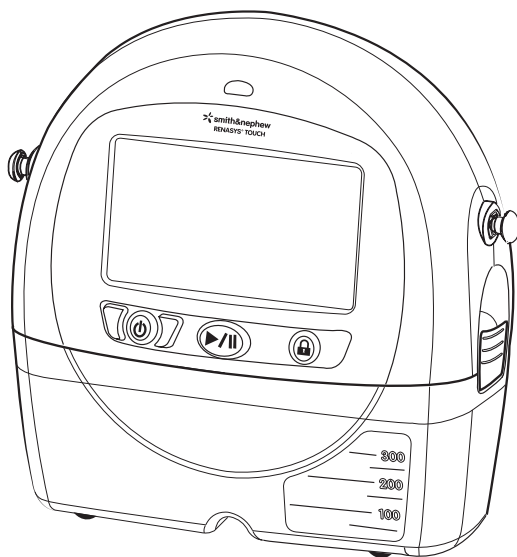


Smith+Nephew

RENASYS[®] TOUCH

Negative Pressure Wound
Therapy Pump



Military Clinician
User Manual

REF 66802134

Rx only

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Introduction

This user manual contains important information regarding the safe and effective operation of the RENASYS[®] TOUCH Negative Pressure Wound Therapy (NPWT) Pump (REF 66802134). This pump is intended for use by or on the direction of a trained and qualified clinician. This manual is intended to aid in the training of personnel and to provide a reference for experienced users. Also included are instructions for operating pump, preventive maintenance, cleaning and return. The RENASYS TOUCH Pump is intended for use in acute care settings and other professional healthcare environments where product use is conducted by or under the supervision of a qualified clinician. The RENASYS TOUCH Pump is also intended for use in residential settings and nursing homes where product use is conducted by or under the direction of a qualified clinician.

To ensure the pump is safe for use in residential settings, the pump is compliant with the IEC medical equipment and medical electrical safety standard 60601-1-11 for use of medical devices in the home healthcare environment. This standard includes the use of a double insulated Class II power supply (REF 66801286) and Class II power cord.

Important Information

Monitoring Negative Pressure Wound Therapy

Carefully monitor the patient, RENASYS Pump, and dressing frequently to determine if there are any signs of bleeding, exudate accumulation (pooling), infection, maceration, or loss of Negative Pressure Wound Therapy (NPWT). The frequency should be determined by the clinician based on individual characteristics of the patient and wound. NPWT pumps are not designed to detect or issue an alarm condition based on the presence of bleeding or pooling. These conditions may only be detected by frequent monitoring.

Special attention to the risks of bleeding or loss of NPWT should be considered when prescribing for use in the Home Environment.

NPWT may be impacted by various conditions related to system configuration, set-up and individual characteristics of the patient and wound (e.g. exudate characteristics, patient anatomy). Alignment of the port to the opening in the drape, use of a bridging technique and choice of dressing configuration based on wound characteristics may impact NPWT vacuum delivery over the course of therapy. Exudate volume, viscosity and consistency may influence fluid removal or occlusion formation. A full canister, incorrect pump orientation and pump/tubing height relative to the wound can contribute to loss of NPWT and exudate

accumulation within the wound, which could lead to maceration, infection, or unrecognized bleeding.

Monitor the wound for infection and ensure that all wound filler is removed at each dressing change to reduce the risk of infection.

Skin grafts should be closely monitored to ensure NPWT is being delivered.

Review Contraindications, Warnings & Precautions before use.

Indications for use

The RENASYS TOUCH Pump is indicated for patients who would benefit from a suction pump (Negative Pressure Wound Therapy), as it may promote wound healing via removal of fluids, including irrigation and body fluids, wound exudates and infectious materials.

Appropriate wound types include:

- Chronic
- Acute
- Traumatic
- Sub-Acute and dehiscent wounds
- Ulcers (such as pressure or diabetic)
- Partial-thickness burns
- Flaps
- Grafts

When used with the RENASYS AB Abdominal Dressing Kit with Soft Port, the RENASYS TOUCH Pump is indicated for temporary bridging of abdominal wall openings where primary closure is not possible and/or repeat abdominal entries are necessary. It is intended to be used in open abdominal wounds with exposed viscera, including but not limited to abdominal compartment syndrome. The use of the RENASYS AB Abdominal Dressing Kit is intended for use in acute hospital care settings (trauma, general and plastic surgery wards) and should ideally be applied in the operating theatre.

Contraindications

Use of the RENASYS TOUCH Pump is contraindicated in the presence of:

- Untreated osteomyelitis
- Exposed arteries, veins, organs or nerves
- Necrotic tissue with eschar present
- Malignancy in wound (with exception of palliative care to enhance quality of life)
- Non-enteric and unexplored fistulas
- Exposed anastomotic sites

Warnings

1. Carefully monitor patients for signs of bleeding, which may lead to interruption in therapy and haemodynamic instability. If such symptoms are observed, immediately discontinue therapy, take appropriate measures to control bleeding, and contact treating clinician.
2. Patients suffering from difficult hemostasis or who are receiving anticoagulant therapy have an increased risk of bleeding. During therapy, avoid using hemostatic products that, if disrupted, may increase the risk of bleeding.
3. Do not use directly on exposed blood vessels or organs. Sharp edges such as bone fragments must be covered or removed prior to initiating therapy, due to risk of puncturing organs or blood vessels drawn closer under the action of negative pressure.
4. Patient size and weight should be considered when prescribing the therapy, particularly in paediatric use.
5. In the event defibrillation is required, disconnect the pump from wound dressing prior to defibrillation. Remove wound dressing only if its location will interfere with defibrillation.
6. Pump is not MRI compatible. Do not bring pump into MRI suite. Prior to entering MRI suite, disconnect the pump from dressing. Dressing can remain on patient.
7. Pump is unsuitable for use in areas where there is danger of explosion (e.g. hyperbaric oxygen unit).
8. Do not use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
9. When operating, transporting or disposing of pump and accessories, there is risk of infectious liquids being aspirated or contamination of pump assembly through incorrect use. Universal precautions should be observed whenever working with potentially contaminated components or equipment.
10. Pump and canisters are provided non-sterile and should not be placed within a sterile field.
11. When using a RENASYS[®] Y-Connector the system will only detect a blockage if both connections are blocked.
12. Underlying structures, such as bone, tendons, ligaments and nerves should be covered with natural tissue or a non-adherent dressing layer prior to applying the NPWT dressing to ensure protection and minimize the risk of damage from direct contact with the dressing.

Precautions

1. More frequently monitor the patient, pump, and wound dressing if patients are or may be:
 - Suffering from infected blood vessels
 - Receiving anticoagulant therapy or platelet aggregation inhibitors, in addition to patients with intrinsic coagulation problems such as low platelet counts
 - Actively bleeding or have friable blood vessels or organs
 - Suffering from abnormal wound hemostasis
 - Malnourished
 - Noncompliant or combative
 - Suffering from wounds in close proximity to blood vessels or delicate fascia

When monitoring patients for delivery of therapy, ensure wound dressing is free of air leaks, fully compressed and firm to the touch.

2. As a condition of use, pump should only be used by qualified and authorised personnel. User must have necessary knowledge of the specific medical application for which NPWT is being used.
3. For patients with high risk of bleeding, use only the 300ml canister. Ensure the 300ml canister viewing window is checked frequently for signs of bleeding.
4. The dressing seal may be lost or pooling may occur, without alarm activation, when an occlusion forms on the wound side of the dressing. Viscous, purulent or serosanguinous drainage may contribute to occlusion of the dressing. In the event of heavy or viscous drainage, drainage with sediment or when blood is present, regular monitoring of RENASYS Pump and dressing is required to ensure full delivery of therapy and exudate removal. Finished dressings should be firm to the touch and leak-free. If the RENASYS Pump reports a leakage alarm check the wound dressing for air leaks.
5. To minimize the risk of bradycardia, do not place NPWT in proximity to the vagus nerve.
6. In the event a patient with spinal cord injury experiences autonomic dysreflexia, discontinue use of NPWT and immediately seek medical assistance.
7. When treating enteric fistulas, do not place NPWT dressing in direct contact with exposed bowel. **Cover the wound bed, including fistula opening, with non-adherent gauze or with one layer of saline moistened gauze. During the course of treatment patient's fluid levels must be closely monitored.**

