



CONTINUOUS BATCH PASS-THROUGH DRYERS
STURDY AND EFFICIENT ST-100

GIRBAU

CONTINUOUS BATCH PASS-THROUGH DRYES

STURDY AND EFFICIENT



EXCELLENT OUTPUT

The ST-100 dryer is engineered to unbind, condition and completely dry cake loads. A powerful heating system obtains an excellent drying process, having an optimal ratio of circulated air and extracted humidity along with high output and truly low energy consumption.

STURDY AND SIMPLE, GUARANTEED MAXIMUM DURABILITY

The simplicity of its design and the sturdiness of its construction makes for maximum durability with low maintenance. The chassis is constructed with steel sides finished with high resistant epoxy paint. All the materials which come in contact with the laundry arc made of AISI 304 stainless steel. The large robust drum is supported by a set of guide wheels which give it a precise and silent operation, allowing for rotation reversals in both directions.



SPIROTILT-GIRBAU



The SPIROTILT-GIRBAU system converts the ST-100 dryer into the one which most respects the environment. It avoids the unnecessary operation of the fan, with an important energy savings.

Working conditions are considerably improved in an environment without lint.

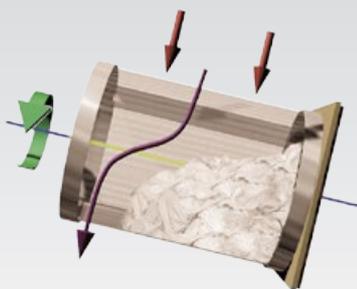


INCLINED DRUM GIRBAU ST-100 DRYER

The ST-100 dryer has the patented SPIROTILT-GIRBAU a revolutionary system which optimizes the drying process and facilitates the unloading of the laundry.

With the slight drum inclination of only 2.5° and the incorporations of inclined blades, ensure the best drying process along with the best unloading system.

During the drying process, the dryer drum rotates on an incline in a clockwise direction. Blades inside the drum force laundry at the back of the cylinder toward the front (fig.1), achieving proper load separation and even airflow through the load. The load is balanced along the length of the drum resulting in unmatched drying. Spirotilt does not use gaskets to facilitate the drying process.



Other manufacturers

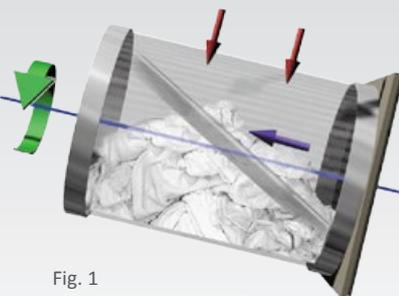


Fig. 1

GIRBAU

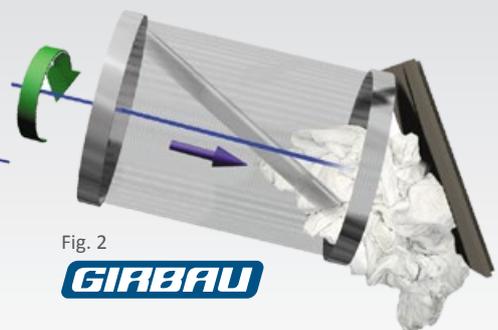


Fig. 2

GIRBAU

During the unloading process, the dryer drum rotates counterclockwise on the same incline. The incline of the drum works with the interior drum blades to move the load toward the bottom of the cylinder for automated unloading, with the fan stopped and without tilting (fig.2).



HEATING SYSTEMS

The GIRBAU ST-100 batch dryer is available in three heating versions:

Steam heating and hot oil heating:

The steam or hot oil systems of the ST-100 ensure high output and excellent efficiency. Their cleaning is simple and easy with very low maintenance.

Gas heating:

The experience of GIRBAU in gas heated machines has been applied to this version of the ST-100 dryer to optimise its output to the utmost.

The burner system designed by GIRBAU assures a high degree of efficiency. Thanks to its modulating system, the flame self-adjusts to the appropriate heating demand, which makes the energy consumption cost-effective and makes the best advantage of the possibilities of gas.

It includes cool-down and thermostatic control of the drying temperature. In addition, it has a process thermostat and one for maximum safety.

