Peripherals

937-A

Spindle Water Chiller

Enhance your operational stability with an economical solution. Tailored for the closed-loop provision of spindle cooling water, this system ensures the maintenance of consistent, temperature-controlled water—an essential element in attaining exceptional levels of dicing precision and quality.

Reduces Operating Cost

ADT model 937-A Chiller constantly pumps and circulates water from the Chiller's small reservoir to the spindle, thereby reducing costs while saving precious resources of water.

Innovation Inspired

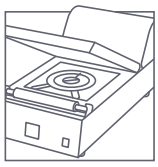
"Hot gas bypass" technology routes back the hot, uncondensed refrigerant through a reservoir coil thus eliminating on/off cycling of the compressor and the addition of energy wasting heaters. This method combined with P.I.D. control allows greater energy efficiency while constantly keeping temperature level of ±0.1°c from set target.

Features & Benefits

- Water circulation - Reducing water consumption
- Precise control of water temperature - Mitigating thermal expansion to achieve superior dicing accuracy.
- High pumping capacity - Supporting up to 4 spindles simultaneously (low CoO)
- Touch panel LCD - Easy operation
- Unique pumping technology - Quiet operation, compact design and maintenance-free

927-A Spindle Water Chiller– high precision and cutting quality

ADT Advanced Dicing Technologies



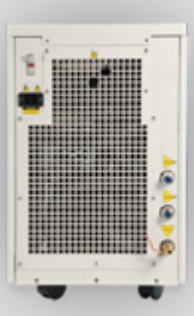
937-A Spindle Water Chiller

Simple and easy to use

FRONT

- Touch color control panel for pressure, temperature and flow parameters
- Easy to clean condenser
- Liquid level indicator
- ON/OFF switch

BACK



- Supply / Return / Drain quick connections
- Liquid bypass valve
- Safety fuse
- Electric power socket IEC320

LEFT

- Adjustable cooling gas valve
- Hot gas bypass valve
- Liquid reservoir

RIGHT

- Top quality gas compressor and condenser
- Liquid pump
- Vibration insulation system

Circulation Data

Flow Capacity	5 liters/minute
Supply Pressure	4 bar
Filter Type	Cartridge
Filtration Level	5 µm
Circulation Tank	2.2 Liter

Cooling System Data

Set Range	+8°C to +35°C
Temp. Stability	±0.1°C
Cooling Capacity	1000 W @ 20°C
Heat Transfer Method	Water to Refrigerant SS plate heat exchanger
Gas (Refrigerant)	R-134A
Control Method	PID

Dimensions

Dimensions (WxHxD)	360 x 590 x 560mm
Weight	52 Kg

User Interface Data

PLC Operator panel	
Type	Touch Color Panel
Display Size	3.5”
Temperature Control	Adjustable target and actual temp

Site Requirement

Electricity:	
Voltage	115VAC OR 230VAC
Frequency	50Hz OR 60Hz
Phases	1
Apparent Power	1380VA
External Circuit Breaker	25A
Water Out tube (to Dicer)	8 mm (OD)
Water return tube (from Dicer)	8 mm (OD)

Ver. 11/24

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