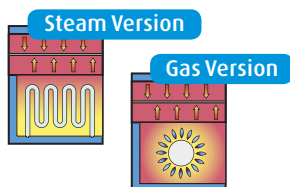


## Jenform Omega Pro

Energy-saving tunnel finisher  
based on the  $\Omega$  principle



Garment finishing automation  
with high and constant performance



Jenform Omega Pro General	Jenform Omega Pro I	Jenform Omega Pro II	Jenform Omega Pro III	Jenform Omega Pro IV	Jenform Omega Pro V
Opening for installation	2900 × 1800 mm	2900 × 1800 mm	2900 × 1800 mm	2900 × 1800 mm	2900 × 1800mm
Weight	2500 kg	3600 kg	4700 kg	5900 kg	7200 kg
Standard voltage	3 × 400 V + PE / 50 Hz	3 × 400 V + PE / 50 Hz	3 × 400 V + PE / 50 Hz	3 × 400 V + PE / 50 Hz	3 × 400 V + PE / 50 Hz
Electrical connection	12.8 kW / 25 A	22 kW / 44 A	31.2 kW / 63 A	40.4 kW / 80 A	49.6 kW / 98 A

Air pressure	6–10 bar	6–10 bar	6–10 bar	6–10 bar	6–10 bar
Air consumption	90 litre/h	180 litre/h	270 litre/h	360 litre/h	450 litre/h

#### Omega Pro Steam Version

Evaporation capacity	70 litre/h	140 litre/h	210 litre/h	280 litre/h	350 litre/h
Steam pressure	10–13 bar	10–13 bar	10–13 bar	10–13 bar	10–13 bar
Steam consumption	150–250 kg/h	300–450 kg/h	450–600 kg/h	600–750 kg/h	750–900 kg/h

#### Omega Pro Gas Version

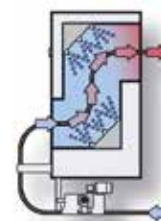
Evaporation capacity	75 litre/h	150 litre/h	225 litre/h	300 litre/h	375 litre/h
Steam pressure	6–10 bar	6–10 bar	6–10 bar	6–10 bar	6–10 bar
Steam consumption	50–120 kg/h	70–210 kg/h	120–320 kg/h	140–430 kg/h	160–540 kg/h
Gas consumption	6–8 m <sup>3</sup> /h	11–14 m <sup>3</sup> /h	16–20 m <sup>3</sup> /h	22–26 m <sup>3</sup> /h	28–32 m <sup>3</sup> /h

# Jenform Omega Pro

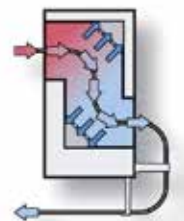
Energy-saving tunnel finisher based on the  $\Omega$  principle

### Inlet and outlet zone

The S-shaped conveying system considerably increases the processing time in the tunnel compared to other systems. The temperature of the garments is thereby slowly and gently raised in the inlet zone. The garments are slowly cooled down to ambient temperature in the outlet zone.



