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<tr>
<td>Operator’s Manual</td>
<td>Provides detailed information about the setup and use of the HAMILTON-C6 ventilator.</td>
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<td>Communication Interface User Guide</td>
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<tr>
<td>Service Manual</td>
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<td>EMC Declarations Guide</td>
<td>Provides emissions and EMC-related safety and use information.</td>
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Be sure to read the documentation before using the device or accessories.

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Preface

Intended use of this guide

This Installation Guide provides step-by-step instructions on how to install the HAMILTON-C6 ventilator unit and its accessories efficiently and safely.

The HAMILTON-C6 Installation Guide is intended for hospital technicians, biomedical engineers, or certified service technicians/engineers only.

Conventions used in this guide

Safety messages are displayed as follows:

**WARNING**

A WARNING alerts the user to the possibility of injury, death, or other serious adverse reactions associated with the use or misuse of the device.

**CAUTION**

A CAUTION alerts the user to the possibility of a problem with the device associated with its use or misuse, such as device malfunction, device failure, damage to the device, or damage to other property.

**NOTICE**

A NOTICE emphasizes information of particular importance.

Intended use of this guide

The HAMILTON-C6 ventilator is intended to provide positive pressure ventilatory support to adults and pediatrics, and optionally infants and neonates.

Intended areas of use:

- Health care facilities
- During transfer of ventilated patients within health care facilities

The HAMILTON-C6 ventilator is a medical device intended for use by qualified, trained personnel under the direction of a physician and within the limits of its stated technical specifications.
## Document history

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<td>00</td>
<td>First release</td>
<td>August 2017</td>
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<tr>
<td>01</td>
<td>– Interaction panel mounting options: rail mount clamp option added</td>
<td>September 2017</td>
</tr>
<tr>
<td></td>
<td>– Testing and acceptance report added</td>
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<tr>
<td>02</td>
<td>– Combined shelf mount solution for IP, VU and tubing support arm with quick-lock added</td>
<td>October 2019</td>
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<td>– IP mounting options updated: VESA mount adapter plate added to VESA mount option</td>
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<td>– Trolley basket assembly added</td>
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HAMILTON-C6 Installation Guide
Ventilator Unit and Interaction Panel Overview

Components

A  Interaction Panel (IP) / monitor*

B  Ventilator Unit (VU)*

* Must be ordered separately with PN 160021.

Note: The ventilator power cable is country-specific. Order the power cable specific to the mains power outlet of your country.

A 3-meter (PN 160785) or a 10-meter (PN 160786) VU-IP cable is also available.

Safety information

**WARNING**

Turn off the VU and disconnect the power cable from the mains power supply before you start the installation. This will prevent possible electric shock or damage to the IP or the VU.

Tests and checks after installation

Electrical safety is not necessary after out of the box installation of HAMILTON-C6 ventilator unless this is required by the hospital’s protocol. However, we recommend that you do the electrical safety test if an internal component of the IP or the VU has been replaced after a repair or service, or when you install a communication board.

For additional details on electrical safety test and preoperational checks, refer to the HAMILTON-C6 Service Manual (PN 627038) and the HAMILTON-C6 Operator’s Manual (PN 624945).

Fill in the HAMILTON-C6 ventilator Testing and Acceptance Report after the initial installation.
Interaction Panel Overview

Front view of IP

1 Alarm lamp
2 Touchscreen display
3 Manual breath key
4 O2 enrichment key
5 Alarm silence key
6 Screen lock/unlock
7 Nebulizer key
8 Power/Standby key
9 Print screen key

Rear view of IP

10 Press-and-Turn (P&T) knob
11 Adjustment knob for IP tilt and swivel
12 Tilt and swivel mount assembly
13 IP mounting post
14 Lock/release button for IP mount
15 VU-IP cable (connected between IP and VU)
16 USB port
17 DVI signal output port (for training purpose only)
### Ventilator Unit Overview

#### Front view of VU

1. Status indicator panel
2. Flow sensor ports
3. Pneumatic nebulizer port
4. IntelliCuff port
5. Pes port
6. Communication board with CO2, SpO2, and, Aerogen® ports (optional) *
7. To patient port
8. From patient port
9. Expiratory valve set
10. Power/Standby button
11. IntelliCuff cuff tube

#### Rear view of VU

12. HAMILTON-H900 humidifier AC power output
13. HAMILTON-C6 ventilator AC power input
14. High-pressure oxygen port for DISS or NIST connector
15. USB port for IntelliCuff communication cable
16. LAN port (internal use only)
17. VU-IP cable (connected between IP and VU)
18. RS-232 ports: COM 1, COM 2, and COM 3 **
19. Nurse call port
20. IntelliCuff housing
21. Integrated IntelliCuff with communication cable and cuff tube
22. Potential equalization conductor

* When the communication board is not installed, this area is covered with a blank cover.

