

WALICLEAN®

Waste Line Cleaning

- **SAVE up to US \$680,000 per year**
- **NO expensive chemicals**
- **NO tube removal**
- **NO monitoring**
- **FAST and EASY**

Maintenance - ATA Chapter 38

Airlines know about the problem of **scale build-up** in waste lines. The more a toilet system is used, the more scale builds up. Removing the scale in order to **avoid clogged waste lines** and unscheduled maintenance stops has been an expensive challenge until now.

WALICLEAN is the new innovative method of cleaning all **vacuum waste line systems**.

WALICLEAN works **overnight** and is fully automatic. Waste lines are free of scale after approx. 5 hours.

Apply the **WALICLEAN** to the aircraft during a routine maintenance check. A solution of standard citric acid and water circulates through the aircraft's waste line with system compatible negative pressure. The solution softens and removes the scale, reaching even the most complex regions of the system. **WALICLEAN** is environmentally friendly and gentle on the aircraft.

WALICLEAN is the solution for **fast and easy** waste line cleaning. Try this new technique and the advantages will convince you. **Save up to \$680,000 per year** in special chemicals and working hours, while also significantly reducing maintenance turn around times. With **WALICLEAN** it is so easy to clear your waste lines.



waste line before cleaning process

waste line cleaning process

waste line after cleaning process



- reduce turn around time
- prevent clogged waste lines
- save time and costs
- work environmentally friendly

WALICLEAN is FAST and EASY

PATENTED

THE CITRIC SOLUTION

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COST COMPARISON

The calculation is based on an example fleet, consisting of 70 aircraft of different A/C types, ranging from 46 short range aircraft such as A320 or B737 and 24 long haul aircraft such as A330, B777 or A380.



The tube removal and off aircraft cleaning requires an extensive amount of **working hours** and **aggressive chemicals** during the soak procedure. The risk of damaging the tube system and leakages after rebuild is high. The weekly or daily application of special cleaning chemicals is very expensive as well. The storage and disposal costs have not even been included in the calculation. High

pressure cleaning methods are very **time consuming**, require enormous amounts of water and significant **operator experience**. Seals can easily be damaged and some tube segments have to be removed.

For safety reasons **WALICLEAN** also performs a leakage test on the system.



TEST-FUCHS has a global reputation for quality and innovation. More than 60 years of experience with the global players has resulted in a special relationship with our customers. TEST-FUCHS is still a family-owned company, eager to adapt to the customer's needs.

TEST-FUCHS test systems are delivered to Airlines, Original Equipment Manufacturers and Maintenance, Repair and Overhaul companies.

WALICLEAN is a result of more than 60 years of experience.

REMOVE SCALE BEFORE FLIGHT

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WALICLEAN®

Enter a new world of
Waste Line Cleaning

