

VELOX  
1929



TUNNEL LINE

VERSION  
**37/42**

LCT SERIES

## THE MOST VERSATILE AND POWERFUL TUNNEL ON THE MARKET

The LCT Series washing tunnels allow continuous treatment of crates, boxes, trays, molds, platters, and equipment of various types and sizes.

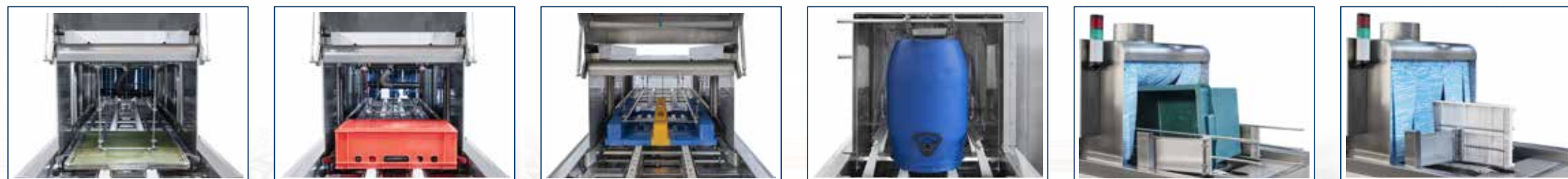
Modular and configurable even in the washing and transportation systems, each model of the LCT Series perfectly adapts to customer needs.

For example, it is possible to equip the machine not only with washing and rinsing, but also with systems for disinfection, blowing and/or drying.

### TUNNEL WASHING SYSTEMS



SCAN QR CODE



The picture shows model LCT 42 110 equipped with roof-loading system and Velox PLC 4.0

#### + SAVING

Velox Barchitta special washing technology ensures excellent results with very low water, power and chemicals consumption. Moreover, all models are equipped with the system to re-use the clean rinsing water to further reduce consumption.

#### + PRODUCTIVITY

Great loading capacity, low costs and hygiene standard guaranteed for every production condition.

#### + POWER

The washing system is powered by powerful stainless-steel pumps to allow the quick removal of any type of dirt.

#### + RELIABILITY

The LCT Series Tunnels are entirely manufactured in stainless-steel AISI 304, the internal pipes are designed to facilitate maintenance and cleaning operations.

#### + VERSATILITY

Velox Barchitta washing Tunnels perfectly adapt to every need and productivity. Discover all versions on [www.veloxbarchitta.it](http://www.veloxbarchitta.it)



BC SERIES



BN SERIES



LCT A SERIES



WHICH MODEL TO CHOOSE?

To perfectly adapt to the material to treat, there are several standard models with different sizes which can be set up with rotating or fixed washing arms, disinfection system, horizontal or vertical guides (perfect for chocolate molds), or enhanced with additional washing and drying sections (see following pages).

- The 37 versions are ideal for standard items such as crates, trays and boxes with length up to mm800 and width up to mm720.
- The PL versions are equipped double washing sections to increase productivity and wash even the toughest types of dirt.
- The MW versions are ideal to wash vertically items with a lot of crevices and gaps like for example chocolate molds.
- The HV versions vary in internal working height to allow the treatment of high items such as drums, barrels, and bins.

HOURLY PRODUCTIVITY WITH  
ROTATING ARMS WASHING SYSTEM

	CRATES (mm) 600x400x450h MAX		TRAYS STANDARD GN 1/1 mm530x325x65h		CHOCOLATE MOLDS standard mm 275x205		PALLETs (mm) 1200x800		BINs (mm) 400x300x640h MAX	
	Speed 1	Speed 2	Speed 1	Speed 2	Speed 1	Speed 2	Speed 1	Speed 2	Speed 1	Speed 2
LCT 37 7K	340	490	110	160	-	-	-	-	-	-
LCT 37 7K PL	490	690	180	270	-	-	-	-	-	-
LCT 37 7K HV	350	500	-	-	-	-	-	-	350	500
LCT 37 7K HV SOFPM	350	500	-	-	-	-	-	-	100	150
LCT 37 7K HV PL 4SOFPM R	500	700	-	-	-	-	-	-	400	500
LCT 37 7K MW SOFP	250	350	-	-	250	300	-	-	-	-
LCT 37 7K MW PL 2SOFP	350	500	-	-	500	600	-	-	-	-
LCT 42 90 7K	400	550	120	170	-	-	-	-	-	-
LCT 42 90 7K PL	610	810	190	280	-	-	-	-	-	-
LCT 42 110 11K	580	780	136	204	-	-	115	165	-	-
LCT 42 110 11K PL	780	1040	226	340	-	-	165	230	-	-

