



A NEW STAND ALONE ON-LINE DEGASSER WITH THE SMALLEST FOOTPRINT AVAILABLE

BIOTECH DEGASi COMPACT IS A NEW LINE OF STAND ALONE DEGASSERS WHICH COMBINE THE CUTTING EDGE SYSTEC™ TECHNOLOGY WITH A VERY SMALL FOOTPRINT AT AN AFFORDABLE COST.

DEGASi Compact is available with 2, 4 or 6 degassing channels in a housing with only 167x56 mm footprint. This is possible due to the development of a new single stage vacuum pump with a small built in control board and new 285µl Systec AF™ vacuum chambers.

Closed-loop control with a continuously running vacuum pump gives a very smooth baseline. The speed of the pump is varied to maintain an exact vacuum level inside the vacuum chambers.

The degasser is equipped with built in error detection functionalities. A bi-color diode on the front panel gives information about the performance.

Despite the small size of the unit it has an expected life time of more than 6 years.



PART NO	DESCRIPTION
0004-2285	2-channel 285µl Biotech DEGASi Compact Stand Alone Degasser
0004-4285	4-channel 285µl Biotech DEGASi Compact Stand Alone Degasser
0004-6285	6-channel 285µl Biotech DEGASi Compact Stand Alone Degasser



Innovations United
300 East 57th Street Suite 11J
New York, NY 10022
Tel: 212-204-0075
Fax: 414-313-6368
Email: info@innovationsunited.com
Web: www.innovationsunited.com



CHAMBER TECHNICAL DATA

Degassing Channel Tubing: Systec AF™
 Degassing Channel Volume: 285 ul / channel (18 inches)
 Degassing Channel Pressure Rating: 70 PSIG
 Wetted Materials: Systec AF™, PPS, PEEK and Glass-filled PTFE
 Vacuum Housing Material: Glass-filled PPS (Polyphenylene Sulfide)
 Hardware Material: Stainless Steel
 Liquid Connections: 1/4" - 28 UNF-1B
 Vacuum Connections: Barb connector for 1/8" ID elastomeric tubing
 Passage Size: 0.035" (0.889 mm) diameter
 Degasser Nominal Performance: 2mL/ min per channel

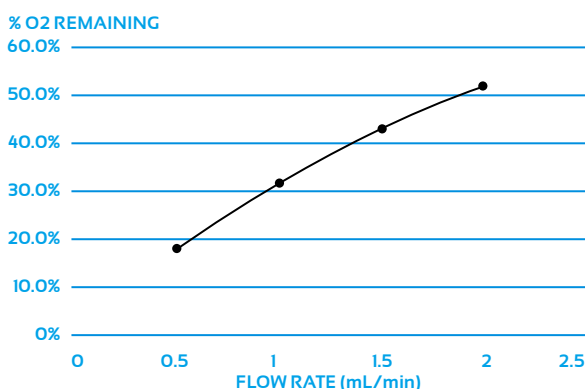
VACUUM PUMP TECHNICAL DATA

Air Flow (no vacuum): 580 SCCM @ 250 RPM; 140 SCCM @ 60 RPM
 Vacuum Performance Specification: <150 mmHg (20kPa) @ 120 RPM & 1 SCCM air flow (Test Criteria)
 Pump Head Continuous Purge Air Flow Rate: 11 SCCM
 Materials in Fluid Path: Stainless Steel, Polypropylene, PTFE, EPDM Rubber, PPS
 Expected Lifetime: >6 years (continuous run @ 100 RPM 12 hours/day 365 days/year)

REGULATORY COMPLIANCE INFORMATION

As of the date of publication, this product is compliant with current RoHS and WEEE regulations.

DEGASSER (1 CHANNEL) NOMINAL PERFORMANCE CHART



PUMP CONTROL SPECIFICATIONS

Power Requirements: 24 VDC @ 0.75 Amp max. (<0.5 Watt typical)

VACUUM SENSOR CALIBRATION ACCURACY (NIST Traceable)

5 mmHg absolute over an ambient operating temperature range of 10-35°C.
 Closed-Loop Control Setpoint 120 mmHg (16kPa) absolute (pump runs at high RPM until near setpoint, then speed is varied to maintain a value of 120 mmHg (16kPa) absolute load independent).

LED INDICATORS

Blinking Rate: 125 ms on, 125 ms off, using a Single Bi-Color LED
 Power on, vacuum above control range: Amber Blinking
 Vacuum reaches upper control range: Green Blinking
 Vacuum reaches control set point: Green Solid
 Error Condition, Shutdown: Amber Solid

ERRORS DETECTED

- 1 Pumpdown: Unable to reach 120 mmHg (16kPa) in 10 minutes.
- 2 High Vacuum: Vacuum >200 mmHg (26.7kPa) for > 10 min.
- 3 Sensor Signal: Sensor >800 mmHg (106.7kPa) or <10 mmHg (1.3kPa).



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