



## Compact Food Waste Destruction Unit - FDU60

C-Tech Innovation's Food waste Destruction Unit (FDU60) has been developed to meet MoD requirements to manage mixed food waste on board ship.

International legislation and conventions mean that it is no longer permitted to discharge food waste to sea across large areas of the globe; this causes problems with storage and treatment of waste, particularly in Naval vessels where space is always at a premium.

C-Tech Innovation's new FDU60 takes in segregated food waste and produces a stable and easily handled dry product with only 1/10th the volume of the original input material. The residual waste is suitable for extended on ship storage – in excess of 60 days with no microbial growth or odour emission.

Operation of the FDU60 is fully automatic. Once loaded the FDU will process the waste, deposit the residue and carry out a full cleaning cycle. Ships' staff are required only to load the machine and then remove the residual dry waste at the completion of the processing cycle

### Benefits

- Allows prolonged operation in Marpol 73/78 Special areas
- Eliminates problems and health hazards associated with food waste storage
- Reduces or removes harbour charges for waste disposal
- Compact and easily retro-fitted in place of an existing Garbage Disposal Unit
- Non-combustion treatment process avoids noxious by-products
- Shock mounted for reliable operation in rough seas

### Specification and Services

- 60 litre capacity
- IP65 enclosure for easy cleaning of area
- 440 V 3 phase 50/60Hz
- 36 kW maximum power consumption
- Ancillary services required:
  - Low pressure air
  - Cooling water (brine or fresh)
  - Cleaning water (fresh)
  - Air vent

### Performance

- 100 kg throughput in 8 hours (estimated waste produced by crew of ~200, 3 meals daily)
- Up to 90% volume reduction
- Produces stable, non-hazardous granules
- Automatic operation

