



Biancalani

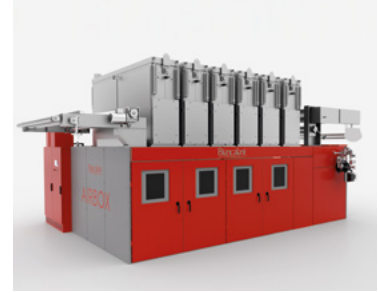
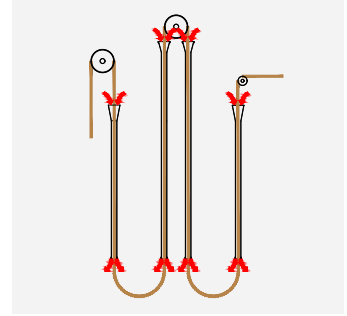
TEXTILE MACHINERY

EN

AIRBOX

A perfect partner

Open-width (pre)drying



HIGH-EFFICIENCY COMPACT DRYING UNIT

AIRBOX is a continuous, compact and efficient open-width drying unit, patented by Biancalani, designed to work either as integrated pre-dryer for AIRO®24, or as a stand-alone system, which can be connected in line with other machines or used as independent dryer. The AIRBOX pre-dryer can considerably increase the productivity of any drying or tumbling line, while as stand-alone unit it offers an extremely favourable ratio between evaporation capacity and footprint size.

BUILT-IN EFFICIENCY AND SCALABILITY

The jet-stream drying principle (patented by Biancalani) on which the AIRBOX is based, exploits high differential speed between air and fabric in order to ensure high levels of evaporation capacity in a compact form factor: with just 2 meters of length and minimal energy consumption, you can easily add more than 200 kg/h of evaporation capacity to your line.

AIRBOX is available also in the XL version with two drying sections, and in configurations with 4, 6, 8 and more drying sections, offering increasing productivity levels, which are capable of satisfying every drying requirement.

INTEGRATED WITH AIRO®24

When installed together with an AIRO®24, AIRBOX can remarkably increase the speed of the line (up to 50% increase in productivity). In such configuration, AIRBOX is completely integrated with the AIRO®24, and all the parameters of the pre-dryer are seamlessly managed from the main control panel.

PRE-DRYER OR STAND-ALONE

AIRBOX is an extremely versatile solution, a perfect tailor-made partner for any drying need, available with all types of entry and exit sections in order to be synchronized within any processing line, or used as a stand-alone drying unit for knitted and woven fabrics.

All the working parameters are controlled via a colour touch-screen, which includes a complete recipe management system and advanced diagnostics with the possibility of remote support.

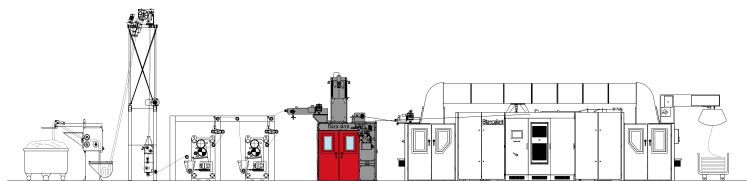


TECHNICAL SPECIFICATIONS

(*) increase for each additional set of two drying sections

	AIRBOX	AIRBOX XL	AIRBOX 4-6-8...(*)
Available working widths		up to 3600 mm	
Production speed		5 – 50 m/min (up to 80 m/min on request)	
Fabric inlet		free / A-frame / in line	
Fabric outlet		plaiter / A-frame / in line	
Maximum air temperature		200 °C	
Installed electrical power		starting from 30 kW	
Installed thermal power		starting from 250 kW	
Number of heads	1	2	+ 2
Total length of drying channel	9 m	15 m	+ 12 m
Evaporation capacity up to	300 kg/h	480 kg/h	+ 360 kg/h
Average utilisation of gas	20 Nm ³ /h	30 Nm ³ /h	+10 Nm ³ /h
Average utilisation of steam	250 kg/h	400 kg/h	+300 kg/h
Length	2100 mm	2700 mm	+1200 mm
Width (starting from)		from 4750 mm	
Height		3300 mm	

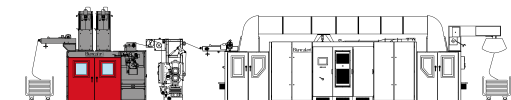
EXAMPLE CONFIGURATIONS AND LINES



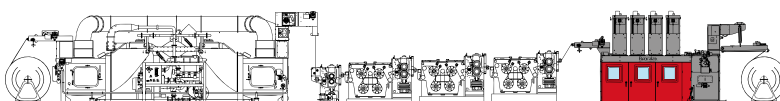
TERRY TOWEL



STAND-ALONE DRYER



PIGMENT PRINT FIXING AND FINISHING



DRYING AFTER WASHING PROCESS



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due to product modification and improvement · 05/2023



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