AMS Hardware Updates

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24/08/19

AMS Users Meeting, Lund, 2019
Removable Ionizer Flange
Positive Stop

Top Lens Stack Plate Replacement
Removable Ionizer Flange/Movable Vaporizer
Removable Ionizer Flange/Movable Vaporizer
Removable Ionizer Flange/Movable Vaporizer
Capture Vaporizer

CE ~1
Operating temp ~550°C
Mo instead of W
ePToF Flange Update
Agilent Pump/Electronics System (old)
EyeOn/Pfeiffer Pumps
Agilent Pump Update

V81 Turbo Pump is discontinued

<table>
<thead>
<tr>
<th></th>
<th>304FS</th>
<th>84FS</th>
<th>74FS</th>
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<tbody>
<tr>
<td>Work on AMS?</td>
<td>NO!</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Default Frequency</td>
<td>1010 Hz</td>
<td>1350 Hz</td>
<td>1167 Hz</td>
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- 84FS and 74FS are physically same hardware, run at different frequencies
- 74FS run at slower to extend bearing lifetime
- Agilent recommends 84FS frequency for High Vacuum applications
- Many AMS users currently using 84FS
74FS Turbo Power

Run at 1250Hz
Installed at Pump #3
74FS Turbo Temperature
Pump Testing Summary

74FS/84FS
• Cooling is critical. Recommended to obtain Agilent’s cooling fan.
• Minor Replumbing will be necessary.
• Necessary adapter fittings are developed. (Agilent p/n 9699109M001QS-T163)
• 74FS/84FS will work with 84FS, V81, and V70 pump controllers.
• Many AMS systems are now running successfully with 84FS Pumps.

304FS
• 304FS pump will not work on the AMS. Aerodyne will be able to obtain the V301 for the foreseeable future. Agilent will continue to supply OEM’s with the V301.
Agilent Pump Data Sheets

• [74FS Turbo Datasheet](#)

• [84FS Turbo Pump Datasheet](#)

• [v301 Turbo Pump Datasheet](#)

Note: V81 is discontinued, V70 is not.  
**Agilent will exchange V70 Turbos!**