Inlet zone



Outlet zone

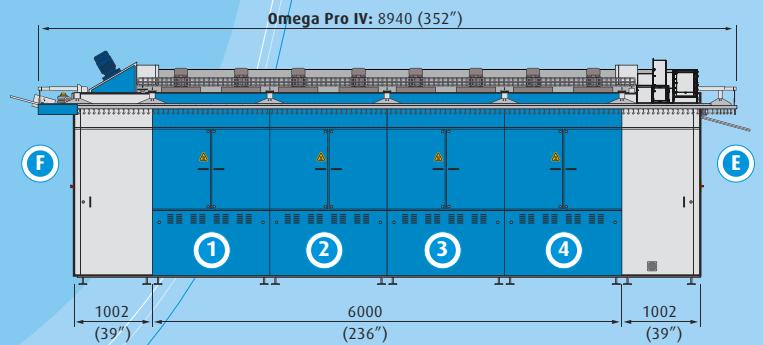
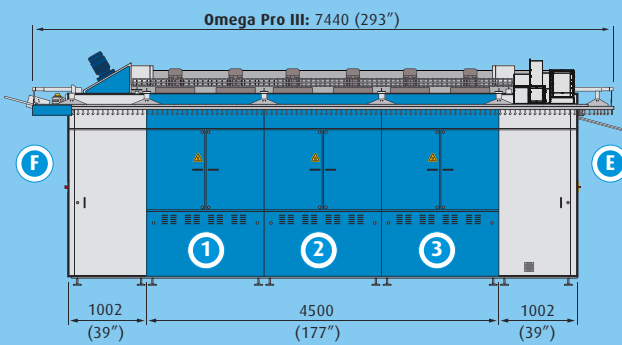
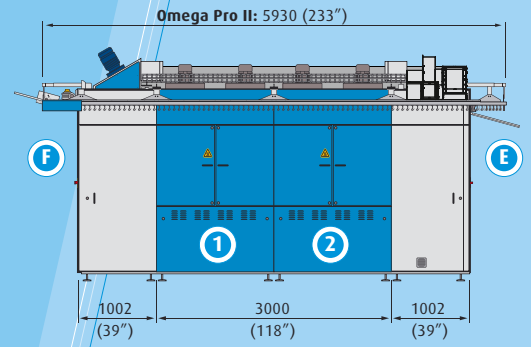
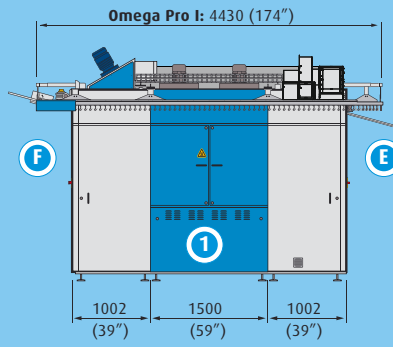
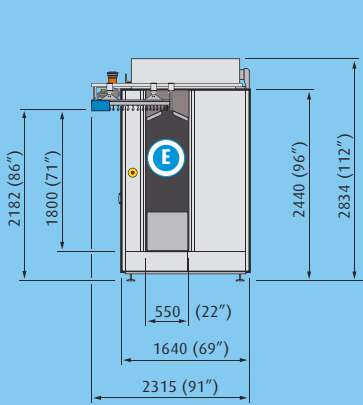
- ①
- ②
- ③
- ④



Drying units

ⓕ Inlet

ⓔ Outlet



### Energy-saving heating

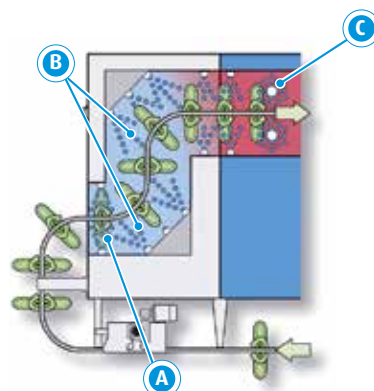
In the inlet zone the garments are pre-heated with the hot air from the outlet zone to save energy. Steam is directed onto the textiles accurately at intervals. Thanks to the energy recycling from the outlet zones, the accurate steaming at intervals and improved machine insulation, the Omega Pro consumes up to 25% less energy compared to previous models.

### Accurately directed steaming

The S-shaped conveying system creates a wedge-shaped gap between the garments. Optional steam can be directed sideways to the peak points. The garments are normally steamed bottom-up at the entrance of the inlet zone and top-down at the beginning of the drying zone. The pulsating and

accurately directed activation of the steam nozzles reduces the steam consumption to a minimum. The length of the activation intervals can be adjusted in the finish program.

- Ⓐ Bottom-up steaming
- Ⓑ Sideways steaming
- Ⓒ Top-down steaming



### Drying zone

#### Climate control:

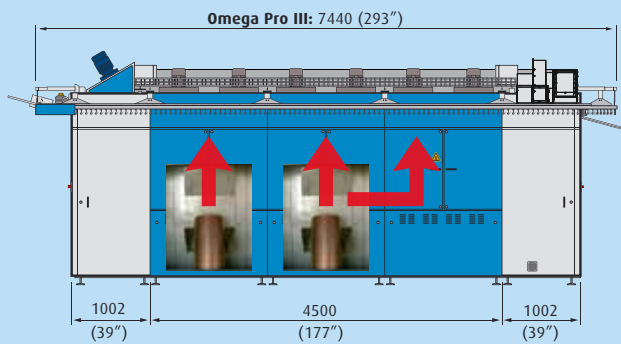
In the Omega Pro, the drying zone has been transformed into a genuine climate zone! The exchange of air is indispensable for superior performance. In other words, saturated air ① must be evacuated and replaced by unsaturated air. ② For this reason, the Omega Pro features not only individual temperature control but also separately adjustable fresh and exhaust air parameters per drying zone. ③ The climate control optimises capacity and allows a balanced control of energy input.

