



CO₂ Inline Injector

ADT Model 947- CO₂ In-line Injector is a system that decreases the resistivity of deionized (DI) water to a predefined 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 a dicing saw. 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.

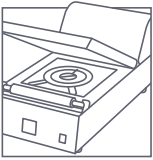
The unit includes fast facility connections located on its rear panel, providing a quick and simple plug and play installation, and the ability to support any type of dicing Saw.

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





947-A CO₂ Inline Injector

Standard Features

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

Specifications

Resistivity range	0.5-1 MΩ/cm
Resistivity fluctuation range	Setting ±10%
Water consumption*	3-10 liter/min
Filtration Level	5 μm
Circulation Tank	2.2 Liter

Dimensions

Dimensions (WxHxD)	190 x 365 x 446 mm
Weight	10 Kg

Facility requirements

Cutting water

(Typically DI)

Pressure	3 to 4 bar
Temperature	20 to 25 C°
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	100 VA

* The unit supports one dicing saw

** Unit does not include CO₂ tank

947's sample resistivity reading over time

