



### UNIQUE WASHING POWER: ACTIVE WASH

Wanny's revolution lies in the continuous movement of back and forth in the soft flow nozzles, within a continuous process. Fabric passes through the nozzles on average from 80 to 100 times in 30-40 minutes of total permanence. The frequency of passage in the overflows determines an intense washing activity that is not comparable to the current solutions on the marketplace. This enables to carry out processes till now impossible (*bleaching, optical white, biopolishing*) in a continuous way or with unmatched processing speed and consumptions.



### MODULARITY = VERSATILITY

The modularity concept enables to customize the equipment basing on the needed processing steps, temperature and PH settings, with counter-flow hydraulics. The three available modules (*QUICK, CHEM WASH*) are equipped of 8 nozzles each and the unit name is based on the total number of nozzles installed as follows:

- **Wanny 16**
- **Wanny 24 Sprint**
- **Wanny 24**
- **Wanny 32**
- **Wanny 40**

### SIEMENS TOUCH SCREEN

SIEMENS touch screen – directly connected to the drives through Profibus connection – enables a total automatic management of the equipment even from remote, in order to monitor recipes, efficiency and consumptions in real time.



[pentek.it](http://pentek.it)







Wanny aims to carry out chemical processes and washing in a continuous way and in rope form. Wanny is composed by a series of tanks with temperature control and counter-flow hydraulics similar to conventional washing rangers, but according to a revolutionary logic: **ACTIVE WASH.**

The enormous water / product / fabric exchange plus the dwell time allow the simple development of chemical treatments, otherwise complex, if not impossible in conventional continuous systems, such as enzymatic anti-pilling, optical brightening, reductive clearing and obviously bleaching, or usually relegated to discontinuous processes in dyeing machines or in expensive open width lines.

The use of the rope and the free movement of the fabric also ensure a context of relaxation and natural shrinkage of the fabric that is impossible to achieve in open width, as well as an exchange efficiency unmatched to date, guaranteed by the overflow nozzles in flow and counter-flow. Wanny enables to carry out washing processes and chemical applications on numerous fabrics by composition, structure and applications, both for knits but also for woven

An enormous variety of solutions today becomes possible to produce in a competitive and sustainable way.



