Tensio
Food safety

Food Safety Cleaning Equipment

Edition 03 - 05/03/2018

Content

Contact us for an efficient Food Safety approach: +32 3 755 48 74 or info@tensio.be

How to order ? by mail at order@tensio.be

Mobile Units

Advantages of mobile cleaning equipment:

- complete flexibility of chemical products used
- no pipes required
- easily extendable
- no cleaning agents or disinfectants in the production area
- the cleaning agents are stored together with the equipment after cleaning

Portable Foam Tank - PFT

The DEMA Portable Foam Unit is an unpressurised mobile foam tank that only requires a compressed air supply.

The tank is filled with foam product and water, and connected to a compressed air line (5-6 bar). The quality of the foam can be altered using a control valve.

The PFT has a cleaning hose by default that has a fixed stainless steel ball valve and a foam nozzle.

Model	Item no.	Hose length	Tank capacity
PFT 19	70180005248	6m	19L
PFT 35	70080004322	6m	35L
PFT 75	70180004033	10m	75L
PFT 90	70180000773	15m	90L

- foam hose with ½" connection (19/35L) or foam hose with ¾" connection (75/90L)
- 22cm plastic foam lance
- Viton pump

Model	Item no.	Hose length	Tank capacity
PFT 57 CN	70290205287	6m	57L
PFT 57 CN Mixed	70080005705	6m	57L

PFT 57 for concentrated products

- 2x 19L bottle for concentrate
- 10m foam hose with ½" connection
- 22cm plastic foam lance
- Viton pump

Portable Foam Tank - PFT
Accessories

Accessories for PFT 35 - 70	Item no.
cleaning hose ½" x 25m with single push-on connection	70080004612
cleaning hose ½" x 25m with fixed stainless steel ball valve and fixed foam lance	70080004610
cleaning hose ½" x 25m with fixed stainless steel ball valve and protective quick-fit connector	70080004611

Accessories for PFT 90	Item no.
cleaning hose ¾" x 25m with single push-on connection	70080003462
cleaning hose ¾" x 25m with fixed stainless steel ball valve and fixed foam lance	70080003486
cleaning hose ¾" x 25m with fixed stainless steel ball valve and protective quick-fit connector	70080003461

Low Pressure Foam Unit - LP4

The LP4 is a stainless steel foam and disinfection unit for use at low pressure.

The unit provides nice dry foam at a constant flow rate, with the concentrated cleaning agent diluted automatically to the concentration required for use.

The LP4 system can be implemented as a mobile or wall-mounted variant.

- very user-friendly and solid design
- low investment costs, as a medium-pressure or high-pressure system are not required to ensure good, high-quality foam
- simple and correct adjustment of the concentration thanks to the colour-coded concentration buttons
- no concentration changes when fluctuations in the water pressure

Model	LP4
Item no.	70180005701
Chemical products	2 products
Capacity	
rinsing (nominal)	20 L/min
rinsing (max.)	30 L/min
foaming	8 L/min
disinfection	10 L/min
Dose range	0.3 – 7%
Operational parameters:	
compressed air	min. 3 – max. 6 bar
water pressure	min. 2 – max. 7 bar
max. temperature	40°C

- without standard cleaning hose set
- cleaning hose possible up to a maximum of 2 x 25m

High Flow Foam Unit - HF10

The HF10 is a stainless steel foam and disinfection unit for use at high pressure.

The unit dilutes the cleaning agent automatically down to the required concentration: 3% for rinsing/foaming and 1% for disinfection.

The HF10 unit generates a higher volume of foam in order to clean locations that are difficult to access; it can also be used for automatic belt cleaning, with rotating nozzles in enclosed areas, installed systems, etc.

The unit also has a non-return valve on the water connection and the compressed air inlet. It also has a 'dry run' safety alarm.

- very user-friendly and solid design
- possibility of achieving reduced concentrations using the in colour-coded concentration buttons
- PLC control and pressure monitoring

Model	HF10
Item no.	70080003566
Chemical products	2 products
Capacity	
rinsing (nominal)	30 L/min
rinsing (max.)	30 L/min
foaming	8 L/min
disinfection	15 L/min
Dose range	3% foam - 1% disinfection
Operational parameters:	
compressed air	min. 3 – max. 6 bar
water pressure	min. 2 – max. 10 bar
max. temperature	60°C

- without standard cleaning hose set

Mobile injectors

The mobile injector consists of an injector unit that is mounted on a mobile stainless steel trolley. The injector can be used for foaming, disinfecting and rinsing.

The mobile injector produces dry, thick foam but can also produce wet foam if the compressed air pressure is adjusted. The concentration can be adjusted easily using the colour-coded concentration buttons.

These variants are available for 1 product and for 2 products.