GENERAL CHARACTERISTICS - LCT 37/42

- ELECTRIC or indirect 2bars STEAM heating with exchanger and condensate recovery
- Continuous feed conveyor system with chains
- Security clutch on the feed
- Tank drain on the floor
- Rinsing water economizer

FOR ALL TYPES OF PRODUCTION





### LCT 37 7K

Washing 55°C + Rinsing 85°C  
7.5 kW Washing Pump  
Double feed speed from 2.3 to 3.3 m/min.  
"standard speed for crates"



Please Note: the machine here pictured is equipped with the optional Velox PLC 4.0 control panel

### LCT 37 7K HV

Washing 55°C + Rinsing 85°C  
7.5 kW Washing Pump  
Double feed speed from 2.3 to 3.3 m/min.  
"standard speed for bins"



### LCT 37 7K PL

Pre-washing 48°C + Washing 55°C + Rinsing 85°C  
n° 2 7.5 kW Washing Pumps  
Double feed speed from 3.3 to 4.6 m/min.



Please Note: the machine here pictured is equipped with the optional Velox PLC 4.0 control panel

### LCT 37 7K MW SOFP

Washing 50°C + Rinsing 85°C + Drying  
7.5 kW Washing Pump  
Double feed speed from 1.6 to 2.2 m/min.  
"standard speed for chocolate molds"





Please Note: the machine here pictured is equipped with the optional Velox PLC 4.0 control panel

### LCT 42/90 7K

Washing 55°C + Rinsing 85°C  
7.5 kW Washing Pump  
Double feed speed from 2.3 to 3.3 m/min.



Please Note: the machine here pictured is equipped with the optional Velox PLC 4.0 control panel

### LCT 42/110 11K

Washing 55°C + Rinsing 85°C  
11 kW Washing Pump  
Double feed speed from 2.3 to 3.3 m/min.



Please Note: the machine here pictured is equipped with the optional Velox PLC 4.0 control panel

### LCT 42/90 7K PL

Pre-washing 48°C + Washing 55°C + Rinsing 85°C  
n° 2 7.5 kW Washing Pumps  
Double feed speed from 3.3 to 4.6 m/min.



Please Note: the machine here pictured is equipped with the optional Velox PLC 4.0 control panel

### LCT 42 110 11K PL

Pre-washing 48°C + Washing 55°C + Rinsing 85°C  
n° 2 11 kW Washing Pumps  
Double feed speed from 3.3 to 4.6 m/min.





## ADVANTAGES AS STANDARD

## RINSING ECONOMIZER



Thanks to its electromagnetic sensor, the rinsing activates only when the items are close to the nozzles. This technology allows to further reduce costs, preventing unnecessary consumption of water and energy.

## DOUBLE FEED SPEED



The double feed speed allows to slow down or speed up the productivity according to washing needs. By increasing or decreasing contact time of the items with the water flow it's possible to treat different types of dirt. The High Speed (optional) allows to further increase hourly productivity of the models.

ELECTRIC  
OR STEAM HEATING

The heating system on all models of the LCT Series can be powered electrically (default) or with indirect steam 2 bars with heat exchanger and condensate recovery.

## CONTROL PANEL



The machine is electronically controlled to set two speeds. The control panel also allows to see the temperatures and the door alarms and the thermal release of the engine.

## CASCADE SYSTEM



The cascade system guarantees the entrance of clean water only through the rinse by adjusting the flow with a valve and a micro switch. This technology, standard on all models of the LCT Series, allows to monitor and drastically cut energy, water and chemicals consumption.

## MODULARITY



## SETUP

## WASHING SYSTEM

1



2



## 1. WASHING WITH FIXED SPRAYS

The fixed sprays washing system is manufactured entirely out of AISI 304 stainless-steel. The upper, lower and side stainless-steel pipes are positioned to hit the items in their entirety and ensure excellent washing results.

