

947

ADT 947 CO2 Inline Injector

ADT Model 947- CO2 Inline Injector is a system that decreases the Resistivity of Deionized (DI) water to a pre-defined level, preventing damages associated with static discharge and particle adhesion during the dicing and cleaning processes.

Low and Stable Resistivity

ADT Model 947 is especially designed to work with Dicing Saws. The unit will compensate for water Flow fluctuations; stopping the CO2 supply once the supplied water is stopped. When the water flow is back, the CO2 supply immediately returns, bringing the water Resistivity back to the required value in just a-few seconds.

Process Control

Using a unique membrane technology for dissolving CO2 gas into the supplied DI water, together with a PID base control system, the 947 Inline Injector compensates for changes in water parameters and ensures a stable level of water Resistivity.

Efficient, Economic and Eco Friendly

The 947 unit is an Inline Injector which continuously monitors the water stream, injecting the exact required amount of CO2 gas directly into the water stream for achieving the set resistivity level.

The minimal consumption of CO2, together with the fact the system does not include a pump or reservoir, makes it super Economic with very low CO2 and Power consumption.

Compact Design, Easy Installation

The 947 Inline Injector is Ultra compact no bigger than a PC, and can easily be connected to the back of the Dicing system, saving precious clean room space.

The unit includes fast facility connections located on its rear panel, providing a quick and simple plug and play installation, and the ability to support any type of Dicing Saw.

System Highlights

- Compact and economic design
- Maintain low and stable Resistivity value
- Easy to use and maintain
- Process monitoring through control system and alarms displays
- Eco friendly





Increasing Yield Through Process Control

Specifications:

Resistivity range	0.5-1 MΩ/cm
Resistivity fluctuation range	Setting ±10%
Water consumption*	3-10 liter/min

Facility requirements

■ Cutting water (Typically Di)

Pressure	3 to 4 bar
Temperature	20 to 25C°
Resistivity	10-18 MΩ/cm

■ CO₂**

Pressure	2-4 bar
Purity	99.5% or higher

■ Power

Voltage	100/230VAC, 50/60 Hz, single phase
Consumption	

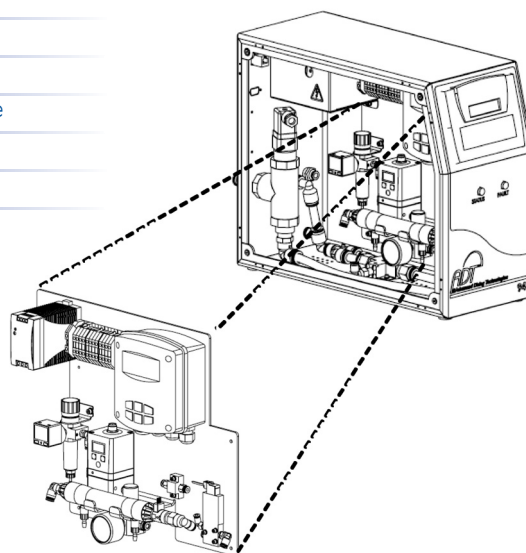
■ Dimensions (W x D x H)

Weight	10 Kg.
--------	--------

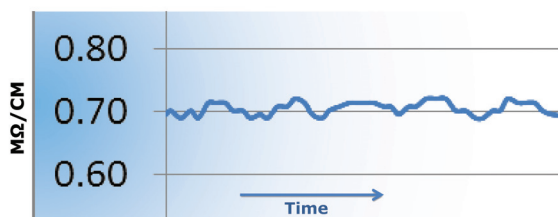
*The unit supports one Dicing Saw
 **Unit does not include CO₂ tank

Standard Features

- Two lines display
- Target and range setting
- Status and alarm indicators
- Auto temperature compensation



947's Internal Design



947's sample resistivity reading over time



Headquarters

Advanced Dicing Technologies Ltd.
 Hi-Tech Park (South), P.O. Box 87
 Yokneam 206992, Israel
 Tel: 972-4-8545222
 Fax: 972-4-8550007
 Email: sales@adt-co.com
www.adt-dicing.com

USA Subsidiary

Advanced Dicing Technologies Inc.
 1155 Business Center Drive, Horsham,
 PA 19044 U.S.A
 Toll free: 800-604-4950
 Tel: 215-773-9155
 Fax: 215-773-9844
 Email: us-support@adt-co.com

China Office

1st. floor, Building 19, No. 600
 Minsheng Road, PuDong
 Shanghai 200135, China
 Tel: 86-21-5093-9293
 Fax: 86-21-5093-9890
 Email: china_support@adt-co.com