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Aeonmed VG70(E)

UK unboxing and setup instructions

Version 1.1



VG70



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Purpose of this Document

- To provide supplementary guidance (to that in the official manufacturers documentation) in the unboxing and setup of the VG70(E)
- To provide a mechanism for registering VG70(E) products into the UK Support & Warranty cover provided by Ortus Medical *

* Registration of product is required for any manufacturer backed support and warranty claims

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VG70(E) UK Packaging

The VG70(E) UK deliveries are packaged in two boxes:



Box 1 (Smaller)

- VG70(E) ICU Ventilator
- VG70(E) Consumables/Accessories box
- Dimensions (W x D x H) 81 x 69 x 115cm
- Gross Weight 25kg / Net weight 15kg

Box 2 (Larger)

- VG70(E) Trolley
- Dimensions (W x D x H) 64 x 54 x 94cm
- Gross Weight 40kg / Net weight 25kg

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Packing List / Inspection certificate

- Within **Box 1** is a Packing list and Inspection Certificate.
- Please check off each item delivered from the **Packing list** when unboxing.
- Item 23 is packaged in **Box 2**.
- For any deliveries with items missing; a copy of the **Packing list** and **Inspection certificate** will be required for warranty claims.

Example Inspection Certificate

AEOMED

PRODUCT QUALIFIED CERTIFICATE

Product Ventilator

Model VG70

Serial No. VG70(E)XZZV2100

Date of Inspection May 03 2020

Inspector Sanjivan Me

Example Packing list

AEOMED		AEON/QP13-R12				
Packing List						
Model	VG70 Ventilator (European Standard)	SN	VG70(2)XZZV2100			
Qty	1	Mfg. date	2020.5.3			
Pack/date	na j dom 2020.5.3	Inspect/date	Sanjivan Me 2020.5.3			
Standard List						
No.	PN	Name	Units	Qty	Affirm	Remark
1.	121000675	VG70 Ventilator Main Unit	PCS	1	1	
2.	130013843	VG70 user manual	PCS	1	1	
3.	210000188	Power cable	PCS	1	1	
4.	130000231	Valve diaphragm	PCS	2	2	
5.	130009651	Water Trap	PCS	1	1	
6.	130004093	Cover	PCS	1	1	
7.	130001347	One-way diaphragm	PCS	1	1	
8.	130010423	Fan filter	PCS	1	1	
9.	130004358	Filter Core	PCS	1	1	
10.	130003930	Filter	PCS	1	1	
11.	230000728	Nebulizer	PCS	1	1	
12.	210003734	Internal battery BRC2024	PCS	1	1	
13.	210001975	Oxygen sensor	PCS	1	1	
14.	210003856	Fuse T3.15A/250V	PCS	2	2	
15.	230000934	Adult breathing circuit kit	PCS	1	1	
16.	230000951	800-21001 Adult artificial lung	PCS	1	1	
17.	230001094	Face mask	PCS	1	1	
18.	230000952	800-51900-11 Bacterial filter	PCS	2	2	
19.	122006184	Oxygen inlet filter	PCS	1	1	
20.	482001193	Oxygen pipe line	PCS	1	1	
21.	130015084	End cover	PCS	1	1	
22.	240000474	Humidifier	PCS	1	1	
23.	122007662	Trolley component (220V)	PCS	1	1	
24.	240000030	Arm	PCS	1	1	
Attached file list						
1.		Qualified certificate	PCS	1	1	
2.		Packing list	PCS	1	1	



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Assembly Instructions – Step 1 – Trolley Assembly

1-A



1-B



1-C



1-D



- Unbox and remove packaging from the larger of the two boxes (**Box 2**) until the trolley as shown in photo **1-A**.
- The top of the trolley contains the ventilator mounting base plate. Unscrew the black locating screw from its transit position in photo **1-B** and re-insert from under the trolley base plate as shown in photo **1-C**.
- Ensure the threaded screw is flush with the trolley base plate as shown in photo **1-D** if this protrudes from the surface of the base plate, the installation of the ventilator is impossible.



