



RADIO
PHARMA
SOLUTIONS

ORA

NEPTIS® Perform Duo

Two Modes. One Module.



NEPTIS® Perform Duo is a cassette-based synthesizer built on the proven NEPTIS® Perform platform that also runs reusable manifolds. Develop tracer sequences without kits and produce them routinely on one module, with the same chemistries, cassettes and yields.

TWO MODES, ONE MODULE

Single-use cassettes for routine GMP production, reusable PEEK manifolds for development, with conversion in either direction. Perform Duo is the only synthesizer that switches consumable mode on the same hardware and software.

DEVELOPMENT WITHOUT KITS

With reusable PEEK manifolds, each iteration costs only operator time and reagents. Over 30 reuses demonstrated in internal testing, using the NEPTIS® xSeed™ cleaning procedure.

GUARANTEED CONTINUITY

Same cassettes, chemistry, yields and workflow as NEPTIS® Perform, so your team is productive on day one. Sequences developed on Duo move straight into routine production on the same module, with one qualification and one set of paperwork.

HPLC PURIFICATION ON BOARD

Dedicated HPLC drawer, UV detection and SPE, orchestrated by NEPTIS® Control, with injection, separation and clean-up in one validated sequence.

SCALABLE AND ADAPTABLE

Add HPLC column selection, a quaternary pump, extra detectors or a second reactor oven, including FDG dual-run options.

NON-PROPRIETARY CONSUMABLES

Commercial consumables for flexibility and cost efficiency. Polysulfone or polypropylene manifolds, compatible with DMSO and DMF.

SPE (REFORM) PURIFICATION

Five built-in actuators, a dedicated waste pathway and independent high-flow, low-flow and vacuum supply.

HPLC CAPABILITY

- HPLC drawer and pathways, 1 injection valve
- 1 rad detector [sensitivity < 2mCi]

GMP COMPLIANCE

ORA is ISO13485 certified since 2014. GMP-grade documentation, 21CFR Part 11 compliant software and GAMP5 applied across all NEPTIS® products.

AVAILABLE MOLECULES [non-exhaustive]

[¹⁸ F] Compounds	Diagnostic	Therapeutics
[¹⁸ F]FDG [¹⁸ F]NaF [¹⁸ F]FLT [¹⁸ F]FMISO [¹⁸ F]FHBG [¹⁸ F]F-Acetate [¹⁸ F]F-Choline [¹⁸ F]FET [¹⁸ F]FES [¹⁸ F]PSMA-1007 [¹⁸ F]SFB [¹⁸ F]FDGal [¹⁸ F]F-L-DOPA [¹⁸ F]MPPF	[⁶⁸ Ga]Ga-DOTA-NOC [⁶⁸ Ga]Ga-DOTA-TATE [⁶⁸ Ga]Ga-DOTA-TOC [⁶⁸ Ga]Ga-HBED-PSMA	Specific process capability**: [¹⁷⁷ Lu]-coumpounds
Advanced tracers (Alzheimer...)*		
Specific process capability**: [¹⁸ F]Fallypride [¹⁸ F]Faza		

*It is the end-user's responsibility to verify patent protection of precursors in their country and to obtain protected precursors or their rights from the patent owner according to its local regulations.
**Without ready-to-use cassettes

ON-THE-GO DEVELOPMENT

The synthesizer is delivered with a complete software suite:

- NEPTIS® Control, real-time visualization of synthesis data.
- NEPTIS® Designer, stand-alone software for molecule development.
- NEPTIS® Trending, production data analysis and parameter monitoring.

ROBUST DESIGN

WNE® technology, a three-position pneumatic actuator system, gives precise and repeatable control of all in-cell operations, with the **CPU** outside the hot cell. Fewer failure points, maximum uptime.

- 1 HPLC injection valve
- HPLC pathways
- 1 rad detector [sensitivity < 2mCi]

UV/PUMP

- MWD UV detector with optical fibers to protect electronics]
- Isocratic pump controlled by NEPTIS® software [optional: quaternary]

SPECIFICATIONS

- 4 ramps of 5 three-position pneumatic actuators
- 5 rad detectors [+1 optional], 1 UV signal, 1 reactor oven [+1 optional]
- 3 syringe drivers [30 mL and 10/3 mL], vacuum, flow and pressure sensors

REQUIREMENTS

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

DIMENSIONS

560 x 420 x 400 mm | 22.0 x 16.5 x 15.7 in [w x h x d]
38 kg | 84 lbs/1 unit per single mini-cell