#### Air circulation principle:

The orientation of the air circulation fan ④ deflects the air stream at a right angle. This reduces flow losses and optimises the

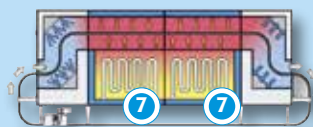


### Omega Pro HealthCare

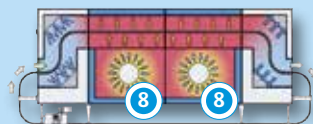


	I	II	III	IV	V	
Omega Pro HealthCare	1	1	2	3	4	Duo drying zone
Omega Pro Industrial	1	2	3	4	5	

### Omega Pro Industrial



Steam heating



Gas heating

volumetric flow as well. Process air reaches the garments through the new JET nozzles.

⑤ The lower section ⑥ of the processing chamber was narrowed in order to automatically allow a high-speed air stream and thus provide an ideal stretching and drying effect over the entire length of the garment.

#### Cool-down

The S-shaped conveying system creates a wedge-shaped gap between the garments at the air exhaust point in the outlet zone. The retained heat is therefore released faster and the cool down phase becomes shorter. The hot air from the outlet zone is transferred to the inlet zone in order to heat up the wet garments.

#### Omega Pro Industrial – Steam Version

One high-performance heating register ⑦ is integrated in each drying zone.

#### Omega Pro Industrial – Gas Version

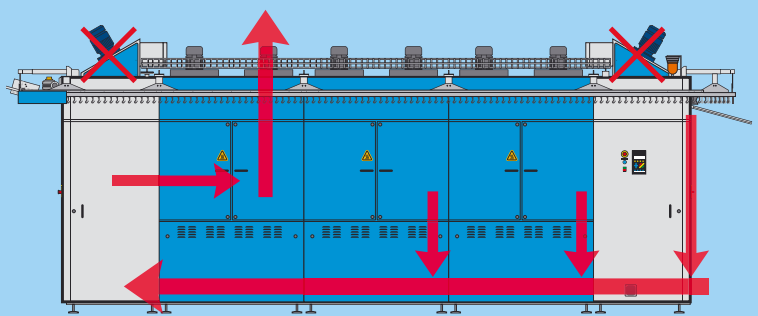
A separately adjustable gas burner ⑧ is provided for each drying zone. The burner is located in the centre of the drying chamber and injects the heat into the circulated air through a specially developed distribution tube. The distribution tube points at a high-temperature baffle. Process air flows around this baffle, so it functions like a radiator and ensures ideal heat distribution.

#### Omega Pro HealthCare

The HealthCare Version of the Omega Pro is used predominantly in hospital laundries. The Omega Pro HealthCare is equipped with a Duo drying zone starting from Model II. The last two drying zones are heated with one burner or heating register only because the light uniforms require less heat for the finishing process compared to heavy workwear.

#### Automatic lint scraper

Each tunnel finisher has an integrated automatic lint scraper. Together with the lint, dropped garments are transported to the side access. Automatic detection and alarm signalling of this event may be included on request.



Energy-saving air recirculation of the Omega Pro.

### Application

The Jenform series meets all requirements of today's garment finishing automation.

Its modular frame construction allows individual machine configurations, thus covering all customer needs. Two basic models are available, each in four performance categories and with numerous options:

- **Omega Pro Gas** individual gas heating per drying zone
- **Omega Pro Steam** individual steam heating per drying zone

### Basic construction

As the name of the **Jenform Omega** series suggests, the conveying system is based on the Greek  $\Omega$  sign. This simple and at the same time ingenious solution considerably increases the processing time during finishing. The drying zone and the air circulation system have been noise insulated. Special attention has also been given to thermal insulation to minimise heat loss.

### Energy efficiency

Energy consumption is reduced by up to 25 % with the Omega Pro in comparison to previous models. This is realised by recirculating air from the drying zones and the outlet zone into the inlet zone. Incoming garments are heated up in the inlet zone using the recirculated hot air. Additionally, the saturated air (exhaust air) is reduced to a minimum. Instead of two exhaust ventilators to discharge the saturated air, only one was integrated into the Omega Pro; this ventilator discharges the saturated air over the roof. A further ventilator recirculates the hot exhaust air from the drying zones and the outlet back into the inlet zone. The Health Care Version further reduces energy consumption thanks to the Duo drying zone.



User-friendly operation with touch screen.

### Installation

JENSEN is pleased to assist you in planning your laundry by providing excellent advice, layouts and technical data. Authorised JENSEN distributors or JENSEN engineers should carry out the installation to ensure that it is performed correctly.

### Service

In addition, JENSEN provides an extraordinary after-sales service through a worldwide network of highly qualified Sales and Service Centres and distributors, all with their own maintenance and spare parts services.

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JENSEN provides a complete range of heavy-duty equipment for the laundry industry, delivered and installed according to your specifications. Please do not hesitate to contact us for further advice and information, or visit [www.jensen-group.com](http://www.jensen-group.com)

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