For instructions on how to assemble these systems, please refer to the Hilti North America Youtube page

VC 75
VC 125
VC 150
VC 300

CONTENTS

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Supplemental instructions .......................................................... 26–30
April 16, 2019

Statement on features of Hilti VC 75-1-A22 series vacuum:

Regarding OSHA 29 CFR Part 1926 §1153, please note that the Hilti VC 75-1-A22 vacuum meets the following requirements given in Table 1:

- 99% or greater filter efficiency
- Manual filter mechanism
- Provides 75 cfm
- A HEPA filter is available

When used in conjunction with the corresponding Hilti tools and dust removal systems meeting the listed Table 1 requirements, the user will have a compliant system as specified in the regulation.

Please contact your local Hilti representative with any additional questions. For additional clarification, please refer to 29 CFR Part 1926 §1153.

Sincerely,

Hilti product team
June 23, 2017

Statement on features of Hilti VC 125 series vacuums:

Regarding OSHA 29 CFR Part 1926 §1153, please note that the Hilti 125-6 and 125-9 vacuums all meet the following requirements given in Table 1:

- 99% or greater filter efficiency
- Manual filter mechanism
- provide 125 cfm
- a HEPA filter is available

When used in conjunction with the corresponding Hilti tools and dust removal systems meeting the listed Table 1 requirements, you will have a compliant system as specified in the regulation.

Please contact your local Hilti representative with any additional questions. For additional clarification, please refer to 29 CFR Part 1926 §1153.

Sincerely,

Hilti product team
June 23, 2017

Statement on features of Hilti VC 20, 40, 150, and 300 series vacuums:

Regarding OSHA 29 CFR Part 1926 §1153, please note that the Hilti VC 20-U, VC 40-U, VC 40-UE, VC 150-6 X, VC 150-6 XE, VC 150-10 X, VC 150-10 XE, and VC 300-17 X vacuums all meet the following requirements given in Table 1:

- 99% or greater filter efficiency
- self-cleaning filter mechanism
- provide the below cubic feet per minute (cfm) of suction
  - VC 20-U and 40-U: 129 cfm
  - VC 150 series: 150 cfm
  - VC 300 series: 300 cfm
- a HEPA filter is available

When used in conjunction with the corresponding Hilti tools and dust removal systems meeting the listed Table 1 requirements, you will have a compliant system as specified in the regulation.

Please contact your local Hilti representative with any additional questions. For additional clarification, please refer to 29 CFR Part 1926 §1153.

Sincerely,

Hilti product team
Bill To: TX3592
HILTI INC.
P.O. BOX 21148
ATT: ACCOUNTS PAYABLE
TULSA, OK 74121
FRANK HIERONYMUS
918-671-2349

Service Location: TX3592-002
HILTI INC.
3701 ROYAL LANE
SUITE 100
IRVING, TX 75063
972-403-5887
FRANK HIERONYMUS
FRANK.HIERONYMUS@HILTI.COM

SERVICE SCHEDULE DATE: 
SCHEDULE ADMIN: 204 TECH: 611 
CUSTOMER NOTES / INSTRUCTIONS: 

<table>
<thead>
<tr>
<th>SERVICE REQUESTED: TEST AND CERTIFICATION</th>
<th>BILLING TYPE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITEM</td>
<td>DESCRIPTION OF SERVICES</td>
</tr>
<tr>
<td>-----</td>
<td>--------------------------</td>
</tr>
<tr>
<td>1</td>
<td>ONSITE CERTIFICATION TESTING OF 7 NEW VACUUMS FOR COMPLIANCE WITH HEPA ** PLEASE NOTE THAT THE DAY RATE APPLIES TO THE TESTING LISTED IN THE LINE ITEMS BELOW**</td>
</tr>
<tr>
<td>2</td>
<td>ONSITE CERTIFICATION TEST AND CERTIFICATION - NEW VACUUM ITEM NUMBER: 2167143 DESCRIPT: VC 300-17X FLOW RATE: 300 CU FT/MIN</td>
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<tr>
<td>3</td>
<td>ONSITE CERTIFICATION TEST AND CERTIFICATION - NEW VACUUM ITEM NUMBER: 2167144 DESCRIPT: VC 150-6XE FLOW RATE: 150 CU FT/MIN</td>
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<td>4</td>
<td>ONSITE CERTIFICATION TEST AND CERTIFICATION - NEW VACUUM ITEM NUMBER: 2167145 DESCRIPT: VC 150-10XE FLOW RATE: 150 CU FT/MIN</td>
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<td>5</td>
<td>ONSITE CERTIFICATION TEST AND CERTIFICATION - NEW VACUUM ITEM NUMBER: 2167146 DESCRIPT: VC 150-6XE FLOW RATE: 150 CU FT/MIN</td>
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<tr>
<td>6</td>
<td>ONSITE CERTIFICATION</td>
</tr>
</tbody>
</table>

