



No. 2572

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Air dryer (for square-type handmade paper)

The purpose of the drying process is to dry and adjust humidity in the final process of paper sheet making. As pressed onto the drying plate, paper sheets are set between drying rings, stacked, and then placed inside the equipment. When exposed to wind from the fan, water in the paper sheets evaporates. Optionally, it is also possible to incorporate an electric heater for faster drying.

- Handmade paper:** 25 x 25 cm (or 40×40 cm)
- Dry ring:** 8 pieces
- Dry plate:** 7 pieces (made of SUS-304 or brass chrome-plated)
- Weight:** 1 piece
- Fan:** single-phase 100/110 VAC, 50/60 Hz, 3A
- Outer dimensions:** 550×1110×630 mm
- Instrument weight:** 48 kg



standard type

No. 2575- I

KRK rotary dryer (standard type)

This dryer is used for drying in the paper handmaking process. You can perform continuous drying simply by placing paper on the specimen conveyor belt. A heater is built in the dryer to heat the drum surface to a certain temperature. The movement of the specimen conveyor belt rotates the heated drum. Then the drum winds up the specimen and discharges the dried paper sheet after a half-turn. This dryer is designed to have thick walls in order to increase the thermal storage in the rotating drum, eliminating temperature drop and dispersion in temperature distribution that could otherwise occur due to feed of wet paper. This design also effectively reduces differences in migration depending on the location of the wet paper. A safety mechanism is incorporated to keep the drive motor running until the temperature drops to a certain level after completing tests.

- Drum:** 400 mm in diameter
- Width:** 400 mm wide or 600 mm wide (wide model)
- Heater:** main and sub two-stage switchover
- Temperature:** max. 120°C
- Temperature controller:** non-contact surface thermometer
- Conveying speed:** 0.15 to 0.8 m/min. (variable)
- Conveyor belt:** endless or with Velcro tape (optional)
- Power source:** single-phase 200/220 VAC 50/60 Hz 12A (wide model 15A)
- Outer dimensions:** 680×550×600 mm (standard model)
- Instrument weight:** 85 kg



wide type

No. 2575- II

Rotary dryer for high-temperature operation

Like the type I model, this dryer dries wet paper placed on canvas in a Yankee dryer-like manner. The drum surface can attain up to 180°C so that the drying time can be reduced to rationalize operating hours. An automatic safety mechanism is incorporated to keep the motor running until the surface temperature drops to a certain level after completing tests.

- Drum:** 400 mm in diameter
- Width:** 400 mm wide or 600 mm wide (wide model)
- Maximum temperature:** 180°C
- Conveyor belt:** heat resistant canvas (endless)
- Power source:** single-phase 200/220 V 50/60 Hz 15A (wide model 18A)
- Outer dimensions:** 680×620×600 mm
- Instrument weight:** 87 kg

No. 2575- I



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No. 2576

Large-size rotary dryer

This dryer dries wet mats in a Yankee dryer-like manner by holding the mats with canvas. It works well when continuously drying a large volume of sheets. To make it easy to mount wet paper onto the conveyor belt, it is designed to allow paper feed from the front side. The rotation of the cylindrical drum can be changed to allow adjustment of the drying time as desired. It also enables polishing of the paper being dried through the mechanism in which paper sheets are pressed against the rotating drum of the squeeze roll when a pressure up to 50 kg/cm is applied on the rotating drum. With this dryer, it is also easy to replace the canvas as you can disengage the fastener at the joint section. After completing operation, the electrical circuit is automatically disconnected when a certain length of time has elapsed.

Dryer drum: 800 mm in diameter, 350 mm wide

SUS-304 hard-chrome plated, mirror finished

Temperature range: room temperature to 180°C

Heating: electric, three-phase 200 VAC, 9 kW, far infrared heater

Temperature controller: non-contact surface thermometer

Conveying speed: 0.2 to 5 m/min. steplessly variable

Conveyor belt: heat resistant canvas (endless)

Squeeze roll linear pressure: 10 to 50 kg/cm, with air cylinder

Motor: three-phase 200/220 V, 0.2 kW

Air source: 0.5MPa

Outer dimensions: 700×1300×1600 mm

Instrument weight: 410 kg



No. 2576