** COM 3 port is reserved only for HAMILTON-H900 humidifier communication cable.
Required tools

Allen key (size: 6 mm)

Components

A 1 x Trolley column
B 1 x Trolley base
C 4 x Hex socket cap screws, M8 x 45 mm
D 4 x Washers A2 stainless steel, 25 (OD) x 8.4 (ID) mm
E 1 x Hex socket cap screws, M6 x 50 mm*
F 2 x Hex socket cap screws, M6 x 14 mm*
G 2 x Slot-nuts*

* Screws and slot-nuts for mounting the HAMILTON-C6 ventilator unit on the trolley.

Note: See the Trolley Configuration Chapter for details on how to mount the ventilator unit on the trolley.

Safety information

WARNING

- The weight of the trolley package is 24 kg (53 lb). Two persons are necessary to lift the trolley or use an applicable lifting equipment.
- Do not put more than the permitted weight on the trolley. The maximum permitted weight (safe working load) on the trolley is 80 kg (176 lb).
How to assemble the HAMILTON-C6 ventilator trolley

1

2
HAMILTON-C6 Installation Guide
Trolley Solution Assembly

Required tools

- Slotted screwdriver (size: # 3 or # 4)
- Allen key (sizes: 5 mm and 6 mm)

Components

A  1 x Interaction Panel (IP) / monitor*

B  1 x Ventilator Unit (VU)*

C  1 x IP mounting kit (PN 160181)

Contains:

- C1 1 x IP mounting post
- C2 1 x Hex socket cap screw, M8 x 55 mm
- C3 1 x Dock washer, 32 (OD) x 9 (ID) x 7 (H) mm

* Not included. Must be ordered separately with PN 160021.

Note: See the Trolley Assembly Chapter for details on how to assemble the trolley.

The ventilator power cable is country-specific. Order the power cable specific to the mains power outlet of your country.

A VU-IP cable (PN 952300 (0.65 m), or PN 160785 (3 m), or PN 160786 (10 m)) is required for the installation. Not included.

Safety information

**WARNING**

The weight of the package for the IP and the VU with rail is 20 kg (44 lb). Two persons are necessary to lift the IP and the VU package or use an applicable lifting equipment.

Tests and checks after installation

Do an electrical safety test and preoperational check on the interaction panel (monitor) and the ventilator unit after the installation. For details, refer to the HAMILTON-C6 Service Manual (PN 627038) and the HAMILTON-C6 Operator’s Manual (PN 624945).
How to assemble the VU on the trolley column

1. 

2. 

3. 

4. 

5. 

6.
How to assemble the IP on the VU

1. Insert the IP into the VU.
2. Secure the IP with the supplied screws.
3. Connect the cables as per the instructions.
4. Adjust the position of the IP on the VU.
5. Test the connection to ensure proper operation.

Hamilton Medical | HAMILTON-C6 Trolley Solution Assembly
HAMILTON-C6 Installation Guide
Shelf Mount Solution Assembly

**Required tools**
Torx T20 screwdriver for cable clip assembly

**Components**

A  Interaction Panel (IP) / monitor*
B  Ventilator Unit (VU)*
C  IP stand
D  Ventilator power cable**
E  VU-IP cable (PN 952300)**
   Length: 65 cm (0.65 m)

* Not included. Must be ordered separately with PN 160021.
** Not included. Must be ordered separately.

Note: The ventilator power cable is country-specific. Order the power cable specific to the mains power outlet of your country.

A 3-meter (PN 160785) or a 10-meter (PN 160786) VU-IP cable is also available.

**Safety information**

**WARNING**
The weight of the IP with shelf-mount and the VU with shelf-mount package is 20.5 kg (45.2 lb). Two persons are necessary to lift the IP and the VU or use an applicable lifting equipment.

**CAUTION**
- The weight of the IP with shelf-mount is 10 kg (22 lb) and the weight of the VU with shelf-mount is 10.5 kg (23.15 lb).
- Assemble the interaction panel and the ventilator unit on a shelf that can support the combined weight (20.5 kg (45.2 lb)).

