



CEDIT YARN FIXING AND CONDITIONING MACHINE (CUBIC)



VACUUM AND PRESSURE AUTOCLAVE:

- Type : Cedit Yarn Fixing and Conditioning Machine (Cubic)
- Purpose of Use : Yarn Conditioning and Steaming
- Insulation : The Machine Assembly will be insulated .
- Machine body : AISI 304L
- Pressure : -0,850 bar + 2,5 bar
- Process Temperature : 25 ° C - 135 ° C

Technical Specifications of the Thread Conditioning Machine:

Body :

Machine body sheet will be manufactured from AISI 304 5 mm sheet by giving appropriate strength forms. Insulation material outer covers and isolation main carriers on the machine will be made of St37 material and Euro standard exterior cladding will be made.



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Loading Types:

The bobbins are loaded on the machine in 3 pallets on EURO PALLET (110 cm X 110 cm). It is designed to have 15 rows of bobbins, 5 x 5 on each pallet. The pallet carrier car is loaded and unloaded into the machine with an automatic conveyor roller system.



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VACUUM PUMP SYSTEM

Calculated in accordance with the Machine Construction (volume). It is mounted on a steel frame together with a multi-stage liquid ring vacuum pump motor. The connection between the vacuum pump and the machine will be made by us. Fasteners, connections outside the machine and their connection to the machine will be made by the customer.

- Vacuum Pump Type: Liquid ring vacuum Pump
- Maximum Vacuum: - 850 mbar
- Average Air Temperature: 20 ° C
- Engine Speed : 1450 rpm. (30 KW)



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Heating System:

The machine has an indirect heating system and produces the saturated steam within its own structure. The form of heating can be steam or electric. If electrical heating is preferred, Cr- Ni stainless resistances are used for heating. For steam heating, a specially designed serpentine system is used to obtain saturated steam from the stainless quality pipe as soon as possible. The advantage of the electrical system is that the machine does not need any steam source to be able to condition it. If the machine has a resistance, the number of resistances is determined according to its capacity. If there is steam in the system, the machine is heated and conditioned by directly applying an open steam distribution system.



Evacuation System:

When the conditioning process is finished, if there is vacuum inside the machine, air suction from outside for balancing, if there is pressure, air evacuation takes place. For this, suitable valve pneumatic on- off automation valve is used.

Safety System:



The machine is protected mechanically, electronically and electromechanically against excessive pressure rise. Mechanical safety is provided by spring safety valve , electronic safety vacuum sensor , electromechanical safety pressure switch. Two electrical pressure valve two elektro pressure valve and two mechanical pressure valve has a safety system including a total of six.

Cover System:

The machine has an automatic locking system and an automatic door opening system. Any manual opening of the door during high pressure or vacuum is prevented.



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Parts Inside the Machine:

Thread conditioning machine; It consists of vacuum pump, vacuum valve, evacuation valve, water intake valve, resistances (serpentine), conveyor, safety valves and cover system. There is a ceiling drip plate inside the machine to prevent drips that may occur due to steam condensation on the machine ceiling.

Control System:

The machine control system is completely PLC controlled. A touchscreen operator panel is used for communication between human and machine. Temperature information is read with PT100 and pressure information is read with pressure sensor and can be controlled very precisely. Temperature sensitivity is $\square 0.5^{\circ}C$, pressure sensitivity is



$\square 0.1$ Bar . After a fixing program is entered through the operator panel , the steps are executed fully automatically according to the entered program and the door is opened when the program is finished. Pressure and temperature values can be followed graphically. The device has a capacity of 100 fixing programs. PLC also has the opportunity to detect and eliminate errors by connecting with a modem.

Maintenance Cost and Environmental Consciousness:

The yarn conditioning machine is a machine that requires very little maintenance. Their daily and weekly maintenance consists only of routine controls. If hard water is used monthly, the water should be drained and cleaned. The machine does not contain any waste that can harm the environment.



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