

# V-TUF



## V-TUF MINI X2 M-CLASS 110V-240V

DUST EXTRACTOR  
OPERATOR MANUAL



Please read this manual before using the M-CLASS MINI

# CONTENTS AND INTRODUCTION

## CONTENTS

### THE DUST PROBLEM, UNDERSTAND IT!

- 03 IS DUST A PROBLEM?
- 04 MINI M-CLASS SPECIFICATIONS
- 05-09 SET UP & USE
- 10 ABOUT YOUR MACHINE
- 11 IMPORTANT INFORMATION
- 12 THE M-CLASS CERTIFICATION
- 13 TROUBLESHOOTING
- 14 WARRANTY, RETURNS & REPAIRS
- 15 DECLARATION OF CONFORMITY

## ABOUT THE V-TUF M-CLASS MINI AND M-CLASS REGULATIONS

HSE recently introduced the M-Class rating as the minimum legal requirement for construction vacuum cleaners. Unrated vacuum cleaners can be incredibly dangerous because, whilst they appear to do a good job in cleaning the majority of dust and debris, they can exhaust most of the dangerous, respirable dust back into the breathing space of the operator.

These minute particles of dust not only damage the motor of the vacuum cleaner, they cause a multitude of lung and health problems for the vacuum operator.

The V-TUF® M-CLASS MINI is a product of collaboration with HSE managers, Occupation Hygiene Specialists, Tradesmen, HSE Inspectors, Hire Specialists and many other people on the 'Front-Line' of construction to tackle this problem.

The V-TUF® M-CLASS MINI has been tested by respected laboratories including UK HSL (Health and Safety Laboratory), Intertek, Conformance and Eurofins to ensure it delivers compliance and performance at the right price.

# IS DUST A PROBLEM?



## DID YOU KNOW?

- ⚠** The most dangerous dust is referred to as 'respirable dust' (up to 10 microns).
- ⚠** This dust can't be seen and remains airborne for up to 8 hours. If you've ever cleaned up, and returned to a job the next day to find it covered in dust again, this is respirable dust.
- ⚠** Anything that gets stuck in your nose or throat is called 'inhalable dust' (up to 100 microns).
- ⚠** This is not as dangerous because it doesn't reach your lungs. However this dust can be harmful if it contains toxic substances like lead.
- ⚠** 1000s of vacuum cleaner motors are damaged from dust every year.
- ⚠** Silica is found in most construction products.
- ⚠** Sweeping up exposes you to 4 times more dust than the original task.

For more information, statistics and dust prevention methods, be sure to visit our blog.



# M-CLASS MINI SPECIFICATIONS



▲ COMES WITH COMPLETE ACCESSORY KIT



ON TOOL EXTRACTION



SWEEP EXTRACTION

## SELECTED FEATURES



### M CLASS RATED

The M-CLASS MINI has been third party tested and certified to M Class standards. The UK Health and Safety executive has recently introduced this rating as the minimum legal requirement for all construction sites.



### 99.9% FILTRATION EFFICIENCY

Unrated vacuum cleaners can exhaust up to 85% of harmful dust back into your breathing space. This dust can't be seen by the naked eye and remains airborne for up to 8 hours. The M-CLASS MINI filter protects your motor and your health!



### EXTRACTION VELOCITY MONITOR

To sufficiently extract dust at source, you need a minimum extraction velocity of 20 metres per second M-CLASS MINI will notify you if the air flow drops below this level to keep you working efficiently.



### INTEGRATED FILTER SHAKER SYSTEM

M-CLASS MINI helps you to unclog the filter without exposing yourself to harmful dust by using an integrated Filter Shaker System. And if you ever need to give the filter a good, deep clean: simply remove the filter and place it in the dishwasher!



### UNIVERSAL POWERTOOL CONNECTOR

M-CLASS MINI comes with a universal power tool connector enabling you to extract dust from any power tool with a collection shroud and suction port!

## WHY BUY M-CLASS?

### PROTECT YOUR HEALTH, PROTECT YOUR VACUUM, BE COMPLIANT AND DO YOUR JOB EFFECTIVELY WITH V-TUF® M-CLASS MINI

The V-TUF® M-CLASS MINI helps you tackle dust at the source. Connect it directly to your powertools or sweep up and enjoy a dust free environment. The V-TUF® M-CLASS MINI is certified to M-Class, the new 'Minimum Legal Requirement' for construction sites. Unrated vacuum cleaners are extremely dangerous as respirable dust can pass through the motor and be pumped back into the air. This dust then remains airborne for up to 8 hours, where it can be inhaled directly into your lung chamber, where it will remain forever.

