Grafica's

Hot-air dryer

compact electric drying system

With removable filter to collect fine fibers, lint & dust particles

Standard Features:

- Compact design, simple to operate
- High quality PTFE coated conveyor belt
- Powerful blower to recycle heated air circulation with exhaust system to remove solvent laden air from the chamber
- Extremely effective tube heaters with special coating to deliver maximum efficiency and to maintain consistent temperature (max. 200° C / 390° F)
- Heaters are placed equally all over inside the chamber to ensure equal heat distribution
- Variable external airflow damper is provided to adjust the exhausted air, according to solvent saturation during production.
- Insulated heating chamber with double wall fabrication to retains maximum heat inside the chamber while keeping the outside body relatively cool
- Digital PID temperature controller with thermocouple sensor, keeps precise temperature inside the chamber to ensure perfect control of drying
- AC geared motor with a frequency inverter for precise speed control
- Rubberized drive roller specifically cambered for superior belt tracking
- Fine-graded filter collects fine fibers and lint which prevents them from detrimentally sticking to the heaters themselves.
- Tool-free adjustable entry and exit shields provided to prevent heat spilling out to the production area
- Castor wheel for ease of mobility
- Exhaust fan inside the electrical panel to keep the components cool

Grafica's compact Hot Air Dryer is meant for drying jobs printed with wide range of inks on a variety of substrates.

It's insulated with double wall throughout to retain maximum heat inside the chamber while keeping the outside relatively cool.

Its exceptionally imposing airflow management system is facilitated by a very powerful low noise blower that discharges air circulating uniformly around the entire heating chamber's inner hood through strategically placed holes. Incoming airflow passes through heating system to the printed surface. Because air creates a vacuum-like behavior at the side of the conveyor and re-circulated to the top again.

As the Hot Air Dryer re-circulates, the powerful airflow effectively scrubs solvents/ water away from the ink surface, thereby allowing faster drying times while lowering temperature requirements for a superior processing.

As the heated air is recycled, which in effect reduces power consumption considerably, the heating bank consisting of extremely effective tube heaters are not continuously engaged and drawing power in order to maintain temperature setting. The tube heaters are placed equally all over inside the chamber to ensure equal heat distribution. An external variable airflow damper is provided to adjust exhausted air, according to solvent saturation during production, so that the drying system can always operate in its most efficient manner.

To further improve efficient and energy conservation, a tool-free adjustable entry and exit shields are provided to further prevent heat from spilling out to the production area. An exhaust fan below the electrical box is purposely intended to keep the electrical components cool and fully operational.

A digital PID temperature controller with thermocouple sensor, keeps precise temperature inside the chamber to ensure perfect control of drying.

The dryer's inner chamber has a separate module from the heater to prevent escaping heat from spilling out into the production area.

A high quality/hard-wearing conveyor belt of the PTFE coated variety comes as standard, which is firmly driven by an AC geared motor with a frequency inverter for precise speed control—a handy feature at times when the belt is fully loaded with printed garments & other jobs. The rubberized conveyor drive roller is specifically cambered for superior belt tracking irrespective if the workload is off centered drying on the conveyor.

The dryer is completely portable in design for ease of mobility or it can be anchored to the floor with its own foundation bolts for a more permanent location.

Finally, to keep the dryer in optimum operation condition, a fine graded filter collects fine fibers and lint which prevents them from detrimentally sticking to the heaters themselves.

Technical Data	GF-24 Hot Air Dryer - 2 Mtr
Conveyor width	24" (610 mm)
Input / Output module length	28.5" each (727 mm)
Drying chamber	78.74" (2000 mm)
Belt speed	1 to 10 mtr/min
Electrical	440 V, 50 Hz, 40 Amps, 3 Ph
Power Consumption	28 HP (21 kW)
Max. Temperature	200° C (390° F)
Dimension (feet) (mm)	11.3' x 3.9' x 4.0' 3456 L x 1178 W x 1205 H
Weight	600 kg (1323 lbs)

Above dimension are in inches or else specified.
All dimension, specification and features are subject to change without notice.
Servo stabilizer and other consumables are not supplied with the standard machine.
Stabilized power supply is essential to protect all electronics and electrical parts.

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Note:
1) The machine does not include servo stabilizer & other consumables.
2) For the safety of machine from excess voltage from main supply alway use servo stabiliser to deliver precise and constant power supply.
3) Continuous improvement is an ongoing exercise at Grafica Flextronica, hence technical specifications, features and data are subject to change without notice.

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