



**GIRBAU**  
INDUSTRIAL™

# HIGH PERFORMANCE DRYING TUMBLERS

Drying tumblers engineered for efficiency, programmability and ease of use in on-premise laundries.

ST-1300

ST-100

## GIRBAU INDUSTRIAL ON-PREMISE DRYING TUMBLERS MAXIMIZING ENERGY-EFFICIENCY AND PRODUCTIVITY

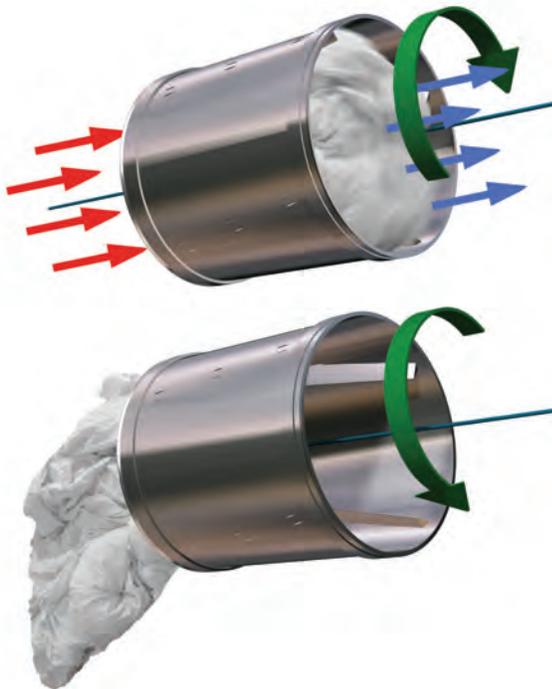
# ST-100 | ST-1300

Girbau Industrial Dryers—the ST-100 and ST-1300—are arguably the world’s most productive, durable and efficient dryers. Engineered with unique technologies and designed for heightened ergonomics, programmability and safety, they perfectly fit the needs of medium- to high-volume laundries. Offering 140- and 265-pound capacities to properly dry all types of laundry, Girbau Industrial Dryers are available in gas, thermal fluid and steam.

### UNIQUE FEATURES MAKE ALL THE DIFFERENCE

#### SPIROTILT TECHNOLOGY

A patented and revolutionary system, Spirotilt combines a slight drum incline with interior drum blades to ensure laundry items do not clump and bind during drying. Thanks to unique engineering, Spirotilt delivers automated unloading without dryer tilting.



#### THE DRYING PHASE

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, promoting even airflow and balancing the load along the length of the drum for unmatched drying. Spirotilt does not use gaskets to facilitate the drying process, and as a result, eliminates unnecessary gasket maintenance.

#### AUTOMATED UNLOADING

During the unloading process, the dryer drum rotates counterclockwise. The incline of the drum works with the interior drum blades to move the load toward the bottom of the cylinder for automated unloading. Thanks to Spirotilt, air pollution and heat loss are drastically minimized during the unloading phase.

#### THE SPIROTILT DIFFERENCE

Unlike the ST-100 and the ST-1300, some dryers feature a drum that stays in the horizontal position to eliminate laundry clumping, but during the unloading process, use the airflow of the fan to unload the laundry. This system releases heat and lint into the laundry area and triggers unnecessary cool-down of the dryer. Other dryers are designed with a tilt system for unloading, but those require flexible gas, steam and exhaust connections that can lead to multiple breakdowns and leaks. Other models use gaskets to keep laundry balanced throughout the cylinder, but those gaskets require regular maintenance. The Spirotilt system ensures the best combination of drying results and seamless unloading, with fewer moving parts and less maintenance.

#### INFRARED TEMPERATURE SENSING

Girbau Industrial’s optional Infrared Temperature Sensing (ITS) system reduces over-drying and resulting fabric damage. It works by using sensors located at the dryer inlet and exhaust, and in the cylinder. The sensors monitor real-time temperatures throughout the entire cycle. When the load has reached its preset target level of dryness, the sensors shut the dryer off—saving energy, time and resulting labor costs.



**ST-1300**  
up to 140-pound  
capacity



**ST-100**  
up to 265-pound  
capacity

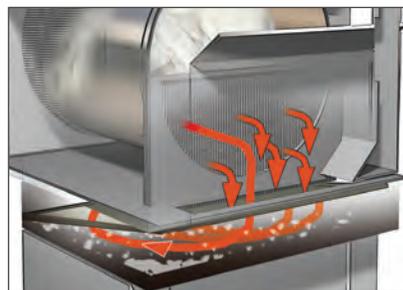
## VACUUM LOADING & AUTOMATIC UNLOADING

The patented Vacuum Loading System allows operators to quickly load items of all sizes into the dryer with minimal effort. A powerful suction pulls items inward, with no risk to attendants. In less than one minute, attendants fully load the dryer. From the same area, items are then automatically unloaded. The patented system, Spirotilt, allows for seamless automated unloading without dryer tilting—further enhancing ease of use. All loading and unloading is completed in the same area—boosting productivity.