Approximately 700 people in the UK die every year due to illness relating to the inhalation of respirable dust. Needless to say, this dust also damages your vacuum motor. The V-TUF® M-CLASS MINI offers you affordable compliance and protection from common dust related health issues!

# LUNG SAFE DUST VACUUM CLEANER

## ACCESSORIES LIST

THE V-TUF® M-CLASS MINI COMES WITH A WIDE RANGE OF ACCESSORIES TO HELP YOU UNDERTAKE ANY JOB EFFICIENTLY AND, MOST IMPORTANTLY, SAFELY!

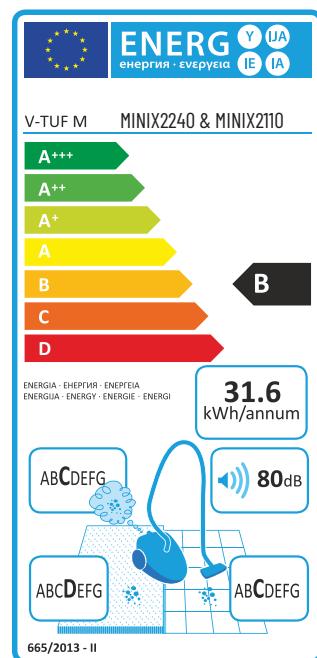
A FULL LIST OF ACCESSORIES CAN BE FOUND BELOW:



## SPECIFICATIONS

CABLE LENGTH:	12 metres
MOTOR POWER:	800W
VOLTAGE:	110/240V - 50/60Hz
AIR FLOW:	Measured at 20-25L/sec
LIFT POWER:	2400mm / 18kPa
TANK SIZE:	15L (dry waste)
WEIGHT:	Net: 5.5Kg   Gross: 10.4Kg
FILTRATION:	M-Class Certified
NOISE:	76dB
DIMENSIONS:	D: 360mm   W: 340mm   H: 420mm
PACKAGE DIMENSIONS:	D: 410mm   W: 395mm   H: 505mm

PRODUCT NAME	SUPPLIER REF.
1. Crevice Tool	VLX15HV
2. Universal Upholstery Tool with Brush	VLX13
3. Round Brush	VLX10
4. Universal Power Tool Adaptor	VTM103
5. Carpet/Hard Floor Head	VTM106
6. Hard Floor Sweeper Head	VTM107
7. Washable M-Class Filter	VTM102
8. Hi-Viz 32 mm Hose - Extends to 5 m	VTM113
9. 15 Litre Dust Bags - Pack of 5	VTM101
10. Two Handle Extensions & Elbow with Airflow Adjuster	VTM105



# SET UP AND USE



1 Open box



2 Undo tank clips



3 Note accessories in tank

4 Remove accessories



5 Fit bag (ensuring that it's fully on)

6 Check retainer screw is tight

\*The images shown are for illustration purposes only and may not be an exact representation of the product.

**! IMPORTANT! READ AND UNDERSTAND BEFORE USING YOUR  
V-TUF® M-CLASS MINI LUNG SAFE DUST EXTRACTION VACUUM CLEANER**



**7** Refit head and ensure all 3 clips are fastened



**8** Push hose end into suction port until it clicks



**9** Fit power tool adaptor to extract dust from power tools



**10** Fit Crevice Tool / Brush attachment OR...



**11** Attach elbow and 2x straight extensions followed by the **carpet/hard floor head** or the **hard floor sweeper head**

\*The images shown are for illustration purposes only and may not be an exact representation of the product.

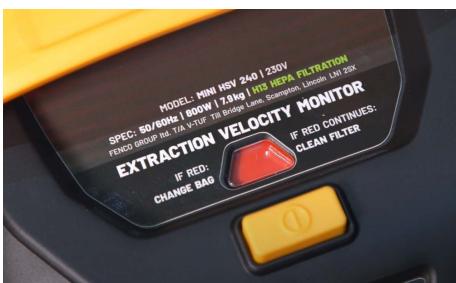
**!** **IMPORTANT! READ AND UNDERSTAND BEFORE USING YOUR**  
**V-TUF® M-CLASS MINI LUNG SAFE DUST EXTRACTION VACUUM CLEANER**



★ Carpet/Hard floor head for deep carpet cleaning



12 Plug in device then press button to turn extraction on/off



13 Check extraction velocity monitor



14 If monitor is red, press and hold Filter Shaker button for 10 seconds to clear filter (device/extraction must be on) **If the monitor turns red when you connect it to your power tool, ensure that the extraction passages of your tool are not blocked. If clear, it is OK to use. Check the flow periodically by removing the extraction hose.**

\*The images shown are for illustration purposes only and may not be an exact representation of the product.

