

Integrity unit not included.

ATS20100 – Integrity 10 Inerting Manifold User Guide

INSTRUCTION BOOK

Set-up and Operation Guide.

(For use with Integrity10 Reaction Stations).

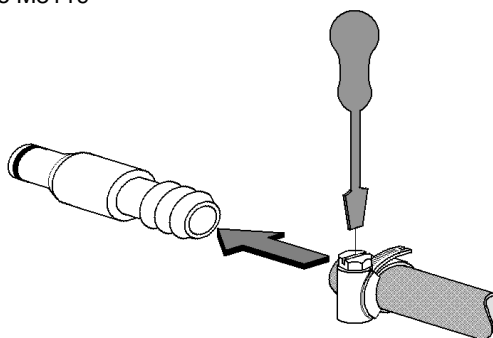
In order to gain the most from your Reflux & Inerting Manifold unit please take the time to read this guide carefully.

Pack contents:-

- 1 x ATS20100
- 2 x Inline coupling hose (Chilled Fluid).
- 4 x Inline coupling hose (Gas).
- 1 x Instructions guide M8119

- 1** Connect your send and return chilled fluid to the straight barbs supplied with your Reflux and Inerting manifold. Ensure your hose connections do not leak.

You may wish to use jubilee clips.



ATTENTION: Located at the front and back of the manifold are grab recesses designed for ease of transportation. Please avoid lifting your Reflux and Inerting manifold by the gas or liquid connects as they become damaged and broken.

- 2** (i) Mount the Reflux to the Integrity by aligning the rear feet as illustrated.



- (iii) Lock the Reflux into position pulling out the Integrity latch to engage the reflux foot.



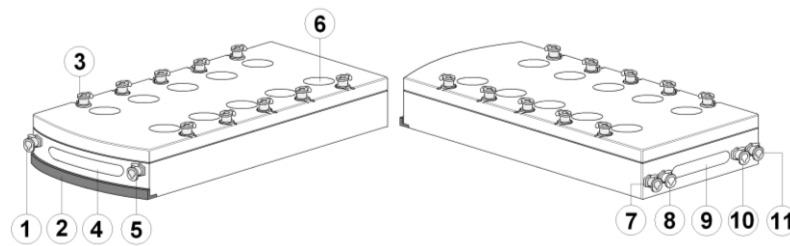
- (ii) Observe a gap between top plate of the Integrity unit and the underside of the reflux.



- (iv) Observe the gap between the Integrity and the Reflux has now gone.

3 Over view.

1. Gas outlet left hand
2. Drip channel.
3. Vessel head coupling
4. Grab handle (front)
5. Gas outlet right hand.
6. Well positions
7. Gas inlet right hand
8. Coolant inlet
9. Grab handle (rear)
10. Coolant outlet
11. Gas inlet left hand

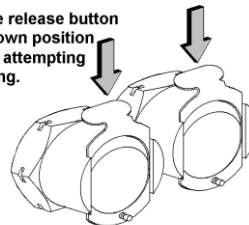


4

Push fit the straight Barb connections previously fitted to your chiller coolant supply into the two rear inlet coolant bayonet sockets. Ensure the release button is in the down position before attempting coupling.

Note: To release the connectors press down on the release buttons.

Ensure release button is in down position before attempting coupling.



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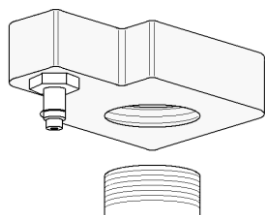
The fittings on the upper side supply a positive pressure of inerting gas to the tubes via PTFE reactor heads. These are fed from the outer two fittings at the rear of the unit and vented from the two fittings at the front. The reflux and inerting manifold has two separate gas circuits, one on each side which if desired can be static or free flowing if the male connector is fitted to the front. All gas fittings include check valves which prevent gas flow when the supply connection is broken.

Note: When using a static gas feed it is recommended that a bubbler be included at the feed in order to avoid over-pressure at the reactor vessel(s).

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Connect the gas feed to the Reflux and inerting manifold. Use a 'T' coupler to connect a single gas feed to both gas inlets. Insert the gas bubbler to prevent over-pressure at the reactor vessel. If a flow of gas is required through the reactors, connect a second T coupler to the front gas outlets. When a gas bubbler is not fitted to the T coupler, blank off using a reactor seal.

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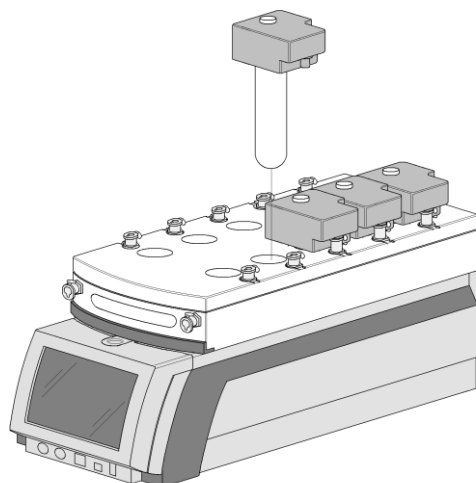
Charge the glass vessel with the reaction chemical mixture and screw to the PTFE inerting head.

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Position the tube / head assembly in the appropriate well and push down until the fitting clicks to engage the gas supply.

The PTFE inerting head includes an access port for a PT100 temperature sensor. (For use with the Multitemp module). If a thermocouple probe is not fitted the port should be closed off using a blanking plug.

Note: Ensure the release button on the manifold fitting is in the down position before attempting coupling. Each vessel is independent so it's not necessary to include all ten vessels for the inerting to function.



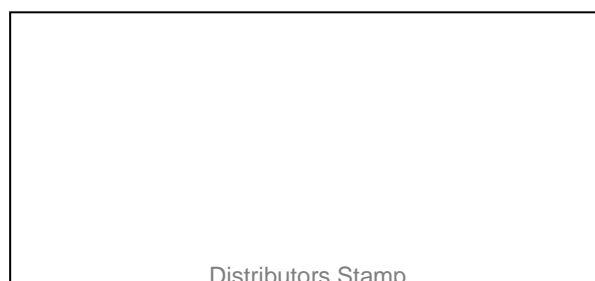
Operate you Integrity 10 Reaction Station as per the Operator guide. M8024

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To remove the vessel, simply push the release button on the fitting attached manifold. The vessel and PTFE reaction head will be ejected ready for removal from the Reaction Station. The check valves will shut off on the reaction vessel ensuring the contents are maintained under a protective atmosphere.

Spares / Accessories

AZS4348	Septa Cap AC-MAN-RS1000.
AZ43549	Temperature port Blanking Plug.
AZS4350	O-ring inerting cap
AZS4351	Reflux head female gas connector to cap
AZS4353	Reflux head gas inlet / outlet female.
AZS4354	Reflux head gas inlet male
AZS4355	Reflux head water inlet male
AZS4356	O-ring for AZS4356
AZS4357	1/8" MNPT Male connector for inerting cap.
ATS20002	Pack of 10 SVL thread Inerting Caps
ATS20003	Pack of 10 Kimble thread Inerting Caps
ATS20004	10 pack SVL 22 thread 24/150mm glass tubes.
ATS10075	10 pack SVL 22 thread 24/150mm glass tubes.



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