**Tests and checks after installation**
Do an electrical safety test and preoperational check on the interaction panel (monitor) and the ventilator unit after the installation. For details, refer to the HAMILTON-C6 Service Manual (PN 627038) and the HAMILTON-C6 Operator’s Manual (PN 624945).
How to assemble the IP, connect the VU-IP cable and the power cable

1. Assemble the IP
2. Connect the VU-IP cable
3. Connect the power cable
4. Secure the connections
5. Review the assembly
Required tools

- Slotted screwdriver (size: # 3 or # 4)
- Spanner/wrench: BS 13 mm or 1/2” AF
- Allen key (size: 5 mm and 6 mm)

Components

- A 1 x Interaction panel (IP) / monitor
- B 1 x Ventilator Unit (VU)
- C 1 x Hex socket cap screw, M8 x 55 mm
- D 1 x Dock washer, 32 (OD) x 9 (ID) x 7 (H) mm
- E 1 x IP mounting post
- F 1 x VU column
- G 4 x Countersunk hex socket screws for mounting VU, M8 x 20 mm
- H 1 x Tubing support arm with quick-lock socket set (PN 160153)
  - Contains:
    - H1 1 x Tubing support arm with quick-lock socket
    - H2 1 x Quick-lock socket
    - H3 1 x M8 washer
    - H4 1 x Hex bolt with reverse thread (fully threaded), M8 x 12 mm
- I 1 x M14 washer
- J 1 x Base plate
- K 1 x Hex socket cap screws, M6 x 50 mm
- L 2 x Hex socket cap screws, M6 x 14 mm
- M 2 x Slot-nuts

Safety information

**WARNING**

The weight of the package for the multishelf mount is 33 kg (73 lb). Two persons are necessary to lift the IP and the VU package or use an applicable lifting equipment.

**NOTICE**

The base plate (Item E) has two different mounting positions to mount the ventilator unit and the tubing support arm with quick-lock socket. This provides flexibility to orientate the position of the combined shelf mount assembly.

Tests and checks after installation

Do an electrical safety test and preoperational check on the interaction panel (monitor) and the ventilator unit after the installation. For details, refer to the HAMILTON-C6 Service Manual (PN 627038) and the HAMILTON-C6 Operator’s Manual (PN 624945).

Note: The ventilator power cable is country-specific. Order the power cable specific to the mains power outlet of your country.

- A VU-IP cable (PN 952300 (0.65 m), or PN 160785 (3 m), or PN 160786 (10 m)) is required for the installation. The VU-IP cable must be ordered separately.

* Not included. Must be ordered separately with PN 160021.
** Not included. Must be ordered separately.
*** Screws and slot-nuts for mounting the HAMILTON-C6 ventilator unit on the VU column.
Ventilator unit mounting kit:
How to assemble the VU, the IP, and the tubing support arm with quick-lock socket on the base plate

1. 
2. 
3. 
4. 
5. 
6.
Install the washers in this sequence: M14 washer (I), then M8 washer (H3).
Assembly configuration 1:
Combined shelf mount solution

Assembly configuration 2:
Combined shelf mount solution
HAMILTON-C6 Installation Guide
Interaction Panel Mounting Options

**Required tools**
Torx T15 screwdriver for VESA mount assembly

**Components**

**A** Interaction panel mounting clamp options:
- **A1** 1 x Handle mount clamp (PN 160782)
- **A2** 1 x Pole mount clamp (PN 160989)
- **A3** 1 x Rail mount clamp (PN 160890)

**B** 1 x VESA adapter plate (PN 10068879)

* A HAMILTON-C6 Trolley Solution (PN 160029) is required for the installation. Not included.
** A HAMILTON-C6 ventilator (PN 160021) is required for the installation. Not included.

**Note:** The interaction panel provides the interface for the VESA mount wall bracket assembly. VESA mount wall bracket is not included.

- A 3-meter (PN 160785) or a 10-meter (PN 160786) VU-IP cable is required for the pole mount, the rail mount, and the VESA mount. The VU-IP cable is not included.
- Clamp A1 must be ordered separately.
- Clamp A2 is included in the Pole Mount solution (PN 160031).
- Clamp A3 is included in the Rail Mount solution (PN 160032).

**Safety information**

**WARNING**
Turn off the VU and disconnect the power cable from the mains power supply before you start the installation. This will prevent possible electric shock or damage to the IP or the VU.

**CAUTION**
Disconnect the VU-IP cable from the rear of the IP and the rear of the VU before you start the installation if connected.

