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INSTRUCTIONS

Reacti-Vap™ III Evaporator (27-port)

PIERCE
3747 N. Meridian Road
P.O. Box 117
Rockford, IL 61105

18785

0083.1

Number	Description
18785	**Reacti-Vap™ III Evaporator** (27-port)

Components:

Evaporator Manifold Unit, includes 27 attached Luer-Lok® Tips and three white flow-control knobs, 27 stainless-steel needles (2.5 in.) with Luer-Lok® Hubs, 9 stainless-steel plugs with Luer-Lok® Hubs and a metal rod (12 in. long, 0.5 in. diameter)

Manifold Mounting Assembly, includes a bracket, two stainless steel mounting screws, a black screw knob for securing the mounting assembly to the rod and a metal screw with nut and lock-washer for adjusting the pitch of the manifold

Bottom Mounting Bracket, supplied with four thread-cutting screws and a black screw knob for securing the rod to the bottom-mounting bracket

Assembly Instructions

1. Carefully unpack and inspect evaporator unit for damage sustained during transit. Do not discard packing materials until unit has been carefully examined. If the unit has sustained obvious damage, call the carrier immediately and file a claim.
2. There are four holes on the back of the Reacti-Therm™ Module. Attach the bottom-mounting bracket to the back of the Reacti-Therm™ Module with the four thread-cutting screws supplied with the unit.
3. Insert rod into the bottom-mounting bracket and tighten to secure it in place with the attached black screw knob.
4. Attach needles or plugs to Luer-Lok® Tips to evaporator head (finger tighten only). Slide evaporator manifold onto mounting rod, adjust to desired height and tighten with the attached black screw knob. The Reacti-Vap™ III Evaporator tilts back for easy needle attachment and removal and allows access to the aluminum blocks. The pitch can be adjusted by turning the metal screw located at the back of the manifold mounting assembly.

Procedure for Use

1. Attach tubing (not supplied) to inlet port. The gas inlet port accepts tubing with a 0.25 in. inner diameter. For added security, fasten tubing with flexible copper wire or other similar fastener.
2. Position unit such that the needles are slightly within the neck of the reaction vessels. The pitch of the unit can be adjusted with the metal screw located at the back of the manifold mounting assembly.
3. At the gas tank, adjust pressure at the second stage of a two-stage regulator to 2 psi while the gas flow is off.

   Note: If the tank pressure is adjusted with the tank's gas flow, pressure can significantly increase from back pressure when the gas flow is later shut off.

   CAUTION: To prevent unit from developing leaks, do not exceed 2 psi.
4. Attach tubing to the tank regulator and gently open the gas release valve to prevent samples from splashing. Regulate gas flow at the three chambers by screwing the white flow-control knobs in (clockwise) to restrict gas flow and out (counter-clockwise) to increase flow. Chambers operate independently. If less than the total available gas streams is required, replace needles with stainless-steel plugs, which will block gas flow from the outlets.

   CAUTION: Use a fume hood when working with organic or otherwise hazardous solvents.
5. After use, rinse needles with distilled water and allow them to dry. If unit was used to volatilize acids, rinse manifold with an aqueous bicarbonate solution followed by distilled water. To remove organic contamination, rinse with acetone.

Warranty: Pierce products are warranted to meet stated product specifications and to conform to label descriptions when used and stored properly. Unless otherwise stated, this warranty is limited to one year from date of sale for products used, handled and stored according to Pierce instructions. Pierce's sole liability for the product is limited to replacement of the product or refund of the purchase price. Pierce products are supplied for laboratory or manufacturing applications only. They are not intended for medicinal, diagnostic or therapeutic use. Pierce products may not be resold, modified for resale or used to manufacture commercial products without prior written approval from Pierce Biotechnology. Pierce strives for 100% customer satisfaction. If you are not satisfied with the performance of a Pierce product, please contact Pierce or your local distributor.

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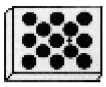
Replacement Parts and Optional Equipment

18782	**Reacti-Vap™ Replacement Tube Kit,** contains 9 needles and plugs
18784	**Reacti-Vap™ Teflon® Coated Needles,** 9 each, 4 inch (102 mm), 19-gauge stainless steel blunt-end needles with Luer-Lok® Hubs for leak-proof attachment to the Reacti-Vap™ Units
18786	**Reacti-Vap™ Teflon® Coated Needles,** 9 each, 6 inch (152 mm) × 19 gauge
18835	**Reacti-Therm™ III (Three Block) Heating Module,** 110 V
18935	**Reacti-Therm™ III (Three Block) Heating/Stirring Module,** 110 V
18840	**Reacti-Therm™ III (Three Block) Heating Module,** 220 V
18940	**Reacti-Therm™ III (Three Block) Heating/Stirring Module,** 220 V
18910	**Reacti-Therm™ Thermometer,** 0-100°C range, 1.0°C divisions, 35 mm immersion length, 225 mm total length
18915	**Reacti-Therm™ Thermometer, Mercury-free,** 0-200°C Range, 2.0°C divisions, 35 mm immersion length, 225 mm total length

Reacti-Block™ Aluminum Blocks

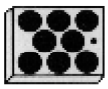
The Reacti-Block™ Aluminum Blocks illustrated below are machined and drilled for use with the Reacti-Therm™ III Modules in conjunction with the Reacti-Vap™ III Evaporator Units. Each block contains a thermometer well 7.1 mm diameter × 36.5 mm deep. Block dimensions are 9.4 cm wide × 7.5 cm deep × 5.1 cm high. The dimensions listed for the holes are diameters times hole depths.

18801 **Reacti-Block™ A-1**



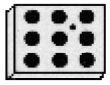
Holds 0.3 ml or 1 ml Reacti-Vial™ Small Reaction Vials
13 holes/14 mm × 23 mm

18805 **Reacti-Block™ E-1**



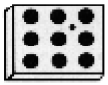
Holds 6 ml Hypo-Vial™ Sample Storage Vials
8 holes/ 24 mm × 34 mm

18817 **Reacti-Block™ T-1**



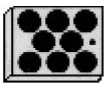
Holds 16 mm dia. test tubes
9 holes/17mm × 45 mm

18802 **Reacti-Block™ B-1**



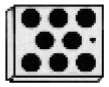
Holds 3 ml or 5 ml Reacti-Vial™ Small Reaction Vials 9 holes/21 mm × 32 mm

18814 **Reacti-Block™ Q-1**



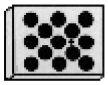
Holds 10 ml Reacti-Vial™ Small Reaction Vials
8 holes/26 mm × 46 mm

18818 **Reacti-Block™ U-1**



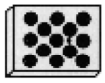
Holds 20 mm test tubes
8 holes/21 mm × 45 mm

18803 **Reacti-Block™ C-1**



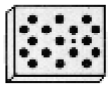
Holds 3.5 ml Screw Cap Septum Vials
13 holes/15 mm × 34 mm

18816 **Reacti-Block™ S-1**



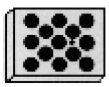
Holds 13 mm dia. test tubes
13 holes/14 mm × 45 mm

18819 **Reacti-Block™ V-1**



Holds microcentrifuge tubes
17 holes/11 mm × 35 mm

18804 **Reacti-Block™ D-1**



Holds 1 ml Hypo-Vial™ Sample Storage Vials
13 holes/15 mm × 21 mm

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Teflon® is a registered trademark of E.I. DuPont.

The most current versions of all product instructions are available at *www.piercenet.com.* For a faxed copy, contact customer service (in the USA call 800-874-3723) or your local distributor.

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