

# FLUIDISED BED CLEANING SYSTEMS

Cleaning of Spinneretes, Spin-Packs,  
Filter Housings, Extrusion Hardware, etc.



Dies, Filter Vessels, Extruder Screws, Melt line Hardware etc., Suitable for PP, PET, PA/Nylon, HDPE, Any Plastic Derivative & Paints.

Custom build sizes (cylindrical or rectangular vessels) & systems configuration at no extra cost.

Highly efficient cleaning process having excellent heat transfer properties similar to a liquid bath by the application of fluid bed principals for safe cleaning of assembled tooling with no danger of potential damage to the hardware.

Generates no solid waste & is energy efficient. Being indirect heated (by clamp on ceramic band heaters) provides safety against spot burning, etc., leading to total control over combustion process, offering safe & uniform temperature environments.

The uniform grain size alumina oxide media particles - nontoxic, nonflammable, chemically & physically inert - does not melt or degrade, offer high usable temperature valve, reusability over & over again due to infinite life. Minimal operating cost due to low consumables and flexibility to switch-off the system when not in use, making it a low energy & economical operation.

Employees pyrolysis process at a highly controlled rate, decomposes and burns most of the polymer converting it in to off-gas and remaining carbon residue gets converted to Co<sub>2</sub> within the bed which is exhausted/sucked out by the blower before the cleaning process is completed.

Complete with Unit mounted control Panel (offer precise temperature control through PID controller and smooth Thyristor / S.S.R. Heater Control), Damper-T, Cyclone Separator, Exhaust Blower, First Charge of specially formulated Cleaning Media & Multi-tier Loading Grid.

**OPTIONAL** - High efficiency Water Scrubbers or After Burner unit for exhaust gases emission control & Essential Spares for two years trouble free operation.

Operating Temperature approx. 450°C depending on the polymer.

**Utilities** - Compressed air supply at 4-8 Kg/Cm<sup>2</sup> pressure, free of moisture & Oil, 380/400/415/440 V Three Phase, 50/60 Hz Power supply.



Twin vessel system



## AKSONS ENGINEERING LLP

All Types of Cleaning & Heating Equipment for Filter, Spin Pack & Spinnerets.  
YARN - Suction Gun, Splicer, Cutters for Textile Machinery & Lab / Testing Eqpt.

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