



The fully automated premium solution with the best features superior hose maintenance technology for fire departments and industrial service providers with conventional hose maintenance halls on the performance level of fire engine departments:

with static components of 100% stainless steel, a hose maintenance capacity of up to 32 hoses per hour dried ready for storage, an intelligent safety concept, unbeatable low power consumption in the horizontal drying and an ergonomic design for the most efficient maintenance process in a one-man-operation!

PRO 4 - the Big: The most powerful hose maintenance system with a horizontal drying worldwide!

The Hose Maintenance Process Street of PREY- short PRO 4 - sets new standards in technology, ergonomics, design quality and the water and energy consumption and has been specifically designed for large professional fire brigades and fire engine departments without a hose tower with high demands for short downtimes and high throughputs.

As on site requirements only water and wastewater, as well as three-phase connections and a suitable floor for a hose maintenance room and rinse water are required.

The automated system performs all hose maintenance functions from pre-soaking, up to unwinding, washing, entrainment, external drying, measuring, the elongated laying, the short time flooding, the pressure testing, the surge simulation, draining, internal drying and uncoupling up to the winding.

Basis of the fully automation is the development and invention of the direct-acting horizontal drying technology by PREY in 1990, which has been completely redesigned in 2009 and now reaches the highest level of efficiency of all available techniques without a hose tower.

Process streets achieve a throughput of up to 32 75mm hoses per hour in a continuous maintenance process. This is only possible with the PRO 4 - the only true fully automatic maintenance street with only four required steps on the hose!

The differences and unique features compared to similar techniques in detail:

Simply everything – there is nothing comparative!

The PRO 4 is ...

the most modern: The PRO 4 is the first and only hose maintenance street in the world with integrated pressure surge simulation to test the hoses under pressure peaks, which can occur commonly in operation, and with integrated air dehumidification for recovery of thermal energy for the drying process. It is the only current hose maintenance street in the world which maintain up to four 75-, 45-, or 25mm hoses or up to 2 110 or 150mm hoses simultaneously, the outside and inside targeted drying of each hose, by supplying each hose with four suction nozzles and the automated uncoupling of up to four hoses at the same time.

the most economic: With almost 100% test-water-retrieval and an average power consumption of 7.23 kW per hour including the internal drying it is the most energy efficient hose maintenance street with horizontal drying worldwide – equipped with a air dehumidification system with energy saving heat generation and intelligent energy cycle for the optimal use of all energy resources - and require at a performance of up to 32 hoses per hour per 20 m hose less than 220 W.

the most automated: From entrainment to eject of the hoses, with the exception of coupling and uncoupling of the hose sealing ends, the coupling on the testing device and inserting the hoses into the winder, all steps are takes place automatically. A hose is correspondingly acted only four times - everything else is done via the user-driven operation on the touch screen. This precludes faulty operation and makes walking distances superfluous.

the most powerful: With 70.000 l/h flow rate the new pressure pump technique requires no more then 37 seconds for the filling of four 20m 75mm hoses with more than 360 litres of volume for the pressure testing of 16 bar. According clearer would be the advantage at the maintenance of large-volume 110mm and 150mm hoses.

the most ergonomic: Unfailingly all steps are takes place at waist level without ever lifting the hose up or down during the maintenance process. Before, during and after the cleaning process neither bending nor the handling of loads above shoulder height is necessary.

the most secure: To perform the pressure testing, the operator must get behind a bursting disc and remain there during the pressure testing control system related.

the most durable: All static components and nearly 100% of all metal components are made of high quality, durable stainless steel (alloy 14301) produced in-house in precise processing quality - for unmatched durability and optimum protection against corrosion even with a use of foam concentrates and thus a maximum safety value.