Model	Item no.
Mobile Injector LP3-10 - 1P	70184805464
Mobile Injector LP3-10 - 2P	70184805413
Mobile Injector MP 10-50 - 1P	70184805524
Mobile Injector MP 10-50 - 2P	70184805414
Mobile Injector HP 50-150 - 1P	70184805702
Mobile Injector HP 50-150 - 2P	70184805703

1 product

2 products

- all components that come into contact with the product are made of stainless steel
- sturdy components with low maintenance costs
- easy operation
- no concentration changes when fluctuations in the water pressure

- without standard cleaning hose set

Mobile cleaning units with built-in compressors

The mobile cleaning machines are intended for professional cleaning of equipment and building elements in the food sector by rinsing, foam cleaning and disinfection.

They have a built-in pressure pump, with the maximum pressure depending on the specific model.

An injector mixes the water and the cleaning agent at the required percentage of 1-6%.

A compressor supplies the requisite compressed air for wet or dry dense foam.

Model	M11a	M60a	M70a
Item no.	70184805415	70184805496	70184805722
Chemical products	2 products	2 products	2 products
Pressure	5 bar	20 bar	40 bar
Capacity			
rinsing (nominal)	30 L/min	30 L/min	30 L/min
rinsing (max.)	50 L/min	70 L/min	80 L/min
foaming	7 L/min	8 L/min	9.5 L/min
disinfection	9 L/min	9 L/min	9 L/min
Consumption			
voltage	1 x 230VAC	3 x 400VAC	3 x 400VAC
power	2.5 kW	3.8 kW	8 kW
Dose range	1 – 6%	1 – 6%	1 – 6%
Operational parameters:			
compressed air	2 – 5 bar	2.5 – 10 bar	2.5 – 5 bar
max. temperature	50°C	70°C	60°C
Weight:	65 kg	116 kg	160 kg

Modular Units

Advantages of CENTRAL cleaning equipment:

- chemical products are stored centrally
- larger packaging units
- no messing around with small packages

Advantages of DECENTRALISED cleaning equipment:

- complete flexibility of chemical products
- single pipes for low/medium/high water pressure
- easily extendable
- no cleaning agents or disinfectants in the pipes during production

Injectors

The injector is wall-mounted. This type of injector can be used for rinsing, foaming and disinfecting.

The injector produces dry, thick foam but can also produce wet foam if the compressed air pressure is adjusted. The concentration can be adjusted easily using the colour-coded concentration buttons.

- compact design and easy operation
- all components that come into contact with chemicals are corrosion-resistant

LP4

LP 3-10 Pre-Mix

LP 3-10 2P

MP 10-50 2P

HP 50-150

	LOW PRESSURE			MEDIUM PRESSURE	HIGH PRESSURE
Model	**LP4**	**LP 3-10 Pre-Mix**	**LP 3-10**	**MP 10-50**	**HP 50-150**
Item no.	70180004059	70184805515	1P - 70184805847 2P - 70184805514 3P - 70184805517	1P - 70184805512 2P - 70184805511 3P - 70184805513	1P - 70184805366 2P - 70184805698
Chemical products	1 to 2 products	central dosing	1 to 3 products	1 to 3 products	1 to 2 products
Water supply pressure	3 to 6 bar	3 to 10 bar	3 to 10 bar	10 to 50 bar	50 to 150 bar
rinsing (max.)	= water pressure	n/a	= water pressure	60 L/min	30 L/min
foaming	10 L/min	9 L/min	depends on the water pressure	10 L/min	10 L/min
disinfection	15 L/min	n/a	15 L/min	15 L/min	15 L/min
Dose range	1 – 6%	n/a	1 – 6%	1 – 6%	1 – 6%
Compressed air min. - max.	max. 6 bar	max. 6 bar	6 to 10 bar	6 to 10 bar	6 to 10 bar
Cleaning hose	½" x 25m	½" x 25m	¾" x 10m	½" x 25 to 50m	½" x 25 to 40m
Hose reel	possible	not possible	not possible	possible	possible

Pump sets

The pump sets boost the water pressure for cleaning equipment such as injectors, automatic satellite centres, etc.
The pressure is increased to up to 25 bar, depending on the pressure of the incoming water.

A pump set starts automatically when there is a demand for water and it stops when water is no longer required.

The frequency controller starts the pump up gradually, avoiding sudden fluctuations in water pressure. It also stops gradually and smoothly. If running at 100% capacity, coming to a complete stop takes 30 seconds.

Maximum water temperature 65°C.

