

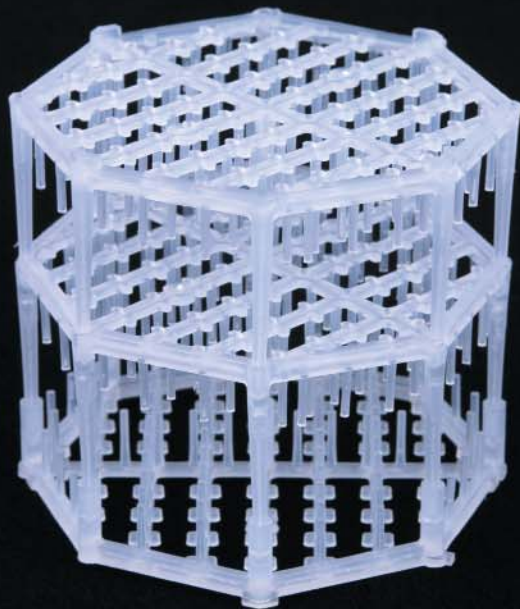
Q-PAC[®] Tower Packing

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 Rather than build or operate your system on old specs calling for outdated packings, choose Q-PAC[®] over conventional, round packings for the most cost-effective emission control.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/qpac



*US Patent #5,458,817
Worldwide Patents Pending*



Lantec Products Inc.

*Lantec has designed advanced tower packings for over 20 years.
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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

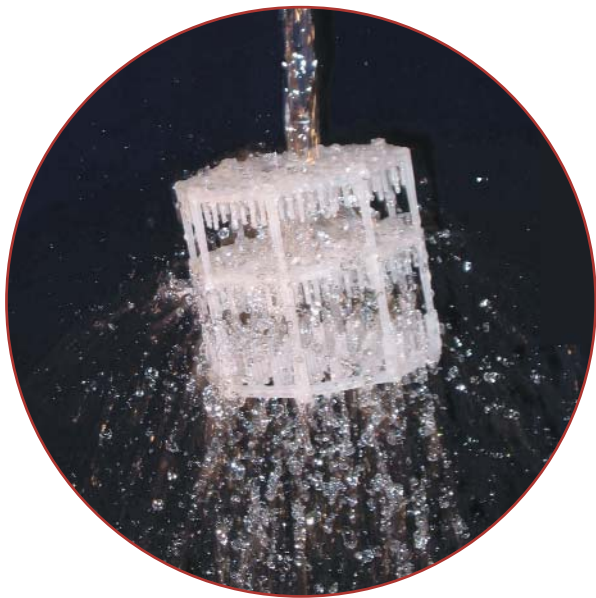
6. Less Packing Volume

7. Q-PAC is a Lower Cost Packing

- Especially When Made of Specialty Plastics

8. Fouling and Plugging Resistant

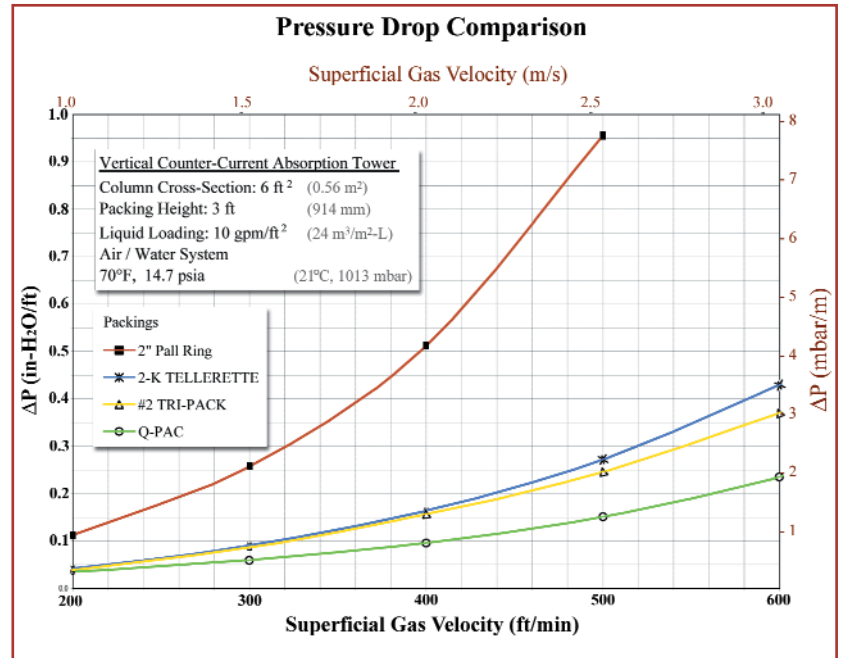
- Reduced Maintenance Costs
- Ideal for Scrubbers Using Reclaimed Water



What Q-PAC® Can Do for Your Design

Amazingly Low Pressure Drop

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



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	(metric)	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%)

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.

Capacity-Boosting Upgrades

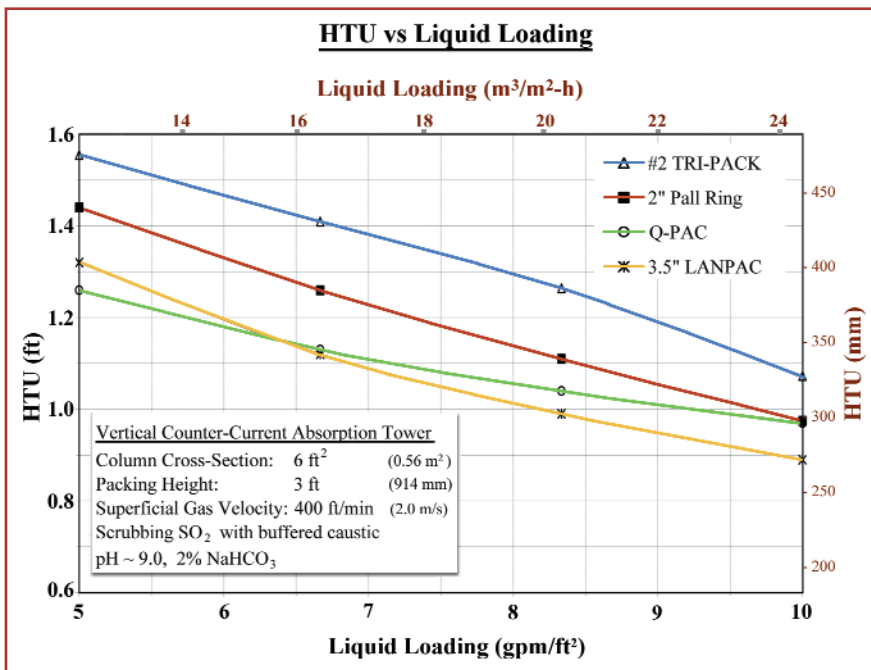
Older equipment using conventional packings can be retrofitted with Q-PAC® to obtain additional capacity at a fraction of the cost of another tower.

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.



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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

