



Peripherals

AB-47



CO₂ Inline Injector

Many dicing applications require working with DI water for the dicing and cleaning processes. Lowering the DI water resistivity can prevent damage to the workpiece associated with static discharge by eliminating particle adhesion during the cutting and cleaning processes.

The ADT AB-47 CO₂ Inline Injector is a compact system that decreases the resistivity of Deionized (DI) water to a pre-defined level and can support multi spindle saws or systems with high flow rate requirement.

A PLC unit with a touchscreen panel on the front of the system displays the system's status and the supplied water resistivity.

The ADT AB-47 system injects CO₂ gas into the supplied DI water using a unique membrane technology, which is later injected into the main water stream.

A PID-based control loop continuously monitors the water resistivity, ensuring a low, stable, and accurate resistivity level while compensating for water temperature variations and flow rate variations.

System Highlights

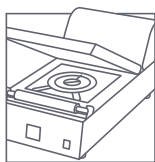
- Compact and economic design
- Maintain low and stable resistivity value
- Process monitoring through control system
- Auto temperature compensation
- Supports water flow rates of 3-20 LPM

Options

- Light tower
- RS232 communication kit for ADT's dicing saws

ADT AB-47: Precision CO₂ injection for stable, low-resistivity DI water, supporting high-efficiency multi-spindle operations.





AB-47 CO₂ Inline Injector

Standard Specifications

Resistivity setting range	0.5 to 1 MΩ/cm
Resistivity Fluctuation range	Setting ± 10%
Water capacity	3-20 liter/min

Facility requirements

Cutting water (Typically DI)

Max pressure	6 bar
Temperature	20 to 25 C°
Resistivity	10-18 MΩ/cm

CO₂

Min pressure	3 bar
Purity	99.5% or higher

Power

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

Dimensions and weight

Dimensions (WxDxH)	190 × 492 × 447 mm
Weight	13 Kg