Single 20-60

Single 20-125

Single 20-210

Triple 20-600

Item no.	Model	Max. users	Pressure increase	Capacity
70084805531	Single pump set, 20-60 freq.	2	20	60 L/min
70084805534	Single pump set, 20-125 freq.	4	20	125 L/min
70084805535	Single pump set, 20-210 freq.	7	20	210 L/min
70084805536	Double pump set, 20-270 freq.	9	20	270 L/min
70084805540	Double pump set, 20-420 freq.	14	20	420 L/min
70084805541	Triple pump set, 20-600 freq.	20	20	600 L/min
70084805542	Single pump set, 40-80 freq.	3	40	80 L/min
70084805543	Double pump set, 40-200 freq.	7	40	200 L/min
70084805758	Triple pump set, 40-340 freq.	14	40	340 L/min
70084805759	Triple pump set, 40-500 freq.	22	40	500 L/min

Booster pumps with built-in injectors

These booster pumps are suitable for manual cleaning by rinsing, foaming and disinfecting of all equipment and production facilities in the food processing industries.

The robuste injector-controlled equipment ensures an accurate dosing of cleaning products.

A flow switch automatically controls the pumps. Switching between the different cleaning processes is done manually.

The pump motor of the Satellite Center is frequency controlled and offers the following advantages compared to normal booster pumps:

- a soft start-up avoiding pressure shocks in the piping system.
- cleaning is more comfortable for the operator.
- very soft stop function avoiding pressure shocks in the piping system.
- eliminates the need of a timer function that ensures sufficient cooling of the pump motor.
- current peeks are avoided.

S11

20-60

20-125

20-210

	LOW PRESSURE		MEDIUM PRESSURE - EXTERNAL AIR PRESSURE		
Model	**S11**	**S11 external compressed air**	**Satellite Centre 20-60**	**Satellite Centre 20-125**	**Satellite Centre 20-210**
Item no.	70184805699	70184805700	70184805525	70184805526	70184805527
Chemical products	2 products	2 products	1 product (optional: 2 products)	1 product	1 product
Water supply pressure					
rinsing (max.)	50 L/min	50 L/min	60 L/min	125 L/min	210 L/min
foaming	7 L/min	7 L/min	10 L/min	10 L/min	10 L/min
disinfection	9 L/min	9 L/min	9 L/min	9 L/min	9 L/min
Users	1	1	2	4	7
Compressed air output	11 bar	11 bar	20 bar	20 bar	20 bar

Cleaning hoses

01

cleaning hose ½" -20m - 80 bar
with SS foam/disinf/rinsing lance nozzle

item no. 70284805412

02

cleaning hose ½" - 10m - 80 bar
with SS foam/disinf/rinsing lance nozzle

item no. 70284805675

03

cleaning hose ½" - 20m - 80 bar
with quick-fit connector and SS ball valve

item no. 70284805564

04

cleaning hose ½" - 25m - 80 bar

item no. 70284805506

Lances

05

rinsing lance

70mm 15-20 blue - item no. 70284805369
600mm 15-20 blue - item no. 70284805555
800mm 15-20 blue - item no. 70284805554
1000mm 15-20 blue - item no. 70284805447

06

foam lance

300mm 50-150 white - item no. 70284805370
600mm 50-150 white - item no. 70284805598
1500mm 50-150 white - item no. 70284805599

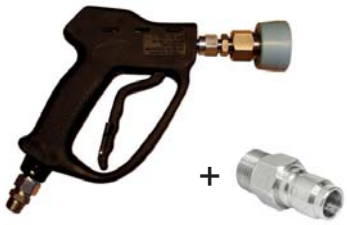
07

disinfection lance

70mm 25-30 yellow - item no. 70284805487
300mm 25-30 yellow - item no. 70284805371

Cleaning guns

08



HP gun incl. quick-fit connector

item no. 70284805368

09

LP gun SS

item no. 70284805556

10

MP gun SS

item no. 70284805899

Reel

11

automatic hose reel
(for hose 20m, max 25m)

item no. 70284805451

12

2m connecting hose
for connecting a reel to an injector

item no. 70384805652

13

swivel mount for hose reel

item no. 70094601996

14

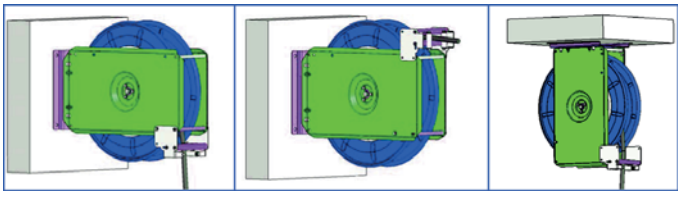
SS counter plate
for swivel mount

item no. 70094602029

The reel can be attached to the wall or the ceiling.

The hose guide can be adjusted for unwinding forwards or downwards.

This reliable structure therefore ensures low maintenance as well as safe and easy use.



