



**LANPAC® is the best tower packing for:**

- Air Strippers
- Degasification
- High Load Scrubbers
- Aeration for H<sub>2</sub>S Removal
- Vacuum Deaeration
- Decarbonators for Corrosion Control



# **LANPAC®**

## **It Only Seems Like Magic!**

(but LANPAC's price and performance are no illusion)



[www.lantecp.com](http://www.lantecp.com)

# LANPAC: Works Like Magic?

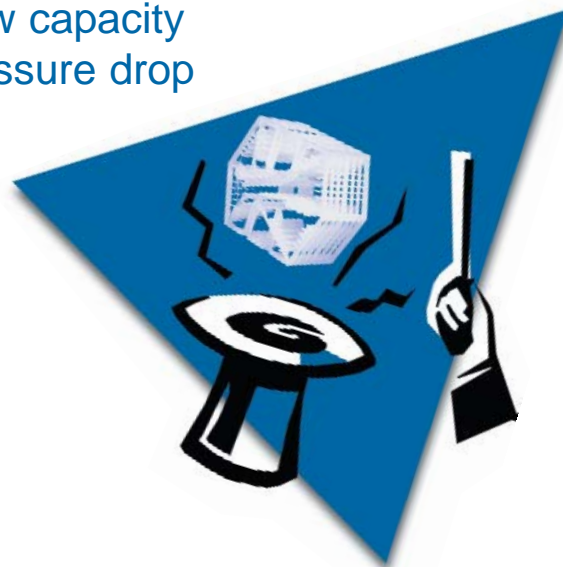
LANPAC® from Lantec Products has proven to be the best tower packing for applications with high liquid loadings, including:

1. Groundwater remediation by air stripping
2. Aeration of water for H<sub>2</sub>S removal
3. CO<sub>2</sub> removal for corrosion control
4. Scrubbers with high liquid flux (>10 gpm/ft<sup>2</sup>)

The science behind the magic lies in the advanced geometry of LANPAC®. **A tower packed with LANPAC® outperforms the same tower packed with conventional round packings.** Towers using LANPAC® have higher capacity, so they can be built smaller at lower cost.

## Benefits of LANPAC®

- #1 packing choice among OEMs
- Very high surface area
- Plugging resistant
- Reduces capital and operating costs
- High flow capacity
- Low pressure drop



LANPAC® comes in two sizes (3.5" and 2.3") and is available in a number of thermoplastics.

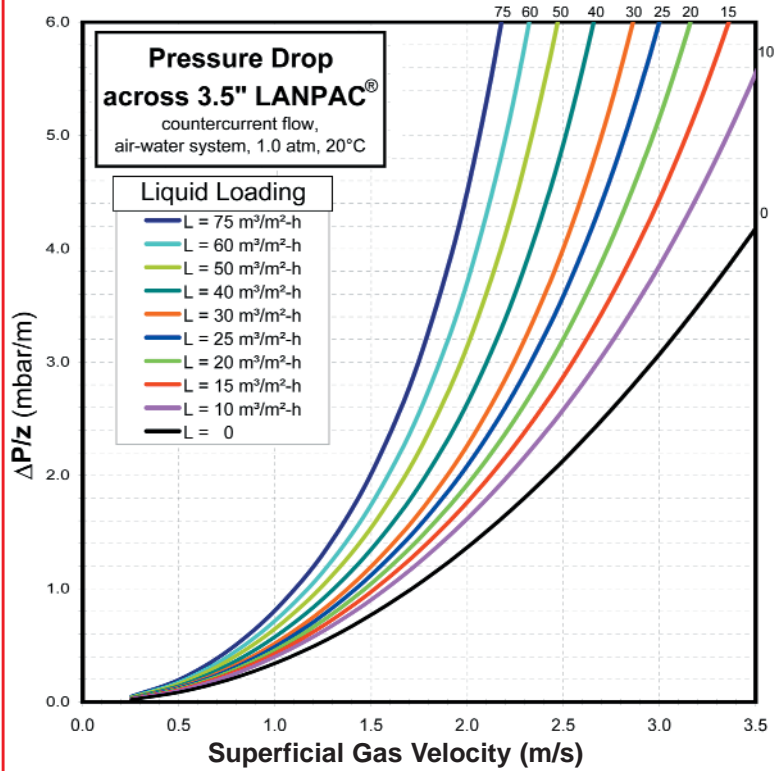
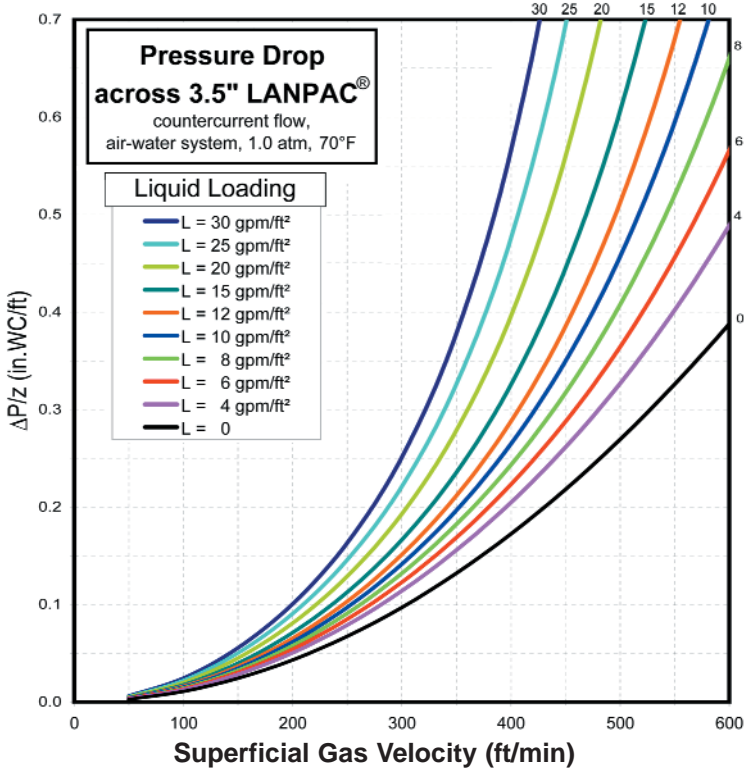
## Performance Data

3.5" LANPAC® in Air Strippers for VOC Removal from water at 68°F (20°C)					
Contaminant	Air/H <sub>2</sub> O Ratio (ft <sup>3</sup> /ft <sup>3</sup> or m <sup>3</sup> /m <sup>3</sup> )	Liquid Loading (gpm/ft <sup>2</sup> ) (m <sup>3</sup> /m <sup>2</sup> -h)	HTU <sub>OL</sub> (ft) (cm)		
Acetone	1500:1	3 7	3.77	115	
Benzene	60:1	25 61	2.22	68	
Carbon Tetrachloride	30:1	25 61	2.97	91	
Chloroform	75:1	25 61	3.15	96	
Ethylbenzene	60:1	25 61	2.50	76	
Methyl Ethyl Ketone	1000:1	4 10	4.24	129	
MTBE	300:1	12 29	2.49	76	
Methylene Chloride	30:1	25 61	3.03	92	
Naphthalene	400:1	8 20	2.46	75	
Perchloroethylene	30:1	25 61	3.03	92	
Toluene	60:1	25 61	2.43	74	
Trichloroethylene	10:1	25 61	3.98	121	
Trichloroethylene	30:1	25 61	3.12	95	
Vinyl Chloride	30:1	25 61	2.56	78	
p-Xylene	60:1	25 61	2.46	75	

3.5" LANPAC® for Dissolved Gas Removal from water at 68°F (20°C)					
Contaminant	Air/H <sub>2</sub> O Ratio	Liquid Loading (gpm/ft <sup>2</sup> ) (m <sup>3</sup> /m <sup>2</sup> -h)	HTU <sub>OL</sub> (ft) (cm)		
NH <sub>3</sub> (at pH >11)	3000:1	1.5 4	2.37	72	
CO <sub>2</sub> (at pH<5.5)	25:1	25 61	1.72	52	
H <sub>2</sub> S (at pH<6.5)	30:1	25 61	1.95	59	
Methane	25:1	25 61	1.36	41	
Nitrogen	(vacuum)	25 61	1.56	48	
Oxygen	(vacuum)	25 61	1.46	45	
Ozone	25:1	25 61	1.36	41	