CUSTOMER SIGNATURE: 

TECH SIGNATURE: 

DATE: 16 JUN 2017
## SERVICE WORK ORDER

**WORK ORDER NO:** 312-146996  
**CUST PO#:** CREDIT CARD

### Bill To: TX3592

**HILTI INC.**  
P.O. BOX 21148  
ATT: ACCOUNTS PAYABLE  
TULSA, OK 74121  
FRANK HIERONYMUS  
918-671-2349

### Service Location: TX3592-002

**HILTI INC.**  
3701 ROYAL LANE  
SUITE 100  
IRVING, TX 75063  
972-403-5887  
FRANK HIERONYMUS  
FRANK.HIERONYMUS@HILTI.COM

### DETAIL OF SERVICES

<table>
<thead>
<tr>
<th>Item #</th>
<th>Asset #</th>
<th>Description of Services</th>
<th>Location</th>
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</thead>
</table>
| 7      |         | TEST AND CERTIFICATION - NEW VACUUM  
ITEM NUMBER: 2167147  
DESCRIPTION: VC 150-10XE  
FLOW RATE: 150 CU FT/MIN |          |
| 8      |         | TEST AND CERTIFICATION - NEW VACUUM  
ITEM NUMBER: 2167148  
DESCRIPTION: VC 125-6  
FLOW RATE: 125 CU FT/MIN |          |
|        |         | TEST AND CERTIFICATION - NEW VACUUM  
ITEM NUMBER: 2167149  
DESCRIPTION: VC 125-9  
FLOW RATE: 125 CU FT/MIN |          |

---

**CUSTOMER SIGNATURE:**

**TECH SIGNATURE:**

**DATE:**    
**DATE:** 16 Jan 2017  
Page 2 of 2
Vacuum Submittal

dba ENV Services Testing and Certification, Inc.
2880 Bergey Road, Suite K
Hatfield, PA 19440
(800) 345-6094

Test Report Number
TX3692-002
Inventory Number
WO#312-146996

SERVICE REPORT

Customer: HILTI INC.
Address: 3701 ROYAL LANE
          SUITE 100
          IRVING, TEXAS 75063
Contact: FRANK HIERONYMUS
Telephone: 972/403-5867

ENV Services Technician: JERRY MAXWELL
Test Date: 16-Jun-17
Test Frequency: ONE TIME ONLY
Equipment Manufacturer: CUSTOM
Model Number: VARIOUS SEE WO.
Serial Number: SEE WO.
Type: VACUUM UNITS
Location: WAREHOUSE

Testing and Certification: The purpose of field testing this equipment is to assure whether it is functioning as designed in compliance with manufacturer's specifications. NFI specifications, NSF Standard #49, or other specifications which may apply. We perform all test procedures in accordance with these standards as detailed in ENV Services Protocols, applicable copies of which are available on request. Our testing and certification apply only to the equipment and do not signify approval of the use of any hazardous agents or operational procedures.

SERVICE SUMMARY

OVERALL CERTIFICATION

<table>
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<tr>
<th>PASS</th>
<th>FAIL</th>
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<tbody>
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COMMENTS AND RECOMMENDATIONS

hepa leak test completed on item numbers 2167143, 2167144, 2167145, 2167146, 2167147, 2167148, and 2167149. All passed.