Valve sets

15

valve set for 2P LP/MP/HP

item no. 70284805367

16

Satellite Centre valve set for 2P

item no. 702848005528

Miscellaneous

17

mounting bracket for lances
for 3 lances - item no. 70284805607
for 4 lances - item no. 70284805608
for 5 lances - item no. 70284805609

18

mounting bracket

for 2 bottles - item no. 70284805372
for 1 bottle - item no. 70284805373

19

mounting bracket for hose

item no. 70284805587

20

suction tube for LP/MP/HP injector 2,5m

in PVC - item no. 70384805588
in SS - item no. 70384805589

21

restriction set 1% - 6%

item no. 70384805625

22

mobile trolley

for 1 product - item no. 70284805595
for 2 products - item no. 70284805596

Pump Up Gel

Item no. 70080000858

The Pump Up Gel Unit is a manual pressure sprayer that extracts gel product from a tank to spray on nearby surfaces. The device is pressurised using a manual pressure pump.

This device has a large filler opening so that the tank can be filled and cleaned easily.

A filter in the tank prevents blockages.

- capacity: 7.6 L
- hose length: 1.5m
- with shoulder strap
- solid tank in polyethylene with chemical-resistant seals and hose
- with lance and 2 adjustable nozzles
  6 flat-fan nozzles
- Stainless steel nozzle as standard
  unless when using our cleaning product
  Alcotens Surface => red plastic nozzle

Portable Gel Tank - PGT

Model	Item no.	Tank capacity
PGT 35	70080002287	35 L
PGT 19	70080005250	19 L

The roto-cast PGT is an unpressurised plastic tank for applying high-viscosity products simply and professionally to horizontal and vertical surfaces.

This unit ensures a constant flow of gel using a pump controlled by compressed air (5-6 bar).

- 10m hose with ½" connector
- 22cm plastic foam lance
- gel spray gun with SS nozzle
- Viton pump

Portable Fog Unit - PFU

Item no. 70080000858

Solid roto-cast unpressurised tank.

The tank is filled with cleaning products and water, and connected to compressed air (5-6 bar).

The PFU gives a nice dry or a wet fog at a constant flow, allowing it to disperse even in areas that are less easy to access, resulting in thorough disinfection.

- capacity: 35 L
- 10m hose with SS ball valve and tap
- SS fog nozzle

- very simple operation
- low investment costs

Duo Dosing Unit

The DUO system is intended for making dosing easy. It does not issue ‘empty’ signals but has a buffer tank that replaces the ‘empty’ signal.

The DUO system is designed in such a way that two IBCs can be connected at the same time.

The system extracts product from the IBC. The product is then pumped to a buffer tank that has various switching levels. The switching levels let you measure when the IBC is empty.

When one of the two IBCs is empty, the system will automatically switch to the full one. This system means you always have enough time to replace the empty IBC.

Model	Item no.
Mono system with level float	70080001247
Mono system with level float, without PLC	70080004679
Duo system with level float	70080002216
Duo system with level float, without PLC	70080004678

- back-flow safety device on the compressed air side
- back-flow safety device on the product supply side
- fixed maximum product supply
- safety device against empty running (programmed)
- protection against operation with closed valves
- CDS connecting system for simple coupling to IBCs

- user-friendly
- sturdy and hygienic design
- concentrated or diluted product can never come into contact with foodstuffs
- you can work with fixed dosing lines using quick-fit connectors to fixed dosing lines or a fixed dosing hose
- longer lifespan for pumps and valves

Control Dosing Unit

Item no. 7008005846

The Control Dosing Unit is a completely safe dosing system that guarantees a continuous safe dosage from an IBC or drum to various offtake points.

The standard unit consists of a 100-litre buffer tank that is built into a dosing cabin that has splash shields and leak detection.
The buffer tank is always kept at the correct level by a compressed air membrane pump and a controller.

When an IBC or drum is empty, you will be given a visual signal on the reset button.
You reset the signal after connecting a new IBC or drum and the process continues.

There is a plastic shelf on top where you can put the various offtake pumps (dosing pumps, compressed air membrane pumps etc.). These are not supplied by default with the Control Dosing Unit; the suction line to the offtake pumps is however part of the system.

The controller used for controlling the Control Dosing Unit provides flexibility for handling all kinds of processes. The large touch screen makes setting all the parameters easy.

- buffer tank capacity 100L
- built-in leak detection
- splash shields
- equipped with a shelf for mounting pumps

- safe and reliable
- a complete but expandable dosing system
- continuous dosing
- if there are multiple dosing stations, it is possible to use different quick-fit connectors to avoid mixing products.
- flexibility

Control Dosing Cube

Item no. 70084105689

A fully closed portable dosing unit for chemicals consisting of a weatherproof polyethylene casing with a digital dosing pump, complete with check valves, leak detection switch, automatic control options, etc.

The Dosing Cube is suitable for:

- temporary use
- emergency situations
- modular applications from 0.025 up to 150 L/hour.

Its design is compact and portable.

The user interface lets you enter the required dosage directly on the screen.

Leaks in the pipes are detected by a switch in the leak tray.