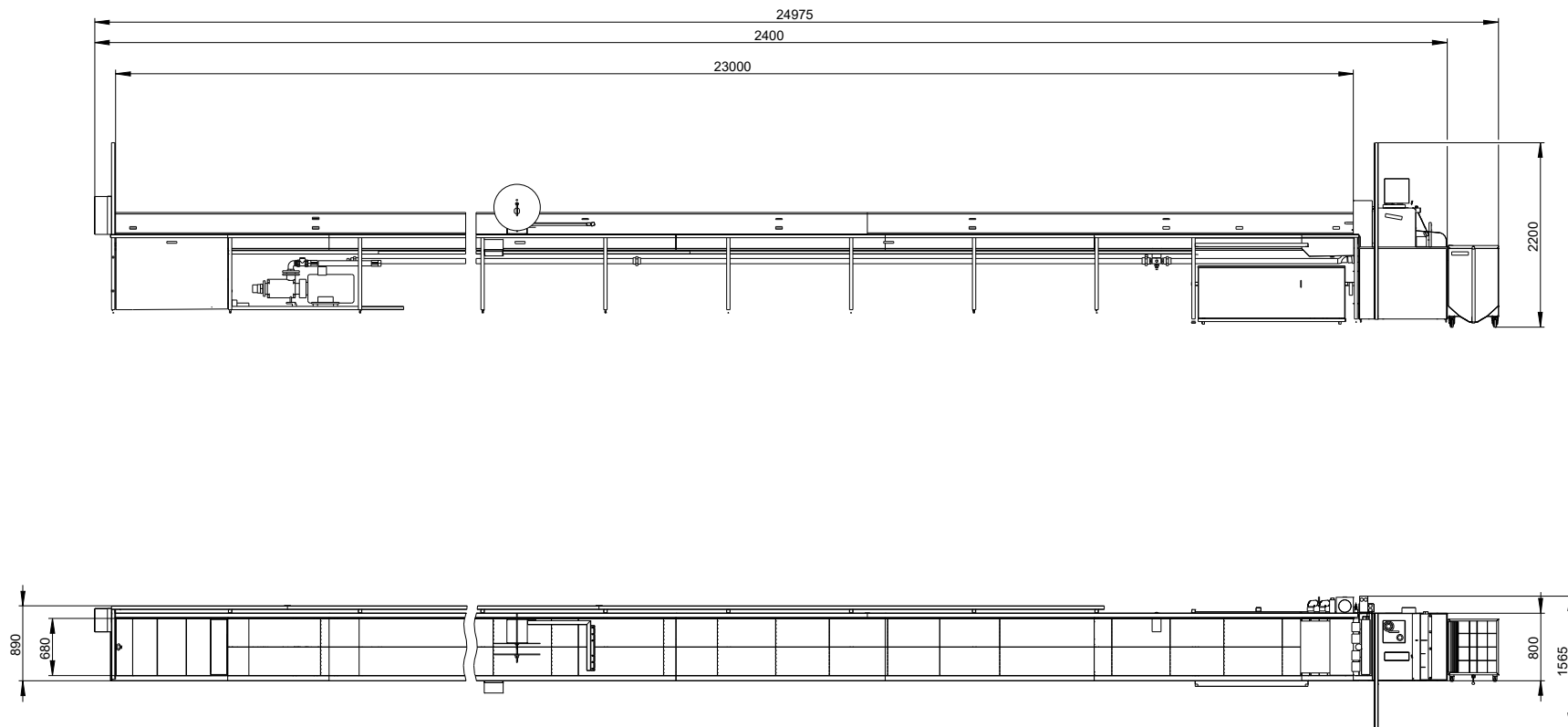
the most complete: The collection and management of hose data takes place via the interactive large touch screen with a Windows-surface during the entire life cycle directly into the system control with an integrated USB interface and direct data import in all common fire service data management programs. An additional, separate computer is not required.

The PRO 4 is peerless!

Technical specifications:

Order number:	1-003-030003
Order number:	Fire Hose Maintenance Process Street
Type:	PRO 4
Measurements:	800 x 24000 x 2200 mm (WxLxH)
Weight:	3000 kg
Connected load:	400V AC/50Hz/38kW
Water connection:	1 1/4"
Testing connection:	4 x 75 mm
Test pressure:	0-16 bar
Wash pressure:	0-100 bar
Capacity	
- hose size:	2 x 150mm / 2 x 110mm / 4 x 75mm / 4 x 45mm / 4 x 25mm
- hose length:	up to 20 m (110mm hose)
- hose material:	all known materials
Functions:	pre-soaking
	unwinding
	import
	hose-measure
	washing
	noise level reduction
	hose-widness-adaption
	moisture-suction
	place down
	disengage
	pre-flooding
	test-water-reutilize
	pressure testing
	internal blowing
	internal drying
	external drying
	uncouling
	hose-center calculation
	winding

Safety functions:	automatic winding-speed adaption
	automatic winding-overload shutdown
	automatic pressure-test- shutdown
(variable)	
	personal protection wall
	towing-function overload shutdown
Operating Mode:	one man operation
System:	automatic mode
Wickler:	automatic mode
Type of installation:	freestanding or fixed to the wall
Standard equipment:	pre-soaking-container
	user guided process control
	Touchscreen-control panel
	high pressure washing mashine
	Hose-Moisture-Suction
	pressure pump compact station
	Automatic-Hose-Winder
	test bench with base frame
	personal protection wall
	hose-towing carriage with towing arm
	process-water-tank
	automatic level control
	safety lanyard device
	stainless steel tubing
	anti-drumming coating
Optional equipment:	high-pressure-spray lance
	2-Hose-Winder
	suction hose test equipment
	hose-data-management



PRO 4

Datum: 02.06.2015

Maßstab: 1:50

Technische Details

Netzwasseranschluss:	1 1/4"	Stromanschluss:	AC / 400 V / 16 A / 50 Hz
Gewicht:	3.000 kg	Leistung der Leitung:	38 kW

Schlauchpflege-Prozessstraße