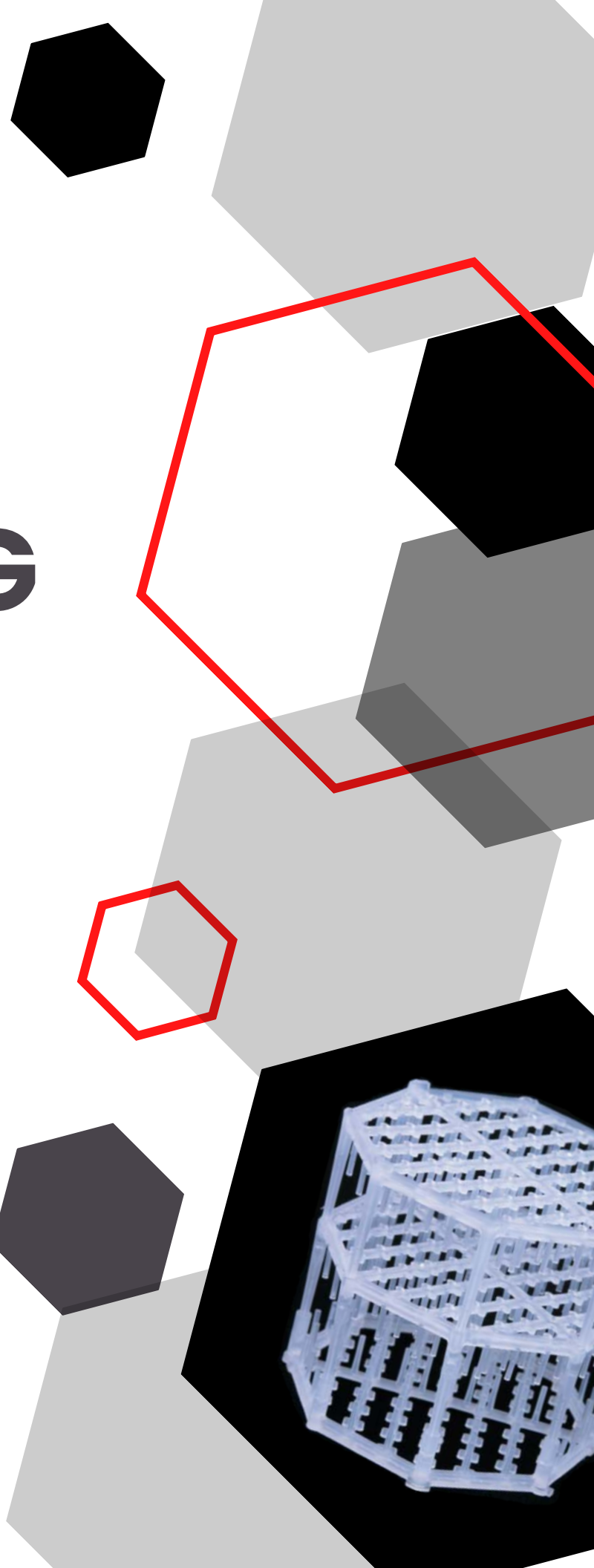


Q-PAC® TOWER PACKING



ADVANCED TOWER PACKING
DESIGNER FOR 30+ YEARS

www.lantecp.com





Q-PAC® Tower Packing

is the heart of your wet scrubbing/ air stripping equipment. Rather than build or operate your system on old specs calling for outdated packings, choose Q-PAC® over conventional, round packings for the most cost-effective emission control.

Q-PAC's unique drip point technology leads to the most effective mass transfer with lower capital and O&M costs.

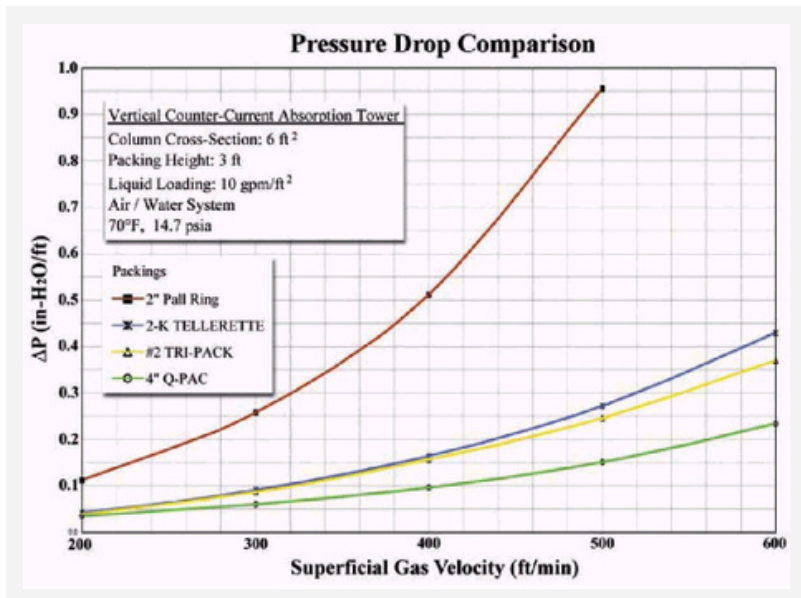
Visit us online for Q-PAC® data and numerous case studies. Then call Lantec for a free packed bed design.