- built-in leak detection

- portable
- versatile and safe dosing system
- user-friendly
- can be adapted to suit the required configuration.

Mobile Dosing Unit - MDU

Item no. 70080003828

The MDU is a unique system for transferring chemicals semi-automatically and safely from a tank or IBC.

The MDU works at normal water pressure (1 to 2 bar incoming water pressure) and air pressure (min. 1 bar, max. 7 bar).

Cold or hot water can be used, up to a maximum of 60°C.

After operation, the system is fully rinsed with water and blown clear with compressed air.

- suction hose for chemical products 2.5m in PVC OPAL 2.5mm
- 5m PVC air pressure hose
- stainless steel trolley
- contains a back-flow safety device on the water and compressed air inlets
- the drain hose has quick-fit connectors for easy connection and disconnection

- safe dosing system
- user-friendly
- never concentrated product in pipes and in the production hall
- no concentrated or diluted product come into contact with food
- accurate dosing of the concentrated products to various objects
- longer lifespan for pumps, valves, flow meters, etc.

All-round Dosing Unit Conductivity - ADU-C

Item no. 70080004702

The ADU systems are intended for dosing cleaning, rinsing and/or anti-foaming agents and are controlled by concentration measurement.

The ADU system is a complete dosing device for cleaning crates. Dosing is done in the crate washer.

The All-round Dosing Unit Conductivity will supplement the dose if there is too little product in the container. This device also has the option of adding an anti-foaming agent. This will be done using time settings.

Measurements can be made using 2 types of measuring probe:
- conductive
- resistive

The satellite is only intended for wall mounting and is made of stainless steel material. It is therefore extremely suitable for the food sector.

- back-flow safety device on the compressed air side
- back-flow safety device on the product supply side
- protection against operation with closed valves
- adjustable probe with variable settings in the PLC
- safety device against empty running

- easy to use
- sturdy and hygienic design
- fixed maximum addition in terms of concentration

Mobile Transfer Unit - MTU

Item no. 70080004883

The MTU is a unique system for manually transferring chemicals safely from a canister. Our MDU is more suitable for transferring larger amounts from a container or IBC.

This stainless steel transfer unit works on standard water pressures of min. 2 bar to max. 7 bar at a temperature of max. 40°C. Hot or cold water can be used.

The system consists of a compressed air membrane pump with an ON/OFF tap. This makes the pump suck up the product through a small suction tube that hangs in the canister. The pump transfers the product to the required location when in the ON position until the canister is empty.

The mobile trolley can also be connected to the water supply in order to flush residual product using the pump and the pressure line. This means that the lines are rinsed and blown clear using water and compressed air.

- suction hose for chemical products, 2.5m in PVC OPAL 2.5mm
- 5m PVC pressure hose
- stainless steel trolley
- contains a back-flow safety device on the water and compressed air inlets
- the drain hose has quick-fit connectors for easy connection and disconnection

- very simple operation
- low investment costs, as a medium-pressure or high-pressure system is not required for transfers
- strong and solid design

IBC Transfer Unit

Our tank systems allow you to pump a concentrated product safely from an IBC or drum straight into a container, CIP tank, canister, etc.

How does the system work exactly?

The pumps are driven by compressed air and their speed can be adjusted using a pressure regulator.

The output side of the pump has a plastic filling pistol.

On the input side of the pump, there is a manual valve for opening or closing the supply of compressed air to the pump.
When the pistol is closed, the pump stops running but does remain pressurised. The manual compressed air valve should therefore be closed after use.

This unit has a connecting system for an IBC or drum that allows the IBC or drum to remain closed for safety.

When using the Drum Transfer Unit, we recommend always using a wall fixture to fix the drum in place.

Drum Transfer Unit

- cleaning products handled safely
- very simple operation
- low investment costs

Filling stations

A filling station automatically dilutes a product concentrate with water. Pressing the button lets you fill buckets, scrub machines and other recipients quickly with ready-to-use product.

The correct dilution proportion is defined using a set of coloured measuring tips. The dilution cannot be changed, so wastage is impossible.

This makes using aggressive products quite a bit safer as the user can no longer come into contact with the product concentrate. The risk of skin irritation and splashes in the eyes when pouring manually is drastically reduced.

- easy to connect to the water supply
- no electricity needed
- no waste
- cleaning products handled safely

14 l/min

16 l/min

40 l/min

Model	14 l/min	16 l/min	40 l/min
Item no.	70099701680	70290203017	70290202178
Operational parameters:			
dose range	0.3 – 28 %	0.8 - 30 %	0.3 - 11 %
water flow diluted solution	14 l/min	16 l/min	40 l/min
water pressure	2 -4 bar *	3 - 6 bar	3 - 5 bar
max. temperature	40 °C	60 °C	40 °C
variant	plastic	stainless steel	stainless steel
extra	can be connected in series		with a vacuum-breaking backflow safety device incl. 3 m hose

** if higher: install regulator*

coloured measuring tips

MixRite

The MixRite is powered by a water flow, with only a minimal pressure loss. The injector drives the dosing unit.