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Assembly Instructions – Step 2 – Main unit attachment to trolley

2-A



2-B



2-C



2-D



- Unbox and remove the packaging from the smaller of the two boxes (**Box 1**) and separate into the three parts; Ventilator main unit, ventilator screen and the Accessories / Consumables box as shown in photo **2-A**.
- Unpack the main ventilator unit and place this on the trolley prepared in Step 1. Align the two locating pins on the base of the ventilator with the locating holes on the trolley base (photo **2-B**).
- Lower the ventilator main unit onto the trolley base such that it sits level as shown in Photo **2-C**. *Note that the front and rear of the unit is not flush at this point.*
- Push the ventilator main unit towards the front of the trolley such that the locating pins are locked in and the unit is flush with the trolley as shown in photo **2-D**. Then tighten the black locating screw thread as shown in photo **1-C**.



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Assembly Instructions – Step 3 – Screen Attachment to Main unit

3-A



3-B



3-C



- Remove the packaging from ventilator screen and place this on top of the main unit as shown in Photo **3-A**.
- Connect the ventilator screen display cable to the main unit and using a **Philips screwdriver** secure the cable with the small white cable clamp as shown in photo **3-B**.
- Locate the ventilator screen into the V shaped mounting slot on the main unit such that the screen stands in its operating position as show in photo **3-C**.



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Assembly Instructions – Step 4 – Battery Installation

4-A



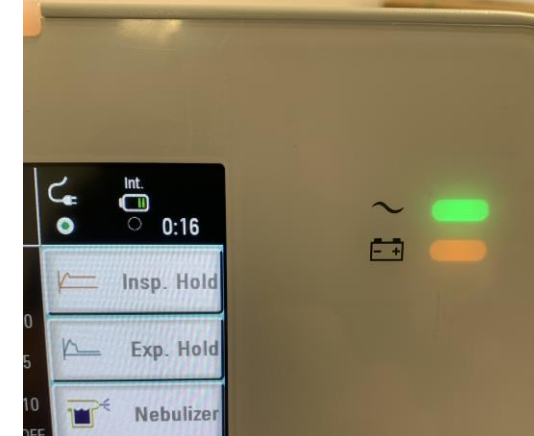
4-B



4-C



4-D



- Rotate the ventilator on its cart around, such that the rear of the main unit can be accessed and remove the 4 Philips screws holding the battery cover in place (photo **4-A**).
- Locate the Battery from the **accessories / consumables box**, it is packaged in a paperback sized brown box, remove the battery ready for installation (photo **4-B**).
- The Battery can then be inserted into either of the two slots, the photo **4-C** shows the battery in the left-hand slot, but this can be inserted in the right or an additional battery can be installed (not supplied). Once installed the cover can be re-attached with the screws.
- Once power is applied to the device (latter steps), the battery charging icon and battery status will appear on the front of the screen (photo **4-D**).



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Assembly Instructions – Step 5 – Hospital Oxygen Connection

5-A



5-B



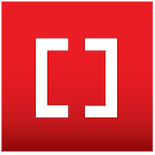
5-C



5-D



- Locate the Oxygen Inlet filter from the **accessories / consumables box**; this is contained in a plastic bag which should be removed (photo **5-A**).
- Install the Oxygen Inlet filter at the rear of the Ventilator main unit, tightening the threaded connector until hand tight against the oxygen inlet ensuring it is orientated as in photo **5-B**.
- Locate the Oxygen supply connection hose from the **accessories / consumables box**; this is supplied coiled with tie wraps that should be removed (photo **5-C**).
- The Oxygen supply connection hose can now be connected to the Ventilator and then connected to the local oxygen source as shown in photo **5-D**.



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Assembly Instructions – Step 6 – Power Supply Connection

6-A



6-B



6-C



6-D



- Locate the Two black power cords (1 x UK Mains Plug to IEC female connector and 1 x IEC female to IEC male connector) from within the **accessories / consumables box** and remove the cable ties (photo **6-A**).
- Connect the UK Mains Plug to IEC female connector to the bottom IEC male connection socket on the trolley side and the IEC female to IEC male connector to the top IEC female socket as shown in photo **6-B**.
- Connect the other end of the IEC male connector to the main ventilator module and using a **Philips screwdriver** secure the cable with the small white cable clamp as shown in photo **6-C**.
- The Unit can then be connected to the UK mains supply and powered on at the wall and on the back of the main unit behind the clear protective cover (photo **6-D**).