8. Monitor patient for any signs of local or systemic infection. Infected wounds may require more frequent dressing changes. As NPWT is not intended to directly treat infection, if there are any signs of systemic infection or advancing infection at wound area, contact treating clinician immediately.
9. NPWT should remain on for duration of treatment. The length of time a patient may be disconnected from pump is a clinical decision based on individual characteristics of patient and wound. Factors to consider include location of wound, volume of drainage, integrity of dressing seal, assessment of bacterial burden and patient's risk of infection.
10. Use of NPWT presents a risk of tissue in-growth into the wound filler. In-growth may be reduced by decreasing therapy pressure, using a wound contact layer or increasing the frequency of dressing changes.
11. NPWT should not be painful. If patient reports discomfort, consider reducing pressure setting and use of a wound contact layer. Pressure setting is a clinical decision based on individual characteristics of patient and wound. Factors to consider include location of wound, volume of drainage and integrity of dressing seal.
12. The RENASYS[®] TOUCH Pump is only to be connected to Smith+Nephew authorised components and accessories. Use of any other products has not been proven safe and effective with the pump.
13. Ensure canister tubing and RENASYS Soft Port are installed completely and without any kinks to avoid leaks or blockages in vacuum circuit.
14. Position pump, tubing and cables appropriately so they do not wrap around the patient's neck or limbs or cause a trip hazard.
15. Keep out of reach of pets, pests and children.
16. When the RENASYS TOUCH Pump is set at 25mmHg consider placing pump and tubing level with or below the wound. This will ensure the prescribed level of therapy is delivered.
17. When bathing or showering patient must disconnect from the RENASYS Pump, protecting both ends of tubing using tethered caps. Ensure aeration disc located near quick click connector is free of excess moisture before reactivation of therapy to ensure proper alarm functionality and prevent interruption of therapy.
18. If any liquids penetrate pump, discontinue use and return to your Smith+Nephew authorised provider for service.
19. Where possible, remove the RENASYS Pump prior to diagnostic imaging e.g. X-Ray, CT and PET scans, as ionizing radiation has the potential to interfere with some electronic medical devices. If the dressing interferes with diagnostic imaging, it may also need to be removed prior to diagnostic imaging. If the pump has been taken into the CT scan or X-Ray range, check that the NPWT system is functioning correctly following the procedure.
20. AC power can only be removed by disconnecting power cord or AC power supply. Take care in positioning the pump to allow access to the power jack.
21. If power supply or power cord is damaged, wires are frayed or exposed, do not use power. Contact your Smith+Nephew representative for a replacement.
22. Canisters should be changed at least once a week, whenever there is a change in patient or in the event that canister contents reach maximum volume indication (300ml or 800ml fill line).
Do not wait for the Canister Full alarm to sound to change canister.
23. Canisters are single-use only and should not be re-used as cross-contamination or infection may occur and the therapy may be ineffective.
24. If pump must be disconnected, the ends of the dressing tubing and canister tubing should be protected using tethered caps to avoid leakage of fluid and cross contamination.
25. Due to its smaller diameter, the RENASYS-G 10Fr Round Drain Gauze Dressing Kit and RENASYS 10Fr Round Drain Accessory Kit are not recommended for use with the RENASYS TOUCH Pump, as reduced pressure in the wound bed may lead to pooling or maceration.

Clinician Prescription

Prior to placement of the RENASYS TOUCH Pump, the clinician treating the wound must assess how to best use the system for an individual wound. It is important to carefully assess wound and patient to ensure clinical indications for Negative Pressure Wound Therapy (NPWT) are met.

All prescriptions should include:

- Wound location, size and type
- Smith+Nephew Wound Dressing Kit
- Pressure settings
- Frequency of dressing changes
- Adjunctive dressings

Pump description

The RENASYS TOUCH Pump is designed to provide Negative Pressure Wound Therapy (NPWT) to a closed environment over a wound in order to evacuate exudates from the wound site to a disposable canister, which may promote wound healing via removal of fluids, including irrigation fluids and body fluids, wound exudates and infectious materials.

The RENASYS TOUCH NPWT System consists of a RENASYS TOUCH Pump, RENASYS TOUCH Canister, RENASYS Dressing Kit and RENASYS Accessories. The dressing kit acts to seal the wound and provide a conduit for the delivery of negative pressure. Once connected to the pump, exudate is removed from the wound cavity into the canister. The RENASYS TOUCH Pump can be plugged into an electrical outlet or can operate on its internal battery, allowing greater mobility.

The RENASYS TOUCH Pump has two main user interface areas: the full-color touchscreen and the three buttons below the touchscreen.

The three buttons below the touchscreen are used to power On and Off the pump, Start and Pause Therapy, and Lock and Unlock the user interface.

The status indicator at the top of pump illuminates green when therapy is active or yellow to indicate an alarm state. The status indicator is not illuminated when therapy is not active.

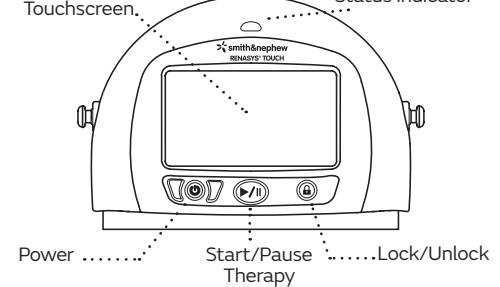
The RENASYS TOUCH Pump runs on AC power or can be used on internal battery power to allow the user greater mobility. Using the external AC power supply and power cord, the pump can be plugged into an electrical (AC) outlet to charge the battery without causing interruption to active therapy. When the pump is plugged in, the external power indicator next to the power jack illuminates green to indicate the pump is connected to an external power supply. When the pump is On, the battery indicator on the touchscreen will display a lightning bolt to indicate the battery is charging. RENASYS TOUCH Pump is designed to be used with a RENASYS TOUCH Power Supply.

Attachment knobs are located on the left and right sides of the pump. These features are used to attach the carry strap and IV pole/bed clamp accessories.

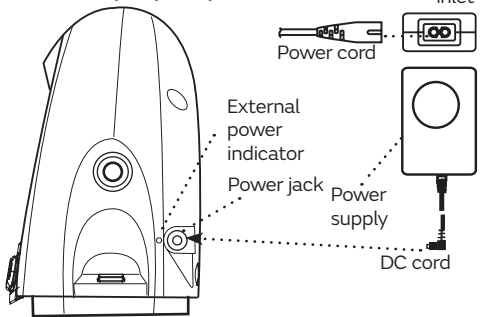
The rear of the pump houses the speaker and identification label. The filter enclosure door provides access to the odor filter and air exhaust outlet.

The underside of the pump houses the inlet port, replaceable O-ring and barcode label.

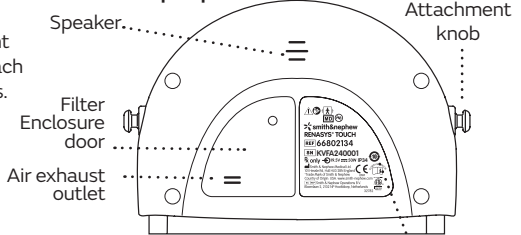
Front view of pump



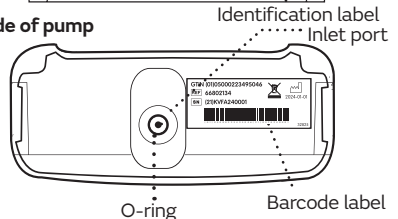
Left view of pump and power



Rear view of pump



Underside of pump

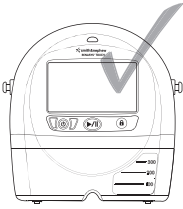


Pump orientation during use

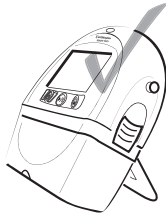
The RENASYS TOUCH Pump is designed to operate in the upright position. Pump orientation, rate at which fluid enters the canister and how exudate solidifies can impact filter occlusion. Operation in the upright position optimizes canister volume and alarm functionality. The pump should be orientated to face the user's position when in stationary use.

Proper use/correct orientation

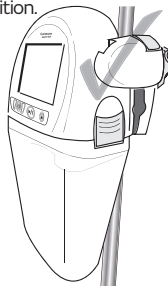
The RENASYS TOUCH 300ml Canister has a kickstand and feet. The pump can stand in the upright position with the 300ml canister attached. Open the kickstand for additional stability and to change the viewing angle. The RENASYS TOUCH 800ml Canister does not include a kickstand or feet. The IV pole/bed clamp or carry strap accessories can be used to mount the pump in the upright position.



300ml canisters only



300ml canisters only



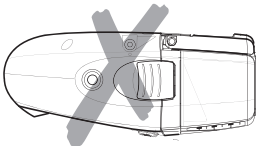
300ml or 800ml
canisters with clamp



300ml or 800ml canisters
with carry strap

Incorrect orientation

Caution: Operating the pump in a face-down position could result in damage to the pump and inadvertent changes to therapy settings. Operating the pump in an inverted position could impact filter occlusion resulting in a blockage alarm and requiring a change of canister.



300ml or 800ml
canisters



300ml or 800ml canisters

Dressing application and changes

Clean, debride and dress the wound in accordance with the instructions for use provided with the RENASYS NPWT dressing kit being used.