The dosing unit determines the constant concentration ratio of liquid additives to the amount of water passing through the injector and then injects those additives into the water system.

How does the MixRite work exactly?

1. The suction and dosing unit consists of a piston connected to the hydraulic motor, which is what makes it move.
2. The piston moves inside a cylinder with a non-return valve.
3. The motion of the piston in the cylinder ensures that the water is injected along with the required liquid additive, which is drawn from a suction tube that is inserted in a canister.
4. The ratio of additive to the water passing through the injector can be regulated.

569 PVDF

573

Model	569 PVDF	573
Item no.	70290205767	70290205769
Operational parameters:		
dose range	0.1 – 0.9%	0.4 – 4%
water flow	0.34 – 41.7 l/min	0.5 – 41.7 l/min
water pressure	0.2 – 8 bar	0.2 – 8 bar
max. temperature	4 – 40°C	4 – 40°C
extra	housing and components in PVDF with Viton connectors, suitable for aggressive and corrosive products	

- easy to connect to the water supply
- no electricity needed
- no excess dosing and no waste of water or product
- cleaning products handled safely
- concentrate dosage proportional to the water volume, regardless of fluctuations in flow or pressure

Hygiene Unit (HU1) with Dosatron

The dosing pump is connected to a water supply. It works without electricity. The water flow makes the piston in the Dosatron pump move. The piston draws up the product and injects it into the pump body, where it is mixed with the water. The water pressure then forces the solution out of the pump.
Setting the ratio of product to water is simple. Once set, the pump functions entirely autonomously.

The dose of the product injected is always proportional to the volume of water passing through the pump, even when the pressure or flow rate fluctuates. This makes the Dosatron dosing pump one of the most accurate on the market.

This is a ready-to-use kit for attaching to the wall.

The HU1 consists of the following elements:

- 1 hydraulically powered proportional Dosatron dosing unit, with a PVDF pump body available for aggressive and corrosive products
- 1 ABS wall cover
- 1 shut-off valve
- 1 anti-contamination disconnector
- 1 stainless steel support for 2 cans 5L or 1 can 10L
- 1 transparent suction hose of 175 cm, diam. 6 x 9 mm
- 1 protective cover for canister opening
- 1 filler kit with a 180 cm suction hose with non-drip nozzle

dosatron dosing unit

Model	HU1
Item no.	70080004596

Operational parameters:	
dose range	0.2 – 2%
water flow	0.16 – 41.7 l/min
water pressure	0.3 – 5 bar
max. temperature	5 – 40°C

- easy to connect to the water supply
- no electricity needed
- no excess dosing and no waste of water or product
- cleaning products handled safely
- concentrate dosage proportional to the water volume, regardless of fluctuations in flow or pressure

Dispensers for hand soap/disinfectants

Impeccable hygiene in the food industry is set to become even more important in the future in providing high-quality customer care.

The legal requirements have a key role here, as does general awareness of the importance of paying the requisite attention to washing and disinfecting your hands.

- long-term improvement of hand hygiene
- no waste
- reducing microbiological contamination
- free filling choice of soap/disinfectant
- functionally fully adaptable to suit the client's infrastructure

plastic dispenser LCP T

- for canister volume 1000 ml
- stainless steel operating lever
- white plastic housing
- exchangeable plastic pump
- item no. 71699501370

Accessories:

cover plate
item no. 71799504638

drip tray
item no. 71799504639

drip tray
item no. 71799503572

aluminium dispenser TLS 26A/25

- for canister volume 1000 ml
- long operating level
- matt silver anodised aluminium
- exchangeable stainless steel pump with straight suction tube
- various dosing options (0.7/1.0/1.5 ml)
- item no. 71699501368

Accessories:

cover plate
item no. 71799501369

table model conversion
item no. 71799504690

drip tray
item no. 71799504639

drip tray
item no. 71799503572

Dispensers for hand soap/disinfectants – Touchless

stainless steel dispenser Touchless Sensor

- for canister volume 1000 ml
- touchless sensor technology
- brushed stainless steel casing
- exchangeable stainless steel pump, can be autoclaved
- various dosing options (approx. 0.75, 1.0, 1.2 and 1.5 ml)
- item no. 71699503639

Accessories:

stainless steel cover plate
item no. 71799504641

drip tray
item no. 71799503572

alumnium dispenser Touchless Sensor

- for canister volume 1000 ml
- touchless sensor technology
- matt silver anodised aluminium
- exchangeable stainless steel pump, can be autoclaved
- various dosing options (approx. 0.75, 1.0, 1.2 and 1.5 ml)
- item no. 71699503570

Accessories:

ALU cover plate
item no. 71799503571

drip tray
item no. 71799503572

Jeros ACE 8160 - Industrial washer for multihead scales

The JEROS ACE cleaning system is by far the most flexible and efficient cleaning system for scale components in the market.