Customer Signature
FRANK HIERONYMUS

Serviced by: Jerry Maxwell
Date: 16-Jun-17

PLEASE PRINT NAME
HEPA VACUUM TEST REPORT

Prepared for:
HILTI Inc.
7250 North Dallas Parkway
Plano, TX 75024

Models: VC20U, VC40U, VC40U outlet

Attention:
Frank Hieronymus
918-712-2349

Date(s) Tested:
7/13/15

Field Service Technician(s):
Ken Waterhouse

ENV SERVICES
4758 Research Drive
San Antonio, TX 78240
(210) 690-3368
Fax (210) 690-3546
HEPA LEAK TESTING OF HILTI HEPA VACUUM UNITS
BENCH TESTING FOR AEROSOL PENETRATION

Setup

Each Vacuum is setup with an internal prefilter bag placed in the base of the bucket and a HEPA filter placed below the motor.
Airflow enters the intake and is then passed through the prefilter bag and then is siphoned up through the HEPA filter and then discharged through loops on the right and left side of the vacuum housing.

Procedure:
Following guidelines within Reference Standard: IES-RP-CC-0034.1
HEPA and ULPA Filter Leak Tests.
A large bag was placed over the outlet side of the Vacuum unit.
The intake airflow was measured with a Velocity meter set for CFM Calculation (135 CFM)
A calculated concentration was followed using an aerosol challenge for >10 micrograms per liter of PAC Aerosol.
The Aerosol Photometer was set at a sensitivity of 50 micrograms, and the test proceeded by insertion of aerosol in the intake and sampling the outflow of the air filling the collection bag.
No leakage greater than .005% was detected.

Test Setup showing Aerosol Generator on right HILTI VC20U Vacuum in middle with catch bag attached, and Aerosol Photometer on the left.

[Signature]

Ken Watthour
Technician
March 12, 2015
Conclusions:
All Models passed the aerosol penetration leak test of no leakage greater than .005% penetration detected.

See Certificates

Test Equipment Used:

Tec Services Inc. Aerosol Photometer
Model # PH-5
Serial # 2027
Calibration Date: 29JUN2015

ATI Model 6B Aerosol Generator
6 Nozzle
S# 26536

Velocity Meter
TSI
Model # 9535
S# T95351514002
**CALIBRATION CERTIFICATE**

All calibrations are performed by qualified personnel using instrumentation, procedures and methods which guarantee specifications claimed are reliable. When specified, all calibrations are performed in accordance with current ISO/IEC 17025, ANSI/NCSL Z-540-1, MIL-STD-45662A, and ENV/Pro-Lab Quality Manual - Rev 5. Standards used are traceable to The National Institute of Standards and Technology (NIST). Expanded uncertainties are calculated using methods described in the Guide to the Expression of Uncertainty of Measurement (GUM) utilizing a coverage factor of K=2 (95% confidence) and kept on file at Pro-Lab. At a minimum, standards are selected with an uncertainty of 25% or better, where possible. This certificate and/or data shall not be reproduced except in full, without the written permission of Pro-Lab Management.

**Standards Used**

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<td>1208</td>
<td>PRESSURE TRANSDUCER</td>
<td>ENV/0515-480-5013</td>
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<td>REFERENCE THERMOMETER</td>
<td>ENV/0314-481-5572A</td>
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<td>986</td>
<td>RTD PROBE</td>
<td>ENV/0314-481-2318</td>
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**Temperature:** 23.0°C  
**Humidity:** 54.6% RH  
**Approved By:** Michael Blahut  
**Date Tested:** 11-Jun-2015  
**Date Due:** 30-Jun-2016  
**Calibrated By:** David Andreas  
**Calibration Technician:** E-Signed 11-Jun-2015 8:37 AM

---

 Vacuum Submittal
**UNIT UNDER TEST**

- **Manufacturer:** TSI
- **Model No.:** 9535
- **Serial No.:** T95351514002
- **Cust. Ref. No.:** 01263
- **Description:** AIR VELOCITY METER
- **Date Rec’d:** 6/3/2015
- **Condition Rec’d:** GOOD

**SUBMITTED BY**

- **Customer:** ENV SERVICES, INC (REGION I)
  - 2880 BERGEY RD
  - HATFIELD, PA 19440
- **P.O. #:** ENV510
- **Recal:** OUT OF SPEC  Final: IN SPEC

---

**CALIBRATION DATA**

Note: Calibration results may drift from documented values prior to calibration due date attributable to various factors. Results obtained apply to the UUT only and are reflective of conditions at the time of this test.

