

Basic concept

Robustness, easy operation and low maintenance, the SAFED washing machines are designed and manufactured exclusively with high-end components and are stainless steel made.

SAFED proposes high reliable washing machines intended to be integrated into fully automated SAFED heat treatment lines.

Running principles of the washing machine type TRAS

The parts are loaded in bulk at the machine inlet in constant rate. Carried continuously through the rotary drum made of stainless steel screw, successively to the zones of :

- Cleaning by immersion, spraying and draining
- Rinsing by spraying and draining
- Pulsed hot air drying

The optimized design and the precise and careful manufacturing rotary of the drum guarantees an optimal stirring of the parts in the different machine zones. This assures a high efficiency drying for flat parts and for parts with liquid retention shapes.



Static oil extractor S3P



Drum inlet side



Drum discharge side

The construction and the process meet most stringent requirements to assure a nonstop production for washing / degreasing by spraying water and detergent added to a high efficiency pulsed hot air drying.

Running principles of the washing machine type TPAS

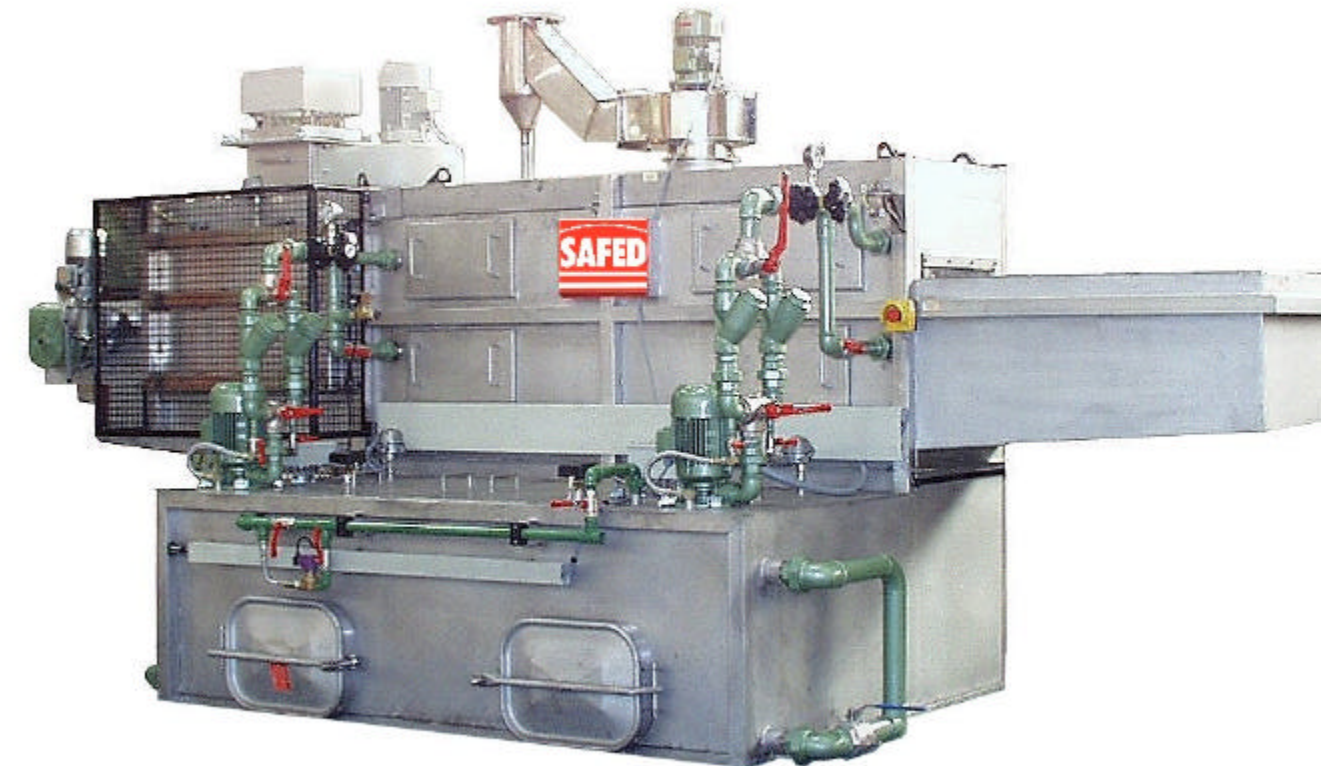
The parts are loaded in bulk or ranged on the stainless steel mesh belt conveyor and transported continuously in the various zones of the tunnel to stand out perfectly cleaned and dried.

The spraying ramps are located above the parts and underneath the conveyor belt.

The drying zone, working with hot air, guarantees a high efficiency.

The parts are continuously degreased and dried in the best conditions without risk of impacts.

The parts are loaded in bulk or placed in a defined position (loading by a robot).



Inlet side



Discharge side



Technical data

Series	Drum		Tank capacity		Power rating		
	diameter / length (mm)		washing tank / rinsing tank (liter)		washing / rinsing / drying (kW)		
TRAS 5/30	500	3000	1170	1100	30	20	30
TRAS 7/30	700	3000	1270	1130	30	20	30
TRAS 7/40	700	4000	1870	1250	50	40	40
TRAS 7/50	700	5000	2500	1950	50	50	40
TRAS 9/30	900	3000	1470	1200	50	30	40
TRAS 9/40	900	4000	2000	1500	50	50	40
TRAS 9/50	900	5000	2500	1800	60	50	50
TRAS 9/60	900	6000	3000	2200	70	50	60

Specifications may be changed without notice.