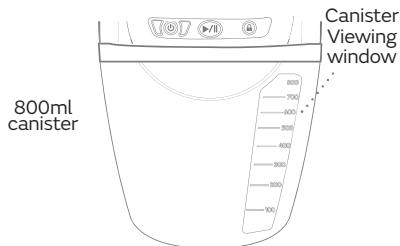
Canister selection

Only use RENASYS TOUCH Canisters with the RENASYS TOUCH Pump.

RENASYS TOUCH Canisters use an integral two stage bacterial filter for protection of the pump against overflow and the spread of aspirated micro-organisms.

Canisters are single-use only and should not be re-used as cross-contamination or infection may occur and the therapy may be ineffective.

Canisters should be changed at least once a week, whenever there is a change of patient, or when the contents reach the maximum volume indication (300ml or 800ml fill line) in the viewing window. **Do not wait for the Canister Full alarm to sound to change canister.**



For patients with high risk of bleeding, use only the 300ml canister. Canisters may have to be changed regularly within single patient treatments if exudate levels are high. Check canisters regularly to monitor exudate levels, ensuring they are below the canister maximum volume indication.

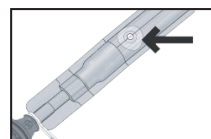
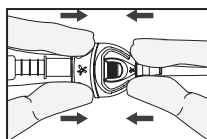
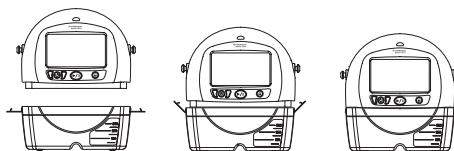
Canisters are non-sterile and should not be used in a sterile field.

Note: Check canister for any signs of cracks or damage. If noted, discard and replace canister.

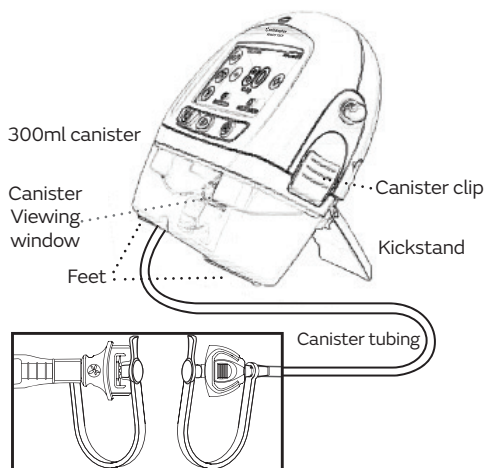
Note: Change or replace canisters that have been dropped or mishandled even if no visible signs of damage are present to ensure correct operation of software alarms for leak and blockage.

Installing canister

1. Ensure therapy is paused or pump is Off.
2. Remove paper tape around canister tubing and release tubing to full length.
3. Open canister clips on both sides of the canister.
4. Position the canister so that the viewing window is facing forward.
5. Push canister gently over inlet port on the bottom of the pump.
6. Engage both canister clips. Canister clips will click when properly engaged.
7. Connect the dressing to the canister tubing by pushing quick click connectors together. Quick click connectors will click when properly engaged.



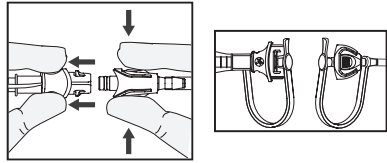
Note: Do not cover the aeration disc for proper delivery of therapy.



Quick click connectors with tethered caps

Removing/changing canister

1. Pause therapy or turn pump Off.
2. Hold the quick click connectors above the level of the wound to ensure exudate does not leak from the tubing.
3. Disconnect canister tubing from dressing tubing by applying pressure to the canister quick click connector and gently pulling connectors apart.
4. Close the tethered caps of both quick click connectors to protect both sides of tubing and prevent leakage.
5. Release canister clips on both sides of pump and gently pull canister away from pump.



Disposal of used canisters should follow facility protocols or local ordinances relating to handling of potentially infected or bio-hazardous materials.



300ml or 800ml canisters

Turning on pump

Ensure the battery is fully charged if battery operation is required for first use of the pump.

Press and hold the **Power**  button below the touchscreen for 2 seconds to power On (or power Off) the pump.

The touchscreen illuminates and initiates the start up sequence: the start up screen will display, the status indicator will flash yellow then green, the pump sounds an audible tone, then the Welcome screen will display. The Home screen will display upon completion of the start up sequence.



Note: When the pump is nearing time for the annual maintenance check, an annual maintenance notification will display when powering On the pump. To close this notification screen and continue to the Home screen, press the Accept  icon.

Navigating the touchscreen interface

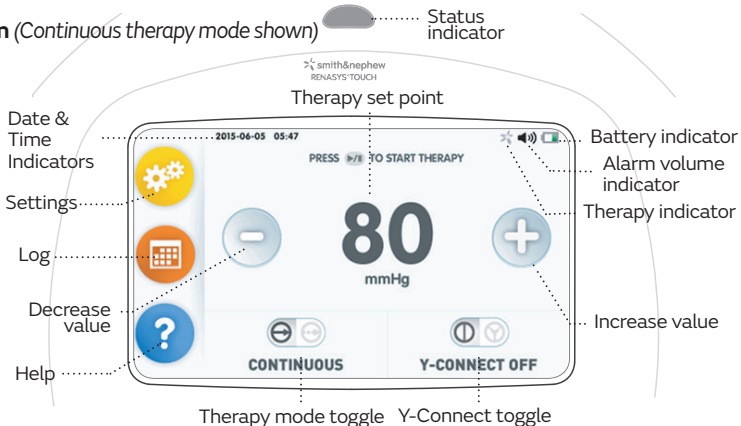
The screen on the RENASYS TOUCH Pump is touch sensitive.

Tap the touchscreen to make a selection.

Slide your finger up, down or across the screen to scroll.

Note: The touchscreen should only be actuated by finger. Using pens or other pointed objects may damage the screen.

Home screen (Continuous therapy mode shown)



Setting Therapy

The prescribed therapy setting is a decision that the clinician must make based on an assessment of the particular wound. These general guidelines should be adhered to:

- 40–120mmHg is the recommended therapeutic pressure range.
- NPWT should never be painful. If the patient reports discomfort, consider reducing the pressure setting.
- Outside the recommended optimal therapeutic pressure range of 40–120mmHg, the broader operating range of 25–200mmHg is provided to support clinical discretion on pressure set-point.

The pump will display the therapy set point.

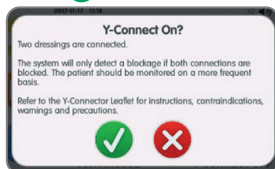
Set Y-Connect

Select Y-Connect On  to account for two dressings connected to the pump.

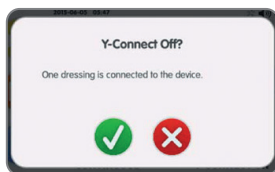
Select Y-Connect Off  if only one dressing is connected to the pump.

Press the **Y-Connect** toggle icon to switch between Y-Connect Off  and Y-Connect On .

Press the Accept  icon to confirm your selection.



Press the Cancel  icon to maintain the current setting.



Note: Therapy must be paused to change Y-Connect setting. This feature is unavailable in Patient Mode

Caution: The system will only detect a blockage if both connections are blocked. The system will not detect a blockage existing in one of the Y-connected dressings; therapy will not be delivered through the blocked dressing.

Setting Y-Connect On  when only one dressing is connected to the pump may cause nuisance alarms. Setting Y-Connect Off  when two dressings are connected to the pump may prevent blockage alarm from sounding.

Set Therapy Mode

The pump features two therapy modes: Continuous and Intermittent.

Press the **Therapy Mode** toggle icon to switch between Continuous  and Intermittent  therapy.

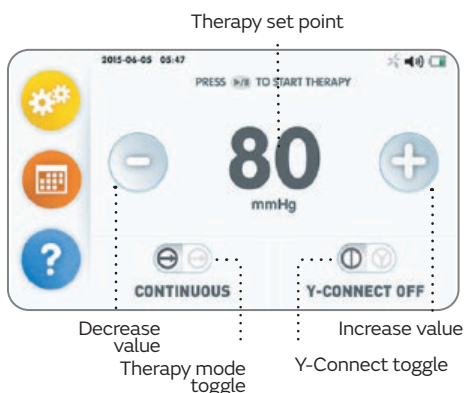
Note: Therapy must be paused to change therapy mode.

Continuous therapy mode

In Continuous mode, the pump will maintain the selected therapy level until therapy is stopped or changed. The therapy set point is displayed in the center of the screen. Therapy levels can be selected from a range of 25–200mmHg by pressing the

Decrease  and **Increase**  icons.

