




HILTI VACUUM PORTFOLIO

Supporting
information



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

 VC 125

 VC 150

 VC 300

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July 1, 2018

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 vacuumns 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
- 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



July 1, 2018

Statement on features of Hilti VC 125 series vacuums:

Regarding OSHA 29 CFR Part 1926.1153, please note that the Hilti VC 75-1-A22, VC 125-6 and VC 125-9 vacuumns all meet the following requirements given in Table 1:

- 99% or greater filter efficiency
- Manual filter cleaning mechanism
- provide the below cubic feet per minute (cfm) of suction
 - VC 75-1-A22: 75 cfm (max) 40 cfm (eco)
 - VC 125 series: 125 cfm
- 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



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

Administered 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

Administered 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*



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

Administered By : *Jerry Maxwell*



Certificate of Compliance

HILTI VC20U HEPA Vacuum Unit

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

On this Date: 7/13/12015

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: 7/13/12015

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 Vacuum Unit

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

On this Date: April 9, 2018

Testing conducted in accordance with IEST RP-CC002.4 for no leakage greater than 1%

Administered By : *Jerry Maxwell*

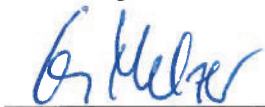
Conducted by: ENV Services, Inc.
4758 Research Dr.
San Antonio, TX 78240

To whom it may concern

Herewith we confirm that the filter material meets the requirements of degree of penetration valid for dust-class "M" according to IFA (Institute for Occupational Safety & Health) test certificate.

Test Certificate No.	No. 201722886/6210
Hilti item number	428625
Type, designation	Filter material 1 ply / YiTai H11
Marking	YiTai H11
Test method, requirements	IEC 60335-2-69:2012 / EN 60335-2-69:2015, AA 22.201.1, IFA Principles for testing filters for use in dust- removing machines and devices, edition 01/2010
Assessment, suitability (special marks)	Filter material designated meets the requirements of durst class "M" in accordance with the standard DIN EN 60335-2-69:2010 if filter area load is within range of 200m ³ /m ² h (corresponding to a blower stream of 0.056 m/s). This filter material is applicable for use in dust- removing machines and devices of the dust class "M".
Air Velocity of blower stream	0,056 m/s
Requirement valid for dust-class "M"	
Maximum permissible degree of penetration	< 0,10 %
Filtration efficiency	≥ 99,9 %
Test result	
Mean value of degree of penetration	< 0,01 % (determined by six measurements)

Kaufering, November 28, 2017



Lars Melzer
Head of Competence Center Health & Safety Technologies

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Sitz der Gesellschaft Hiltistraße 6, 86916 Kaufering
Amtsgericht Augsburg HRB 16 295

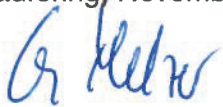
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USt-IdNr. DE 811172981

To whom it may concern

Herewith we confirm that the filter material meets the requirements of degree of penetration valid for dust-class "M" according to IFA (Institute for Occupational Safety & Health) test certificate.

Test Certificate No.	No. 201323880/6210
Hilti item number	2121386, 2177885
Type, designation	Filter material 1 ply / BN 2.187f
Marking	BN 2.187f
Test method, requirements	IEC 60335-2-69:2012 / EN 60335-2-69:2015, AA 22.201.1, IFA Principles for testing filters for use in dust- removing machines and devices, edition 01/2010
Assessment, suitability (special marks)	Filter material designated meets the requirements of durst class "M" in accordance with the standard DIN EN 60335-2-69:2010 if filter area load is within range of 250m ³ /m ² h to 400m ³ /m ² h (corresponding to a blower stream of 0.069 m/s to 0.111 m/s). This filter material is applicable for use in dust- removing machines and devices of the dust class "M".
Air Velocity of blower stream	0,111 m/s
Requirement valid for dust-class "M"	
Maximum permissible degree of penetration	< 0,10 %
Filtration efficiency	≥ 99,9 %
Test result	
Mean value of degree of penetration	0,01 % (determined by six measurements)

Kaufering, November 28, 2017



Lars Melzer
Head of Competence Center Health & Safety Technologies

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Amtsgericht Augsburg HRB 16 295

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UST-IdNr. DE 811172981

To whom it may concern

Herewith we confirm that the filter material meets the requirements of degree of penetration valid for dust-class "M" according to IFA (Institute for Occupational Safety & Health) test certificate.