It incorporates an anti-fire water sprinkler (optional in steam and hot oil heating) which will prevent the spread of flames in the hypothetical case of a fire being produced.

Dryer-Separator:

The ST-100D separator is a dryer (without heating system or fan) which does the separating functions of the laundry after exiting a batch washer, in a truly low time.





FLEXIBLE PROGRAMMING

The ST-100 dryer has 16 different drying programs. Each program includes 8 phases. The parameters of each phase can be modified according to the needs of the customer: time; temperature; personalized rotation reverse for clockwise and counter clockwise directions; programming the speed; configuration of all the unloading variables (rotation reverse, total time...).



THE HIGHEST SAFETY LEVEL

The design of the ST-100 dryer ensures conformity with the most demanding world standards in terms of safety.

Consequently, it incorporates different safety mechanisms on the loading and unloading doors and in the filter access.

It has CE certification, complying with the Machine Safety Directive, the Electromagnetic Compatibility Directive and the Gas Devices Directive.





GREAT VERSATILITY

A WIDE RANGE OF OPTIONS

AUTOMATIC FILTER CLEANING

The ST-100 batch dryer has an effective automatic cleaning system of the lint filter. The periodic cleaning of the filter is one of the keys in maintaining the high output of the dryer.

When it detects that the filter is saturated, after finishing the unloading cycle (without interrupting any drying process), the automatic filter cleaning process is activated, removing the fibre to the exterior.

THERMOSTATIC SPRINKLER

A thermostatic safety sprinkler acts when temperature surpasses the 260°C / 500°F limit, spraying water in the dryer interior. Before the sprinkler starts, two safety thermostats proceed to stop the machine and disconnect the electrical feed.

TEFLON COVERING OF THE DRUM INTERIOR

The Teflon covering of the drum interior avoids that any plastic materials mixed in with the laundry adhere to the drum as a result of the high temperature.

COOL-DOWN CYCLE AND TEMPERATURE CONTROL

In the steam and hot oil heating versions, the cool-down is optional. The opening of a large flap introduces air from the exterior to cool the laundry.

The control of the drying temperature (optional in the steam and hot oil versions) is complemented with the previous option. The opening and closing movements of the flap are regulated by thermostat.

PEDESTALS ACCORDING TO THE HEIGHT NECESSARY

The ST-100 dryer has five pedestal versions with different heights to assure the best adaptation to the installation space. The tallest height makes the best use of the unloading process.



Automatic filter cleaning





ST-100 DRYER

GIRBAU ST-100 dryer incorporates a suction loading system, which permits the machine to function in a totally independent manner. Once the linen is loaded, the drying program selected should be validated. When the dryer is prepared, admit the pre-loaded laundry which proceeds to its drying. To finish the drying cycle, the laundry is unloaded automatically into the cart previously located at its unloading point. A microprocessor control with an integrated keyboard allows the selecting and configuring of 16 drying programs.

The ST-100 with suction loading system is able to integrate in an installation with the TBS BATCH WASHER SYSTEM.



Suction loading

GIRBAU BATCH WASHING SYSTEM

Girbau has a full range of products for configuring the Washing System that best matches your needs.

Different batch washers, depending on production needs and types of linen, and a full range of dryers together with the SPR-50 press, make up the Girbau washing system.