**Tests and checks after installation**
Do an electrical safety test and preoperational check on the interaction panel (monitor) and the ventilator unit after the installation. For details, refer to the HAMILTON-C6 Service Manual (PN 627038) and the HAMILTON-C6 Operator’s Manual (PN 624945).
How to mount the IP on the VU handle

1. Move the swivel-mount assembly to the right side of the VU handle.
2. Turn the swivel-mount assembly 180° clockwise.
3. Secure the IP at the bottom of the screen holder.
How to mount the IP to a pole

Note: The maximum pole diameter recommended for the pole mount clamp is 40 mm.

How to mount the IP to a standard rail
How to mount the VESA mount bracket on the rear of the IP

**CAUTION**

The maximum length of the recommended screws for mounting the VESA mount bracket on the rear of the IP must not be more than 20 mm.

**NOTICE**

VESA mount specification:
- VESA mount bracket thickness: maximum of 2 mm
- VESA mount bracket screw holes dimensions: 100 mm (L) x 100 mm (H)
- Recommended screws: 4 x Hex socket head cap screws, thus M4 x 15 mm + [thickness (x mm)] of the VESA mount bracket

1. Remove the swivel-mount assembly
2. Install the VESA adapter plate
3. Install the VESA mount bracket
**Required tools**

- Slotted screwdriver (size: # 2)
- Torx T15 screwdriver

**Components**

A  1 x Ventilator Unit-Interaction Panel (VU-IP) cable
   Available lengths: 3 m (PN 160785) or 10 m (PN 160786)
B  1 x Cablewrap (PN 160936)
C  2 x Blanking covers
D  2 x Torx screws, M4 x 6 mm

*Note: A HAMILTON-C-6 ventilator (PN 160021) is required for the installation. Not included.*

**Safety information**

**WARNING**

Turn off the VU and disconnect the power cable from the mains power supply before you start the installation. This will prevent possible electric shock or damage to the IP or the VU.

**Tests and checks after installation**

Do an electrical safety test and preoperational check on the interaction panel (monitor) and the ventilator unit after the installation. For details, refer to the HAMILTON-C6 Service Manual (PN 627038) and the HAMILTON-C6 Operator’s Manual (PN 624945).
How to assemble the cablewrap
HAMILTON-C6 Installation Guide
Communication Board Assembly

Required tools

- Slotted screwdriver (size: #1)
- Torx T10 screwdriver

Components

**A** Communication board:
- **A1** 1 x CO2, SpO2, and Aerogen® (PN 160184)
  Or
- **A2** 1 x CO2 and SpO2 (PN 160185)

**B** 2 x Torx screws, M3 x 8 mm

Note: A HAMILTON-C6 ventilator (PN 160021) is required for the installation. Not included.

Safety information

**WARNING**

Turn off the VU and disconnect the power cable from the mains power supply before you start the installation. This will prevent possible electric shock or damage to the VU or the communication board.

**CAUTION**

*Use an applicable electrostatic discharge (ESD) device such as ESD wrist strap to equalize your body’s charge with the ventilator unit’s charge before you start the installation. This will help protect the electronic components of the ventilator unit and the communication board from ESD damage.*

Tests and checks after installation

Hamilton Medical recommends that you do an electrical safety test and preoperational checks on the communication board and the ventilator unit after the installation. For details, refer to the HAMILTON-C6 Service Manual (PN 627038) and the HAMILTON-C6 Operator’s Manual (PN 624945).
How to assemble the communication board

1. Insert the Flexible Flat Cable (FFC) into the connector.

2. Secure the FFC by locking the connector.

3. Unlock the connector to release the FFC.

4. Lock the connector again.

5. Align the communication board with the housing.

6. Insert the communication board into the ventilator housing.

Note: The FFC must be inserted into the connector with the silver contact surface up.

Note: Make sure that the FFC does not fold or bend while you insert the communication board into the ventilator housing.
HAMILTON-C6 Installation Guide
IntelliCuff Integration Kit Assembly

Required tools
Slotted screwdriver (size: # 3 or # 4)

Components
A 1 x Cuff tubing
B 1 x USB communication cable
C 1 x IntelliCuff retaining plate (PN 160834)

Note: A HAMILTON-C6 ventilator (PN 160021) is required for the installation. Not included.
IntelliCuff pressure controller (PN 951001) is required for the installation. Not included. Must be ordered separately.
IntelliCuff control (software license key (PN 160766)) is required for the installation. Not included. Must be ordered separately.