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Assembly Instructions – Step 7 – Setup of Arm for Patient Circuits

7-A



7-B



7-C



7-D



- Included in the **accessories / consumables box** is a Patient circuit support arm (large brown box) packaged as shown in photo **7-A**, and a small black hose mounting bracket also shown in photo **7-A**.
- Unpack the Arm from its box and connect the Arm screw thread to the base plate of the Ventilator trolley as shown photo **7-B**.
- Remove the plastic packaging from the black hose support bracket and install into the Arm as shown in photo **7-C**.
- The fully assembled Arm and hose support bracket should now look like photo **7-D**.



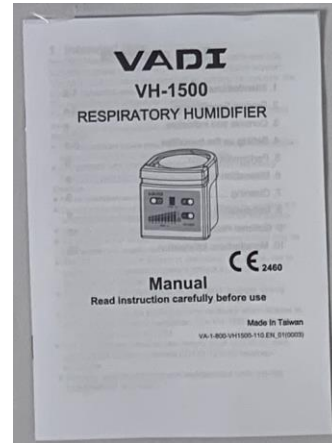
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Assembly Instructions – Step 8 – Setup of included Humidifier

8-A



8-B



8-C



8-D



- The VG70(E) is supplied with a Humidifier to ensure that it can be used out of the box to treat patients (the supplied configuration should be reviewed by local operators as it may lack features depending on intended use).
- The Humidifier included with the ventilator is supplied in the **accessories / consumables box** as shown on photos **8-A / 8-B**. It can be powered from the trolley using its supplied power cord. *Note for alternate Humidifiers power supply connections may differ.*
- To connect the Humidifier to the Trolley power, remove the metal cover mounting screws with a **Philips screwdriver** and install the power connector, then replace the cover as indicated in photo **8-C**.
- The humidifier can now be mounted on the trolley as shown in photo **8-D**.

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Assembly Instructions – Step 9 – Setup of included Patient Circuit

9-A



9-B



9-C



9-D



- The VG70(E) is supplied with a Reusable Patient circuit to ensure that it can be used out of the box to treat patients (the supplied configuration should be reviewed by local operators prior to us as it may not meet their requirements).
- The Patient Circuit, Test lung and CPAP Mask included with the ventilator is supplied in the **accessories / consumables box** and are shown packaged in photos **9-A / 9-B / 9-C**.
- The circuit consists of 5 legs and 2 water traps (photo **9-D**). Should the user decide to operate the machine without the humidifier, the double water trap circuit (4 Legs) can be connected directly to the ventilator.



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Annex A – Typical VG70(E) Accessory / Consumables box contents – Key components