Test Certificate No.	No. 201323723/6210
Hilti item number	2121387
Type, designation	Filter material 1 ply / BN 2.198c
Marking	BN 2.198c
Test method, requirements	IEC 60335-2-69:2012 / EN 60335-2-69:2015, AA 22.201.1, IFA Principles for testing filters for use in dust- removing machines and devices, edition 01/2010
Assessment, suitability (special marks)	Filter material designated meets the requirements of durst class "M" in accordance with the standard DIN EN 60335-2-69:2010 if filter area load is within range of 250m ³ /m ² h to 400m ³ /m ² h (corresponding to a blower stream of 0.069 m/s to 0.111 m/s). This filter material is applicable for use in dust- removing machines and devices of the dust class "M".
Air Velocity of blower stream	0,111 m/s
Requirement valid for dust-class "M"	
Maximum permissible degree of penetration	< 0,10 %
Filtration efficiency	≥ 99,9 %
Test result	
Mean value of degree of penetration	0,01 % (determined by six measurements)

Kaufering, November 28, 2017



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Amtsgericht Augsburg HRB 16 295

To whom it may concern

Herewith we confirm that the filter material meets the requirements of degree of penetration valid for dust-class "M" according to IFA (Institute for Occupational Safety & Health) test certificate.

Test Certificate No.	No. 201323606/6210
Hilti item number	436058
Type, designation	Filter material 1 ply / BN 2.174c
Marking	BN 2.174c
Test method, requirements	IEC 60335-2-69:2012 / EN 60335-2-69:2015, AA 22.201.1, IFA Principles for testing filters for use in dust-removing machines and devices, edition 01/2010
Assessment, suitability (special marks)	Filter material designated meets the requirements of dust class "M" in accordance with the standard DIN EN 60335-2-69:2010 if filter area load is within range of 250m ³ /m ² h to 400m ³ /m ² h (corresponding to a blower stream of 0.069 m/s to 0.111 m/s). This filter material is applicable for use in dust-removing machines and devices of the dust class "M".
Air Velocity of blower stream	0,111 m/s
Requirement valid for dust-class "M"	
Maximum permissible degree of penetration	< 0,10 %
Filtration efficiency	≥ 99,9 %
Test result	
Mean value of degree of penetration	< 0,01 % (determined by three measurements)

Kaufering, November 28, 2017



Lars Melzer
Head of Competence Center Health & Safety Technologies

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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 125 and VC 75-1-A22, 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



Universal Bag



Applications

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

- 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

1. Remove head from tank
2. Put bag into the tank
3. Connect flange of filter bag to the adapter
4. Put head back on tank and close clamps

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

Plastic Bag



Universal Bag



Do's

- Dispose of bag when it is full

- Use filter bags for all dry applications
 - Increases lifetime of your vacuum
 - Increase lifetime of your filter
- Dispose of bag when it is full
- Mandatory for all wood applications
- Connect flange of filter bag properly into adapter

Don'ts

- Fill plastic bag to completely full, it can rip apart
- Overlap the clamp area with the plastic bag

- Shake full filter-bag
 - Dust can exit
 - Bag can rip apart
- Use bag for wet applications

DO'S AND DON'TS WITH FILTERS

Do's

- Clean filter with automatic filter cleaning
- 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 vacuum, 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. Filter used for wet applications needs to be exchanged or dried before using it for dry applications
- Manually cleaning the filter, it will be 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:

- Feeling of less suction power
 - Clean filter with automatic filter cleaning
- Dust is coming out of the vacuum cleaner. Indication that filter is 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 broken 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