

Overview

- The IntelliXseal is an automated roll heat sealer capable of sealing individual wells or tubes, enabling researchers to leverage the benefits of the [4titude Random Access range](#) whilst maintaining the gold standard heat sealing provided by the [4titude a4S](#)
- The IntelliXseal is compatible with a wide range of SBS footprint plates, including all 96 well PCR plates, assay plates, deep well storage plates and microplates
- It is particularly recommended for use with [Random Access plates and seals](#), as well as with 96 tube racks
- Varying plate heights, from 3mm to 70mm can be accommodated with minimal adjustments of the instrument
- The IntelliXseal also has the ability to seal custom shaped consumables with custom shaped seals to accommodate specific needs
- Plates and racks are presented in portrait format and the position on the shuttle allows good access for robotic integration
- The sealer's rapid heating element enables a fast start-up, and the stand-by function saves energy when the unit is not in use

Key Features

Easy handling

- Color touch screen with intuitive user interface for ease of use
- Unlimited password protected protocols: 3 security levels save personalized and SOP set temperatures and times
- Rapid heating: fast start up time, block uniformity is maintained to $\pm 1^{\circ}\text{C}$
- Variable time/temperature controls: adjustment of time and temperature settings enables the perfect seal to be established for any sealer friendly, high-quality plate type, e.g. all 4titude plates

Reproducible sealing

- Reproducible sealing: fixed pressure and accurate time and temperature controls ensure consistent sealing
- High sealing pressure: improved seal uniformity on a wide range of plates

Highest flexibility

- Compatible with a wide range of 96 well plate types and tube racks, allowing for the sealing of individually accessible wells and tubes
- Flexibility of seal material choice: 4titude offers a [wide range of sealing materials](#), with a variety of properties for use with the IntelliXseal
- Particularly ideal for use with [Random Access seals](#), offering the ability to seal custom shapes with custom seals

Economic efficiency

- Competitive pricing: save money without compromises
- Auto standby mode: saves energy and extends component life
- 2 year warranty on parts and labor
- Extended warranty and service contracts available for peace of mind

Plug and play robotic integration

- The IntelliXseal is extremely versatile leaving you the freedom to expand and configure your systems such as adding robotic plate handling

- [SiLA](#) compatible: quick and easy integration with other SiLA compliant devices using the SiLA driver (available at extra cost, please see ordering information); all 4titude instruments are compliant with SiLA standards for rapid integration of automated systems
- This means they can be "plug and play" connected with other instruments, such as readers, robotic arms and liquid handlers, to give a custom automated system without the need to write expensive custom drivers
- Full communication protocol available: operate the instrument and record sealing conditions for each seal using the RS232 communication port

A solution for

- Diagnostic kit manufacturers
- Oligonucleotide production
- Synthetic biology
- Sample storage
- Random Access plate and seal users
- Antibody extraction

Tailor-made solutions

- We stock one of the widest ranges of sealing solutions for varying applications
- We can also design and manufacture custom solutions for specific non-standard sealing requirements
- [Contact us](#) and tell us what you need

Specifications

Parameter	IntelliXseal
Dimensions (H x W x D)	38 x 40 x 68cm
Sealing temperature range	100-195°C
Sealing time range	0.1-10 sec (with 0.1 sec intervals)
Weight (without roll)	35kg
Power supply	V in: AC 100-240V; V out: DC 24V 320W
Power consumption	700W (max)
Working temperature range	10-30°C
Operating humidity (RH)	0-85%
Connection	RS-232 serial port, USB port