

Grafica's

# nano-Textdryer

*compact electric dryer*



## 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 surrounded with specially designed metal fins for equal distribution of heat inside the chamber
- 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 to +/- 1° C for perfect control of drying
- AC geared motor with a frequency inverter for precise speed control
- Rubberized drive roller specifically cambered for superior belt tracking
- Once heating is switched off the conveyor and blower fans continues to run avoiding access temperature buildup inside the heating chamber
- Fine-graded stainless steel 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

Together with the nano-prinTex textile printer, Grafica has radically changed the world of compact textile drying systems with its new hot air nano-Textdryer. Double wall insulated throughout retains maximum heat inside the chamber while keeping the outside relatively cool. Such a refinement can only be expected from a manufacturer that specializes in designing and fabricating reliable 'European-style' conveyORIZED dryers but at a fraction of the cost.

The heartbeat of any dependable textile dryer is the way it handles a wide range of inks on a variety of materials as well as dark inks on light and light inks on dark. This is precisely where the nano-Textdryer's cutting edge design comes into play; although compact it stands head and shoulders from the rest. 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 recirculated to the top again. It is important to realize that while most textile dryers do not have circulating systems - high costly models being the exception. As standard the nano-Textdryer recirculates so that the powerful airflow effectively scrubs solvents away from the ink surface, thereby allowing faster drying times while lowering temperature requirements for a superior processing.

For energy efficient and cost conscious printing operations the news is excellent all the way to the bank. 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 surrounded with specially designed metal fins for equal distribution of heat inside the chamber. 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.

For perfect control of drying a digital PID temperature controller is employed for the maximum of 200° C (390° F), together with a thermocouple sensor, keeps precise temperature to +/- 1° C for 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.

As expected, 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. The rubberized conveyor drive roller is specifically cambered for superior belt tracking irrespective if the workload is off centered drying on the conveyor.

To extend the life of the conveyor belt, inner working parts and for complete operational safety and peace of mind, once heating is switched off the conveyor and blower fans continues to run avoiding access temperature buildup inside the heating chamber. 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.

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

Technical Data	GF-24 NTD - 1M	GF-24 NTD - 2M	GF-40 NTD - 2M
Conveyor width	24" (610 mm)	24" (610 mm)	40" (1016 mm)
Input/Output module length	28" each (733 mm)	28" each (733 mm)	28" each (733 mm)
Drying chamber	39.3" (1000 mm)	78.74" (2000 mm)	78.74" (2000 mm)
Belt speed	1 to 5 mtr/min	1 to 10 mtr/min	1 to 5 mtr/min
Electrical	440 V, 50 Hz, 32 Amps	440 V, 50 Hz, 63 Amps	440 V, 50 Hz, 63 Amps
Max. Temperature	200* C	200* C	200* C
Dimension (feet)	8' x 3.8' x 4.2'	11.3' x 3.8' x 4.2'	11.3' x 4.9' x 4.2'
(mm)	2466 L x 1111 W x 1282 H	3467 L x 1111 W x 1282 H	3467 L x 1517 W x 1282 H
Weight	255 kg	390 kg	600 kg

*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:**

Continues improvement is an on going process at Grafica Flextronica, hence technical specifications, features and data are subject to change without notice.  
Use servo stabilizer for voltage controller for safety of machine from excess voltage from main supply