



DDI HEAT **& HEAT RECOVERY** **CUBE^{T.M.} OR SQUARE^{T.M.}** **OR RECTANGULAR^{T.M.}**

NON PLUG EXCHANGERS

A Reliable, Efficient, Economic and Environmental Solution to **SAVE** Heat & Energy in diverse applications.

APPLICATIONS

SOLID WASTE REDUCTION:

Anaerobic Digestion, Methane Recovery and Bio Solids Pelletizing.

PREHEATING OF DOMESTIC OR INDUSTRIAL RAW SLUDGES:

*Extracting heat from: Recirculated hot water or digested sludges (i.e. heat recovery), centrate digested sludge temperature augmentation reduction prior to dewatering or supernatant containing solids or cooling of digested sludge. **Heating to produce Class A biosolids (Thermophilic)***

PROCESSING LIQUIFIED PRODUCTS CONTAINING SOLIDS:

In fermentation, mining, agriculture, breweries, distilleries, pulp & paper, metallurgical and oil industries.

KEY FEATURES AND ADVANTAGES

NON PLUG DESIGN:

Minimizes maintenance with large -Non Plug gaps (3 " minimum). Large cross inlets to allow for passage of stringy, fibrous and viscous solids & debris.

EASY MAINTENANCE:

Access to all internal Passes/Layers via two opposite positioned fully gasketed doors. Flushing connections provided. Recommended maintenance only once every 5 years for most municipal applications.

COMPACT SIZE:

Small foot print with very large heat transfer surface.

LOW CAPITAL COST INVESTMENT:

Relatively short payback from recuperated energy, about 1 year on average.

IMPROVED HEAT TRANSFER EFFICIENCY:

Low fouling due to high turbulence in specially designed return bends and channels. Natural mixing.

UNIT DIMENSIONING:

Using proprietary software.

MANUFACTURING:

Standard and custom models available. Designed, fabricated, tested and stamped in accordance with ASME if required. Units fully tested.

MAJOR MATERIALS OF CONSTRUCTION:

Wetted components- SA 516-GR-70 or 304L S.STL or 316L S.STL or DSS.

Access doors, gussets- ASTM A-570

Structural members- G40.21-44W



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PATENTED