## AUTOMATED LINT FILTER CLEANING

Girbau Industrial Dryers feature automated lint filter cleaning that supports maximum airflow and quick, efficient drying. During the unloading process, if the system detects that the filter needs cleaning, it automatically activates the filter cleaning process and removes the lint to the exterior, without interrupting the drying process.



## PROVEN CONSTRUCTION, DURABILITY AND LONGEVITY

Girbau Industrial Dryers are designed for unmatched longevity. They feature steel sides finished in durable paint for corrosion resistance. Dryer components that come in contact with laundry are constructed of AISI-304 stainless steel to reduce friction—extending linen life. The robust drum, supported by a set of guide wheels, delivers silent operation and years of no-hassle use. It's no wonder Girbau Industrial Dryers feature a 3-year limited IndustrialCare™ warranty—among the best in the industry!

## OPTIONAL FEATURES

### TEFLON-COATED INTERIOR DRUM

The drum's interior is coated with Teflon® to prevent any plastics, inadvertently mixed in with the laundry, from adhering to the drum as a result of high temperatures.

### ISS FIRE SENSING & EXTINGUISHING (Standard on gas, optional on steam/thermal fluid.)

Girbau Industrial offers an Integrated Sprinkler System (ISS), a sensing and extinguishing device that squelches dryer fires before they get out of control. Standard on gas models and optional on steam and thermal fluid models, ISS ensures laundries are better protected from the hazards and damage caused by dryer fires. ISS is always active—even after a load is complete—offering added protection when laundry is unattended. If ISS sensors detect a fire in the dryer drum, the drum rotates and distributes water vapor into the load—extinguishing the fire. ISS continues to monitor the dryer and restarts if fire is again detected.

A TECHNOLOGICALLY ADVANCED  
& POWERFUL DRYER

# ST-100

[UP TO 265-POUND CAPACITY]



The ST-100 Dryer is engineered to unbind, condition and completely dry up to 265 pounds of linen per load, using less energy. Its robust heating system effectively circulates air through laundry for a quicker dry. Designed with Spirotilt and Vacuum Loading, the ST-100 optimizes drying, facilitates loading and simplifies unloading. Available in gas, steam and thermal fluid, ST-100 Dryers works as part of Girbau Industrial's Continuous Batch Washing System or in tandem with on-premise washers.

## FEATURES SUMMARY

- Radial Airflow
- Highly Programmable Control
- Vacuum Loading
- 4 Pedestal Heights Available
- Spirotilt Unloading
- Infrared Temperature Sensing (ITS)
- Automated Lint Filter Cleaning
- ISS Fire Suppression System  
Standard on gas, optional on steam/thermal fluid.
- 3-Year Limited Warranty

## RADIAL AIRFLOW & QUICK-DRYING CONVENIENCE

The ST-100 is designed with radial airflow—a system that captures heated intake air and distributes it evenly throughout the entire drying cylinder. Radial airflow ensures maximum load separation for big loads and bulky items and utilizes the tumbler's complete capacity for quick, even drying. As heated air is released from the top of the basket, linens, which are rotated from the bottom to the top of the basket, fall and separate throughout the entire cylinder. As linens fall and separate, heated air is pushed through and around the load—eliminating hot and/or damp spots in the load and expediting the drying process.



## MODULATING BURNER SYSTEM

The ST-100 gas model features a modulating burner system in which the flame self-adjusts to appropriate heating demand—lowering energy consumption and resulting utility costs.

## HIGHLY PROGRAMMABLE

With 16 drying programs offering eight programmable phases, the ST-100 delivers the ultimate in programmability to meet the specific needs of any linen type. Each phase can be programmed to control time, temperature, rotation, speed, and all unloading variables.

## COOL-DOWN CONTROL

During cool-down, a thermostat controls the opening and closing movements of a large flap that introduces cool air into the drum to cool linen (optional in steam and thermal fluid).

## PEDESTALS TO ADJUST DRYER HEIGHT

Four differently sized pedestals can be used to adjust the height of the dryer according to the needs of the facility. The tallest pedestal height provides the best conditions for unloading.