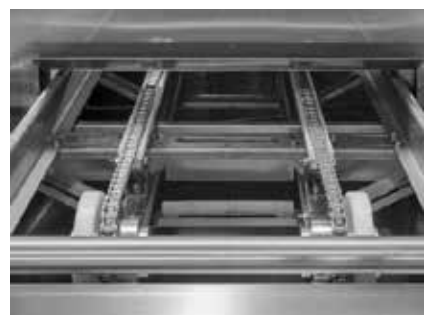
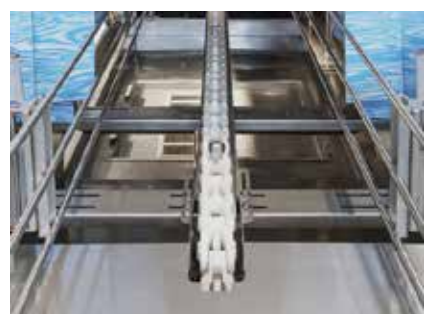
The pipes have a quick connection and are removable to facilitate maintenance and cleaning operations.

## 2. ROTATING ARMS WASHING SYSTEM

The rotating arms washing system is manufactured entirely out of AISI 304 stainless-steel. The rotating washing system allows to wash items which are very dirty or have a lot of nooks and crannies (for example molds and pastry forms).

Thanks to the rotation, the water jet effectively hits the items even in the points which are most difficult to reach.

## FEED SYSTEM



## SINGLE OR DOUBLE CHAIN

According to productivity and the type of item, it is possible to choose the feed system with a single or double line, with a plastic or stainless-steel chain.

## STAINLESS-STEEL VELOX CONVEYOR BELT

The Velox stainless-steel  $\varnothing$  mm 8 conveyor belt system allows to wash small items without the use of baskets.



## DOPPIO NASTRO IN ACCIAIO INOX

The stainless-steel double belt feed system allows to wash items of both big and small sizes without the use of a holder or baskets.

## DRYING SYSTEM

According to the items and the degree of dryness desired, it is possible to integrate the chosen LCT model with one or more drying modules.



## STATIC DRYING

This system allows to dry the items by blowing naturally heated air through upper, lower and side blades



## MOTORIZED DRYING

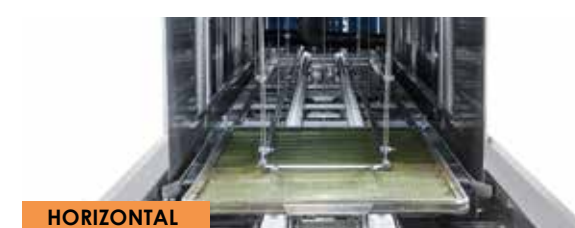
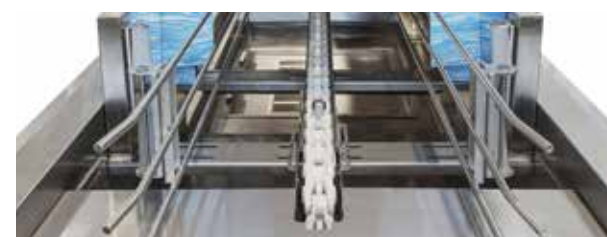
This system allows to dry the items by blowing naturally heated air through upper and side blades and by a motorized lower blade. **Motorized blowing increases the machine depth in each model of 450 mm.**

## ADJUSTABLE HOLDER (MANUAL OR AUTOMATIC)

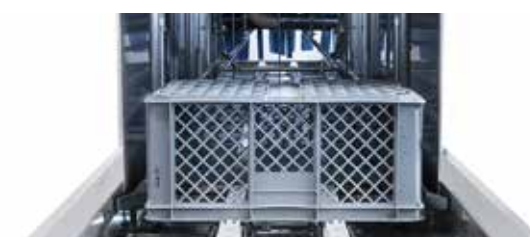
The holder immobilizes and aligns the items during treatment, maintaining them in position. Both versions (vertical/horizontal) are adjustable to allow washing of items with different sizes without changing the configuration of the machine. Models equipped with VELOX PLC 4.0 system can be equipped with automatic, controllable horizontal presser from touch display, which allows you to set different heights.



VERTICAL



HORIZONTAL



## VELOX PLC 4.0 SYSTEM

All models of the LCT Series are available in the 4.0 version. This technology allows to control the machine through a touchscreen display and a management program developed by us to configure the parameters of every single cycle and monitor them through special detection sensors. The system, after every cycle, automatically sends a report and a performance certification to quality control.

