

SPECIFICATION SHEET FOR TS SERIES CELL DISRUPTER

The TS Series incorporates our unique disruption head, cooling component and hydraulic operating and control system. Disrupter head mounted in stainless steel tray to avoid spillage. Quick and easy to use, touch screen operation. Easy to set and adjust pressure. Pressure is consistent and stable during disruption cycle. Scale up to B & C Series guaranteed.

FLOW RATE: Depends on power rating and maximum pressure rating.

	Max Pressure Rating PSI/BAR			
Power Rating	40KPSI(2700 Bar)	30KPSI(2000 Bar)	20KPSI(1350 Bar)	15KPSI(1000 Bar)
0.75 KW	40ml/min	55ml/min	80ml/min	115ml/min
1.1KW	100ml/min	120ml/min	180ml/min	255ml/min
2.2KW	190ml/min	240ml/min	300ml/min	310ml/min
4 KW	405ml/min	430ml/min	440ml/min	565/min

COOLING: Built in cooling facility ensures that sample temperature can be controlled with addition of chiller or bath circulator.

CONTAINMENT: Contained during operation (pipe seal drain to vented kill tank).
To contain at point of inlet and outlet pipe to vented, filtered containers.

CLEANING: Various levels available: simple clean-in-place (CIP) by running with water and disinfectant or using internal relief valve for reverse flow of cleaning fluid; taking apart, cleaning and/or autoclaving individual components.

CONTROL: Pressure control allows pressure to be accurately pre-set before starting cycle.
Touch screen control of disruption cycle.
Automatic shut down when processing complete.

MONITORING: Visual display of finished cycle, jet status, feed pump running, reservoir full, outlet temperature and disruption pressure.

SAFETY: Disruption cycle inactivated if head assembled incorrectly. Secondary pressure containment so no high pressure leakage to atmosphere. CE & ETL marked and supplied with Certificate of conformity.

MAINTENANCE: Inlet Valve, Jet, HP Seal and Target easily changed by non-technical personnel with tools supplied.

SIZE (W,D,H): 0.75, 1.1 KW = 700mm, 690mm, 750mm **WEIGHT:** 130Kgs
2.2, 4KW = 700mm, 650mm, 1,290mm **WEIGHT:** 290Kgs

MATERIAL: 316L stainless steel or equivalent. Synthetic sapphire jet.
EPDM rubber O rings, PTFE sliding seals, PEEK high pressure seals.

POWER REQUIRED: 0.75, 1.1 & 2.2 KW = single phase electricity. 4KW = three phase electricity.
Based on UK/Europe, country dependent.

SUPPLIED WITH: Inlet option G: Reservoir with removable float chamber fitted with hose tails (0.75kW: Inlet option A: open 200ml reservoir). Outlet option A: Fixed ½"(12mm) inside dia hose.
Operating and maintenance manual. One set of consumable spares. Tools.

EXTRA OPTIONS: Alternative inlet/outlet arrangements. Alternative maximum pressure heads. One Shot Head Adaptor. High Area Inlet Valve Arrangement (HAIVA) on 0.75, 1.1 & 2.2KW. Standard or Stainless steel trolley for 0.75kW & 1.1kW models. Peristaltic pump (1.1, 2.2 & 4kW).