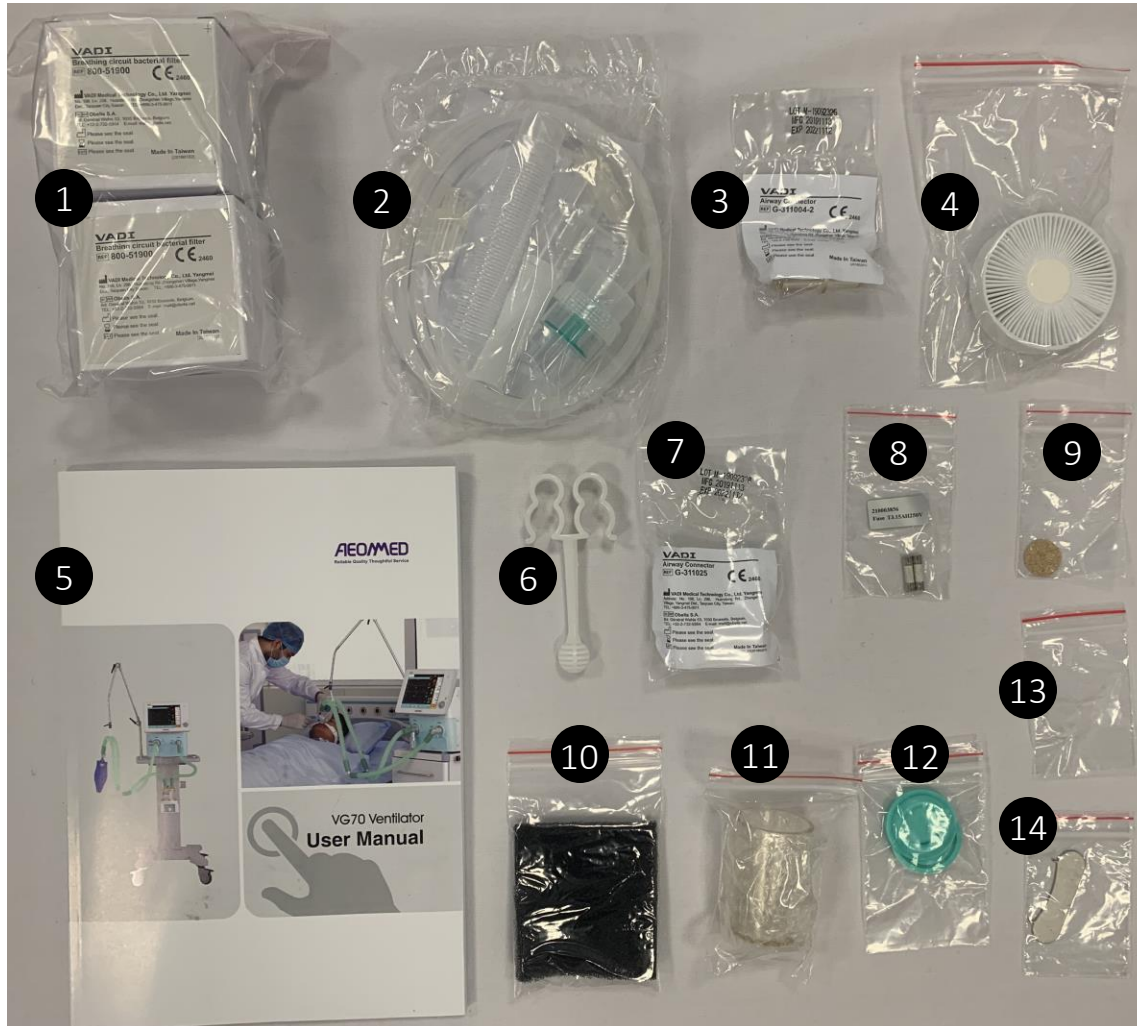


1. Humidifier
2. Arm for Patient circuit
3. Humidifier Chamber
4. Test Lung
5. Patient Hose Circuit
6. IEC female to IEC male connector
7. UK Mains Plug to IEC female connector
8. Circuit hose support bracket
9. Battery
10. Oxygen Inlet filter
11. Oxygen supply connection hose
12. CPAP Mask



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Annex B – Typical VG70(E) Accessory / Consumables box contents – Spares/Additional Items



1. 2 x Spare Breathing Bacterial Filters
2. Nebulizer set with tubing
3. Airway connector
4. Air Inlet Filter element
5. User Manual
6. Circuit hose support bracket (small)
7. Airway connector – right angle
8. 2 x Spare Fuse 3.15A / 250V
9. Oxygen Inlet sintered filter
10. Spare cotton fan filter
11. Spare water trap
12. 2 x spare expiratory valve seal
13. Expiratory valve one-way diaphragm
14. Expiratory valve seal removal tool

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Annex C - Product Acceptance Test Log Completion



