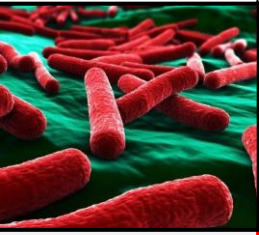
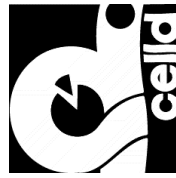


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# HFR RANGE

The HFR Range are the ideal production models, with flow rates of up to 140L/hour.

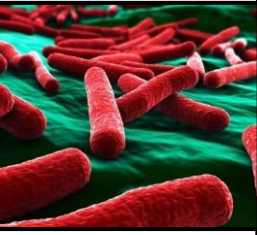


A microscopic image showing numerous red, rod-shaped bacteria, likely E. coli, against a dark green background. The bacteria are oriented in various directions, some appearing as single rods and others as small clusters.

# HFR RANGE

- Incorporates our unique disruption mechanism and precise hydraulic operating control system
- Disruption pressure easily and accurately set and displayed digitally with a range of up to 40Kpsi as standard
- Automatic shut down when process is complete
- Various flow rates are available depending on desired maximum pressure
- Pressure consistent and stable during the disruption cycle
- Standard tri-clover fittings for inlet and outlet—allows direct connections to upstream and downstream equipment
- Full scalability across full range of Constant Systems Ltd cell disruptors
- Materials in contact with sample—316L and F51 duplex stainless steel or equivalent, synthetic sapphire, EPDM, GLFPTFE & PEEK 450G \*
- IQ/OQ available on request

**Temperature control:** Coiled sample delivery tube is contained within independently sealed chamber. Circulating chiller is required for cooling.



# HFR RANGE

## High pressure unit

Maximum capacity: 140L/hr

Operating pressure: 40Kpsi

Booster pump pressure setting: 7 bar water pressure

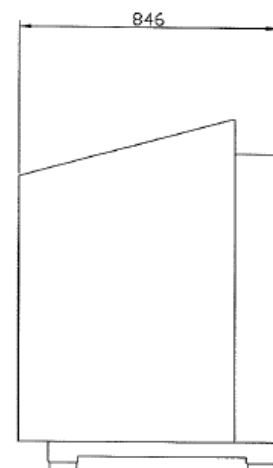
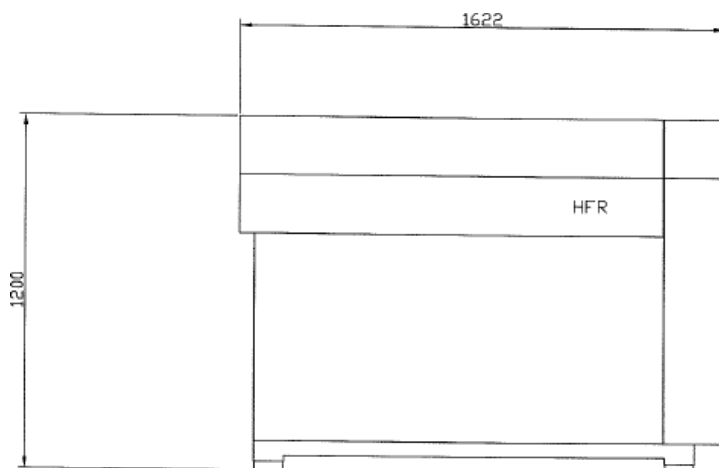
## Mechanical

Dimensions: 1622 x 846 x 1200 mm

Weight: 875kg

Weight inclusive of oil (25L): 900kg

Power requirements: 3 phases, 64AMP, 415V, 50Hz



\* Materials subject to change