

## System® Stand Alone MINI Vacuum Degassing System

- ▶ Ultra-high degassing efficiency
- ▶ Low volume, easy to prime
- ▶ Patented control eliminates baseline fluctuations
- ▶ Single lumen design for consistent degassing
- ▶ Inert flow path
- ▶ 5+ year lifetime

The System Stand Alone MINI HPLC vacuum degassing system for HPLC is a high efficiency in line module that removes dissolved gases from HPLC mobile phases. Its unique design assures reliable continuous operation and the highest level of continuous performance available without the need for helium degassing. Up to five solvent lines may be degassed simultaneously by one unit.

### ZHCR® Control with Built-in Test Diagnostics

- ▶ Microcontroller self-test vacuum sensor validation on power-up
- ▶ Continuous vacuum system monitoring to ensure optimum operational conditions are maintained
- ▶ Vacuum system fault detection and shutdown function indicators

### AF / ZHCR Degassing Technology

Flow-through vacuum degassing chamber with a single amorphous perfluorinated copolymer (System AF®) degassing membrane, enabling degassing efficiency 50 times that of PTFE.

The ZHCR (Zero Hysteresis / Constant Run) vacuum pump employs a patented closed-loop, micro-stepping RPM control strategy permitting the pump to run with continuously variable speed, providing quick pull-down at high RPM, and then sustaining a consistent vacuum level at low RPM.

Fluctuations in detector baseline due to changes in vacuum level are eliminated by not having to repeatedly stop and start a single-speed pump. This also greatly reduces wear and noise.

The brushless motor enables quiet operation and is appropriate for environments where solvent vapors may be present.



### Note

#### Validation Output

A 2-pin rear panel receptacle labeled "Validation" with mating screw-lock plug is provided to allow a validation signal from the control circuit to be sent to a computer or data system. This validation output indicates vacuum level.

#### Signal:

5mV DC 0.13 bar (1 mmHg) / absolute from 2.7 to 106.7 bar (20 to 800 mmHg) (0.100 V DC at 2.7 bar (20 mmHg); 4.000V DC at 1.067 bar (800 mmHg))

#### Accuracy:

±1.0% of reading ±0.010V DC from 2.7 to 106.7 bar (20 to 80 mmHg)

#### Power Requirement

##### Input Power required with AC Adapter (included):

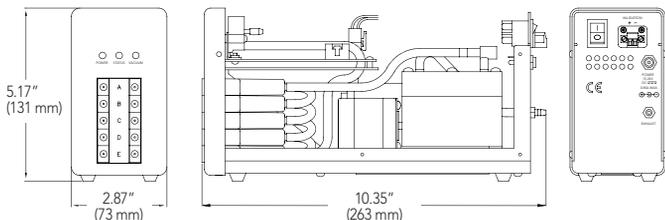
100 to 240V AC (±10%), 1A, 50 to 60 Hz (±3 Hz)

Four interchangeable wall sockets are supplied with the AC Adapter: North America/Japan, U.K., Continental Europe, Australia.

#### CE Certification

This product has been certified under the following CE testing standards: EN61326-1; EN55011; EN61300-3-2; EN61300-3-3 & EN61010-1.

### Overall Dimensions



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Part No.	Number of Channels	Channel Volume	Max HPLC Gradient Flow Capability <sup>b</sup>	Pressure Drop <sup>c</sup>	Degassing Flow Path ID
<b>SYSTEC STAND ALONE MINI VACUUM DEGASSING SYSTEMS – AVAILABLE CONFIGURATIONS<sup>A</sup></b>					
★ 0001-6500	2	480 µL	2.0 mL/min	0.18 bar/mL/min	0.045" (1.14 mm)
★ 0001-6501	4	480 µL	2.0 mL/min	0.18 bar/mL/min	0.045" (1.14 mm)

A. Custom configurations are available. Consult us for your own OEM solution to your specific application.

B. The flow rates given are for a gradient mixture of 50/50 MeOH/H<sub>2</sub>O, with a typical low pressure gradient mixing valve. Higher flow rates are possible with high pressure mixing.

C. Estimated tubing pressure per unit change in flow assuming laminar flow with a viscosity of 1.0 cP