VG70 Acceptance Test Log

Customer/ Organisation			
Date		Ticket Number	

Manufacturer/ Supplier		Service manual version	
Serial number		Asset number	

Software, firmware and configuration

Software version main		Config version	
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Paperwork	Pass	Fail	N/A	Remarks
1. Packaging undamaged	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Delivery note checks with order	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Goods check with delivery note	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. User manual supplied	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Warranty document included	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Final test certificate provided	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Visual & Physical Inspection Check	Pass	Fail	N/A	Remarks
1. Main unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Base / Trolley	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Accessories	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Functional Checks	Pass	Fail	N/A	Remarks
1. Pre-use self-test as per user manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Technical test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. AC/Battery test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Gas supply test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Oxygen sensor test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Leak test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Flow sensor test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Pressure sensor test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Safety valve test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. Patient circuit test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. CO ₂ sensor test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Electrical safety	Electrical class			Electrical type
	Pass	Fail	N/A	Test Results
1. Electrical safety test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Admin	Yes	No	N/A	Remarks
1. Time / date set	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Hours run	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Authorised person	Date	Signature

Once assembled in order to register the product please complete the **VG70 Acceptance log** and email a copy to medsupport@ortus.co.uk within 30 days

The VG70 Acceptance log (example left) can be downloaded here: <http://www.theortusgroup.com/vg70/>

The warranty provided with the VG70 is in line with the NHS Supply chain terms and conditions.

- Main Ventilator – 1 Year.
- Accessory Parts and Spares – 3 Months.
- All consumable and wear and tear parts are excluded from the warranty.

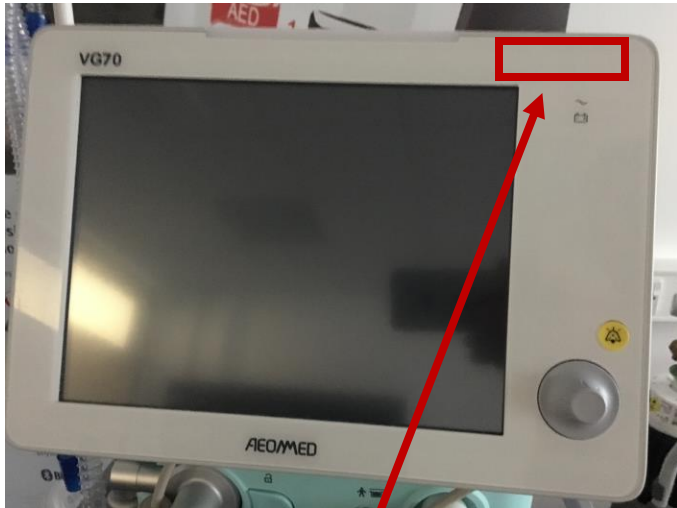




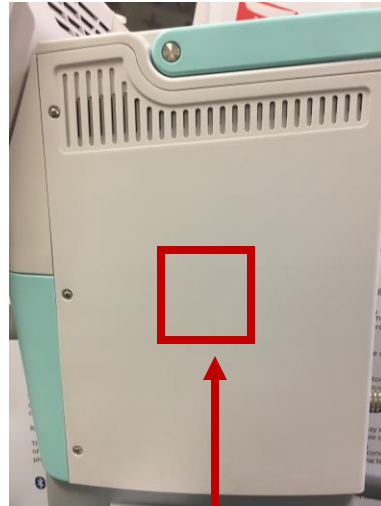
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Annex D – Servicing and Safety label application

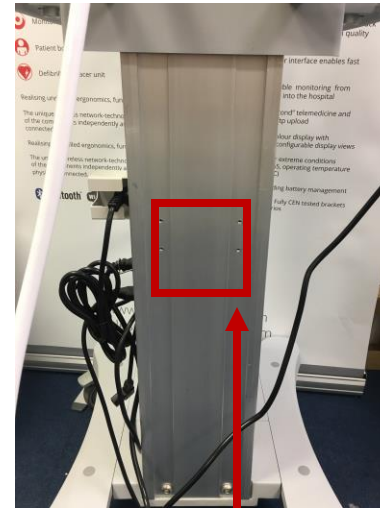
Please apply the labels in the accompanying envelope to the following locations on the device:



Monitor



Side panel



Rear of trolley



Humidifier

**DISCONNECT
FROM MAINS
WHEN NOT IN USE**

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theortusgroup.com
medsupport@ortus.co.uk
0845 459 4705
ISO 13485 / ISO 9001

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CARE

Front line medical support



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medsupport@ortus.co.uk
0845 459 4705

ISO 13485
ISO 9001

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