<table>
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<td>73.5</td>
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-- A DIVISION OF ENV SERVICES, INC. --

2880 BERGEY ROAD SUITE K - HATFIELD, PA 19440-1742 - (800) 992-9108 - FAX (215) 822-6522
**CALIBRATION CERTIFICATE**

All calibrations are performed by qualified personnel using instrumentation, procedures and methods which guarantee specifications claimed are reliable. When specified, all calibrations are performed in accordance with current ISO/IEC 17025, ANSI/NCSL Z-540-1, MIL-STD-45662A, and ENV/Pro-Lab Quality Manual - Rev 5. Standards used are traceable to The National Institute of Standards and Technology (NIST). Expanded uncertainties are calculated using methods described in the Guide to the Expression of Uncertainty of Measurement (GUM) utilizing a coverage factor of K=2 (95% confidence) and kept on file at Pro-Lab. At a minimum, standards are selected with an uncertainty of 25% or better, where possible. This certificate and/or data shall not be reproduced except in full, without the written permission of Pro-Lab Management.

**Standards Used**

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<td>00173</td>
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<td>ENV00014-497-191</td>
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**Temperature:** 22.0 C  
**Humidity:** 35.0% RH  
**Approved By:** Michael Blahut  
**Date Tested:** 29-Jun-2015  
**Date Due:** 30-Jun-2016  
**Calibrated By:** William Leas, Jr.  
**Calibration Technician**

---

A DIVISION OF ENV SERVICES, INC.  
2880 BERGEY ROAD SUITE K - HATFIELD, PA 19440-1742 - (800) 992-9108 - FAX (215) 822-6522
**CALIBRATION DATA**

Specifications obtained from: TEC SERVICES MODEL PH-5 PHOTOMETER USER MANUAL.

Note: Calibration results may drift from documented values prior to calibration due date attributable to various factors. Results obtained apply to the UUT only and are reflective of conditions at the time of this test.

### DC VOLTAGES

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</tbody>
</table>

---

A DIVISION OF ENV SERVICES, INC.

2880 BERGEY ROAD SUITE K - HATFIELD, PA 19440-1742 - (800) 992-9108 - FAX (215) 822-6522
Certificate of Compliance

HILTI VC20U HEPA Vacuum Unit

Hilti, Inc.
7250 North Dallas Parkway
Plano, TX 75024

On this Date: 7/13/2015

Testing conducted in accordance with IES RP-CC-002 & Following guidelines within Reference Standard; IES-RP-CC-0034.1

Conducted by: ENV Services, Inc.
4758 Research Dr.
San Antonio, TX 78240

Administered By: Ken Waterhouse
Certificate of Compliance

HILTI VC40U HEPA Vacuum Unit

Hilti, Inc.
7250 North Dallas Parkway
Plano, TX 75024

On this Date: 7/13/2015

Testing conducted in accordance with IES RP-CC-002 & Following guidelines within Reference Standard; IES-RP-CC-0034.1

Conducted by: ENV Services, Inc.
4758 Research Dr.
San Antonio, TX 78240

Administered By: Ken Waterhouse
Certificate of Compliance

HILTI VC40U/Outlet HEPA Vacuum Unit

Hilti, Inc.
7250 North Dallas Parkway
Plano, TX 75024

On this Date: 7/13/2015

Testing conducted in accordance with IES RP-CC-002 & Following guidelines within Reference Standard; IES-RP-CC-0034.1

Conducted by: ENV Services, Inc.
4758 Research Dr.
San Antonio, TX 78240

Administered By: Ken Waterhouse
Certificate of Compliance

HILTI VC 75-1 A22 HEPA Filter Unit
Filter # 2192228
Hilti, Inc.
7250 North Dallas Parkway
Plano, TX 75024

On this Date: April 9, 2018

Testing conducted in accordance with IES RP-CC-002 & Following guidelines within Reference Standard; IES-RP-CC-0034.4