(Continuous therapy mode shown)



Intermittent therapy mode

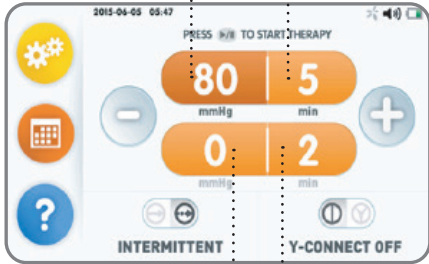
Intermittent therapy mode provides both intermittent and variable therapy set point options. The pump will alternate between set points of active therapy and low (variable) or no (intermittent) therapy at set cycle times.

To adjust the therapy set points and cycle times:

1. Select to highlight the setting that needs adjustment.
2. Press the **Decrease**  or **Increase**  icon to select therapy set points and cycle times with the following ranges.
 - High therapy: 25–200mmHg
 - Low therapy: 0–180mmHg (will not equal or exceed High therapy)
 - High cycle time: 3,5,8,10 minutes
 - Low cycle time: 2,3,5,8,10 minutes

Note: Therapy must be paused to change cycle times.
(Intermittent therapy mode shown)

High therapy High cycle time



Low therapy Low cycle time

Starting therapy

Before starting therapy, check that the prescribed therapy settings have been properly set.

Caution: When pump is set at 25mmHg consider placing pump and tubing level with or below the wound. This will ensure the prescribed level of therapy is delivered.

Ensure the pump and system tubing are kept away from any direct sources of heat.

Press the **Start/Pause Therapy**  button below the touchscreen to start therapy.

As the pump begins delivering therapy, it will perform a leak check to determine if the system is sealed or if there is a significant leak in the system.

(Intermittent therapy mode shown).

Leak Check



Seal Achieved



Delivering Therapy



Active Therapy
Set Point

Active Cycle
Time

Next Therapy
Set Point and
Cycle Time

When therapy is active, the therapy indicator  at the top of the screen will rotate orange and status indicator on top of the pump illuminates green.

If a significant leak is detected in the system, the pump will indicate a leak alarm. Refer to "Alarms/Troubleshooting" section for more details.

To return to Home screen while therapy is active, press the **Home**  icon on the Delivering Therapy screen. Without user interaction, the touchscreen will automatically return to the Delivering Therapy screen. If you have navigated to the Help menu or the Flow Meter within the Settings menu, the touchscreen will automatically return to the Delivering Therapy screen after 3 minutes without user interaction.

Pause Therapy

Therapy may be paused by pressing the **Start/Pause Therapy**  button.

When paused, the touchscreen will return to the Home screen, the status indicator will not be illuminated and the therapy indicator will be grey.

Patient Mode

The pump has user modes to access or restrict functionality based on users needs.

Patient Mode restricts access to therapy settings and specific pump features. It is recommended that clinicians set the pump to Patient Mode once therapy settings have been selected to prevent inadvertent changes to settings.

Refer to "Change Mode" under the "Settings" section for more details on user modes.

Lock/Unlock Feature

To lock/unlock the user interface when therapy is active, press and hold **Lock/Unlock**  button below the touchscreen for 2 seconds. Once locked, a lock symbol will appear behind the therapy set point and the pump will enter Sleep mode.

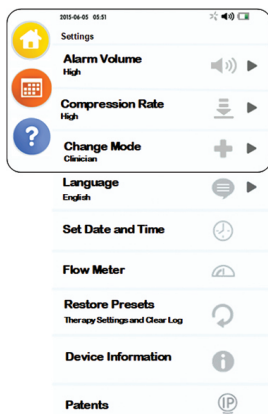
While in Sleep mode, the touchscreen will go dark for user comfort and to conserve battery life. The status indicator continues to illuminate green to indicate the pump is delivering therapy.

In the event of an alarm, the pump will automatically unlock and the alarm screen will display.

Note: The Lock function locks the touchscreen and Start/Pause Therapy button – Power button is not locked.

Settings

Settings contains a menu of user preferences, pump functions and pump information. Scroll up and down to view all selections.



Alarm Volume

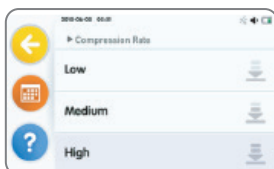
Select **Alarm Volume** from the **Settings** menu and choose low, medium or high to adjust alarm volume. The pump will issue a sample tone as you make your selection. Alarm volume indicators on the Settings menu and at the top of screen will update based on the selection.



Compression rate

The compression rate limits the target pressure change in a given period of time.

Selecting the high compression rate will result in the most rapid dressing draw down. Select **Compression Rate** from the **Settings** menu and choose low, medium or high. The Compression Rate indicator on the Settings menu will update based on the selection.



Note: Therapy must be paused to change Compression Rate.

Change Mode

The pump has three user modes: Clinician , Patient , and Maintenance .

Maintenance mode can only be accessed by authorised service personnel.

Clinician Mode provides clinicians full access to features and settings.

It is recommended that clinicians set the device to Patient Mode once therapy settings have been selected to prevent inadvertent changes to settings.

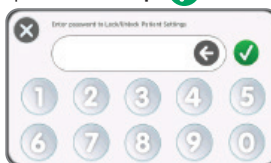
Patient Mode restricts access to the following features:

- Therapy settings: therapy set points, cycle times, therapy mode and Y-connect selection will display on the touchscreen but cannot be changed.
- Settings menu selections: Restore Presets will display in the settings menu but cannot be selected.

To switch between modes, select **Change Mode** from the **Settings** menu and choose Clinician or Patient.



A password is required to switch between Clinician and Patient modes. Enter the numeric password (3141) and press the **Accept**  icon.



To delete a number that was entered incorrectly, press the **Back**  icon. To exit the screen without entering a password, press the **Cancel**  icon.



Language

To change the language, select **Language** from the **Settings** menu and choose desired language from provided list. Scroll up and down to view all selections.



Flow meter

The Flow Meter provides a visual indication of the rate of air flow in the system to help determine if the system is properly sealed or if there are leaks. The gauge will turn from green to yellow if a significant leak is detected. To access the Flow Meter, select **Flow Meter** from the **Settings** menu.



In the event of a leak alarm, the Flow Meter is displayed on the alarm screen to assist in locating leaks in the system.

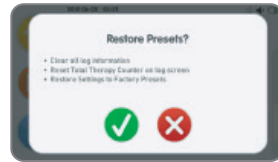


Restore presets

Restore Presets should be selected whenever the pump is prepared for use with a new patient.

Select **Restore Presets** from the **Settings** menu and press Accept (✓) icon to restore the pump to the factory presets below:

- All Log information is reset to zero.
- Continuous Therapy: 80mmHg
- Intermittent Therapy: 80mmHg for 5 minutes; 0mmHg for 2 minutes
- Y-Connect: Off
- Compression rate: High
- Alarm volume: High



Press the **Cancel** (X) icon to maintain the current settings.

Note: This feature is unavailable in Patient mode.

Clock Settings

Note - the following settings are variable depending on software versions.

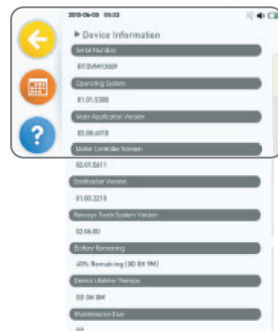
Set Date and Time

Select the date and time for location.



Device Information

To display a list of pump information, such as serial number, battery charge remaining, software information and annual maintenance timing, select **Device Information** from the **Settings** menu to view.



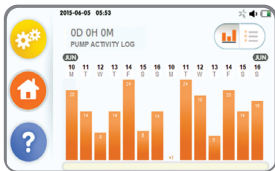


Pump Activity Log

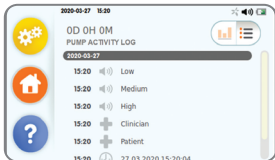
The Pump Activity Log displays total pump activity since reset (accumulated active days, hours and minutes since last Restore Presets) and provides information on pump activity that may have been delivered to the patient in two display formats: Overview and Detailed view.

Select the Log toggle icon to switch between Overview and Detailed view .

Overview displays a bar graph of total pump activity hours per day. Scroll left or right to view additional days.

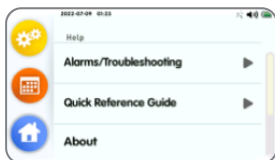


Detailed view displays a history of events, including therapy settings, alarms and pump status. Scroll up and down to view additional days.



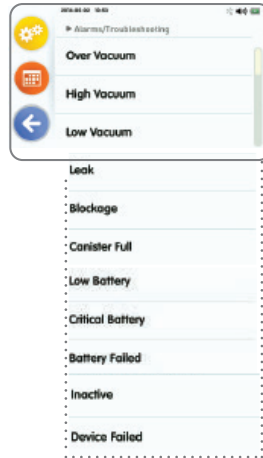
Help

The Help menu provides guidance on pump functions and operation, troubleshooting assistance, and licensing details. Scroll up and down to view all selections.



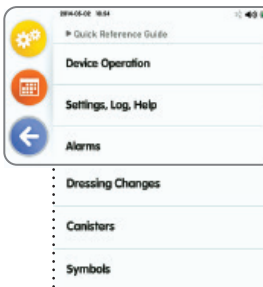
Alarms/Troubleshooting

Descriptions of each alarm are provided with step-by-step instructions to assist in resolving the alarms. Select **Alarms/Troubleshooting** from the **Help** menu and scroll up and down to view all menu selections. Select the alarm you would like assistance with and scroll up and down to view the instruction steps.



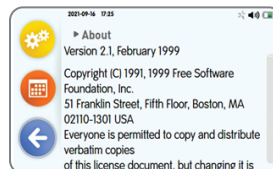
Quick Reference Guide

The Quick Reference Guide is a condensed version of frequently referenced instructions for use. Select Quick Reference Guide from the Help menu and scroll up and down to view all menu selections.



About

About contains licensing information. Scroll up and down to view entire content.



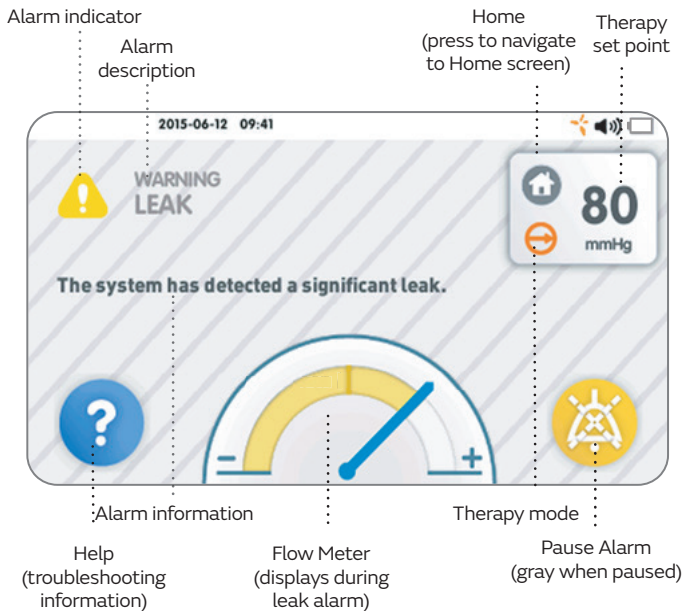
Alarms/Troubleshooting

The RENASYS TOUCH Pump is equipped with low priority alarms to indicate an error which requires user awareness. In the event of an alarm, an audible tone sounds, an alarm screen will display and the status indicator illuminates yellow. The pump stops delivering therapy in the occurrence of an Over Vacuum, High Vacuum, Battery Failed or Pump Failed alarm.

Caution: Alarms are not intended to replace physical inspection and monitoring of system operation by clinicians. There are scenarios that may occur during therapy that can impact alarm functionality. Therefore, it is important that the patient, pump and wound dressing are monitored regularly to ensure therapy is being delivered.

Some alarms allow the audible alarm to be paused for approximately 2 minutes. The Low Battery alarm allows the audible alarm to be paused for 15 minutes. If the cause of the alarm is not resolved within this time the alarm will recommence. If the audible alarm has been paused and a new alarm state occurs, the audible alarm sounds, and the touchscreen will display the new alarm. When multiple alarm states are present, the pump will alternate between alarm screens every 5 seconds.

Alarm screen (Leak alarm shown)



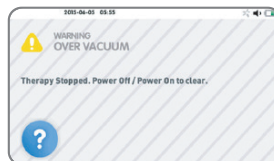
Note: Alarm screen icons and features display only when applicable.

Over Vacuum Alarm

The system has detected an excessively high vacuum (>235mmHg), potentially due to pump malfunction.

Pump stops delivering therapy.

- Status indicator illuminates yellow.
- Audible alarm sounds every 20 seconds.
- Audible alarm cannot be paused.



Troubleshooting

1. Power Off and restart the pump.
2. If the alarm recurs there is a potential malfunction of the pump. Contact your Smith+Nephew authorised representative.

High Vacuum Alarm

The system has detected a high vacuum condition (>15mmHg above the therapy set point), potentially due to pump malfunction.

Pump stops delivering therapy.

- Status indicator illuminates yellow.
- Audible alarm sounds every 20 seconds.
- Audible alarm cannot be paused.



Troubleshooting

1. Power Off and restart the pump.
2. If the alarm recurs there is a potential malfunction of the pump. Contact your Smith+Nephew authorised representative.

Low Vacuum Alarm

The vacuum level is lower than the therapy set point by >15mmHg for longer than 60 seconds

The pump continues to operate but may not provide prescribed therapy.

- Status indicator illuminates yellow.
- Audible alarm sounds every 20 seconds.
- Audible alarm may be paused for approximately 2 minutes by pressing the Pause Alarm  icon on the screen.



Troubleshooting

Do not pause therapy or power Off the pump while performing the following steps. Assess the pump after each step. Continue to next step only if alarm remains unresolved.

1. Check the wound dressing for air leaks. Look for loose or decompressed dressing appearance, listen for air movement around the dressing and feel for areas less compressed or cooler in temperature. Address any identified leaks with transparent film or adhesive gel patches.

2. Ensure all connections are secure.

- Dressing and canister tubing quick click connectors.
- Y-connector quick click connectors, if applicable.

3. Disconnect the canister tubing from the dressing tubing by applying pressure to the canister tubing quick click connector and gently pulling the connectors apart. Close the tethered caps of both connectors.

- If the alarm continues, a leak exists within the canister or at the canister to pump connection. Replace the canister. Refer to “Removing/changing canister” section of manual for more details. Contact your Smith+Nephew authorised representative if the alarm continues after restarting therapy.
- If the alarm resolves, a leak exists within the wound dressing or tubing. Reassess and replace as needed.

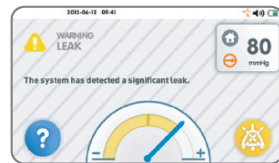
Note: If Low Vacuum alarm is due to a leak in system, the Leak alarm may also be triggered while the Low Vacuum alarm is active.

Leak Alarm

The system leak is greater than the allowable maximum leak threshold for >45 seconds.

The pump continues to operate but may not provide prescribed therapy.

- Status indicator illuminates yellow.
- Audible alarm sounds every 20 seconds.
- Audible alarm may be paused for approximately 2 minutes by pressing the Pause Alarm  icon on the screen.



Troubleshooting

Do not pause therapy or power Off the pump while performing the following troubleshooting steps. Use the on-screen flow meter to help find and correct sources of the leak. Assess the pump after each step. Proceed to next step only if alarm continues:

1. Check the wound dressing for air leaks. Look for loose or decompressed dressing appearance, listen for air movement around the dressing and feel for areas less compressed or cooler in temperature. Address any identified leaks with transparent film or adhesive gel patches.
2. Ensure all connections are secure.
 - Dressing and canister tubing quick click connectors.
 - Y-Connector quick click connectors, if applicable.
3. Disconnect the canister tubing from the dressing tubing by applying pressure to the canister quick click connector and gently pulling the connectors apart. Close the tethered caps of both connectors.
 - If the alarm continues, a leak exists within the canister or at the canister to pump connection. Replace the canister. Refer to “Removing/changing canister” section of manual for more details. Contact your Smith+Nephew authorised representative if the alarm continues after restarting therapy.
 - If the alarm resolves, a leak exists within the wound dressing or tubing. Reassess and replace as needed.

Caution - lack of alarms: When a significant air leak is present in system, the Leak alarm will assert. However, if a blockage is present within system it may prohibit detection of a significant leak by the pump, resulting in no alarm assertion. Potential sources of a blockage include:

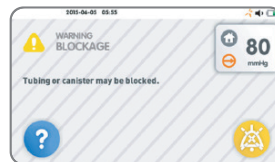
- Physical occlusion in wound dressing (clot in filler, compacted gauze, high volume viscous fluid).
- Physical occlusion in tubing (kink in canister tubing, clot in tubing).
- Misaligned dressing opening to RENASYS Soft Port aperture. Check dressing regularly to ensure therapy is being delivered.

Blockage Alarm

The system has detected a blockage within the canister, or the tubing or the internal canister filter is covered with exudate, which may occur even if canister does not appear visibly full.

Pump continues to operate but may not provide the prescribed therapy.

- Status indicator illuminates yellow.
- Audible alarm sounds every 20 seconds.
- Audible alarm may be paused for approximately 2 minutes by pressing the Pause Alarm  icon on the screen.



Troubleshooting

Do not pause therapy or power Off the pump while performing the following troubleshooting steps. Assess the pump after each step. Proceed to next step only if alarm continues:

1. If one dressing is connected to the pump, press the Home  icon to navigate to the Home screen and ensure that the **Y-Connect**  toggle icon is set to Y-Connect OFF .
2. Ensure all tubing and connections are free of any obstructions or kinks.
3. Ensure no excess tubing is below the wound.
4. Consider reducing the height of the pump in relation to the wound.
5. Consider increasing the pressure setting.
6. Disconnect the canister tubing from the dressing tubing by applying pressure to the canister quick click connector and gently pulling the connectors apart. Leave open the tethered cap of the canister quick click connector and close the tethered cap of the dressing connector.
 - If the alarm continues, the blockage exists within the canister. Replace the canister. Refer to “Removing/changing canister” section of manual for more details. Contact your Smith+Nephew authorised representative if the alarm continues after restarting therapy.
 - If the alarm resolves, the blockage exists within tubing of the dressing. Reassess and replace as needed.

Note: Pump orientation, rate at which fluid enters the canister and how exudate solidifies can impact filter occlusion. To optimise canister volume and alarm functionality, keep the pump in the upright position.

Caution—lack of alarms:

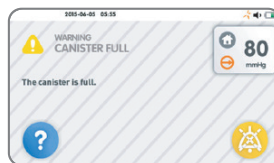
- Setting Y-Connect On when only one dressing is connected to the pump may cause nuisance alarms. Setting Y-Connect Off when two dressings are connected to the pump may prevent blockage alarm from sounding. When Y-connecting two dressings to the pump, regular monitoring of the wound is recommended. Ensure the dressing is fully compressed and firm to the touch. The system will only detect a blockage if both connections are blocked. The system will not detect a blockage existing in one of the Y-connected dressings; therapy will not be delivered through the blocked dressing.
- The blockage alarm will occur when the system detects a blockage between the canister and where the dressing tubing interfaces with the transparent film. A blockage within the wound dressing will not be detected by the system.
- If a blockage is present in the system but an air leak occurs between the blockage and the pump, the alarm may not assert. Ensure that all connections are secure and there are no air leaks present in the system. Potential sources of air leaks include:
 - Cracked or damaged canister.
 - Misplaced or worn O-ring within the quick click connector.
 - Misplaced or worn O-ring on the pump inlet port.
 - Damaged or tear in the dressing tubing or quick click connector.

Canister Full Alarm

The system has detected the canister is nearly full or the internal canister filter is covered with exudate, which may occur even if canister does not appear visibly full.

Pump continues to operate but may not provide the prescribed therapy.

- Status indicator illuminates yellow.
- Audible alarm sounds every 20 seconds.
- Audible alarm may be paused for approximately 2 minutes by pressing the Pause Alarm  icon on the screen.



Troubleshooting

Pause therapy before performing the following troubleshooting step.

1. Replace canister and start therapy. Refer to “Removing/changing canister” section of manual for more details. If alarm continues, contact your Smith+Nephew authorised representative for assistance.

Note: Pump orientation, rate at which fluid enters the canister and how exudate solidifies can impact filter occlusion. To optimise canister volume and alarm functionality, keep the pump in the upright position.

Low Battery Alarm

Initial Warning

The battery has approximately 2 hours ($\leq 20\%$ battery) of therapy time remaining. Upon battery depletion the pump will stop delivering therapy and power Off.

- Status indicator illuminates yellow.
- Audible alarm sounds every 20 seconds.
- Audible alarm may be paused by pressing the Pause Alarm  icon on the screen and will remove the warning from the screen until the secondary warning level is achieved.
- The touchscreen goes into standby and / or dims to conserve battery life.



Secondary Warning

- The battery has up to 1 hour of therapy time ($\leq 10\%$ battery)
- Audible alarm sounds every 3 minutes
- Audible alarm may be paused by pressing the Pause Alarm  icon on the screen and will remove the warning from the screen for a period of approximately 15 minutes.

Troubleshooting

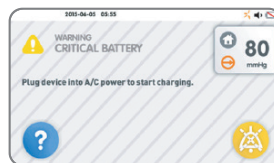
1. Plug pump into an electrical (AC) outlet as soon as possible. The pump can be plugged into an electrical (AC) outlet to charge the battery without causing interruption to active therapy.

Critical Battery Alarm

The battery has approximately 3 minutes ($\leq 5\%$ battery) of therapy time remaining.

Upon battery depletion the pump will stop delivering therapy and power Off.

- Status indicator illuminates yellow.
- Audible alarm sounds every 20 seconds.
- Audible alarm may be paused for approximately 2 minutes by pressing the Pause Alarm  icon on the screen.
- The touchscreen dims to conserve battery life.
- The Critical Battery Shutdown symbol will be displayed as the pump powers down.



Note: If therapy is paused whilst the pump is in this state, the pump must be plugged in to the power supply unit in order for therapy to be started again.

Troubleshooting

1. Plug pump into an electrical (AC) outlet as soon as possible. The pump can be plugged into an electrical (AC) outlet to charge the battery without causing interruption to active therapy.

Battery Failed Alarm

The battery within pump has failed to charge. Therapy can be continued only by keeping the pump plugged into electrical (AC) power.

The pump will stop delivering therapy and power Off. It will not power On again unless plugged into an electrical (AC) outlet.

- Status indicator light illuminates yellow when the pump is powered On.
- There is no audible alarm.

Note: Battery Failure alarm only displays when pump is connected to electrical (AC) power and powered On.

Troubleshooting

1. If the pump has been exposed to temperatures outside its recommended temperature range, let the pump return to room temperature.
2. Plug pump into an electrical (AC) outlet; the pump will not operate on battery power. Contact your Smith+Nephew authorised representative to obtain a replacement pump.

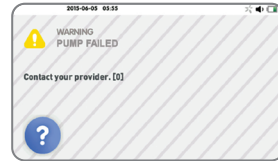


Pump Failed Alarm

The pump has an unrecoverable error, potentially due to an internal hardware or software error.

Pump stops delivering therapy.

- Status indicator illuminates yellow.
- Audible alarm sounds every 20 seconds.
- Audible alarm cannot be paused.



Troubleshooting

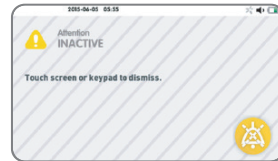
1. Power Off and restart pump.
2. If alarm recurs note the failure code and contact your Smith+Nephew authorised representative.

Inactive

The pump is powered On with no therapy initiated and has been left without user interaction for longer than 15 minutes.

Pump continues to operate.

- Status indicator illuminates yellow.
- Audible alarm sounds every 20 seconds.



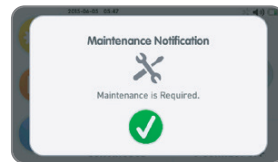
Troubleshooting

1. Touch anywhere on the screen to resolve alarm.
2. Select vacuum setting and start therapy or power Off pump until therapy is required.

Annual Maintenance

The pump is nearing time for the annual maintenance check. Therapy can be continued. The annual maintenance notification will display every time the pump is powered On.

Pump continues to operate.



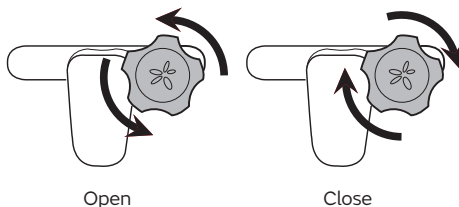
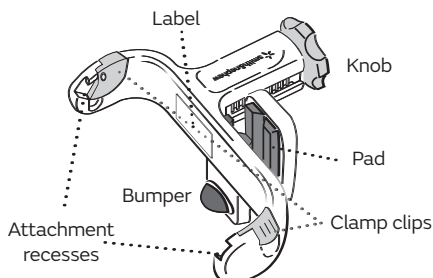
Troubleshooting

1. Press the Accept  icon to close this notification screen and continue to the Home screen. Continue therapy as planned.
2. At the conclusion of the patient's therapy, notify your authorised service provider that annual maintenance is required.

Accessories

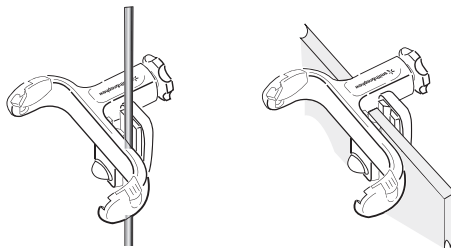
The RENASYS TOUCH Pump can be attached to an IV pole or the head or foot of the patient's bed.

IV pole/bed clamp



Attach clamp to IV pole (up to 51mm/2in diameter):

1. Twist knob to open clamp.
2. Align IV pole in center groove of clamp pad.
3. Twist knob to close clamp until firmly seated.

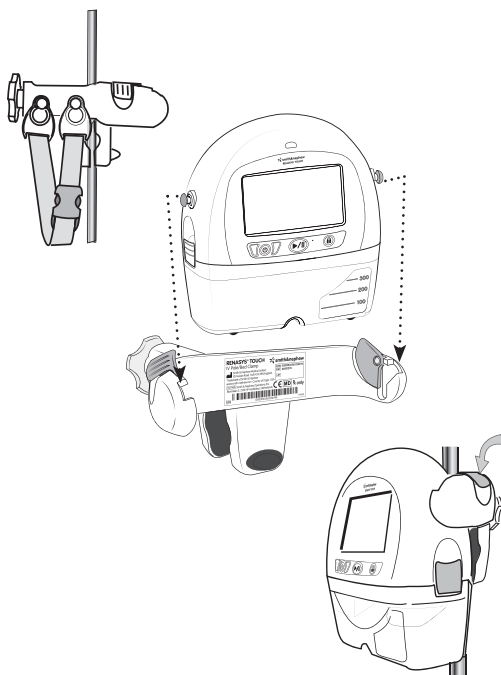


Attach clamp to bed board (up to 76mm/3in):

1. Twist knob to open clamp.
2. Place clamp over bed board.
3. Twist knob to close clamp until firmly seated.

Place pump in clamp:

1. The pump comes equipped with a holder for the carry straps. To utilise, remove carry straps from pump and attach them to the carry strap holder on side of clamp (optional).
2. Align pump attachment knobs with clamp attachment recesses.
3. Push pump gently into clamp attachment recesses. The clamp's orange clips will open during installation.
4. Press down on the orange clamp clips to close.



Remove pump from clamp:

1. Lift orange clamp clips.
2. Gently pull pump from clamp attachment recesses.

Carry bag

The carry bag is single patient use only.

To place pump into bag:

1. Open zippers on the back side of the bag.
2. Remove carry straps from pump. Keeping the pump in the upright position, slide bag over and down the pump. Ensure attachment knobs are accessible through the bag on either side.
3. Close zippers and reattach carry straps.
4. Once fitted, ensure canister tubing can move freely.

Note: It is recommended to Lock  the pump when using the carry bag.

Caution: Ensure the pump always remains in the upright position when placing the pump in and while using the carry bag.

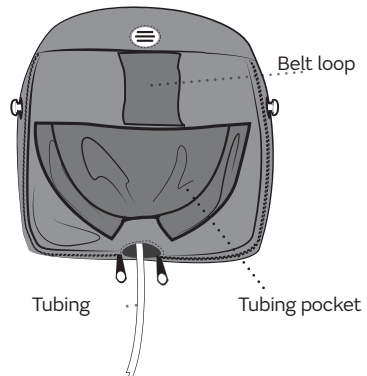
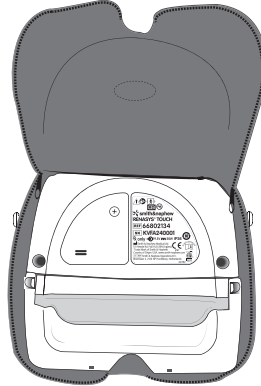
Bag features:

- Excess tubing can be fed through either the tubing hole under the pocket or through the bottom of the bag and coiled into the pocket on back of the bag.
- Flaps on the front of the bag are for the privacy of the user and can be lifted to access the touchscreen and buttons to view the canister.
- The card pocket under the front flap can hold a business card or contact information.
- A belt loop is located on the rear of the bag should you wish to wear the RENASYS TOUCH Pump at your waist.

Lifting top flap allows access to touchscreen, buttons and card pocket



Lifting bottom flap allows canister to be viewed.

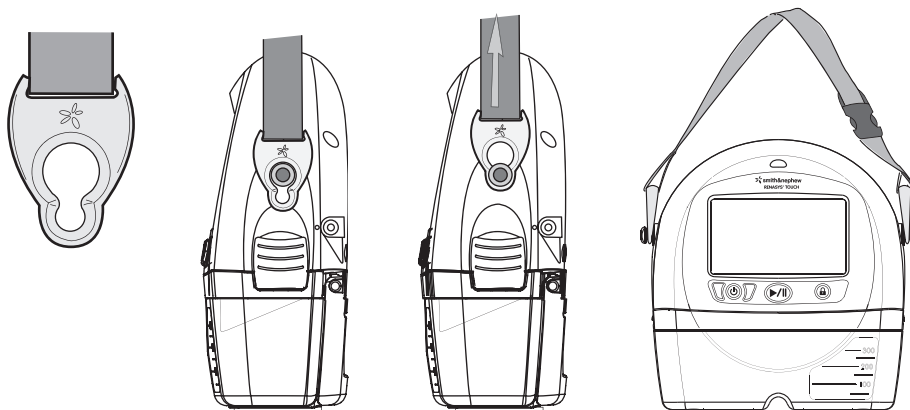


Carry straps

The carry straps are single patient use only.

To attach the carry strap to pump:

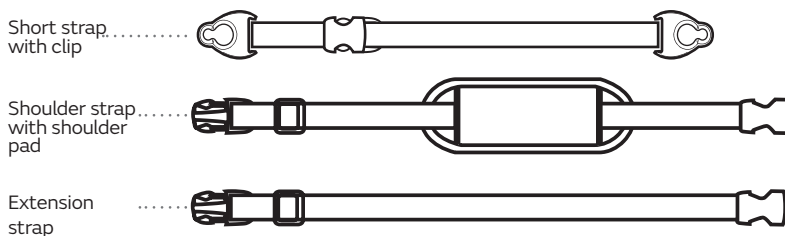
1. Slide the large opening of the carry strap clip over the pump attachment knob.
2. Pull up on the carry strap clip. The clip will click when properly engaged. Repeat same process with other strap on opposite side of pump.
3. Once both sides are connected to the pump they can be joined together to make the short carry strap.
4. Push down on carry strap clip to remove strap from pump.



Caution: Ensure the pump always remains in the upright position when using the carry straps.

To connect and extend straps:

1. Join the carry strap connectors together for a short carry strap.
2. Join the carry strap connectors to the shoulder strap and/or extension strap connectors to extend the length for carrying on the shoulder or across the body.
3. Place the padded section of the strap against shoulder for maximum comfort when carrying pump.



Maintenance performed between each patient use.

Inspect the pump and accessories for visible signs of damage before each use. Do not use if pump has been dropped. Do not use if pump or accessories show signs of damage. Return damaged pump to your Smith+Nephew authorised representative in original packaging supplied. Damaged accessories should be disposed of according to local clinical protocols or thrown away hygienically.

Visually inspect the pump inlet port O-ring for damage and if replacement is needed, consult your service manual or return to your Smith+Nephew authorised service provider.

There are no serviceable parts inside pump. Do not attempt to open the pump. Contact your Smith+Nephew representative, distributor or authorised provider if service is required.

Caution: Never attempt to service the pump while connected to a patient.

Restore Presets

Restore Presets should be selected whenever the pump is prepared for use with a new patient. Select Restore Presets from the Settings menu and press Accept  icon to restore the pump to the factory presets.

Cleaning Precautions

Do not use solvents or abrasives that will degrade plastic housing, rubberised push buttons or touchscreen.

Do not immerse/submerge any part of the pump in fluid or use an excessively wet cloth. No fluids should be allowed to enter the pump. If any liquids penetrate the pump, contact your Smith+Nephew representative or distributor.

Carry bag and carry straps are designed for single patient use only.

Cleaning

Cleaning of the RENASYS TOUCH Pump, power supply outer casing and IV pole/bed clamp should be performed to remove any soil or debris whenever there is a change in patient in the following steps:

1. Turn off the pump and disconnect from AC power before cleaning and disinfecting to prevent electrical shock.
2. Wipe down surface with a dampened cloth or disposable wipe. A neutral pH7 based detergent, detergent/disinfectant or antimicrobial agent that is safe for use with plastics may be used.
3. Visually inspect surface for debris or soils that have not been removed and repeat cleaning steps if necessary.

Carry bag and straps are for single patient use only and should be disposed of according to local clinical protocols or thrown away hygienically when a patient's therapy is complete.

Carry bag and straps may be cleaned during a single patient's treatment as follows:

1. Wipe clean using a soft cloth dampened with a warm water and mild soap solution. A soft brush may be used if necessary.
2. Wait one minute before wiping clean with a soft cloth dampened with water only.

During use it is recommended that the surface of the pump and touchscreen be cleaned as soon as it is soiled using a damp cloth or disposable wipe and then wiped dry with another cloth or disposable wipe. This will prevent soils from drying on the surface of pump and remove oils and smudges from the touchscreen. Always follow facility protocols or local ordinances for cleaning and handling of potentially infected or biohazardous materials.