### CUSTOMIZED DOSING STATION & SENSOR CONTROLS

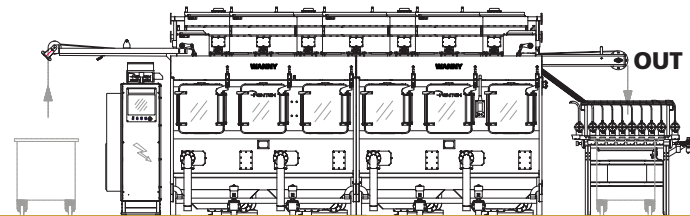
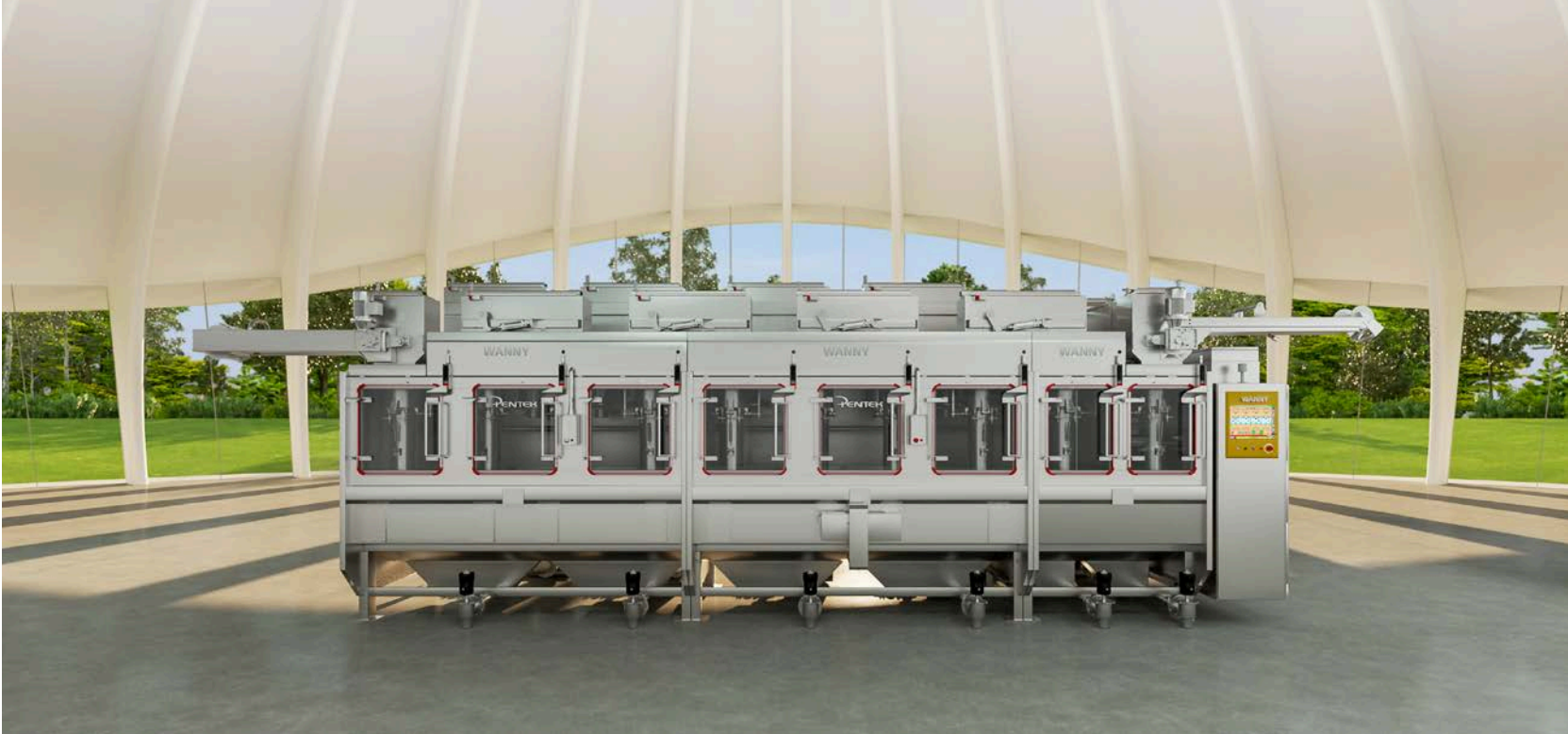
The unit is equipped with a totally automatic process control; the dosing station is built up upon the specific processes of the single customer with dedicated pumps per each chemical product. Our software automatically manages the dosing system even through PH reading sensors and eventually Redox sensors for reduction bath processes.

### OPTIMIZED CONSUMPTIONS THROUGH WATER RECOVERY

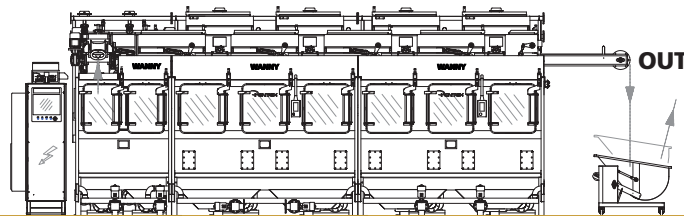
An efficient washing result necessarily requires water, but real water consumption has been severely dropped down through a sophisticated and multiple water recovery system, moving backward according to the required temperature and PH settings for each step of the process.

### HEAT-EXCHANGER FOR WASTE WATER HEAT RECOVERY

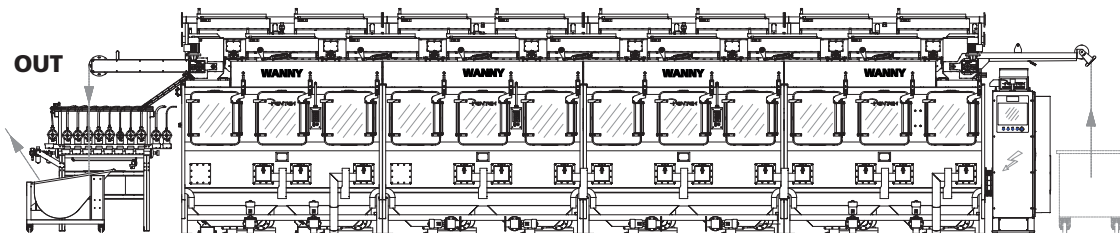
As optional extra, we can provide a customized system for the heat recovery of the waste waters, with indirect heat-exchangers, to recover up to 70% of the heat of drained water to heat up the inlet water with huge savings in steam.