The advantages of the 4.0 versions involve the whole process and company productivity because they are equipped with features for predictive maintenance, failure detection and remote maintenance.





## OPTIONAL

### CONDENSER AND HEAT RECOVERY

The water present in the condensate and heat recovery exchange battery condensates the steam produces from the washing and rinsing cycle and pre-heats almost completely the water used in the rinsing, thus reducing consumption up to 30% less.

Allows you to supply the machine with cold water.



### ROOF-LOADING SYSTEM

To increase productivity and halve the cost of labor, it is possible to equip all models with this system which allows one operator to use the machine, from one side used both for loading and unloading.



### ROLLER TABLES FOR INLINE INSERTION



## TECHNOLOGY 4.0 PIONEERS

We want to promote the production change that leads to fully automated and interconnected processes.

For this reason, Velox Barchitta machines are designed to meet the requirements of Industry 4.0 standards.



Management program entirely designed, developed and managed by Velox Barchitta



PLC control with simple and intuitive interface



Interconnection to computer systems



Data Upload and Remote Control



Automated Integration with Logistics Systems



Remote maintenance and remote diagnostics



Sensors for monitoring parameters and conditions



Certification of the cycle with control of parameters for Safety, Health and Hygiene





MOST REQUESTED SETUPS

MOLD WASHER

► LCT 37 MW PL 2SOFP

Pre-washing 48°C + Washing 50°C + Rinsing 85°C + 2 Drying Modules  
Up to 600 molds/hour with standard molds sized: mm 275x205 perfectly dry



► LCT 37 MW SOFP

Washing 50°C + Rinsing 85°C + 1 Drying Module  
Up to 300 molds/hour with standard molds sized: mm 275x205 perfectly dry



BIN WASHER

► LCT 37 HV PL 4SOFPM R

Pre-Washing 48°C + Washing 55°C + Rinsing 85°C + 4 Motorized Drying Modules  
Up to 500 bins/hour dry



