





# Maintenance sheets

## ASM 182 TD+ - 192 T2D+ User's Manual

### Detailed contents

#### Preliminary remarks

Throughout this User's Manual, you could find this type of message "  **To access to level**  **C 40**": it refers to a specific chapter of the User's Manual. Please read it for further information.

#### Maintenance operations introduction

■ Safety recommendations . . . . .	■ E 10
■ Icons used	

#### Access to internal detector components ASM 182 TD+

■ Precautions . . . . .	■ E 20
■ Access level 1	
■ Accessing the I/O interface board	
■ Disassemble the main block	

#### Access to internal detector components ASM 192 T2D+

■ Precautions. . . . .	■ E 21
■ Access level 1	
■ Access level 2 disassemble the main block	

#### Greasing the hybrid turbomolecular pump TMP 5154

■ Accessing the bearings . . . . .	■ E 30
■ Using the grease syringe	
■ Greasing the front bearing	
■ Greasing the rear bearing	
■ Running in the pump after relubrication	

#### Greasing the molecular drag pump MDP 5011/5006 HDS

■ Accessing the bearings . . . . .	■ E 40
■ Using the grease syringe	
■ Greasing the front bearing	
■ Greasing the rear bearing	
■ Running in the pump after relubrication	

#### Greasing the ATP 100 pump

■ Use of the lubrication syringe . . . . .	■ E 45
■ Bearing lubrication	
■ Bearing opposite the pumping cell	
■ Bearing on pumping cell side	
■ Running in the pump after relubrication	

#### Partial maintenance of the ACP 20/28 pump (ASM 182 TD+)

■ Access to the pump . . . . .	■ E 50
■ Removal procedure	



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### Partial maintenance of the ACP 20/28 pump (ASM 192 T2D+)

- Access to the pump . . . . . ■ E 51
- Access to the ACP 20/28 variator

### Basic maintenance of the analyzer cell

- Components . . . . . ■ E 60
- Special precautions
- Cell disassembly
- Cleaning the body
- Disassemble the filaments
- Disassemble the electron collector
- Replace the electron collector and the filaments
- Tighten all the connection screws
- Reassemble the flange
- Tighten all the securing screws
- Restart and check proper operation of the analyzer cell
- Symptoms and probable cause
- Reset the filament information timer
- Access authorization
- Procedure
- Reset filament #1
- Reset filament #2
- Switch on/off the filament

### Replacement / Recalibration of the detector internal calibrated leak

- Purpose of the calibrated internal leak . . . . . ■ E 70
- Frequency of internal leak «recalibration»
- How to recalibrate the internal leak
- Removal of the internal calibrated leak
- Installation of a new internal calibrated leak
- Intensive use of the detector

### LDS probe maintenance

- Purpose . . . . . ■ E 80
- Probe assembly

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### Minisol and Bacosol valve installation and maintenance

■ Background . . . . .	■ E 85
■ Valves localisation - ASM 182 TD+	
■ Valves localisation - ASM 192 T2D+	
■ Frequency	
■ Necessary materials	
■ Precautions	
■ Disassembly	
■ Cleaning	
■ Seal preparation	
■ Reassembly	
■ Test after installation	