Safety information

⚠️ CAUTION

- Do not put batteries in the IntelliCuff battery compartment as the USB communication cable provides electrical power to the IntelliCuff through the VU.
- Remove the preinstalled batteries from the IntelliCuff battery compartment before you install the IntelliCuff in the rear of the VU. This will prevent possible damage to the IntelliCuff.

Tests and checks after installation
Do an electrical safety test and preoperational check on the ventilator unit after the installation. For details, refer to the HAMILTON-C6 Service Manual (PN 627038) and the HAMILTON-C6 Operator’s Manual (PN 624945).
How to assemble the IntelliCuff integration kit

1. 
2. 
3. 
4. 
5. 
6.
Power Output
100-240VAC
50/60Hz
max: 275VA
HAMILTON-H900 only

Power Input
100-240VAC
50/60Hz
typ: 60VA
max.: 485VA

O2
2.8 to 6bar
280 to 600 kPa
41 to 87 psi
Vmax: 200 L/min

IntelliCuff COM1 COM2 COM3
WARNING: Do not obstruct
Nurse Call

SN
Required tools

- Slotted screwdriver (size: #3 or #4)
- Torx T6 screwdriver

Components

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<td>1 x Paramagnetic O2 sensor (PN 160169)</td>
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<tr>
<td>B</td>
<td>1 x O-ring</td>
</tr>
<tr>
<td>C</td>
<td>1 x Paramagnetic O2 sensor mounting adapter</td>
</tr>
<tr>
<td>D</td>
<td>4 x Countersunk head Torx screws, M2 x 5 mm (PN PN 420658)*</td>
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<td>E</td>
<td>4 x Lens head Torx screws, M2 x 5 mm (PN 420393)**</td>
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<td>F</td>
<td>4 x Delta PT® button head Torx screws, M2.2 x 8 mm (PN 420902 )***</td>
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* Screws for mounting adapter to paramagnetic O2 sensor.
** Screws for mounting the paramagnetic O2 sensor to mounting plate with metal threaded screw holes.
*** Screws for mounting the paramagnetic O2 sensor to mounting plate with threaded screw holes in the plastic.

Note: A HAMILTON-C-6 ventilator (PN 160021) is required for the installation. Not included.

Safety information

**WARNING**

Turn off the VU and disconnect the power cable from the mains power supply before you start the installation. This will prevent possible electric shock or damage to the VU or the O2 sensor.

**CAUTION**

Identify the thread type of the mounting plate, then use the specified screws for the applicable thread, to mount the paramagnetic O2 sensor to the mounting plate. If you use the incorrect screws to mount the paramagnetic O2 sensor, this can cause damage to the mounting plate.

**NOTICE**

- The cable for the paramagnetic O2 sensor connector is preinstalled and stowed above the sensor compartment.
- Stow the connector cable for the galvanic O2 sensor above the sensor compartment after the removal of the galvanic O2 sensor.

Tests and checks after installation

Do an electrical safety test and preoperational check on the ventilator unit after the installation. For details, refer to the HAMILTON-C6 Service Manual (PN 627038) and the HAMILTON-C6 Operator’s Manual (PN 624945).
How to assemble the paramagnetic O2 sensor

1. 
2. 
3. 
4. 
5. 
6.
Note: The cable for the paramagnetic O2 sensor connector is preinstalled in the sensor compartment.

Note: Installation of paramagnetic O2 sensor with Lens head Torx screws (Item E) for mounting plate with metal threaded screw holes.

Note: 1. Mounting plate with threaded screw holes in the plastic. 2. Mounting plate with metal threaded screw holes.
**Required tools**

- Allen key (size: 4 mm)
- Spanner/wrench: BS 8 mm or 5/16” AF

**Components**

**A** 1 x HAMILTON-H900 integration kit (PN 160783)
- Contains:
  - **A1**: 1 x Power cable
  - **A2**: 1 x Humidifier communication cable (RS232 DB9 serial adapter /5-pin DIN male plug)

**B** 1 x HAMILTON-H900 mounting kit (PN 160969)
- Contains:
  - **B1**: 1 x Hex socket cap screw, M8 x 12 mm
  - **B2**: 1 x Trolley mounting bracket
  - **B3**: 1 x M6 slot-nut
  - **B4**: 1 x Knurled head thumb screw, M6 x 16 mm
  - **B5**: 1 x M6 countersunk washer
- Mounting kit for third-party humidifier:
  - **B6**: 1 x Mounting bracket
  - **B7**: 2 x Hex socket countersunk screws, M5 x 12 mm

**Note**: A HAMILTON-C6 Trolley Configuration (PN 160029) is required for the installation. Not included.

**Safety information**

**WARNING**

Turn off the VU and disconnect the power cable from the mains power supply before you start the installation. This will prevent possible electric shock or damage to the VU.