## SET UP AND USE



---

15 If red monitor persists the bag may be full. Open the device and remove bag (making sure to close gate as shown before disposal).



16 If red monitor continues, the filter may need washing. Undo the filter retainer screw, remove filter and wash with warm soap water. Ensure filter is fully dry before refitting.



17 Ensure the seal around the retaining screw is in place before fitting filter



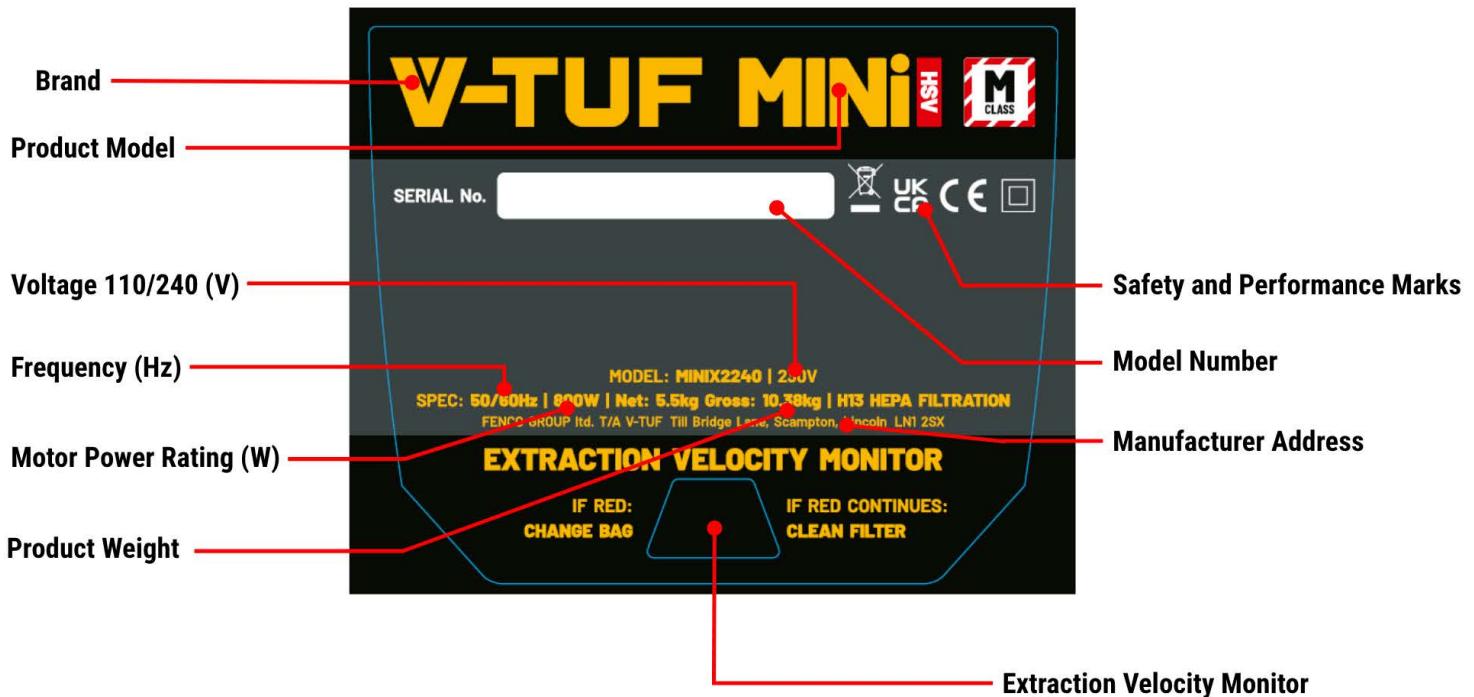
---

18 Refit the filter and retainer screw and tighten

19 After use, the cable can be wrapped around the handle, with the plug fitted into the handle slot

# ABOUT YOUR MACHINE

## THE RATING LABEL



## WEEE LEGISLATION

### (WASTE, ELECTRICAL AND ELECTRONIC EQUIPMENT)

The machine and its accessories, along with its packaging, needs to be sorted for environmentally-friendly recycling. **This machine is not to be disposed of in household waste.**

The Waste Electrical and Electronic Equipment Directive (WEEE Directive) is the European Community directive 2012/19/EU on waste electrical and electronic equipment (WEEE) which, together with the RoHS Directive 2002/95/EC, became European Law in February 2003.