► LCT 37 HV SOFPM

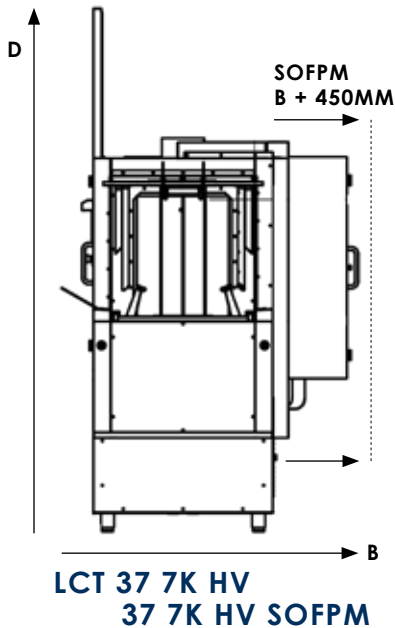
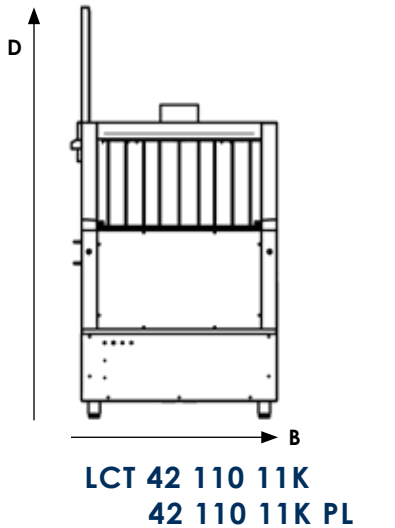
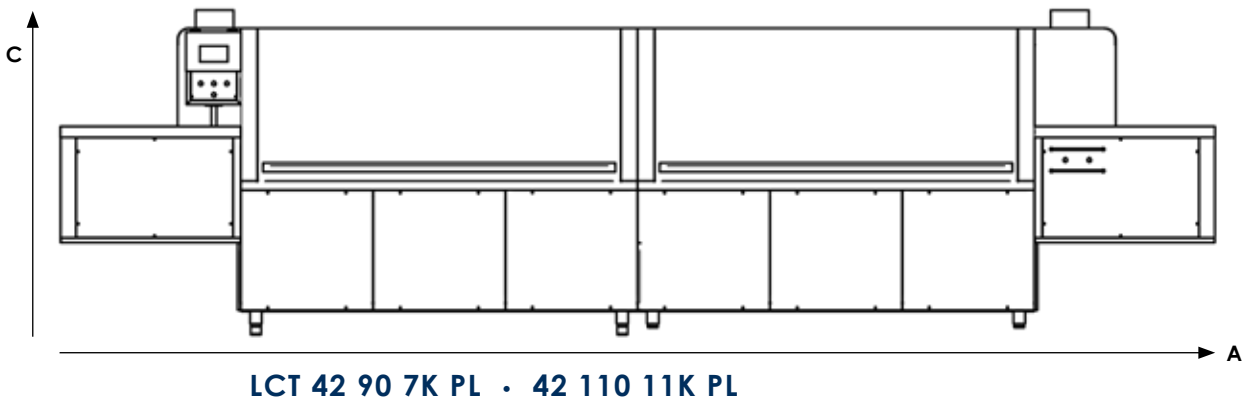
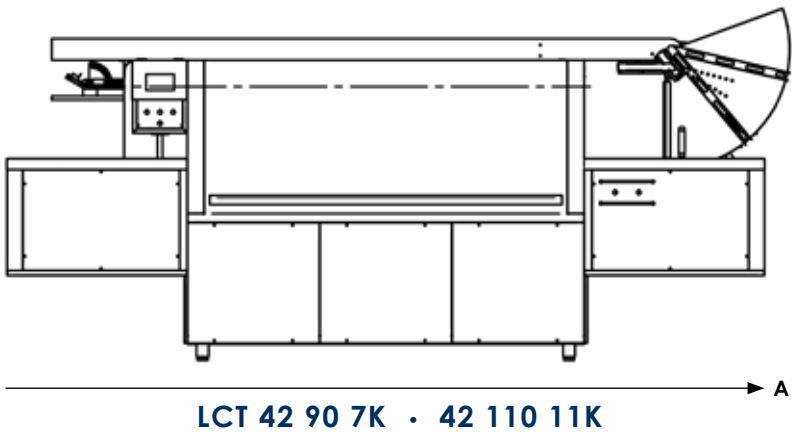
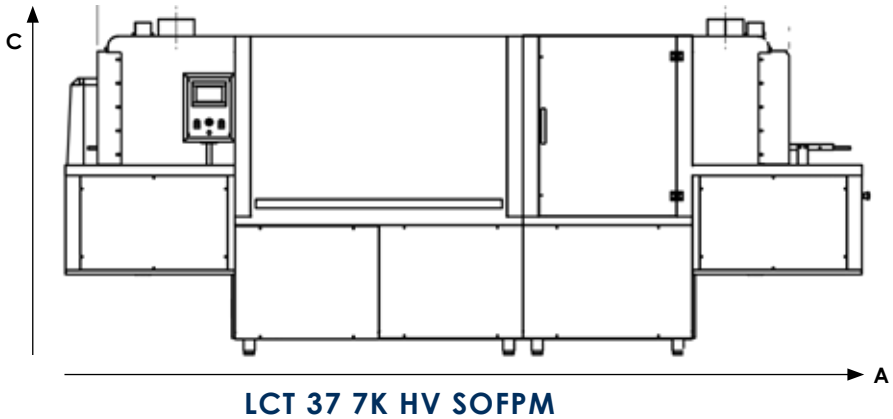