With this system you will achieve a substantial reduction of cleaning time while a perfect cleaning result is ensured. This result is by traditional manual cleaning not possible.

The ACE system is a solution for the increased hygiene regulations in food industry.

The whole cleaning procedure (loading the hoppers in the racks on the trolley, rolling the rack into the washer, cleaning time of 2 to 5 min max., dry cleaning of the weigher centre, rolling the racks out of the washer onto the trolley and placing the hoppers back on the weigher) can be handle by 1 person and takes only 20 to 30 minutes depending on the amount of components and 1 or 2 wash cycles. Whereas a traditional manual cleaning would easily take up to 1,5 hour.

After rinsing at a temperature of 85ºC, the hoppers are practically dry and can directly be placed back on the weigher.

The ACE is composed as follows:

- SS frame with roller system inside the washer
- set of 2 tailor-made assorted SS racks for loading hoppers
- 1 SS trolley with roller system
- lid construction: roll curtain
- adjustable wash temperature and wash time
- with moving wash frame
- automatic opening
- automatic start when roll curtain is closed
- 2 independent pumps (2 x 900 l/min) for LP/HP
- built-in drain pump
- built-in end-rinse pump
- prepared for automatic exhaustion (Ø 110 mm)
- with self-cleaning program
- microprocessor controlled with waterproof keypad

Model	ACE 8160

Technical specifications:	
Wash area	H 940 x W 1340 x D 1000 mm
Water consumption	16 litres/wash
Electricity	18,5 kW / 32 Amp
Water connection	40° - 65°C
Wash tank volume	165 litres
Rinse tank volume	31 litres
Rinse water temperature	84°C
Rinse time	30 sec.

Capacity/wash:	
hoppers 0,7 L	60 / 80 pieces
hoppers 1L - 2L - 3L	32 pieces
hoppers 5 L	16 pieces
euronorm crates	4 pieces

- speeds up the production output by reducing the product change-over time and cuts labour costs
- easy, user-friendly and ergonomic cleaning
- the hoppers are cleaned with opened flaps and tensioned springs
- no damage to the components

CIP cooler/freezer

This system ensures that CIP cleaning and disinfection can be done automatically and safely.

Our working method:

We work closely with the tunnel supplier for new tunnels and discuss how to optimise the cleaning.

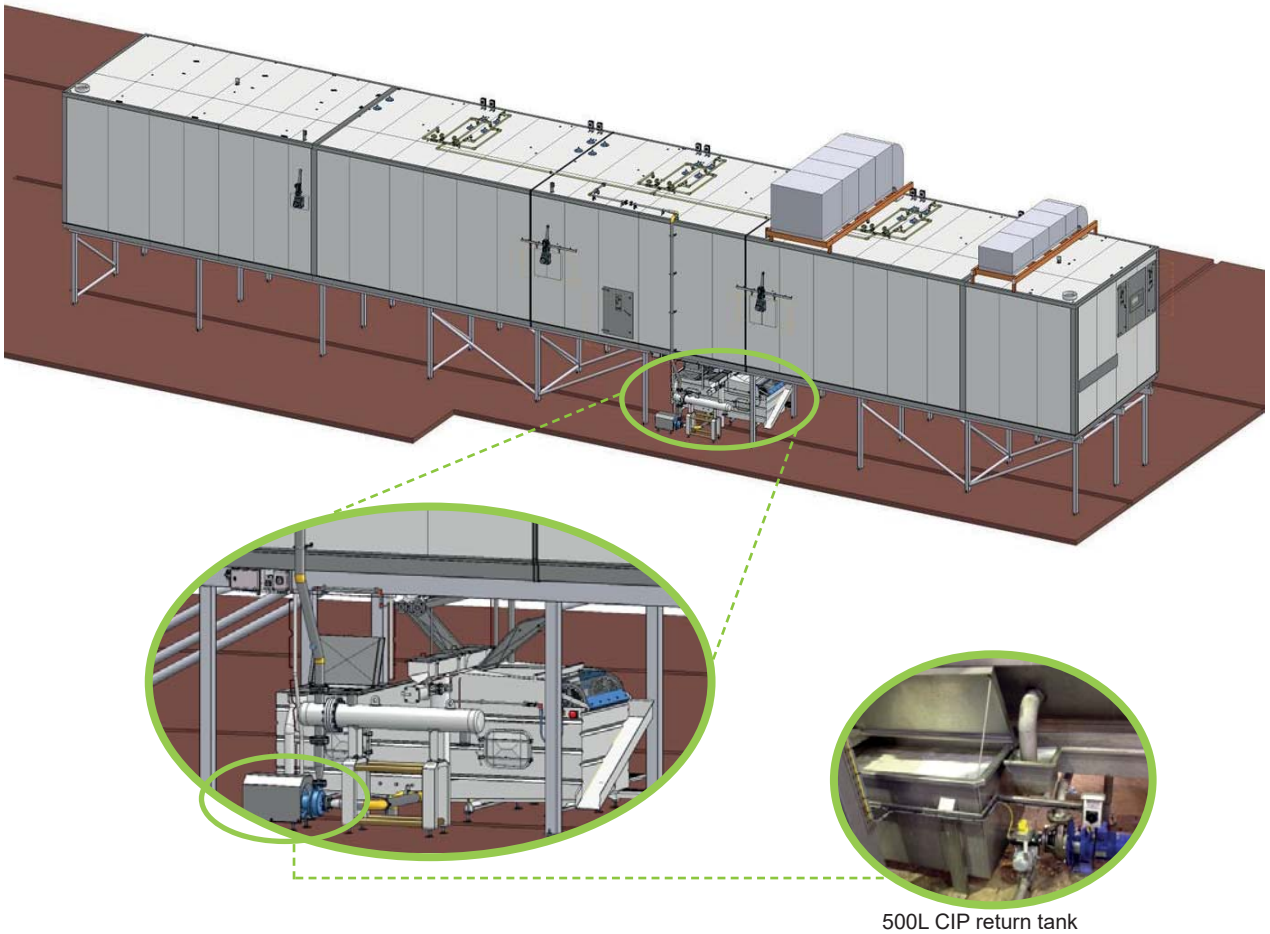
For existing tunnels, we examine the possibilities to automate the cleaning. This lets us give an estimate for the project price.