# IMPORTANT INFORMATION



## IMPORTANT: PLEASE READ THESE DIRECTIVES TO ENSURE YOU GET THE BEST OUT OF YOUR MACHINE

- ✓ Clean machine with damp cloth or wipes. Never rinse or submerge.
- ✓ Ensure the Filter is correctly fitted and clean before use.
- ✓ Ensure that your cable and machine is not damaged.
- ✓ Your machine will require a 14 month LEV test to ensure the extraction and filtration quality of your machine.  
This is the owner's responsibility.\*
- ✓ Always use the machine with a genuine V-TUF bag to ensure that you safely collect, contain and dispose of the dust.
- ✓ Disconnect machine from the power supply before repairing, modifying and when not in use.
- ✓ Operators must be sufficiently inducted on the use of this machine before use.
- ✓ Routine and preventative maintenance must be performed on this machine to ensure safety and best performance.
- ✓ Inspect the vacuum before and after use for damage. And damaged parts must be replaced with original parts.
- ✓ Store the machine inside and in a dry place.
- ✓ If your machine stops working or gets blocked, disconnect from power source before clearing or repairing your machine. Resume operation only once the blockage has been cleared or the relevant maintenance and tests have been done.
- ✓ A risk assessment should be carried out to determine if any PPE (Personal protective Equipment) should be worn in conjunction with the use of this machine and whether the waste needs to be disposed of in a controlled manner.
- ✗ NEVER use your extractor without a filter.
- ✗ This is a dry dust machine. Do not use for liquid, hot debris, acids or solvents.
- ✗ This machine is not to be used, maintained or tampered with by children or people with reduced mental or physical capabilities unless instructed or supervised.
- ✗ This machine is not suitable for use with poisonous, combustible or explosive dust.
- ✗ Keep the machine, cable and accessories away from heat and sharp or abrasive materials.
- ✗ This machine must not be stored outside where it is exposed to the elements (sun, frost, rain, etc.).
- ✗ Never tow the machine by its cable.

---

THIS MACHINE HAS BEEN TESTED AND CERTIFIED M-CLASS SO THAT IT PROTECTS THE OPERATOR AND OTHER PEOPLE IN THE VICINITY FROM HARMFUL AIRBORNE DUST. PLEASE READ AND UNDERSTAND THE 'M-CLASS' INSTRUCTIONS TO GUARANTEE SUFFICIENT PROTECTION (PAGE 12)

---

FAILURE TO ADHERE TO THE ABOVE DIRECTIVES COULD LEAD TO DAMAGE OR HARM TO WHICH THE MANUFACTURER HAS NO RESPONSIBILITY

---

\*Contact V-TUF if you would like us to assist you with this.

# THE M-CLASS CERTIFICATION



## IMPORTANT POINTS TO READ AND UNDERSTAND BEFORE USE



THE V-TUF® M HAS BEEN DEVELOPED TO REDUCE FATAL LUNG DISEASES CAUSED BY EXPOSURE TO HARMFUL DUST. TO FACILITATE THE BEST POSSIBLE PROTECTION, YOU NEED TO ADHERE TO THE FOLLOWING REQUIREMENTS:

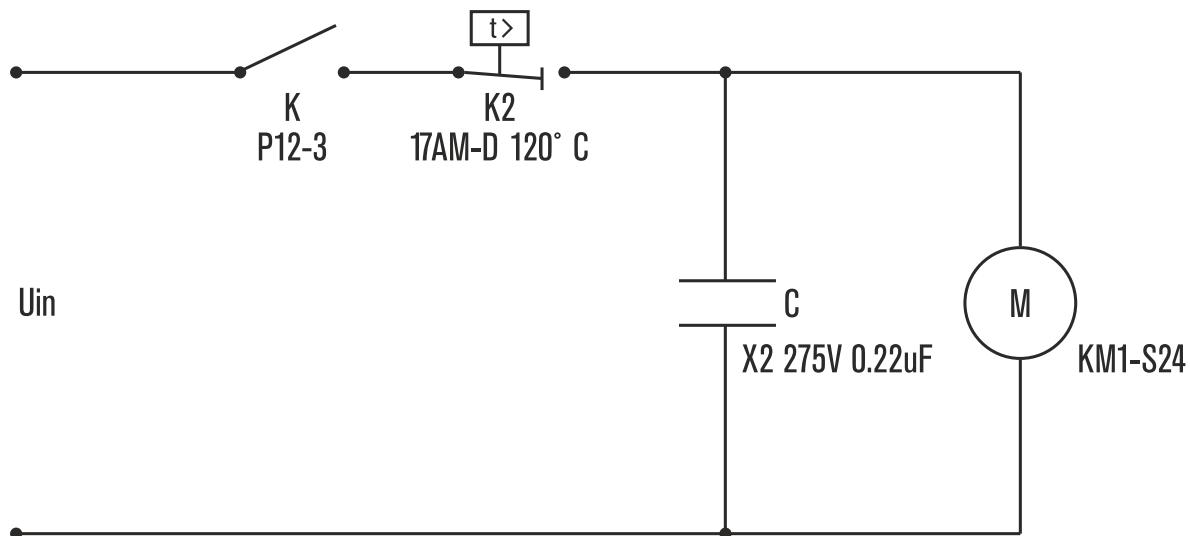
- 1 Your machine may become contaminated with harmful dust. Take appropriate action to avoid exposure when handling the machine. Waste must be disposed of in the correct manner.
- 2 Repairs and maintenance must be performed in an area that protects the operative from exposure and eliminates airborne dust.
- 3 Use a moist cloth to wipe dust rather than blowing with compressed air (unless you have a sufficient local exhaust ventilation system that protects the operator and sufficiently captures the dust).
- 4 Your machine will require a 14 month LEV test to ensure that its performance is maintained.
- 5 Testing methodology can be found in IEC 60335-2.69 Annex AA (AA22.201.2). This determines the filtration efficiency. If it fails. A new genuine filter must be fitted and the test repeated until it passes.
- 6 All repair work must always be carried out by competent, authorised personnel fitted with suitable personal protection and done in an area that will not cause risk to others.
- 7 The HEPA cartridge filter must be inspected for damage to the seal, cap and filter medium.
- 8 In cases where the HEPA filter has entrenched contamination, rinse with warm water and leave to dry before use. If this fails to remove contamination, replace with a new genuine filter part. This is extremely important to ensure that you get the sufficient level of protection.
- 9 Any part of the machine must be disposed of according to current regulations.
- 10 It is important to ensure that your extraction velocity remains above 20 metres per second. The Extraction Velocity Monitor will turn red to notify when you do not have sufficient extraction. To refresh your extraction velocity, leave the extraction on and press and hold the Filter Shaker button for 10 seconds. Let go and check if the monitor is clear, if not, replace the bag. If the monitor continues to show red, remove the filter and give it a deep clean.

### IMPORTANT POINTS TO NOTE WHEN REMOVING AND REFITTING THE HEPA FILTER:

Remove the head from the base and place upside down on a workbench. Undo the wingnut that secures the filter // Remove the contaminated HEPA filter dispose of in the correct manner // Ensure the seal around the filter retaining screw is in place. There must be no gaps or objects preventing an air tight seal // Replace the HEPA filter with a genuine, identical part // Refit the filter retaining wingnut until thumb tight (torque 1.5Nm) // Recheck that the seal is constant with no gaps or items preventing an airtight seal // Replace the bag // Reposition head on the base and lock all three head clamps.

# TROUBLESHOOTING

## WIRING DIAGRAM



## ERROR DETECTION AND TROUBLESHOOTING

Before you contact our service centre, please check the following:

PROBLEM	POSSIBLE REASON	ADVICE
Motor does not start	<ul style="list-style-type: none"> <li>- Power cord not firmly plugged into outlet</li> <li>- Outlet damaged</li> <li>- Cleaner not switched on</li> <li>- Start motor temperature protection</li> </ul>	<ul style="list-style-type: none"> <li>- Plug unit firmly</li> <li>- Check the outlet</li> <li>- Switch on the appliance</li> <li>- Wait ~30 minutes to restart the machine</li> </ul>
Suction power is weaker	<ul style="list-style-type: none"> <li>- Unit clogged</li> <li>- Dust filter needs cleaning</li> <li>- Dust container not in position</li> </ul>	<ul style="list-style-type: none"> <li>- Remove the blockage</li> <li>- Clean the dust filter</li> <li>- Reattach the dust container to the cleaner</li> </ul>