Conducted by: ENV Services, Inc.
4758 Research Dr.
San Antonio, TX 78240

Implemented By: Jerry Maxwell
Certificate of Compliance

HILTI VC 125-6 HEPA Vacuum Unit
Filter # 203879
Hilti, Inc.
7250 North Dallas Parkway
Plano, TX  75024

On this Date:  April 9, 2018

Testing conducted in accordance with IES RP-CC-002 & Following guidelines within Reference Standard; IES-RP-CC-0034.4

Conducted by:  ENV Services, Inc.
4758 Research Dr.
San Antonio, TX  78240

Imprinted By:  Jerry Maxwell
Certificate of Compliance

HILTI VC 125-9 HEPA Vacuum Unit
Filter # 203879
Hilti, Inc.
7250 North Dallas Parkway
Plano, TX  75024

On this Date:  April 9, 2018

Testing conducted in accordance with IES RP-CC-002 & Following guidelines within Reference Standard; IES-RP-CC-0034.4

Conducted by:  ENV Services, Inc.
4758 Research Dr.
San Antonio, TX  78240

Administered By : Jerry Maxwell
Certificate of Compliance

HILTI VC 150-6X HEPA Vacuum Unit
Filter # 203879
Hilti, Inc.
7250 North Dallas Parkway
Plano, TX 75024

On this Date: April 9, 2018

Testing conducted in accordance with IES RP-CC-002 & Following guidelines within Reference Standard; IES-RP-CC-0034.4

Conducted by: ENV Services, Inc.
4758 Research Dr.
San Antonio, TX 78240

Administered By: Jerry Maxwell
Certificate of Compliance

HILTI VC 150-6XE HEPA Vacuum Unit
Filter # 203879
Hilti, Inc.
7250 North Dallas Parkway
Plano, TX 75024

On this Date: April 9, 2018

Testing conducted in accordance with IES RP-CC-002 & Following guidelines within Reference Standard; IES-RP-CC-0034.4

Conducted by: ENV Services, Inc.
4758 Research Dr.
San Antonio, TX 78240

Administered By: Jerry Maxwell

Imprinted By: Jerry Maxwell
Certificate of Compliance

HILTI VC 150-10X HEPA Vacuum Unit
Filter # 203879
Hilti, Inc.
7250 North Dallas Parkway
Plano, TX 75024

On this Date: April 9, 2018

Testing conducted in accordance with IES RP-CC-002 & Following guidelines within Reference Standard; IES-RP-CC-0034.4

Conducted by: ENV Services, Inc.
4758 Research Dr.
San Antonio, TX 78240

Administered By: Jerry Maxwell
Certificate of Compliance

HILTI VC 150-10XE HEPA Vacuum Unit
Filter # 203879
Hilti, Inc.
7250 North Dallas Parkway
Plano, TX 75024

On this Date: April 9, 2018

Testing conducted in accordance with IES RP-CC-002 & Following guidelines within Reference Standard; IES-RP-CC-0034.4

Conducted by: ENV Services, Inc.
4758 Research Dr.
San Antonio, TX 78240

Administered By: Jerry Maxwell
Certificate of Compliance

HILTI VC 300-17X HEPA Vacuum Unit
Filter # 2177708
Hilti, Inc.
7250 North Dallas Parkway
Plano, TX  75024

On this Date:  April 9, 2018

Testing conducted in accordance with IES RP-CC-002 & Following guidelines within
Reference Standard; IES-RP-CC-0034.4

Conducted by:  ENV Services, Inc.
4758 Research Dr.
San Antonio, TX  78240

Imministered By:  

Jerry Maxwell
VACUUM CLEANER

VC 75 / 125 / 150 / 300 OSHA

Hilti developed a vacuum cleaner system with a filter cleaning mechanism and a >99% filter efficiency, compliant with many of the OSHA 1926.1153, Table 1 specified controls.