“We have five ST-100s and they’ve worked flawlessly since they were installed. The infrared heat sensor detects the temperature of the product itself, not the ambient air temperature inside the drum. This ensures we don’t over-dry items and saves us substantially in natural gas consumption, as well as cycle time in the dryer.”

– Rick Rone, Owner, Laundry Plus, Bradenton, FL

THE WORLD'S MOST ADVANCED AND EFFICIENT DRYER

# ST-1300

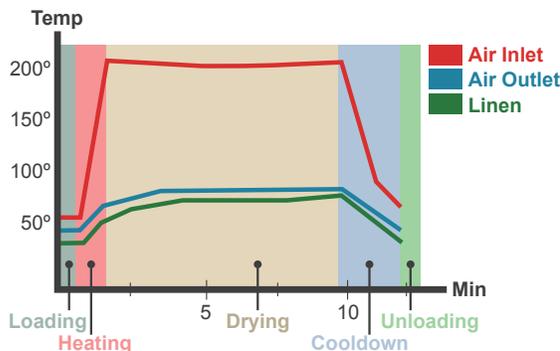
[UP TO 140-POUND CAPACITY]



Engineered for unrivaled ergonomics, energy-efficiency and productivity, the ST-1300 dries up to 140 pounds of laundry in less than 15 minutes. Featuring industry-unique features, including patented Vacuum Loading and automated Spirotilt unloading, the ST-1300 is perhaps the quickest, most efficient and user-friendly dryer on the market. Available in gas, steam, or thermal fluid heat, the ST-1300 works seamlessly as part of Girbau Industrial's Continuous Batch Washing System or in tandem with on-premise washers.

## FEATURES SUMMARY

- Efficient Axial Airflow
- EcoFlow Air Flow Recirculation
- Atmospheric Burner
- Side-by-Side Installation
- Color Touch-Screen Control
- Vacuum Loading
- 6 Pedestal Heights Available
- Spirotilt Unloading
- Infrared Temperature Sensing (ITS)
- Automated Lint Filter Cleaning
- ISS Fire Suppression System  
Standard on gas, optional on steam/thermal fluid.
- 3-Year Limited Warranty



## SUPERIOR EFFICIENCY

Arguably the most efficient dryer on the market, the ST-1300 not only delivers dry times of less than 15 minutes, it uses very little energy (1579 BTU/pound of water removed).

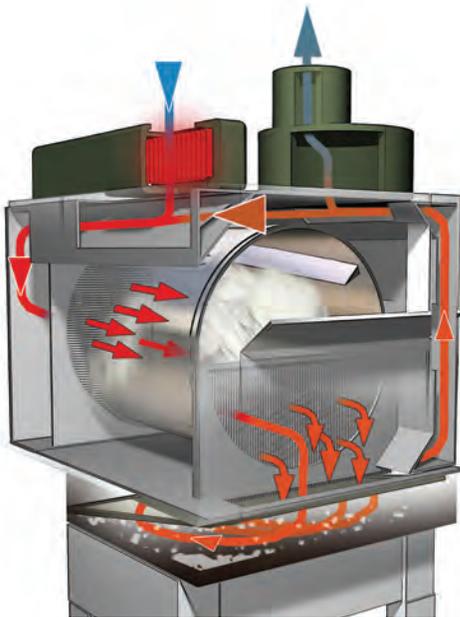
## ATMOSPHERIC BURNER

Integrated into the ST-1300 is an atmospheric burner, which smartly modulates heating power according to the needs of each drying phase cycle.

### AXIAL FLOW

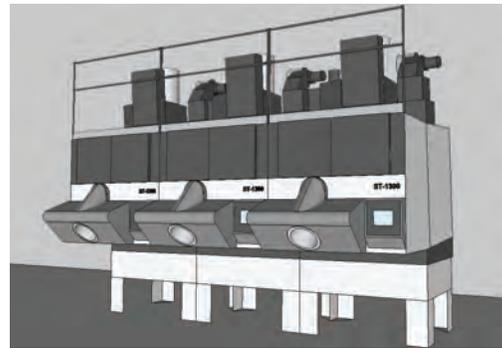
While other dryers lose about 30 percent of the hot air between their inner and outer drums, the ST-1300's patented Axial Flow system ensures that 100 percent of the dryer's hot air passes through tumbling linen—resulting in unrivaled drying times and efficiency.

The Axial Flow system also results in lower drum temperatures compared with radial flow dryers and reduces cooling phase time by as much as 50 percent. Because the drum sides do not have perforations, it delivers gentler treatment of fabrics, less fabric wear, and longer linen life.



