Air Stripping Towers

Single-Source Responsibility for Packing, Internals and Engineering Support

Sanitherm has partnered with "LANTEC PRODUCTS INC." to incorporate the most efficient internal packing available today

LIQUID DISTRIBUTORS

Designed to Satisfy a Broad Range of Operating Conditions

Pictured at the right is a typical liquid distributor with single parting box and weir troughs. Liquid loading, gas loading and column diameter will dictate the number of parting boxes and weir troughs. Construction is such that pressure drop is minimized - normally .25" WC or less. All liquid distributors are designed to be supported from a circumferential ring supplied as an integral part of column. Distributor furnished in sections, suitable for installation through manway of specified dimension (normally 24"). Assembly hardware included.

Pictured at the left is a typical liquid distributor designed to provide excellent water distribution over a wide turn down ratio. Note the multiple risers, orifices and drip tubes assuring gas and liquid separation, hence minimum pressure drop is .25" WC or less. Construction permits installation through manway of specified dimension (normally 24"). Hardware, leveling clamps and gasketing included.

The collector distributor pictured at the right may be used when multiple packing sections are incorporated in the column design. Risers are generous in cross section and adequately covered preventing the entrance of water and assuring a free flow of air. Pressure drop is minimized to .25" WC or less.
PACKING SUPPORTS

MULTI BEAM GAS INJECTED (MBGI) PACKING SUPPORT

This design offers almost 100% open area, hence minimum pressure drop is .1/.15" WC. MBGI packing support construction allows installation through the manway - manway size to be specified (normally 24"). All necessary assembly hardware including leveling clamps provided. MBGI support mounts on a circumferential ring furnished as an integral part of column. MBGI normally self supporting.

SIMPLE GRID SUPPORT WITH OPEN AREA 75/80%
PRESSURE DROP .45" WC

The design permits installation through the manway, the size to be specified by the column designer, normally 24". All necessary assembly hardware included. Grid supported by circumferential ring furnished as integral part of column.

<table>
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<tr>
<th>Available Materials of Construction</th>
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<tr>
<td>Plastic Resins - PP, PVC, CPVC, PVDF and FRP (Vinyl Ester)</td>
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<tr>
<td>Metal - 304ss, 316ss, Alloy20, Hastelloy, SM0254, Iconel, Monel and Titanium</td>
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TOWER PACKING SPECIFICATIONS

The tower packing material shall be 3.5" LANPAC®, as manufactured by LANTEC PRODUCTS, INC. in Agoura Hills, California. The packing product shall be produced from virgin polypropylene material and shall be a symmetrical configuration with a nominal diameter of about 3.5" and shall have a minimum of 30,000 liquid dripping points in each cubic foot. The surface elements of the packing shall be evenly spaced throughout the packing structure to effectuate a uniform distribution of both liquid and gas flows through the packing section. The packing product shall have superior wetting characteristics so as to prevent plugging or solids build-up on the packing surfaces as well as to enhance the mass transfer capabilities of the packing.

The packing shall have a geometric surface area of 44 ft²/cu.ft., a void fraction of 92.5% and a packing factor of 14 (1/ft.). The "Packing Factor/Surface Area" ratio shall not exceed 0.318. The pressure drop through the packing shall not exceed 0.22 inches of equivalent water column head per foot of packing depth, at a liquid loading rate of 10,000 lbs/hr/ft² and a gas loading rate of 1,500 lbs/hr/ft².