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

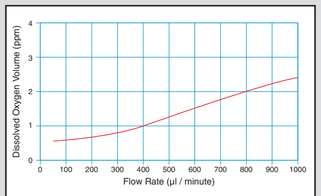
The membranous tubing of an amorphous fluoropolymer has gas diffusion rates of 200 - 300 times that of PTFE tubing. The enhanced gas transport rates provide faster degassing response times with shorter lengths of tubing, excellent mechanical and physical properties at temperatures up to 300℃, better 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.

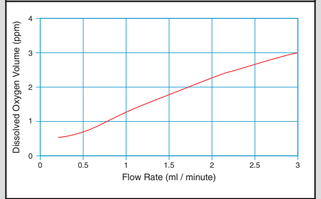
INTERNAL VOLUME

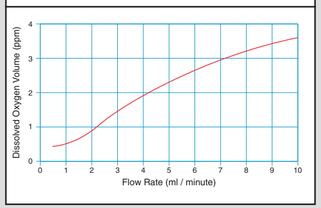
VOLUME	MAX. FLOW RATE
200 µl	1 ml/minute/channel
350 µl	3 ml/minute/channel
650 µl	10 ml/minute/channel

"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*







Degasys Populaire

The current long-time best selling *Degasys* which incorporates PTFE membranous tubing has also been down-sized maintaining the high degassing characteristics and providing smaller internal volumes than *Degasys* thanks to the proprietary new miniature vacuum pump built in.

Degasys Populaire has also independent vacuum chambers built in for respective channels like *Degasys Ultimate* to avoid possible cross contamination.

DEGASSING EFFICIENCY

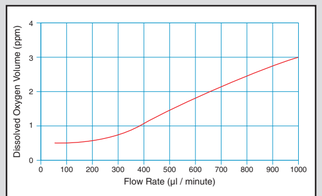
The improved degassing efficiency curves are shown right, which are achieved by higher degrees of vacuum than before.

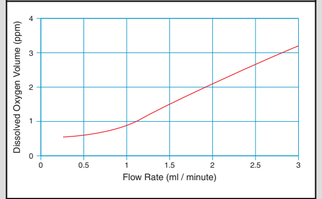
INTERNAL VOLUME

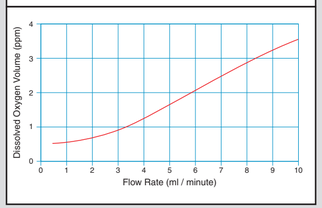
VOLUME	MAX. FLOW RATE
0.8ml	1 ml/minute/channel
2.5ml	3 ml/minute/channel
7.2ml	10 ml/minute/channel

"The internal volumes, although not so much minimized as Degasys Ultimate, can still compare very favorably with all of the other degassing instruments available in the market today."

8-channel and 4-channel *Degasys Populaire*



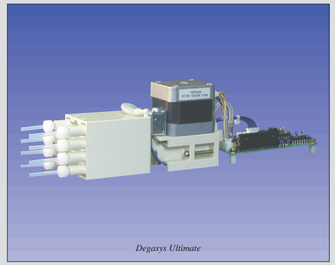


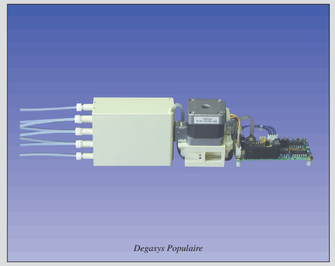


OEM Modules

Both *Degasys Ultimate* and *Degasys Populaire* are available in OEM modules to build into the pump systems as well as stand-alone models.

For convenience of incorporating into the pump system, the OEM modules can be of a vertical-type like the stand-alone models or of a horizontal-type. Major components such as vacuum pumps, vacuum chambers, and print circuit boards can be separately located.





Degasys Ultimate

Models	Flow Rate/ Channel Max.	Residual Dissolved Oxygen	Pressure Loss	Internal Volume	Wetted Parts	W×H×D(mm) 1 - 4 CH	W×H×D(mm) 5 - 8 CH	Weight(kg) 1 - 4 CH	Weight(kg) 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℃ - 25℃ (68℉ - 77℉).
4. The standard sizes of the outer diameter of the tubing are ø3mm or ø1/8". It is also available in ø2mm or ø1/16".

Degasys Populaire

Models	Flow Rate/ Channel Max.	Residual Dissolved Oxygen	Pressure Loss	Internal Volume	Wetted Parts	W×H×D(mm) 1 - 4 CH	W×H×D(mm) 5 - 8 CH	Weight(kg) 1 - 4 CH	Weight(kg) 5 - 8 CH
DP1001 DP5001 DP2001 DP6001 DP3001 DP7001 DP4001 DP8001	1 ml/minute max.	0.7 ppm max. at flow rate of 0.1 ml/minute	1.5 kPa(0.22 psi) at flow rate of 0.1 ml/minute	0.8 ml	PTFE PPS ETFE	50×80×290	50×150×290	1.5	2.1
DP1003 DP5003 DP2003 DP6003 DP3003 DP7003 DP4003 DP8003	3 ml/minute max.	0.7 ppm max. at flow rate of 0.5 ml/minute	2.5 kPa(0.36 psi) at flow rate of 0.5 ml/minute	2.5 ml					
DP1010 DP5010 DP2010 DP6010 DP3010 DP7010 DP4010 DP8010	10 ml/minute max.	0.6 ppm max. at flow rate of 1 ml/minute	1.7 kPa(0.24 psi) at flow rate of 1 ml/minute	7.2 ml					

5. The above dimensions do not include the rubber footings (3mm high), tubing connectors and other projected parts.
6. The above specifications are of the degassing performances when a dual, paralleled plunger pump is used, and may not be applicable to other types of pump.
7. Power supply: AC85 - 264V 50/60Hz 11W

OEM Modules

Dimensions W×H×D(mm)	1 - 4 CH Ultimate	1 - 4 CH Populaire	5 - 8 CH Ultimate	5 - 8 CH Populaire
Degassing Module	43×45×58	43×68×93	43×90×58	43×136×93
Vacuum Pump	43×68×70	43×68×70	43×68×70	43×68×70
Controller	45×20×120	45×20×120	45×20×120	45×20×120
Weight(kg)	0.6	0.7	0.7	1.0

Note
1. Please specify the corresponding stand-alone model number in enquiring your OEM modules.
2. The width and height of degassing modules and vacuum pumps can be reversed. Other configurations are also available.
3. The above dimensions do not include tubing connectors and other projected parts.
4. Power supply: DC24V 0.5A