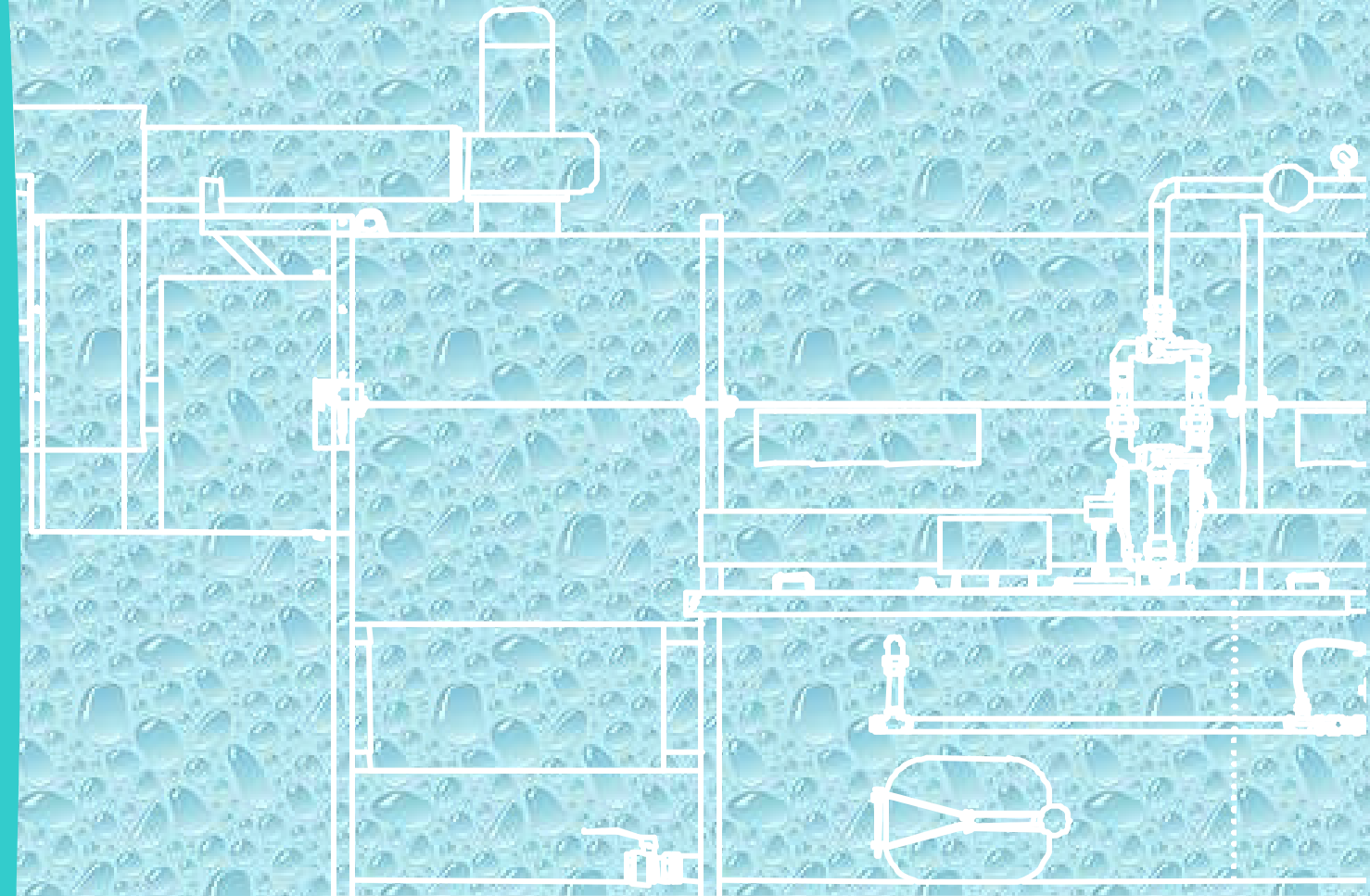
Series	Mesh belt conveyor		Tank capacity		Power rating		
	width / length (mm)		washing tank / rinsing tank (liter)		washing / rinsing / drying (kW)		
TPAS 4/30	400	3000	770	680	30	15	30
TPAS 6/30	600	3000	1270	940	50	30	40
TPAS 6/40	600	4000	1570	1050	50	50	40
TPAS 6/50	600	5000	2150	1650	60	60	40
TPAS 9/40	900	4000	1850	1250	80	80	90
TPAS 9/50	900	5000	2550	1900	100	100	90
TPAS 9/60	900	6000	3100	2500	120	120	90

Specifications may be changed without notice.

Special executions for specific applications :

- Washing machine type TRAS with a dedicated rotary drum « SpV » for delicate parts to ensure easier handling.
- Dephosphating machine.
- Washing machine for parts covered of salt including evaporator equipment for recycling water and salt.
- Washing machine with additional section for an anticorrosive protection.

Continuous washing machine for metallic parts



SAFED equipment range : Heat treatment equipments and degreasing machines

Four Electrique Delémont S.A.
Rue Emile-Boéchat 36
CH – 2800 DELEMONT (Suisse)
Phone +41 (0)32 421 44 60
Fax +41 (0)32 421 44 64
E-mail contact@safed.ch
Internet <http://www.safed.com>