There are numerous applications:

We use special spray piping for CIP evaporation blocks. For existing systems, the load-bearing structures and connections that are already present can be used.

For cleaning spaces, we use a rotating stainless steel sprayer without bearings. Depending on the construction, the required number of rotating sprayers can be calculated.

We use a fixed sprayer line for cleaning belts and corners or other places that are difficult to access.



500L CIP return tank

The CIP cooler/freezer system consists of the following:

- 5000L CIP tank including overflow, drainage hose and revolving screen
- 500L CIP return tank used for collecting water flowing back from the cooler/freezer and pumping it back to the CIP tank. This is not needed if the cooler/freezer is placed higher up than the revolving screen.
- CIP injection pump – type depends on the cleaning time selected, 40 m³/hour is standard
- CIP return pump – type depends on the injection pump chosen; as standard, a pump with a flow rate of 40 m³/hour
- CIP external heat exchanger

Central Dosing Unit

Aim: to dose concentrated product safely to the various offtake points.

The working method:

1. Option for connecting 3 different cleaning agents with 3 non-exchangeable quick connectors
2. Leakage check before starting the dosing unit
3. Rapid dosing to the offtake points at approx. 80 to 100 l/min
   a. Option for dosing 3 different products to 3 different offtake points at the same time.
   b. When dosing to one offtake point ends, dosing to a different offtake point can be started immediately. At the same time, the offtake point that has just been dosed can be rinsed with water and blown clean with compressed air.

   Food safety: this means that the dosing lines are empty at all times during the production process.
4. Automatic switching from an empty IBC to a new, full IBC.
5. Offtake valves can either be built into the unit or can be fitted to the offtake points. The offtake vales are controlled via our control cabinet.

A tailored CDU is put together after analysing the desired situation.

In addition to the CDU (acidic + alkaline) and the complete stainless steel control cabinet, the number of 2P/3P offtake points, booster pumps, offtake valves and other can be chosen, depending on what is needed.

Ask for one of our specialists to visit you, with no obligation.

What is needed on the spot?

- 1” water connection at 4 bar
- ½” compressed air connection at 6 bar
- 400 VAC power source
- 2” drain
- room for the required IBCs

Example of a CDU for 3 different cleaning agents and 9 different offtake points

- rapid and safe dosing
- **Food safety**:
  residue-free system delivery at startup and during production
- avoids dosing of incorrect products
- a complete dosing system with possibilities for further expansion

Tensio's Cleaning Experience

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www.tensio.be
#FoodSafety
Tel +32 3 755 48 74

Tensio is a family business. We think this is very important and would also like to continue to grow and develop as a family business.

We work exclusively for the food and drink processing industry and are fully focussed on food safety. We know the processes through and through and are very aware of your future challenges.

Through our support and service, we look after your processes, allowing us to ensure each and every procedure is optimal and safe. Our 'plan-do-check-act' approach leads to continuous improvements and realisation of the desired goals.

Your challenges constantly inspire us to continue to develop better solutions. These are often customised installations. You are our motivation for evolving continuously.