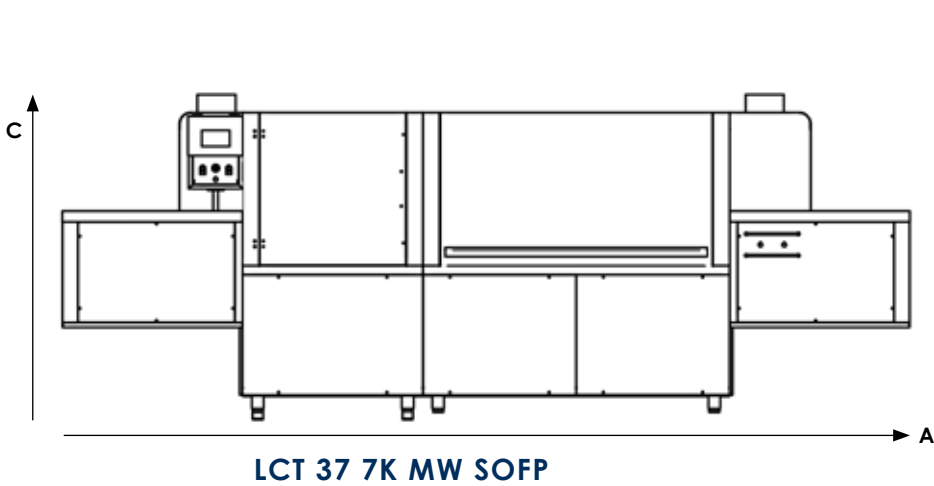
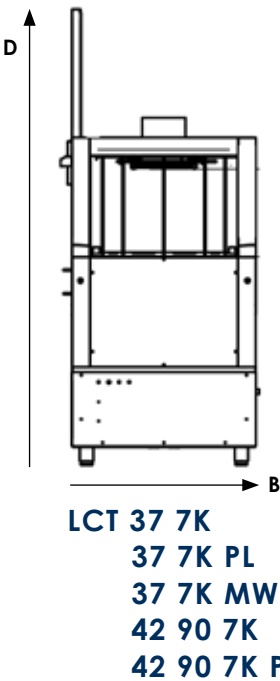
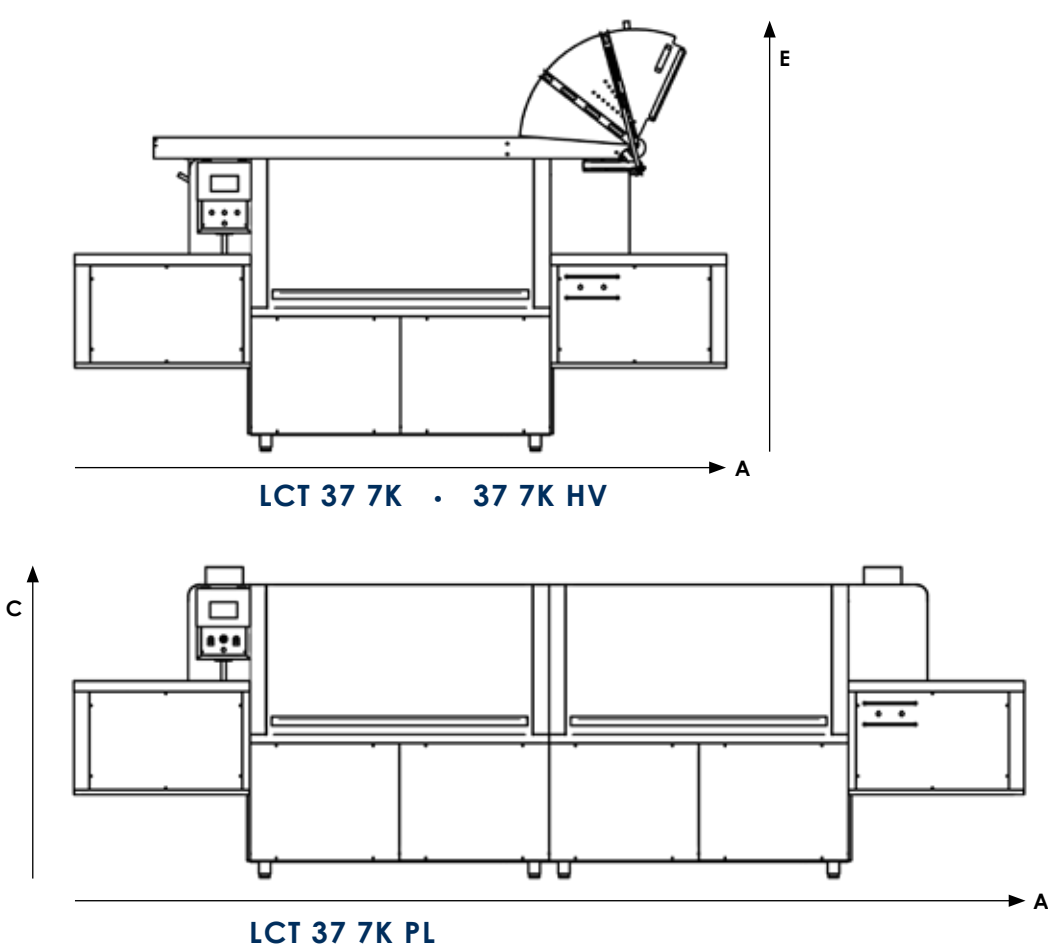
Washing 55°C + Rinsing 85°C + 1 Motorized Drying Module  
Up to 150 bins/hour



