PRODUCT SPECIFICATION & EVALUATION

Product: High Temperature Pressure Evaporating Dryer (HyperX[®] HPXs Series)

Reviewed By: SOLTECK Engineering Dept

DESCRIPTION & SPECIFICATIONS

The High Temperature Pressure Evaporating Dryer (HyperX[®] HPXs Series) is a patented solution utilizing Combines ESGS* (Energy Smart Grid System) and Nano-technology to dry sludge efficiently. ESGS technology enables self-diagnosis of energy input requirements, thereby optimizing energy usage and associated energy costs.

- Hyper-X, the world's first proven integrated sludge treatment system, with applied nano-technology and ESGS [Energy-Efficient, self-diagnosis, energy smart grid system] combining dewatering and evaporating processes into a single machine.
- Hyper-X is an indirect contact evaporating dryer and combines filtering belt and heating roller technology. The belt compress fed sludge against the heating roller wall, destroys cell membrane and evaporates free water and absorbed water into vapor rapidly. The heating medium and sludge are separated during the drying process, therefore only reheating of heating medium to replenish the energy lost, increase drying efficiency. Unlike standard thermal dryers, the heating medium is mixed with the moisture and discharge into atmosphere. An external force to compress sludge against hot drum surface, accelerate the evaporation rate from 1.5 to 3 times than without compression.

Key features of the product

- High Performance drying process (Cost / Benefit ration), compared to other technologies.
- Multi-industry application
- High Energy Efficiency
- Low Carbon Footprint
- Ease of Installation
- Compact and Modular configuration
- Highly Automated Operation and Ease of Operation

Fig 1 – HyperX® Series HPXs-2090



Fig 2 - Material Process Flow:



