



LANPAC[®] is the best tower packing for:

- Air Strippers
- Degasification
- High Load Scrubbers
- Aeration for H₂S 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

LANPAC: Works Like Magic?

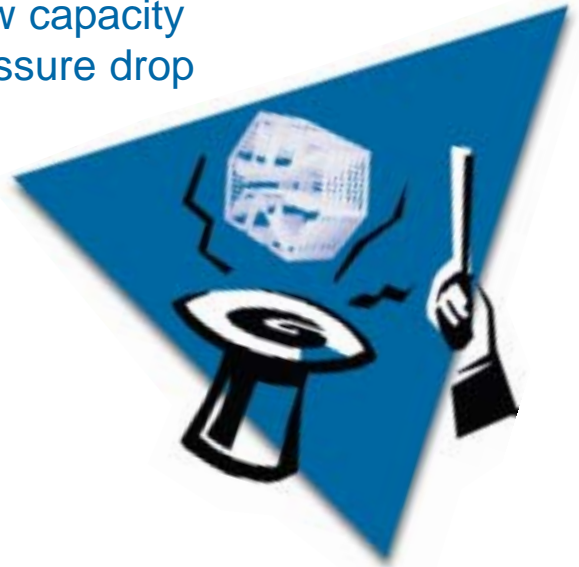
LANPAC® from Lantec Products has proven to be the best tower packing for applications with high liquid loadings, including:

1. Groundwater remediation by air stripping
2. Aeration of water for H₂S removal
3. CO₂ removal for corrosion control
4. Scrubbers with high liquid flux (>10 gpm/ft²)

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. Call Lantec for a **free packed bed design**: (781) 769-1901.

Performance Data

3.5" LANPAC® for Dissolved Gas Removal from water at 68°F (20°C)

Contaminant	Air/H ₂ O Ratio	Liquid Loading		HTU _{OL}	
		(gpm/ft ²)	(m ³ /m ² -h)	(ft)	(cm)
NH ₃ (at pH >11)	3000:1	1.5	4	2.37	72
CO ₂ (at pH<5.5)	25:1	25	61	1.72	52
H ₂ 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

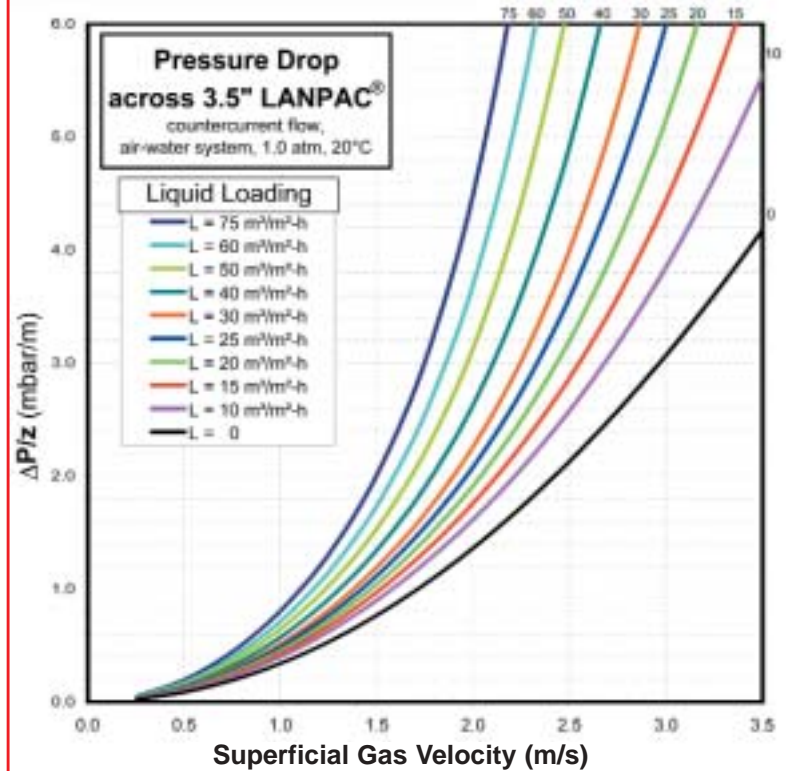
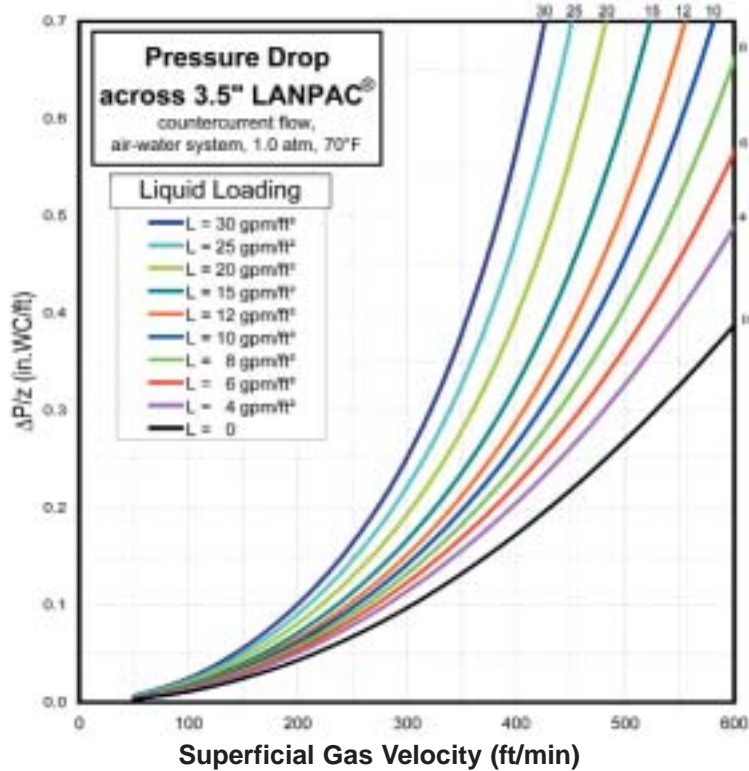
3.5" LANPAC® in Air Strippers for VOC Removal from water at 68°F (20°C)

Contaminant	Air/H ₂ O Ratio (ft ³ /ft ³ or m ³ /m ³)	Liquid Loading		HTU _{OL}	
		(gpm/ft ²)	(m ³ /m ² -h)	(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 Gas Absorption from air at atmospheric pressure

Gas/Absorbent	Gas Velocity (ft/min) (m/s)	Liquid Loading		HTU _{OG}		
		gpm/ft ²	m ³ /m ² -h	(ft)	(cm)	
Cl ₂ /NaOH	300	1.5	12	29	1.06	32
NO ₂ /NaHS	300	1.5	12	29	2.84	87
CO ₂ /NaOH	100	0.5	15	37	5.22	159
Ozone/Na ₂ S ₂ O ₃	300	1.5	12	29	1.17	36
ClO ₂ /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 ₂ S, Mercaptans	see www.lantecp.com/qpac					

LANPAC® Technical Data



LANPAC® Physical Characteristics

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

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

www.lantecp.com/lanpac

Patented LANPAC® tower packing



Other advanced tower packings and media from Lantec Products:



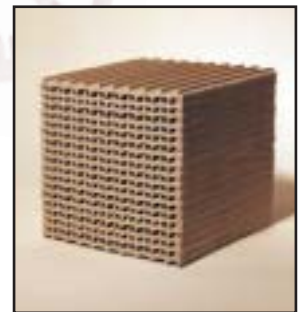
Q-PAC® for large scrubbers and odor control systems



HQ-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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