



Apollo dryer

*Efficient drying with minimal
energy consumption*

Stork Prints

The Stork Apollo is a high-efficiency drying unit that enables rapid and uniform drying of cloth widths ranging from 1850 to 3250 mm. Its extremely economical performance means that a minimal amount of energy is required to perform the drying operation, and its compact footprint takes up little floor space. In addition, compatibility with several fuel types allows the Apollo to integrate easily into your existing facilities.

Exceptional drying efficiency

The Apollo is characterised by extremely high efficiency in drying. As much air as possible is re-circulated, and a high velocity is achieved in the direct vicinity of the cloth by blowing jets of air directly onto it from both above and below. The optimum amount of air is extracted to achieve maximum evaporation and a steady out-flow across the full width of the dryer, while keeping power consumption low.

Less room required

Another significant advantage of this high efficiency is a saving in floor space. The Apollo consists of a series of pre-assembled sections, and you specify the number you need to match your drying requirements. Configurations can be made up of one to five sections, depending on the intended use and desired evaporation rate. In many cases, fewer sections are required than with competitor drying systems; therefore you need less room in your plant.



The Apollo dryer can be operated directly from the Pegasus control panel.

Being more compact also means there is less cloth inside the dryer, so inspection and adjustment can take place at an earlier stage, which increases process efficiency. The Apollo's modest dimensions enable greater flexibility in configuration as well: the units are only 2.75 m high, and can therefore be installed on an upper floor.

Quick installation

The modular nature of the Apollo also drastically reduces installation time, as the pre-assembled sections are easily joined together on-site. All sections fit into standard sea-freight containers to simplify shipping and reduce delivery costs. Once in use, the Apollo requires a minimum of maintenance, and the air nozzles can be removed from the dryer for easy cleaning.

It is also extremely easy to use the Apollo. All functions can be accessed on the dryer itself or, when used with a Pegasus printing machine,

directly from the central operating panel. This simplifies and speeds up control.

Choice of heating methods

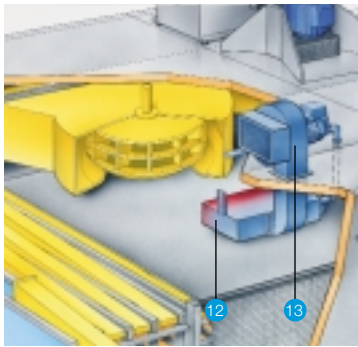
The Stork Apollo can be heated using steam or thermal oil, as well as directly using gas. This flexibility gives you the option of selecting the method most suitable for your plant. When steam or thermal oil is used, the air in the dryer is heated by a heat exchanger. With gas, the Apollo has an in-built burner over which the air passes and heats up. The gas supply is controlled proportionally, and is accurate and efficient. The high turn-down ratio (20:1) allows quick heating while offering the possibility to operate at a very low energy level for substrates sensitive to heat. In this way the Apollo is suitable for drying many different types of substrate.

Options

The functionality of the Apollo can be extended through a number of options:

- Underside drying function with adjustable conveyor height. To prevent smudges on the conveyor belt caused by paste from the underside of the substrate, the conveyor is lowered in the first section of the Apollo and the substrate is dried from the underside before coming into contact with the conveyor belt.

- Integrated fixation zone.
An integrated fixation zone can be added to enable the fixation of pigment dyestuffs.



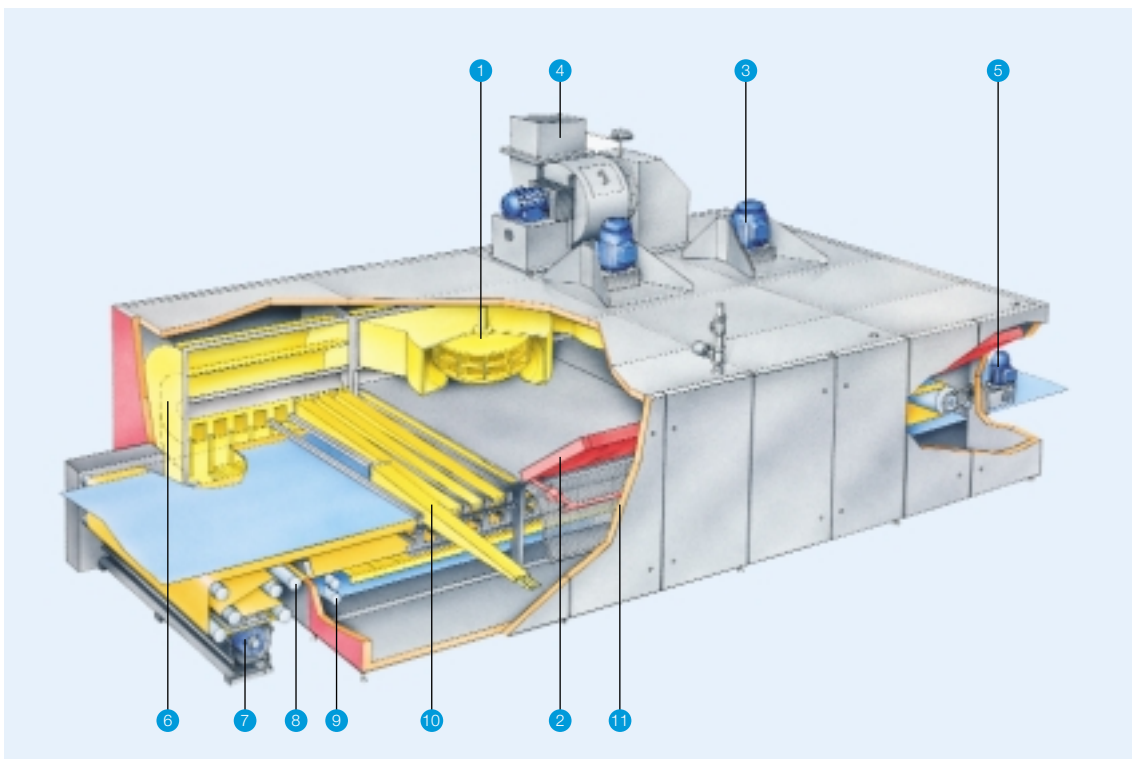
The fixation time is adjustable and independent of the line speed. This operation saves an extra fixation process.

- Conveyor belt washer.
An optional washing unit is available to clean the conveyor belt in a separate washing cycle (see 7 in diagram).

- Variable speed control for circulation fans.
- Variable speed control for exhaust fan.
- Temperature control for steam/oil heating.

Technical specifications

Available widths:	1850/2400/2800/3200 mm
No. of sections:	2,3,4 or 5
Heating method:	steam/oil/gas



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| 1. High-efficiency radial circulation fan | 8. Conveyor belt guiding and tension control |
| 2. Heat exchanger (for steam or thermal oil systems) | 9. 1, 3 or 5* passages |
| 3. Circulation fan motor | 10. Nozzles |
| 4. Exhaust duct | 11. Insulation |
| 5. Conveyor belt drive | 12. Gas burner (for gas-fired systems) |
| 6. Air distribution system | 13. Combustion air supply |
| 7. Conveyor belt washer* | * Optional |

Stork Prints

Stork Prints develops and produces (as the only company in the world to do so) rotary screen printing systems and digital systems for all process steps in the textile printing process. In addition the group supplies rotary screen printing systems and digital colour proofing systems for the graphic arts industry.

Stork Prints is part of Stork NV, a global technology group comprising 60 companies, with a total workforce of around 17,000 and a turnover of € 2.3 billion.

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