



**CONSTANT
SYSTEMS**
CELL DISRUPTION MADE EASY



OS Cell Disruptor



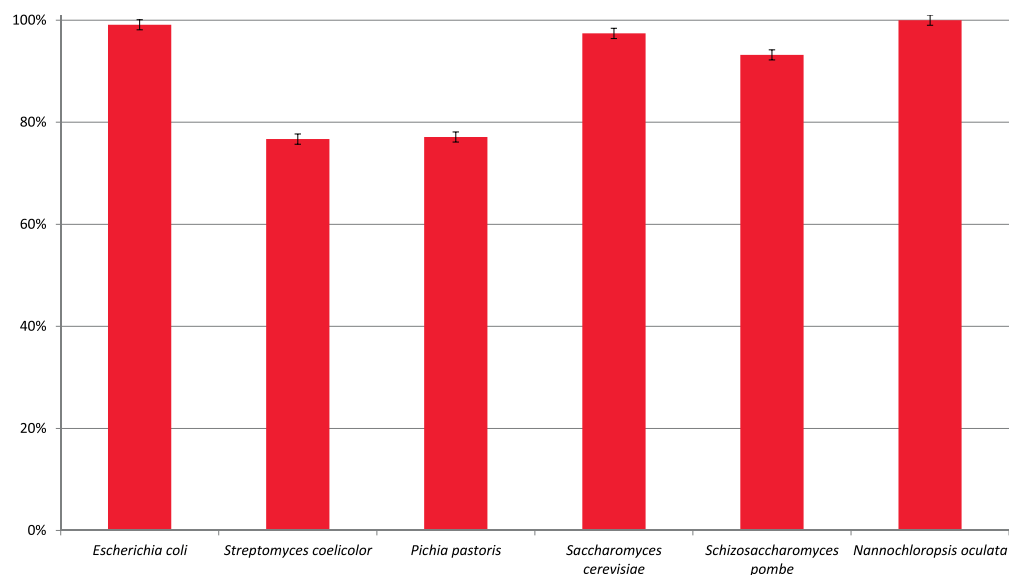
The OS Cell Disrupter is the smallest offering in the Constant Systems Cell Disruption range of products. At approximately 500mm² the OS sits very comfortable on the benchtop but is best suited when used on its tailor made trolley.

The OS trolley ensures that the equipment is situated at its optimum working height and is mounted on full swivel and lockable casters that enables safe and free movement of the equipment when needed. The OS is capable of processing volumes from 0.5mL to 8mL per process with a dead loss volume of <0.1mL per process.

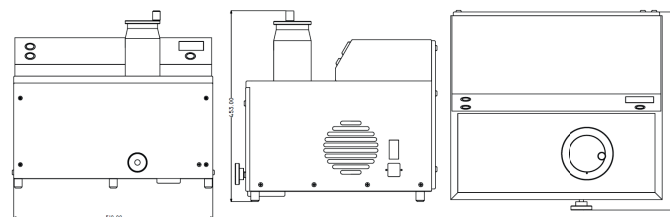
The OS is recommended for total volumes of up to 24mL which is ideal for those users who wish to upgrade from small bench-top techniques such as bead beating and sonication. The OS takes advantage of Constant Systems precise and consistent hydraulic control which is fully scalable through the whole product range from 0.5mL single preparation processing to large volume processing at 150L per hour.

This precise control ensures that the entire sample is processed at the operators set pressure to ensure accurate and consistent results and in most cases a single process or pass is adequate therefore multiple passes are not required. The OS model can be utilised for processing fluid, re-suspended, viscous, tissue, plant and frozen sample types.

**Lysis Efficiency of a Constant Systems OS Cell Disruption Equipment
Utilising a single pass**



- Simple, quick and easy to use
- No need for compressed air or bottled gas, standard electrical supply required only
- No need to prime or purge the equipment prior to use. Any air in the system is simply processed at no detrimental effect to the sample or the equipment
- Design incorporates a stainless steel tray to capture accidental spillages
- Disruption pressure displayed digitally and is easily and accurately set between 1-40 kpsi
- Ability to process fluid, re-suspended, viscous, tissue, plant and frozen sample types
- Collection cups provided can be transferred to and from ice or fridge to aid temperature control of sample
- Constant Systems precise and consistent hydraulic control ensures that consistency is maintained during each and every process giving you confidence in repeatability with 99% of the sample being processed at the set pressure
- Fully contained during the process
- Utilising industry standard media such as Ethanol (70%), Sodium Hydroxide (1 molar) and detergents such as Virkon (1%) the OS models can be easily cleaned using the following methods:
 - Process flow cleaning - simply process cleaning media through the equipment as you would your sample
 - Manual cleaning - All product path components can easily be dismantled for autoclaving or manual cleaning
- Product path materials are industry standard Stainless Steel 316L and F51 duplex or equivalent, EPDM, GLFPTFE & PEEK 450G ensuring that all sample types and industry standard cleaning media can be processed as standard
- Unit Dimensions: 475x510x455 mm (DxWxH)
- Unit Weight: 110 kg
- Electrical connections - country specific plug type and standard single phase supply via C15 or C20 connection



The dimensions, weight power and materials are for reference only. Constant Systems Ltd have the right to change these at any time.



Scan here to see a video on the use of the OS Cell Disrupter



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