TECHNICAL DATA

	LCT 37 7K	LCT 37 7K PL	LCT 37 7K HV	LCT 37 7K MW SOFP	LCT 42 90 7K	LCT 42 90 7K PL	LCT 42 110 11K	LCT 42 110 11K PL
A - WIDTH (mm)	3790	5400	3790	4790	4290	6490	4290	6490
B - DEPTH (mm)	957	957	957	957	957	957	1157	1157
C - HEIGHT (mm)	1670	1670	2020	1670	1670	1670	1670	1670
D - HEIGHT WITH OPEN DOOR (mm)	2320	2320	2810	2320	2320	2320	2320	2320
E - HEIGHT WITH TIPPER UP	2400	2400	-	-	2400	2400	2400	2400
ENTRANCE WORKING OPENING (mm)	720x450	720x450	720x660	250x450	720x450	720x450	920x450	920x450
FEED SPEED (m/min.)	2,3 - 3,3	3,3 - 4,6	2,3 - 3,3	2,3 - 3,3	2,3 - 3,3	3,3 - 4,6	2,3 - 3,3	3,3 - 4,6
PRE-WASHING TANK CAPACITY (l)	-	240	-	-	-	350	-	410
WASHING TANK CAPACITY (l)	160	160	160	130	230	230	270	270
WATER CONSUMPTION/CYCLE (l)	100-300 adjustable	100-500 adjustable	100-500 adjustable	100-300 adjustable	100-400 adjustable	100-500 adjustable	100-500 adjustable	100-600 adjustable
PRE-WASHING PUMP (kW)	-	7,5	-	-	-	7,5	-	11
WASHING PUMP (kW)	7,5	7,5	7,5	7,5	7,5	7,5	11	11
BOILER CAPACITY (l)	35	35	35	35	35	35	35	35
PRE-WASHING TANK HEATING ELEMENT (kW)	-	18	-	25	-	24	-	24
WASHING TANK HEATING ELEMENT (kW)	18	18	18	-	24	24	24	24
BOILER HEATING ELEMENT (kW)	18	24	18	18	24	36	24	42
ELECTRIC VERSION TOTAL CONSUMPTION (kW)	44	76	44	44	56	101	60	113
STEAM VERSION TOTAL CONSUMPTION (kW)	8	16	8	44	8	15	12	23
STEAM CONSUMPTION STEAM VERSION (Kg/h)	60	110	60	60	70	130	80	140
WATER LOAD (inches)	3/4 M	2x 3/4 M	3/4 M	3/4 M	3/4 M	2x 3/4 M	3/4 M	2x 3/4 M
CONTROL PANEL VOLTAGE (V)	8	8	8	8	8	8	8	8
WATER SUPPLY (°C)	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60
POWER SUPPLY	400V/50 Hz	400V/50 Hz	400V/50 Hz	400V/50 Hz	400V/50 Hz	400V/50 Hz	400V/50 Hz	400V/50 Hz

IN MODELS IN WHICH THE MOTORIZED BLOWER IS INSTALLED, MEASURE **B - DEPTH** MUST BE INCREASED BY 450 MM, PLUS A SPARE AREA FOR MAINTENANCE FROM THE POSSIBLE WALL OF 500 MM.







**Velox Barchitta was the first company to introduce industrial washing in Italy.**

Founded in 1929, it now boasts almost a century of experience in the sector. Throughout its history, the company stood out due to quality and innovation, **designing revolutionary technologies such as the first and original home dishwasher or the granule washing system with Carbonet..**

Today it is able to design and produce any system for industrial washing and disinfection, exporting all over the world **multi-sector solutions** that combine **very high performance with very low costs.**

## PRODUCT LINE

- **MINI** Small multifunctional glass, dish and object washers.
- **COMPACT** Fixed basket, multifunctional and various sized washing systems.
- **CABINS** Cabin washing systems with fixed and rotating base for large washing volumes.
- **TUNNEL** Standard tunnel or openable roof washing systems. Also with in-line insertion.
- **STERIL LINE** Natural, sustainable and safe disinfection solutions suitable for any sector.
- **AUTOMATION** Automatic washing systems designed, engineered and manufactured according to customer's needs.
- **ADDITIVES** High-quality detergents that maximize machine performance.

**RIVENDITORE**

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