem.eu). We are pleased to help. We reserve the right to discontinue or change specifications or design at any time without prior notice and without incurring any obligation whatsoever.