**Tests and checks after installation**

Do an electrical safety test and preoperational check on the HAMILTON-H900 (humidifier) and the ventilator unit after the installation. For details, refer to the HAMILTON-C6 Service Manual (PN 627038) and the HAMILTON-C6 Operator’s Manual (PN 624945).
How to assemble the HAMILTON-H900 integration kit

1. [Diagram of step 1]
2. [Diagram of step 2]
3. [Diagram of step 3]
4. [Diagram of step 4]
5. [Diagram of step 5]
How to assemble the mounting bracket for third-party humidifier

To attach the third-party bracket to the trolley mounting bracket:

1. Remove the two dome-head hex nuts, the two washers, the two hex socket cap screws, and the HAMILTON-H900 mounting bracket from the trolley mounting bracket.

2. Use the two dome-head hex nuts and the two washers removed from the HAMILTON-H900 mounting bracket, and the two hex socket screws (Item B7) to mount the third-party bracket to the trolley mounting bracket.

1. Removal of the HAMILTON-H900 mounting bracket from the trolley mounting bracket

2. Install the third-party humidifier bracket on the trolley mounting bracket
Required tools

Torx T10 screwdriver

Components

A  High-pressure oxygen connector:
   1 x DISS connector (PN 160470)
   Or
   1 x NIST connector (PN 160471)

B  2 x Torx screws, M3 x 10 mm

* NIST connector (PN 160471) image shown in overview below.

Note: A HAMILTON-C6 ventilator (PN 160021) is required for the installation. Not included.

Safety information

⚠️ WARNING

Turn off the VU and disconnect the power cable from the mains power supply before you start the installation. This will prevent possible electric shock or damage to the VU.

NOTICE

The installation for the DISS connector (PN 160470) and the NIST connector (PN 160471) are the same.

Tests and checks after installation

After the installation, connect a high-pressure oxygen hose to the DISS or NIST connector to check for leakage.
How to assemble the DISS/NIST connector

1. Insert the DISS/NIST connector into the port.
2. Secure the connector with the provided bolts.
3. Ensure the connector is tightly fitted and flush with the port.
**Required tools**

Spanner/wrench: BS 13 mm or 1/2” AF

**Components**

A 1 x Water bottle holder with quick-lock (PN 160162)

B 1 x Quick-lock socket set (PN 160154)*

Contains:

B1 1 x Quick-lock socket

B2 1 x M8 washer

B2 1 x Hex bolt, reverse thread (fully threaded), M8 x 12 mm

* Not included. The quick-lock socket set (PN 160154) and the water bottle holder with quick-lock must be ordered separately to complete the assembly.

**Note:** A HAMILTON-C6 Trolley Configuration (PN 160029) is required for the installation. Not included.

**Safety information**

**CAUTION**

Lock the trolley wheel brakes before you start the installation.

**NOTICE**

You can mount the water bottle holder with quick-lock on the left or right side of the ventilator unit handle.
How to assemble the water bottle holder with quick-lock

1. Insert the holder into the hole.
2. Use the wrench to tighten the screw.
3. Adjust the holder to the desired position.
4. Place the water bottle into the holder.
Required tools

- Spanner/wrench: BS 13 mm or 1/2” AF

Components

A  1 x Plastic tubing holder, double (PN 281673)
B  1 x Tubing support arm with quick-lock (PN 160153)
C  1 x Quick-lock socket
D  1 x M8 washer
E  1 x Hex bolt, reverse thread (fully threaded), M8 x 12 mm

*Note: A HAMILTON-C6 ventilator (Trolley Configuration PN 160029) is required for the installation. Not included.*

Safety information

⚠️ CAUTION

Lock the trolley wheel brakes before you start the installation.

NOTICE

You can mount the tubing support arm with quick-lock on the left or right side of the ventilator unit handle.
How to assemble the tubing support arm with quick-lock

1. Insert the tubing support arm into the base.
2. Tighten the quick-lock nuts using the wrench.
3. Adjust the angle of the tubing support arm.
4. Connect the tubing to the support arm.
HAMILTON-C6 Installation Guide
Support Arm with Quick-positioning Assembly

Required tools
No tools required

Components
A Support arm with:
1 x quick-positioning (PN 281533)’
Includes:
1 x Double tubing holder, aluminium (PN 281910)
1 x Single tubing holder, plastic (PN 281674)

Or
1 x quick-positioning basic (PN 281671)
Includes:
1 x Double tubing holder, plastic (PN 281673)

* Support arm with quick-positioning (PN 281533) image shown in overview below.