 www.lantecp.com

What Q-PAC® Can Do for Your Design

Amazingly Low Pressure Drop

Q-PAC® saves electric power by reducing blower load.



1. Smaller Tower Diameters

Reduced Capital Costs
 Smaller System Footprint

2. Lower Pressure Drop

Smaller Blower Motors
 30-50% Higher Capacity
 Lower Fan Power Costs
 Less Noise

3. Smaller Recirculation Pumps

Reduced Equipment and Operation Costs

4. Higher Flow Rates in Existing Towers

5. Smaller Mist Eliminators

6. Less Packing Volume

7. Q-PAC is a Lower Cost Packing

Especially When Made of Specialty Plastics

8. Fouling and Plugging Resistant

Reduced Maintenance Costs
 Ideal for Scrubbers Using Reclaimed Water

A Major Advance in Packed Tower Technology

High-capacity Q-PAC® creates exciting new possibilities in packed tower design. Its patented structure uses drip points and gas turbulence to create millions of small droplets, multiplying the surface area for gas-liquid contact with minimal resistance to gas flow. Q-PAC® provides the most efficient mass transfer with low pressure drop.



Cost Savings Example - Odor Control Scrubber for H2S Removal

| | Traditional Design | Modern Design | Traditional Design | Modern Design |
|--------------------------|-----------------------|-----------------------|---------------------------|---------------------------|
| Packing Type: | 2" Pall Rings | Q-PAC® | 50 mm Pall Rings | Q-PAC® |
| Air Flow Rate: | 45,000 acfm | 45,000 acfm | 75,000 Am ³ /h | 75,000 Am ³ /h |
| Tower Diameter: | 12 ft | 9 ft | 3500 mm | 2750 mm |
| Superficial Velocity: | < 400 ft/min | > 600 ft/min | < 2.2 m/s | > 3 m/s |
| Tower Height: | 22 ft | 22 ft | 6700 mm | 6700 mm |
| Packed Height: | 10 ft | 10 ft | 3000 mm | 3000 mm |
| Packing Pressure Drop: | > 5" WC | < 3.5" WC | >15 mbar | < 9 mbar |
| Packing Volume: | 1,130 ft ³ | 640 ft ³ | 29 m ³ | 18 m ³ |
| Recirculation Flow Rate: | 750 gpm | 500 gpm | 170 m ³ /h | 120 m ³ /h |
| System Cost: | \$140,000 | \$94,000 | \$140,000 | \$94,000 |
| Savings: | n/a | \$46,000 (33%) | n/a | \$46,000 (33%) |

What Q-PAC® Can Do for Your Design (cont')

Outstanding Resistance to Fouling

Q-PAC's uniformly spaced bar-and-rod design and self-cleaning properties minimize plugging by mineral scale or biological growth. That means less down time for maintenance.

Higher Gas Velocity, Smaller Equipment

Q-PAC® can be used at higher gas velocities than old-style tower packings. Scrubbers and gas-cooling towers can be designed at well above conventional velocities without sacrificing efficiency. Capital costs can be cut by building smaller-diameter columns, often with smaller pumps and mist eliminators.



