

Chiller for Dicing Saw Machine

YY-383/383S

Model	
YY-383	YY-383S
Operating Temperature Range	
4deg.C to 10deg.C	4deg.C to 20deg.C
Main Tank Capacity	
100 L	
Chemical Tank	
40L × 3 Tanks	None

Back View



Main Tank



Three Chemical Tank for pH Control



Equipment summary :

This Chiller is supplying cooling water or chemical coolant for IC packaging Dicing Saw machine.

YY-383 model have built in pH meter and Filter system. pH meter makes easy to keep required pH range with built-in three chemical tanks operate from pH adjustment switch in front panel. Filter system removes cutting fine dust. Also, this system is re-circulating system.

YY-383S model is drain system type which water supply from facility utility and cooling water out to Dicing Saw. After cutting water goes to facility drain.

Feature :

- pH control (By means of pH monitoring and built-in three chemical Tank)
- Filter system
- Stable output Temperature
- Use R-407C Freon (ISO 14001 compliance)
- Large capacity main Tank (100 L)
- Automatic safety operation by PLC



Specifications

	YY-383	YY-383S
■ Configuration		
External material	Cold-rolled steel sheet with melamine resin baked-painting	
Painting color	YSC standard color (DIC-G-61)	
Temperature range	4deg.C to 10deg.C	4deg.C to 10deg.C (depend on supply water temp.)
Temperature cooling time	60 min (from 25deg.C to 4deg.C)	
Temperature controller	Digital setting, digital indication (PID control)	
Temperature sensor	Pt 100	
Refrigerator	1.5 kw	2.25 kw
Cooling unit	Stainless steel pipe cooling unit	
Refrigerant	R-407C (ISO 140001 compliance)	
Pump	Immersible pump	
pH meter and electrode	Coolant concentration measurement	----
Float switch	Lead-type liquid surface switch	
Pressure gauge	Pressure gauge with the contact switch	
Integration flow-meter	Digital display flow meter	
Water inlet	12 mm dia. tube connector (with hand valve and solenoid valve)	
Coolant or water outlet	12 mm dia. tube connector	
Coolant return inlet	40 mm dia. tube connector	----
Drain	PVC pipe fitting (with hand valve)	
Main tank	PVC, 100 L	
Filter	50 to 100 micron filter (2 Filter)	----
Chemical tank (Three tanks)	PVC, 40 L (each tank)	----
External dimensions	W 900×D 1200×H 1500mm	
■ System		
Type	Re-circulation	Drain
pH control	OK	None
Filter system	OK	None
■ Control Panel		
Pressure gauge	Analog pressure gauge with upper limit contact Pressure range : 0~1.0MPa Accuracy : ±1%	
Temperature controller	Digital setting, digital indication (PID control)	
pH meter and electrode	Digital setting, digital indication	
System control	Controlled by Programmable controller (PLC)	
Timer	99hours 59min (arbitrarily set)	
Emergency stop switch	Mushroom type lock switch	
Lamps	Alarm lamps(Temperature, pH, Refrigerator, Pump) opening/stop lamps, Signal tower etc.	
■ Safety		
Over current	Protect by Circuit breaker	
pH condition	Upper limit alarm contact of pH controller with upper-limit contact is connected , and Lower limit alarm contact of pH controller with upper-limit contact is connected.	
Refrigerator	Protect by Thermal relay	
Pump	Protect by Thermal relay and Level sensor	
Hi pressure	By pressure gauge upper limit contact	
Tank level low	By Tank level sensor	
Short circuit breaker	Short circuit/over current has occurred, the power supply is turned off.	
■ Required Utility		
Power supply	AC200/220/380V, 3-phase 50/60Hz, 5 KVA	AC200/220/380V, 3-phase 50/60Hz, 7 KVA
Water supply	From facility	