ST-100 BATCH PASS-TROUGH DRYER



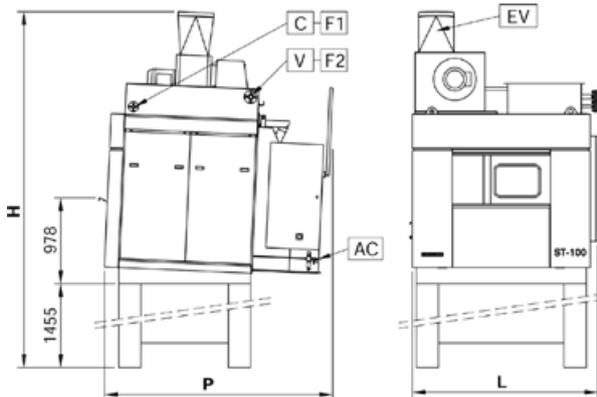
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MODEL		ST - 100 - V	ST - 100 - F	ST - 100 - G	ST - 100 - D
Capacity 1/20	kg (lbs)	127 (280)			
Capacity 1/25	kg (lbs)	100 (220)			
Heating power	kW (B.T.U.h.)			289 (989.000)	-
Drum Ø	mm (in.)	1.470 (57.9)			
Drum Depth	mm (in.)	1.500 (59)			
Drum Volume	dm ³ (cu.ft.)	2.545 (89.9)			
Rotation speed	r.p.m.	25			
Net weight	kg (lbs)	2.200 (4.850)			1.740 (3.836)
Gross weight	kg (lbs)	2.750 (5.977)			1.800 (3.913)
Height H *	mm (in.)	4.710 (185.4)			3.705 (146)
Width L	mm (in.)	2.010 (79.1)			
Depth P	mm (in.)	2.460 (97)			
Steam Ø V	mm (in.)	DN-40 (1½)	-	-	-
Return Ø C	mm (in.)	DN-25 (1)	-	-	-
Steam Consumpt. 12 bar	kg/h (lbs/h.)	600 (1.322)	-	-	-
Hot Oil flow	m ³ /h (c.f.m.)	-	30 (17.6)	-	-
Inlet Ø F1	mm (in.)	-	DN-65 (2 ½)	-	-
Outlet Ø F2	mm (in.)	-	DN-65 (2 ½)	-	-
Gas connection Ø	in.	-	-	1¼	-
Exhaust Ø EV	mm (in.)	400 (15.7)			
Airflow	m ³ /h (c.f.m.)	10.000 (5.887)			
Max. Airflow resistance	mm H ₂ O	25			
Compressed Air Ø AC	mm (in.)	10 (3/8)			
Comp. Air consum. 6 bar **	l/h (USgal/h)	330 (87.1)			150 (40)
Motor Power	kW (H.P.)	9,8 (13.2)		10,4 (14)	4,3 (5.7)
Sound Level	Db (A)	75			< 70
Voltage		220-415V-3-Ph 50Hz 208-480V-3-Ph 60Hz			

* Height with pedestal 1.480mm (58,3 in.). Pedestals available: 830, 985, 1235,1735mm (32.7, 38.8, 48.7, 68.4 in.)

** The compressed air consumption is 330l/h (87.19 Usgal/h) if used with a filter automatic cleaning. Otherwise it is 150 l/h (39.63 Usgal/h)

GIRBAU S.A. reserves the right to change specifications without notice



See video

BRANCHES

Argentina - Buenos Aires -Tel. +54-1 149017600 - girbauargentina@girbau.com.ar
 Australia - Sydney - Tel. +61 2 96755860 - sales@girbau.com.au
 Brazil - Sao Paulo - Tel. +55 11-29820446 - girbaudobrasil@girbau.com.br
 Cancún (Mex.) - Tel. (+52) 998 884 0517 - administracionmexico@girbau.com
 China - Shenzhen & Hong Kong - Tel. +86-755-8211 1330 - info@girbau.com.cn
 Cuba - La Habana - Tel. (+53-7) 8662071 al 73 - girbau@girbau.co.cu
 Dominican Rep. - Punta Cana - Tel. +1 809-959-0615 - infodominicana@girbau.com
 France - Roissy (Paris) - Tel. +33 1-49388585 - infofrance@girbau.com
 Germany - Ratingen - Tel. +49 2102 9934619 - girbaugermany@girbau.com
 Italy - Marcon (VE) - Tel. +39 0418654330 - infoitaly@girbau.com
 Portugal - Porto - Tel. +351 22 3758909 - vendasportugal@girbau.pt
 U.A.E. - Dubai - Tel. +971 4-8839951 - sales@girbau.ae
 U.K. - Hitchin - Tel. +44(0)-1462 427780 - info@girbau.co.uk
 U.S.A. - Oshkosh, Wi & Los Angeles, Ca - Tel. +1(920) 2318222 - info@continentalgirbau.com

HEADQUARTERS

GIRBAU, S.A. Ctra de Manlleu, km. 1 - 08500 Vic (Barcelona) Spain - girbau.com
 Tel. (+34) 93 886 2219 - Fax (+34) 93 886 0785 - sales@girbau.com