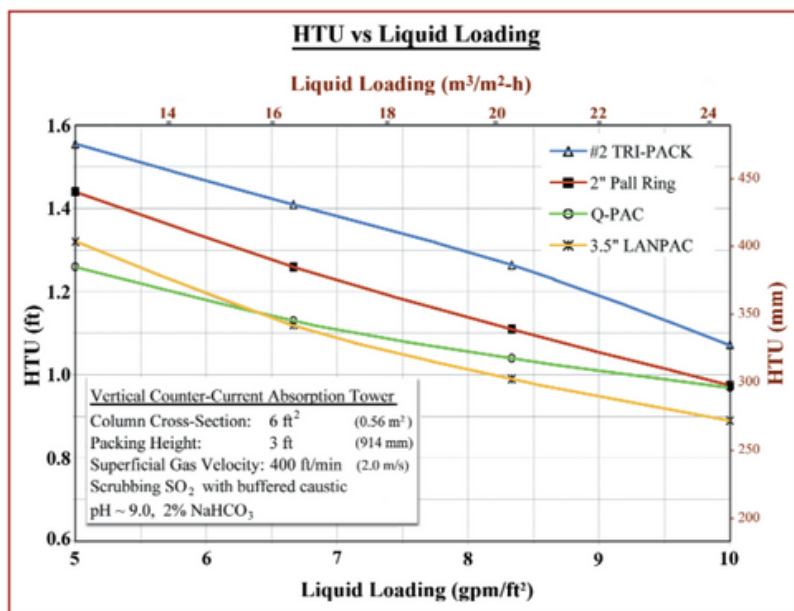
Patented Q-PAC®

Capacity-Boosting Upgrades

Older equipment using conventional packings can be retrofitted with Q-PAC® to obtain additional capacity at a fraction of the cost of another tower.

Lower Packing Cost

Q-PAC®'s low weight per cubic foot reduces packing costs, especially when specialty thermoplastics are needed for heat and corrosion resistance.

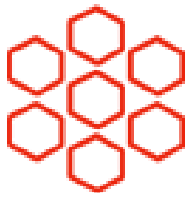


Q-PAC® Physical Characteristics

| | |
|------------------|------------------------|
| Dimensions | 3.25" x 3.75" |
| Void Fraction | 96.3% |
| Weight | |
| Polypropylene | 2.1 lb/ft ³ |
| PVDF | 4.1 lb/ft ³ |
| Number of Pieces | 33/ft ³ |
| Packing Factor | 7/ft |
| Drip Points | 11,000/ft ³ |

(Metric Units)

| | |
|------------------|------------------------|
| Dimensions | 8.25 cm x 9.5 cm |
| Void Fraction | 96.3% |
| Weight | |
| Polypropylene | 33.7 kg/m ³ |
| PVDF | 65.8 kg/m ³ |
| Number of Pieces | 1165/m ³ |
| Packing Factor | 23/m |
| Drip Points | 388,000/m ³ |

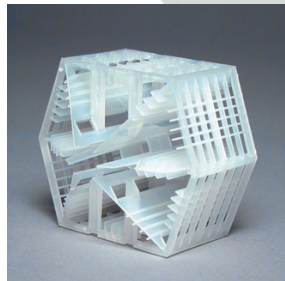
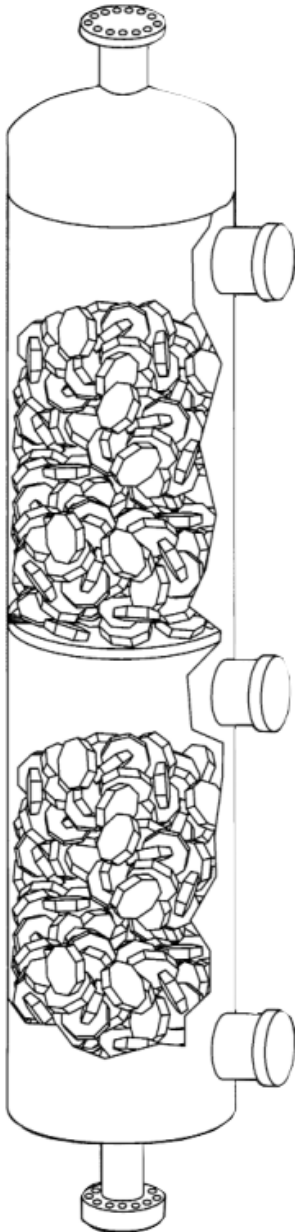


LANTEC PRODUCTS INC.

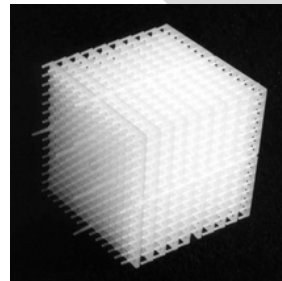
Lantec sells a line of plastic, ceramic, and metal media for use in various applications including:

- **Wet Scrubbing**
- **Air Stripping**
- **VOC Control**
- **Biotreatment**
- **Mist Elimination**
- **Distillation**

For two decades, Lantec has developed technical expertise in numerous applications involving tower packings. Lantec continues to develop new lines of packings and offers leading edge knowledge and support for its products.



LANPAC® offers excellent mass transfer at high liquid loadings.



HD Q-PAC® structured media offers ultra-high surface area.



NUPAC®: very high surface area random packing.



LMLM® offers high heat recovery with low ΔP



Saddles: low cost ceramic media.



Low cost metal tower packing.

CONTACT US

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