Note: A HAMILTON-C6 Trolley Configuration (PN 160029) is required for the installation. Not included.

Safety information

CAUTION
Lock the trolley wheel brakes before you start the installation.

NOTICE
• The installation for the support arm with quick-positioning (PN 281533) and support arm with quick-positioning basic (PN 281671) are the same.
• You can mount the support arm with quick positioning on the left or right side of the ventilator unit.
How to assemble the support arm with quick-positioning
HAMILTON-C6 Installation Guide
O2 Cylinder Holder Bracket Assembly

REF 160971

Required tools
No tools required

Components
A 2 x O2 cylinder holder brackets (PN 160135)
B 4 x Velcro straps
  Dimension: 550 mm (L) x 50 mm (W)
C 2 x Slot-nuts
D 2 x M6 countersunk washers
E 2 x Knurled head thumb screws, M6 x 16 mm

Note: A HAMILTON-C6 Trolley Configuration (PN 160029) is required for the installation
Not included.

Safety information

⚠️ CAUTION
- Lock the trolley wheel brakes before you start the installation.
- The O2 cylinder holder brackets must be mounted on the left side of the trolley column.
How to assemble the O2 cylinder holder bracket

1. 

2. 

3. 

4.
Safety information

**CAUTION**

*Lock the trolley wheel brakes before you start the installation.*

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**Required tools**

- Allen key (size: 5 mm)

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**Components**

- **A** 1 x Trolley basket with cover (PN 160116)
- **B** 1 x Mounting bracket (PN 160113)
- **C** 2 x Slot-nuts
- **D** 2 x Hex socket cap screws, M6 x 12 mm

*Note:* A HAMILTON-C6 Trolley Configuration (PN 160029) is required for the installation. Not included.
How to assemble the basket

1. Insert the basket into the side of the cart.
2. Secure the basket with the included fasteners.
3. Adjust the height of the basket as needed.

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HAMILTON-C6 Installation Guide
Oxygen Supply Hose Hanger Assembly

Required tools
No tools required

Components
A  1 x Oxygen supply hose hanger (PN 160118)
B  2 x Standard rail clips for accessories
cables (PN 361104)

Note: A HAMILTON-C6 Trolley Configuration (N 160029) is required
for the installation. Not included.

Safety information

⚠️ CAUTION

Lock the trolley wheel brakes before you start the installation.
How to assemble the oxygen supply hose hanger

1

2

3

4

5
### Required tools

No tools required

### Safety information

⚠️ **CAUTION**

Attach the option sticker only if the option is installed on the ventilator unit.

### Options stickers

- **A** 1 x INTELLiVENT-ASV option sticker
- **B** 1 x Integrated IntelliCuff option sticker
- **C** 1 x IntelliSync+ option sticker
- **D** 1 x Patient group (neonate, paediatric, and adult) option sticker
- **E** 1 x Patient group (paediatric and adult) option sticker
- **F** 1 x PAV Tool Pro option sticker
How to attach the options stickers on the VU
HAMILTON-C6 Ventilator – Testing and Acceptance Report for Initial Installation

Do the following tests and checks after the initial installation of the HAMILTON-C6 ventilator:

<table>
<thead>
<tr>
<th>Task/Check</th>
<th>Verify or observe...</th>
<th>HAMILTON-C6 ventilator Manual Ref.</th>
<th>Task status:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check that the IP-VU cable is connected correctly to the IP and VU.</td>
<td></td>
<td>See the Installation Guide (PN 627075), Chapter 4.</td>
<td>□ □</td>
</tr>
<tr>
<td>Check that the DISS or NIST connector is installed and a high oxygen supply hose is connected.</td>
<td></td>
<td>The gas hose connection is leak-tight. See the Installation Guide (PN 627075), Chapter 12 and the Operator’s Manual (PN 624945), Chapter 3 Preparing the ventilator.</td>
<td>□ □</td>
</tr>
<tr>
<td>Check that the ventilator battery is installed.</td>
<td></td>
<td>See the Installation Guide, Chapter 10.</td>
<td>□ □</td>
</tr>
<tr>
<td>Connect the breathing circuits.</td>
<td>The breathing circuits are assembled correctly. See the Operator’s Manual (PN 624945), Chapter 3 Preparing the ventilator.</td>
<td>□ □</td>
<td></td>
</tr>
<tr>
<td>Connect the VU power cable to an AC power socket.</td>
<td></td>
<td>See the Operator’s Manual (PN 624945), Chapter 3 Preparing the ventilator.</td>
<td>□ □</td>
</tr>
<tr>
<td>Do a functional check on the VU and the IP power cycle (on and off): Note: Wait for the VU to complete the start up or shut down process for each power cycle.</td>
<td>During the startup process, the IP alarm lamp flashes red, yellow, and blue followed by a short sound for the speaker test and a beep for the buzzer test.</td>
<td>□ □</td>
<td></td>
</tr>
<tr>
<td>• Turn on, then turn off the VU with the push-button switch: push and release the switch on the rear of the VU.</td>
<td></td>
<td>See the Operator’s Manual (PN 624945), Chapter 3 Preparing the ventilator.</td>
<td>□ □</td>
</tr>
<tr>
<td>• Turn on, then turn off the IP with the Power/Standby key: press and release the Power/Standby key on the lower front of the IP.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Set the date and time.</td>
<td></td>
<td>See the Operator’s Manual (PN 624945), Chapter 10 Ventilation settings and functions.</td>
<td>□ □</td>
</tr>
<tr>
<td>Task/Check</td>
<td>Verify or observe…</td>
<td>HAMILTON-C6 ventilator Manual Ref.</td>
<td>Task status:</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Select the desired language for the user interface.</td>
<td>Verify that information on the display is shown in the selected language.</td>
<td>See the Operator’s Manual, (PN 624945), Chapter 14 Configuration</td>
<td></td>
</tr>
<tr>
<td>Do the tightness test, then calibrate the flow sensor.</td>
<td>The tightness test passes: all breathing circuits’ connections are leak-tight. The flow calibration is successful.</td>
<td>See the Operator’s Manual (PN 624945), Chapter 5 Specifying ventilation settings.</td>
<td></td>
</tr>
<tr>
<td>Calibrate the oxygen sensor.</td>
<td></td>
<td>See the Operator’s Manual (PN 624945), Chapter 5 Specifying ventilation settings.</td>
<td></td>
</tr>
<tr>
<td>Do a functional check on the communication board:</td>
<td></td>
<td>See the Operator’s Manual (PN 624945), Chapter 14 Configuration and the Communication board User Guide.</td>
<td></td>
</tr>
<tr>
<td>Simulate the loss of external power (AC) alarm test.</td>
<td>The loss of external power alarm is generated and that the ventilator is powered by its backup battery.</td>
<td>See the Operator’s Manual, (PN 624945), Chapter 5 Specifying ventilation settings.</td>
<td></td>
</tr>
<tr>
<td>Reconnect the VU power cable to the AC power socket.</td>
<td>The alarm resets and the ventilator is powered again by the AC power.</td>
<td>See the Operator’s Manual, (PN 624945), Chapter 5 Specifying ventilation settings.</td>
<td></td>
</tr>
<tr>
<td>Check that the IntelliCuff is setup correctly if installed.</td>
<td></td>
<td>See the Installation Guide (PN 627075), Chapter 8 and the Operator’s Manual (PN 624945), Chapter 4 Setting up external devices and sensors.</td>
<td></td>
</tr>
<tr>
<td>Check that the HAMILTON-H900 humidifier is setup correctly if installed.</td>
<td></td>
<td>See the Installation Guide (PN 627075), Chapter 9 and the Operator’s Manual (PN 624945), Chapter 4 Setting up external devices and sensors.</td>
<td></td>
</tr>
</tbody>
</table>

**Initial installation tests and checks**

If the HAMILTON-C6 ventilator does not pass the *initial installation tests and checks*, contact your local Hamilton Medical representative or Hamilton Medical’s technical support for assistance.

**Note:**

After you have completed the *Initial Installation Testing and Acceptance Report* for the HAMILTON-C6 ventilator, please send a copy of the report to your local Hamilton Medical representative or Hamilton Medical (techsupport@hamilton-medical.com), and save/archive the original report for your records.

**Remarks:**

____________________________________________________________________________________________________
____________________________________________________________________________________________________
____________________________________________________________________________________________________
____________________________________________________________________________________________________
____________________________________________________________________________________________________

Date (YYYY/MM/DD): __ __ __ __/ __ __/ __ __

Signature: __________________________________________