3.5" LANPAC® For Gas Absorption from air at atmospheric pressure						
Gas/Absorbent	Gas Velocity (ft/min) (m/s)	Liquid Loading		HTU <sub>OG</sub>		
		gpm ft <sup>2</sup>	m <sup>3</sup> m <sup>2</sup> -h	(ft)	(cm)	
Cl <sub>2</sub> /NaOH	300	1.5	12 29	1.06	32	
NO <sub>2</sub> /NaHS	300	1.5	12 29	2.84	87	
CO <sub>2</sub> /NaOH	100	0.5	15 37	5.22	159	
Ozone/Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	300	1.5	12 29	1.17	36	
ClO <sub>2</sub> /Chilled Water	150	0.8	60 122	1.21	37	
Ammonia, Amines	see www.lantecp.com/qpac					
Acid Gases	see www.lantecp.com/qpac					
H <sub>2</sub> S, Mercaptans	see www.lantecp.com/qpac					

# LANPAC® Technical Data

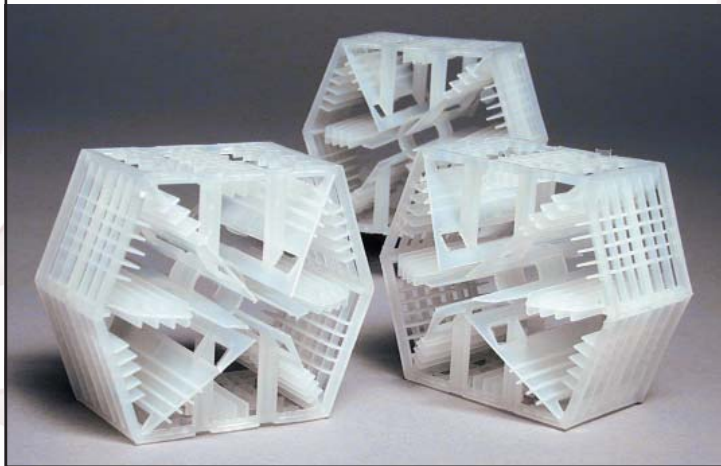


LANPAC® Physical Characteristics		
Nominal Size	3.5"	2.3"
	90 mm	60 mm
Void Fraction	92.5%	89%
Weight (polypropylene)	4.2 lb/ft <sup>3</sup>	6.2 lb/ft <sup>3</sup>
	67 kg/m <sup>3</sup>	99 kg/m <sup>3</sup>
Geometric Surface Area	44 ft <sup>2</sup> /ft <sup>3</sup>	68 ft <sup>2</sup> /ft <sup>3</sup>
	144 m <sup>2</sup> /m <sup>3</sup>	222 m <sup>2</sup> /m <sup>3</sup>
Piece Count	50/ft <sup>3</sup>	200/ft <sup>3</sup>
	1765/m <sup>3</sup>	7060/m <sup>3</sup>
Packing Factor	14/ft	21/ft
	46/m	69/m

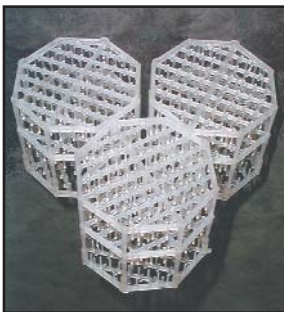
Visit the Lantec web site for additional data, metric charts, LANPAC® case studies, and more:

[www.lantecp.com/lanpac](http://www.lantecp.com/lanpac)

**Patented LANPAC® tower packing**



Other advanced tower packings and media from Lantec Products:



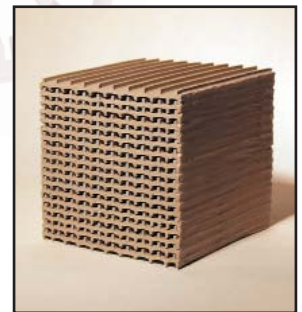
**Q-PAC®** for large scrubbers and odor control systems



**HD Q-PAC®** for biotrickling filters, life support systems, and oil water separators



**NUPAC®** for mass transfer and mist elimination



**MLM®** heat recovery media for RTOs

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