



Boiler tubes cleaning



Before

After

A 1 mm deposit layer on a pipe decreases efficiency by 8 to 10%.

Applications



The PUTZMAUS boiler cleaning solution integrated with the RUWAC direct suction system makes regular cleaning of any kind of boiler tubes easy, efficient and environmental friendly.

All residues are pushed to the front end of the tube by PUTZMAUS and are vacuumed into a pre-separation bin by the powerful RUWAC industrial vacuum.

No other pipe cleaning device has so many diverse functions, saves so much time and energy, and is so easy to operate. NO ROTATION NO ABRASION ON PIPE !

Let the PUTZMAUS do the work !

Industries :

• Biomass Boiler

Advantages

- Soft stainless steel brushes won't scratch or scar giving tubes years of additional use.
- All residue and corrosion is removed restoring tubes to a high polish and maximum efficiency
- Air driven hose feeds and returns automatically anyone can use
- No pre-cooling required high temperature hose is rated to 300C
- Residue is pushed to far end of and remains there for easy vacuuming.
- Minimal clearance space required
- Compact design makes it easy to carry and store

RUWAC Vacuum Extractor Features



Housing

GRP (glass fibre reinforced polyester)modular housing - Electrostatic conductive - Chemical abrasion and temperature resistant - Free from impact sparks

Filters

High performance long lasting Polyester Needle Felt pocket filter - Additional Filter for sticky material available - HEPA Filter and Cleanroom Filter available

Dust Collection

35 l dust bin - Safe and dust free dust removal - Additional collection capacity can be added

ATEX Zones

Engines and electrical execution for ATEX Zones 21 , 22 , & 1 and 2 available

Certification

EN and ATEX conformity - Filterclass M or H certificate

Model Overview for this Application Package

WS 2320 Zone 22



Atex Zone: Zone 22 II 3 D

DA 1300 Zone 22



Zone 22 II 3 D

Operation Time :	Discontinuous operation	Continuous operation
Airvolume :	460 cbm / h	355 cbm / h
Vacuum :	210 mbar	240 mbar

Product size

	Micro	Ø 27-33 mm
	Mini	Ø 34-41 mm
	Midi	Ø 42-51 mm
	Large	Ø 52-70 mm
	X-Large	Ø 52-180 mm

Various product size selection to fit to your boiler tube.

Accessories packs

35 mm Packs



50 mm Packs



Preseparator 110 L