Set-up

1. Put a filter into the filter compartment. Decide which filter depending on your applications. See filter section for further information.
2. Put filter bag into the tank. Decide which filter bag depending on your applications. See filter bag section for further information.
3. Put hose into head and attach it to the adaptor of the tool. See tool manual for further information on correct adaptor.
4. Plug vacuum cleaner in socket.
5. Start vacuum cleaner by turning control switch on. Verify proper operation of vacuum cleaner.
   - head on correct and sealed
   - no kinks/breaks/plugs in hose
   - check for normal suction at hose end
   - nothing blocking exhaust port
   - For VC 20/40/150/300, verify the automatic filter cleaning mechanism is turned on, and operating (audible thumping every ~15 seconds).
6. Start running the tool only when vacuum cleaner is on.
7. Turn vacuum cleaner off after tool is turned off.

Cleaning and maintenance

1. For VC 75 and VC 125, push manual filter cleaning button every 3 to 5 minutes depending on application, and whenever there is a noticeable change in suction or dust collection..
2. Filter and filter bag needs to be cleaned and exchanged regularly. See filter and filter bag section for further information.
# UNIVERSAL FILTER-BAGS / PLASTIC BAGS

**Plastic Bag**

- For dry and wet applications
- Will not increase lifetime of filter, no pre-filtering

**Universal Bag**

- For dry applications
- Virtually dustless recycling / emptying
- Pre-filter, will increase lifetime of filter

### How to put bag in vacuum

1. Remove head from tank
2. Put bag into the tank
3. Check that holes are within the vacuum cleaner when installed and that the plastic bag doesn’t overlap clamp area
4. Put head back on tank and close clamps properly

### Disposal guidelines

- Recycle bag when it is full
- Tie off or seal paper/fleece bags. Twist plastic bags. Roll bucket to nearest sealed receptacle and transfer bag to garbage.
- To be recycled normally (dispose of bag according to local regulations)

- Close cap when bag is full or needs to be recycled
- Dispose of bag according to local regulations.
## DO’S AND DON’TS WITH UNIVERSAL FILTER-BAGS / PLASTIC BAGS

<table>
<thead>
<tr>
<th><strong>Do’s</strong></th>
<th><strong>Don’ts</strong></th>
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<tbody>
<tr>
<td>- Dispose of bag when it is full</td>
<td>- Fill plastic bag to completely full, it can rip apart</td>
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</table>
| - Use filter bags for all dry applications  
  - Increases lifetime of your tool  
  - Increase lifetime of your filter | - Overlap the clamp area with the plastic bag |
| - Dispose of bag when it is full | |
| - Mandatory for all wood applications | - Shake full filter-bag  
  - Dust can exit  
  - Bag can rip apart |
| - Connect flange of filter bag properly into adapter | - Use bag for wet applications |
# DO’S AND DON’TS WITH FILTERS

**Do’s**

- Maximize life of filter by utilizing the vacuum’s filter cleaning mechanism (action is optimized by sealing hose for 3-5 filter cleaning cycles) with automatic filter cleaning (close hose for a 3-5 cycles)

- Power cleaning: Remove hose, close inlet for 3-5 automatic filter cleaning cycles

- Use performance filters (PTFE) in order to have a longer lifetime of your tool, longer lifetime of the filter and less blockage of the filter

- Filter sealing needs to be properly installed

- During filter change, clean up filter frame and sealing area

- Check filter condition before starting an application

**Don’ts**

- Mix dry and wet applications. Dry filters used for wet applications needs to be exchanged with a wet/dry filter and dried before using it for dry applications

- Manually cleaning the filter can damage the filter and lead to decreased vacuum life and poor dust control capability damaged -> a damaged or missing filter can lead to a broken turbine since dust can enter (reduces lifetime of vacuum cleaner)
  - Banging against the wall
  - Cleaning with high-pressured air
  - Use water jet / air pressure jet to clean the filter
  - Use sharp things e.g. wrench etc. to clean the filter

- Use vacuum cleaner without a filter
FILTER CLEANING AND EXCHANGE

Filter needs to be cleaned when:

- Notably less suction power
  - Clean filter with automatic filter cleaning
- Dust is coming out of the vacuum cleaner. Indication that the filter is damaged or blocked.
- Visual check shows that filter needs to be cleaned

Filter needs to be exchanged when:

- Dust is coming out of the vacuum cleaner. Indication that filter is damaged or blocked.
- Even after cleaning the filter, suction power is insufficient
- Visual check shows that filter needs to be exchanged due to a high volume of dust near or inside the filter