### ECOFLOW

Contributing to the ST-1300's energy-efficiency is EcoFlow, an integrated airflow recirculation system (natural gas models). EcoFlow recirculates airflow during the drying cycle to achieve optimum performance. By recirculating approximately 80 percent of the nominal airflow, which is at a high temperature, significant energy savings are realized.



### INSTALLATION SENSE

Designed to make the most of available space, multiple ST-1300s can be installed side-by-side without space between each dryer. Maintenance is conducted at the front and back of each dryer. The dryers can be used as part of a tunnel washing system or in an on-premise laundry configuration.

### PROGRAMMABILITY

Boasting a highly flexible control, the ST-1300 offers 36 different programs, of which seven are pre-programmed. The control features a color touch-screen with easy-to-use graphic icons. Each phase can be programmed to control time, temperature, counterclockwise or clockwise rotation, speed, and all unloading variables.



### PEDESTALS TO ADJUST DRYER HEIGHT

Six differently sized pedestals can be used to adjust the height of the dryer according to the needs of the facility. The tallest pedestal height provides the best conditions for unloading.

MODEL		ST-1300 – OPL	ST-100
Capacity	lbs (kg)	up to 140 (63)	up to 265 (120)
Cylinder Diameter	inch (mm)	50 (1270)	57.9 (1470)
Cylinder Depth	inch (mm)	39.4 (1000)	59.1 (1500)
Cylinder Volume	cu. ft (dm <sup>3</sup> )	44.7 (1267)	89.9 (2545)
Net Weight	Thermal Fluid/Gas/Steam lbs (kg)	3307 (1500)	5360 (2466)
Machine Width	Thermal Fluid/Gas/Steam inch (mm)	68.5 (1739)	79.2 (2010)
Machine Depth	inch (mm)	81.6 (2072)	96.9 (2460)
Machine Height (without pedestals)	Thermal Fluid/Gas/Steam inch (mm)	119.4 (3032)	109.5 (2780)
Pedestal Heights	inch (mm)	23.4 / 32.6 / 38.7 / 48.6 / 58.2 / 68.3 (595 / 830 / 985 / 1235 / 1480 / 1735)	32.6 / 38.7 / 48.6 / 68.3 (830 / 985 / 1235 / 1735)
Electricity	Thermal Fluid/Steam Gas kW	8 5.24/8.5	10.5 11
Circuit Protection	Thermal Fluid 208-240/60/3 380-480/60/3 Gas 208-240/60/3 380-480/60/3 Steam 208-240/60/3 380-480/60/3 Amps	25 16 25 16 25 16	50 25 50 32 50 25
Exhaust Diameter	inch (mm)	15.75 (400)	15.75 (400)
Exhaust Air Flow	Thermal Fluid/Steam Gas cfm (l/s)	4708.6 (2222) 4708.6 (2222)	5887 (2778) 1764 (833)
Thermal Fluid Connection	inch	2-1/2	2-1/2
Thermal Fluid Consumption	cfh (m <sup>3</sup> /h)	1059.3 (30)	1059.3 (30)
Gas Connection	inch	1-1/4	1-1/4
Gas Heating	Propane Natural BTU/h (kW)	590,826 (173) 577,165 (169)	939,687 (275.2) 992,041 (290.5)
Steam Connection	inch	1-1/2	1-1/2
Steam Condensate Outlet	inch	1	1
Steam Heating	BTU/h (kW)	512,277 (150)	1,074,780 (315)
Steam Consumption	lbs/h (kg/h)	485 (220)	1102.3 (500)
Compressed Air Connection	mm	10	10
Compressed Air Flow	gal/h (l/h)	39.63 (150)	39.63 (150)

## THE COMPLETE LAUNDRY SOLUTION

Girbau Industrial delivers the total laundry solution to high-volume laundries around the world. As the developer of a proven line of batch tunnel washers, presses, dryers, ironers, feeders, folders, stackers and loading and unloading systems, Girbau Industrial serves the complete laundry production and efficiency needs of virtually any application.

## ENVIRONMENTALLY FRIENDLY

A division of Continental Girbau Inc., Girbau Industrial laundry products meet rigorous environmental and safety standards established by the International Organization for Standardization (ISO). Ever focused on laundry efficiency, Continental Girbau, the North American subsidiary of Girbau S.A., is a member of the U.S. Green Building Council (USGB), a 501(c)(3) nonprofit that developed the Leadership in Energy and Environmental Design (LEED) Green Building Rating System.



\* Please contact Girbau Industrial for shipping dimensions and weights. All product specifications are subject to change without notice. For the most current and complete product specifications and warranty information please contact Girbau Industrial or visit [www.girbauindustrial.com](http://www.girbauindustrial.com).

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