

# Degasys Ultimate

With a new amorphous fluoropolymer membranous tubing as well as our new proprietary miniature vacuum pump built in, *Degasys Ultimate* features minuscule internal volumes and outstanding degassing characteristics unavailable elsewhere, not to speak of the incredibly down-sized dimensions and weight.

*Degasys Ultimate* is equipped with independent vacuum chambers for respective channels to avoid possible cross contamination.

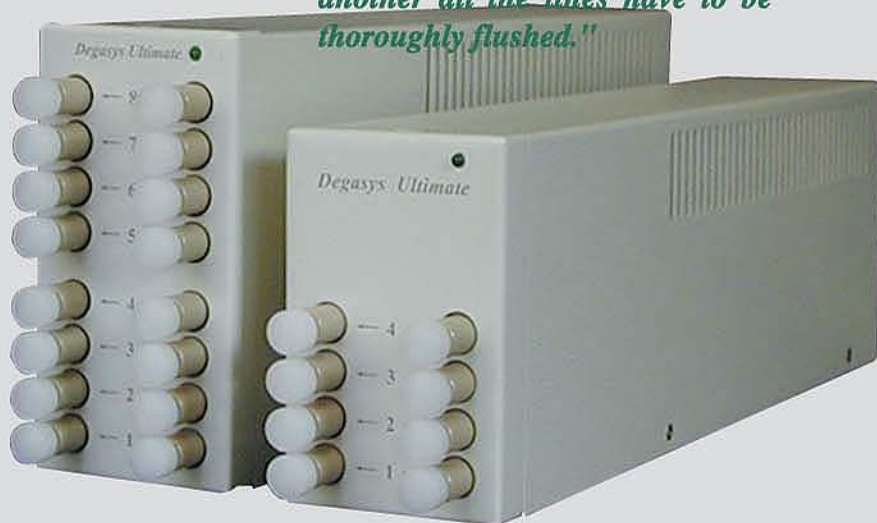
## DEGASSING EFFICIENCY

The membranous tubing of an amorphous fluoropolymer has gas diffusion rates of 200 - 300 times that of PTFE tubing. The enhanced gas transport rates provide faster degassing response times with shorter lengths of tubing, excellent mechanical and physical properties at temperatures up to 300°C, better mechanical properties including tubular burst strength when compared with PTFE tubing, higher coefficient of friction than PTFE tubing for secure end-fitting attachments, and excellent chemical resistance.

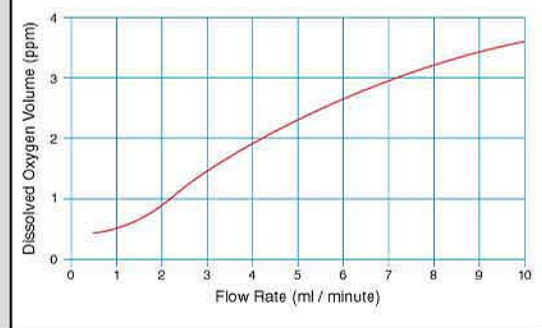
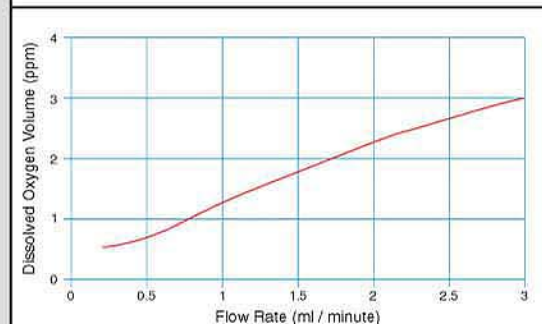
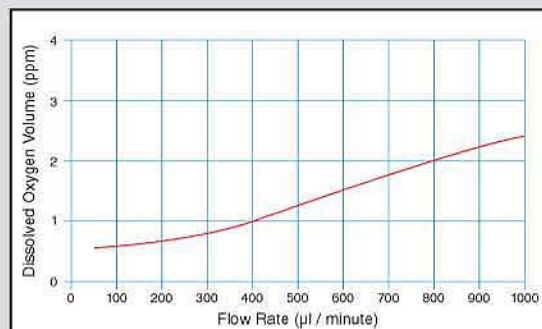
## INTERNAL VOLUME

VOLUME	MAX. FLOW RATE
200 $\mu$ l	1 ml/minute/channel
350 $\mu$ l	3 ml/minute/channel
650 $\mu$ l	10 ml/minute/channel

*"The extremely small internal volumes are quite beneficial not only to chromatograms but to chromatographers who use rather expensive solvents, as when changing from one solvent to another all the lines have to be thoroughly flushed."*



8-channel and 4-channel *Degasys Ultimate*



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Models	Flow Rate/ Channel Max.	Residual Dissolved Oxygen	Pressure Loss	Internal Volume	Wetted Parts	W×H×D (mm)		Weight (kg)	
						1 - 4 CH	5 - 8 CH	1 - 4 CH	5 - 8 CH
DU1001 DU5001 DU2001 DU6001 DU3001 DU7001 DU4001 DU8001	1 ml/minute max.	0.7 ppm max. at flow rate of 0.1 ml/minute	0.07 kPa (0.01 psi) at flow rate of 0.1 ml/minute	0.2 ml	Teflon AF PTFE PPS ETFE	50×80×290	50×100×290	1.4	1.6
DU1003 DU5003 DU2003 DU6003 DU3003 DU7003 DU4003 DU8003	3 ml/minute max.	0.7 ppm max. at flow rate of 0.5 ml/minute	0.56 kPa (0.081 psi) at flow rate of 0.5 ml/minute	0.35 ml					
DU1010 DU5010 DU2010 DU6010 DU3010 DU7010 DU4010 DU8010	10 ml/minute max.	0.6 ppm max. at flow rate of 1 ml/minute	2.1 kPa (0.3 psi) at flow rate of 1 ml/minute	0.65 ml					

- Note
1. The first digit from left indicates the number of channel.
  2. The maximum flow rates, dependent upon applications, are for reference only.
  3. Both the residual dissolved oxygen and the pressure loss are as measured, when aerated deionized water is used at 20°C - 25°C (68°F - 77°F).
  4. The standard sizes of the outer diameter of the tubing are  $\phi$ 3mm or  $\phi$ 1/8". It is also available in  $\phi$ 2mm or  $\phi$ 1/16".