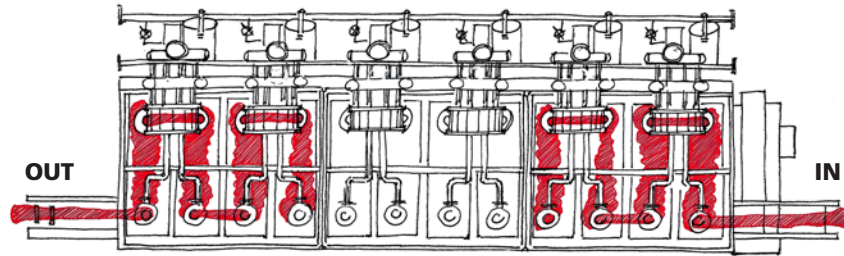
WANNY 16



WANNY 24SPRINT

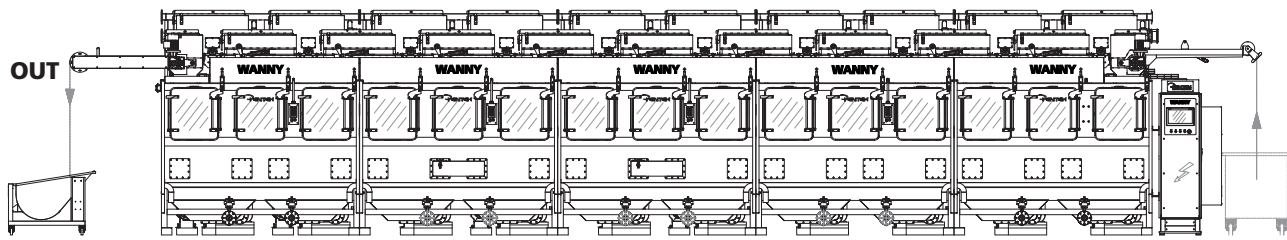


WANNY 32



### WORKING PRINCIPLE

DATA SHEET	WANNY 16	WANNY 24	WANNY 32	WANNY 40
Processing Speed Range:	8-15 m/min	10-30 m/min	15-50 m/min	15-60 m/min
Number of Vats:	8	12	16	20
Soft Squeezers:	4	6	8	10
Inversion Winches:	4	6	8	10
Max Speed of Inversion Winches:	180 m/min	180 m/min	180 m/min	180 m/min
Soft-Flow Nozzles:	16	24	32	40
Nozzles Diameters (mm):	139 o 160	139 o 160	139 o 160	139 o 160
Dosing pumps (customized):	(max 12)	(max 12)	(max 24)	(max 24)
Heat exchangers:	4	6	8	10
Steam Line:	1 x 6-8 bar	1 x 6-8 bar	1 x 6-8 bar	1 x 6-8 bar
Water Lines:	up to 3 x 1"	up to 3 x 1"	up to 3 x 1"	up to 3 x 1"
Avg Water Consumption:	8-22 l/kg	8-32 l/kg	10-35 lt/kg	10-35 lt/kg
Compressed Air Line:	6 bar 1/2"	6 bar 1/2"	6 bar 1/2"	6 bar 1/2"
Installed Electrical Power:	26 kW	32 kW	45kW	58Kw
Average Electrical Consumption:	14 kW	20 kW	26 kW	32 kW



WANNY 40

### APPLICATIONS:

#### Preparation:

Desizing and de-oiling on greige goods, bleaching, optical brightening, yarn dyed washing both for knits and wovens, shrinkage baths for crepe fabrics and sensitive goods. Wool quick washing and neutralizing/rinsing after mercerizing.

#### After PRINTING:

Very effective for all type of prints, both digital and rotary printing: on reactive, disperse, acid and corrosion pigment both on knits and wovens, without risk of crease marks. The huge washing power enables to get rid of fixating agent for reactive prints.

#### After DYEING

For reactive soaping, polyester reduction clearing and wash off processes after CPB (Cold Pad Batch) or jet dyeing or bleaching.