# WARRANTY, RETURNS AND REPAIRS

**V-TUF (CLEANING EQUIPMENT BRAND OF FENCO GROUP LTD.) WARRANTS TO THE CONSUMER THAT THIS PRODUCT WILL BE FREE OF MATERIAL OR ASSEMBLY DEFECTS FOR 1 YEAR.**

## WARRANTY PROMISE:

- **PLEASE NOTE:** This excludes wearing parts such as, hoses, floor heads, motor brushes etc. that wear out and need replacing within the normal working life of the machine.
- Warranty claims must be processed through the dealer from whom the machine was purchased. If you have any problems please contact V-TUF on the helpline number shown on the rear of this manual. Please have claim details and proof of receipt to hand.
- The warranty claim only covers the defective parts rather than the replacement of the whole machine.
- Warranty claims will need to be validated by the manufacturer's inspection of the faulty components. Where damage has been caused by misuse, wear & tear or abuse, V-TUF reserve the right to charge for the repair, transport or inspection costs.
- The warranty period commences from the purchase date.
- This warranty policy cannot be overridden by any dealer, or anyone involved in the sale of this product.

## RETURNS:

- Goods ordered incorrectly will be restocked with no charge V-TUF need to be notified within 5 working days and goods must be unused and in original condition and packaging. Transport and Carriage Charges, however, will apply.
- Goods wrongly supplied, will be collected within 48hours of notification. Free of charge.
- Please ensure that someone will be present at the collection address to meet the carrier. Normal collection times are between 8am and 5pm, Monday to Friday.

## REPLACEMENTS:

- We will collect all items classed as warranty. Valid warranty items will be repaired, or at the discretion of V-TUF, replaced free of charge. If, however, the failure is due to misuse, the repair will be chargeable. A report, stating the reason for the failure will be provided to minimise the possibility of repeated mishandling.
- If there is a policy to offer immediate 'Service Exchange' equipment to your customers, we recommend that an adequate pool of extra units of equipment be kept in stock, as warranty replacement units can only be sent out once the faulty units have been inspected by ourselves.

## REPAIRS:

- We are able to collect, repair and return any goods supplied by V-TUF. The charges are minimal when compared with the call out cost of an engineer. We commit ourselves to collect within 48hours and return the goods within 1 week of agreement to repair.

**PLEASE VALIDATE YOUR WARRANTY AT [WWW.V-TUF.COM](http://WWW.V-TUF.COM)**



# EU DECLARATION OF CONFORMITY



17

**MACHINE DESCRIPTION: VACUUM CLEANER****V-TUF® M-CLASS MINI LUNG SAFE DUST EXTRACTION VACUUM CLEANER****TYPE: V-TUF® M-CLASS MINI 110 and V-TUF® M-CLASS MINI 240****MANUFACTURED BY: V-TUF****THE OBJECT OF THE DECLARATION DESCRIBED ABOVE IS IN CONFORMITY WITH  
THE RELEVANT COMMUNITY HARMONISATION LEGISLATION:**

- THE EMC DIRECTIVE (2014/30/EU)
- AFPS GS 2014:01 PAK
- ROHS DIRECTIVE (2011/65/EU)
- LOW VOLTAGE DIRECTIVE (2014/35/EU)

**RELEVANT STANDARDS UPON WHICH CONFORMITY IS DECLARED INCLUDE:**

- EN60335-1:2012+AC:14+A11:14	- EN 60950-1:2006+A2:2013	- EN62233:2008	- EN61000-3-3:2013
- EN60335-2-2:2010+A11:12+A1:13	- EN 55022:2010	- EN55014-2:2015	
- EN55014-1:2006/+A1:2009/+A2:2011	- EN 55024:2010	- EN61000-3-2:2014	

**A TECHNICAL CONSTRUCTION FILE FOR THIS EQUIPMENT IS RETAINED AT THE MANUFACTURER'S ADDRESS  
UNDER THE AUTHORISATION OF THE FOLLOWING SIGNATORY:****NAME: EUGENE BUCHNER****POSITION: MANAGING DIRECTOR****SIGNED:****DATE: 01/03/2025****V-TUF**

**Fenco Group Ltd**  
T/A V-TUF|Unit 5 Chris  
Sharp Building|Till Bridge Lane  
| Scampton |LN1 2SX

**GB****PLEASE NOTE: The ENERG Data plate only applies to the 240 Volt (M-CLASS MINI 240) version as the 110 Volt ( M-CLASS MINI 110) version is exempt to this law.**

**V-TUF**

[www.V-TUF.COM](http://www.V-TUF.COM)