Disinfecting

After cleaning, the pump may be disinfected as described below.

Recommended solutions for disinfection:

- Diluted solution of 100ml (chlorine) bleach and 1l of warm water.
- Disposable wipes moistened with 70% Isopropyl Alcohol (70%IPA).
- Intermediate disinfectant agents (such as Sporidicin®, Disinfectant) that are safe for use on plastic may be used. Follow manufacturer's instructions carefully.

Blockage Alarm Test

To verify functional complete blockage alarm, install new canister, turn pump on and insert tethered cap of canister tubing into connector to simulate a blockage. A functional pump will activate a complete blockage alarm within 5 minutes.

In the case that complete blockage alarm does not activate, check canister installation and contact your Smith+Nephew authorised representative.

Annual Maintenance

When the RENASYS TOUCH Pump reaches time for the annual maintenance check, an annual maintenance notification will display every time the pump is powered On. Refer to "Annual Maintenance" under "Alarms/ Troubleshooting" section for details on the notification. Notify your Smith+Nephew authorised service provider that annual maintenance is required. The authorised service provider will verify the pump is in correct working order and reset the alarm timer.

O-ring and odor filter should be replaced at a minimum once per year as part of the annual maintenance check performed by a Smith+Nephew authorised service provider.

Battery operation and charging

To allow user greater mobility, the pump contains a lithium-ion rechargeable battery that requires a full charge before initial use. A fully charged battery will last between 8 to 16 hours. Disconnect the pump from AC power prior to mobile use.

When the pump is powered On, the battery indicator at the top of touchscreen (see Glossary of Symbols) will display the battery status. The pump will indicate when battery is low. In the event of a Low Battery or Critical Battery alarm, an audible alarm sounds, an alarm screen will display, the status indicator illuminates yellow, and the screen dims to conserve battery life. Plug pump into an electrical (AC) outlet as soon as possible when a battery alarm occurs.

If battery operation is required for first use of the pump, the battery must be charged from AC power until the battery indicator is green.

To charge battery:

1. Connect the power supply DC cord into the pump power jack.
2. Connect the power cord into the power supply.
3. Plug the power cord into an electrical (AC) outlet.
4. Verify green external power indicator illuminates.
5. Confirm that the battery charging lightning bolt symbol is present at the top of the touchscreen.

Battery charges both during pump operation without interrupting therapy and when pump is turned Off and not in use. It is recommended to keep pump plugged in during use when patient is not mobile. The pump can be used on battery power to allow user greater mobility.

If pump is fully charged and is not going to be used further, disconnect power supply and power cord from pump and electrical (AC) outlet.

Caution: Keep pump away from direct heat sources during charging.

Caution: Charging the pump while in the carry bag may result in elevated operating temperature that causes the pump to suspend charging until it cools. The pump continues to operate. To reduce the operating temperature of the pump, remove it from carry bag or move it into an environment with a lower ambient temperature. When the pump cools, charging will resume automatically.

Caution: Care should be taken to ensure the power supply used for charging is not covered by blankets or clothing to avoid a fire hazard.

Returning the pump

Prior to returning the pump and power supply to your Smith+Nephew authorised representative, the pump and power supply must be cleaned according to the steps outlined under the “Cleaning” section of this user manual.

Pump and power supply should be returned within original shipping carton or transit case. If returning pump and power supply in a transit case, place the pump into the pump molded insert on the left and place the power supply on the bottom right compartment as shown on inside label.

Transport, storage, operation and battery maintenance

The pump should be transported, stored and operated between 5°C and 40°C (41°F to 104°F) for optimal battery performance, but can be stored between -25°C and 70°C (-13°F to 158°F) for short periods of time. Some battery discharge will occur in storage, especially at high temperatures. Additional transport, storage and operation conditions are as follows;

- Relative Humidity 15% to 93% RH
- Atmospheric Pressure 700mbar to 1,060mbar

It is recommended that the unit is fully charged before storing, and every 6 months while in storage. If battery operation is required for first use of the pump following storage, the battery requires a full charge. The battery must be charged with the power supply until the battery indicator is green.

If the pump indicates that battery is still charging after more than 8 hours of continuous charge, contact your Smith+Nephew distributor or authorised provider.

- Time required for pump to warm from -25°C storage temperature until pump can be used is 54 minutes at 20°C
- Time required for pump to cool from 70°C storage temperature until pump can be used is 42 minutes at 20°C

Caution: If the pump has been stored at temperatures below freezing, it must be brought to room temperature prior to use or the pump may be damaged.

Pump Disposal

At the end of the RENASYS TOUCH Pump expected service life (9 years), it should be disposed of in accordance with local laws and regulations. Refer to the RENASYS TOUCH Military Service & Repair Manual for the Preventative Maintenance Schedule which supports the expected service life.

WEEE Directive [2002/96/EC] on Waste Electrical and Electronic Equipment. This statement only applies to European countries with regard to Waste Electrical and Electric Equipment (WEEE) European Directive.

The WEEE symbol on the product or its packaging indicates this product must not be disposed of with other waste. Instead, it is your responsibility to dispose of your waste equipment by sending it to a designated collection point for recycling of Waste Electrical and Electronic Equipment. The separate collection and recycling of your waste equipment at the time of WEEE will help conserve natural resources and ensure it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your medical equipment at the end of its useful life for recycling, please contact your Smith+Nephew authorised representative.

Electromagnetic compatibility RENASYS TOUCH Pump

This equipment has been tested and found to comply with the limits for medical devices to IEC 60601-1-2. These limits and test levels are intended to provide reasonable safety with regard to electromagnetic disturbances when the pump is used in a typical medical installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation.

Guidance and manufacturer's declaration – electromagnetic immunity

The pump is intended for use in the electromagnetic environment specified below. The customer or the user of the pump should ensure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidelines
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2kV, ±4kV, ±8kV, ±15kV air	±2 kV, ±4 kV, ±6 kV, ±8 kV contact ±2 kV, ±4 kV, ±6 kV, ±8 kV air ±15kV air	Floors should be wood, concrete or ceramic tile. If floors are synthetic, the relative humidity should be at least 30%
Electrical fast transient/burst IEC 61000-4-4	±2 kV For power supply lines 100 kHz Repetition frequency	±0.5 kV, ±1 kV, ±2 kV, ±4 kV For power supply lines 100 kHz repetition frequency	Mains power quality should be that of a typical commercial, home healthcare or hospital environment
Surge IEC 61000-4-5	±0.5 kV, ±1 kV Line-to-line ±0.5 kV, ±1 kV, ±2 kV Line-to-ground	±0.5 kV, ±1 kV, ±2 kV, ±4 kV Line-to-line ±0.5 kV, ±1 kV, ±2 kV Line-to-ground	Mains power quality should be that of a typical commercial, home healthcare or hospital environment
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° phases 0% U_n (100% dip in U_n) for 0.5 cycle At 0° single phase 0% U_n (100% dip in U_n) for 1 cycle 70% U_n (30% dip in U_n) for 25/30 cycles 5% U_n (100% dip in U_n) for 5 seconds 0% U_n (100% dip in U_n) for 250 cycles 0% U_n (100% dip in U_n) for 300 cycles	At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° phases 0% U_n (100% dip in U_n) for 0.5 cycle At 0°, 180° phase 5% U_n (100% dip in U_n) for 0.5 cycle 40% U_n (60% dip in U_n) for 5 cycles At 0° single phase 70% U_n (30% dip in U_n) for 25/30 cycles 0% U_n (100% dip in U_n) for 5 seconds	Mains power quality should be that of a typical commercial, home healthcare or hospital environment. If the user of the pump requires continued operation during power mains interruptions, it is recommended that the pump be powered from an uninterruptible power supply or battery
NOTE U_n is the a.c. mains voltage prior to application of the test level			
Power frequency (50/60Hz) magnetic field IEC 61000-4-8	30 A/m 50 or 60 Hz	100 A/m 50 or 60 Hz 150 A/m 50 or 60 Hz 200 A/m 50 or 60 Hz 400 A/m 50 or 60 Hz	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz 6 Vrms 150 kHz to 80 MHz In ISM and amateur radio bands	3 Vrms 150 kHz to 80 MHz 6 Vrms 150 kHz to 80 MHz In ISM and amateur radio bands	Portable and mobile communications equipment should be separated from the pump by no less than distances calculated/listed below: Recommended separation distance: $d = 0.58\sqrt{P}$
Radiated RF IEC 61000-4-3	10 V/m 80 MHz to 2.7 GHz Spot test: 385 MHz. at 27 V/m; (710, 745, 780, 5240, 5500, 5785) MHz. at 9V/m; (450, 810, 870, 930, 1720, 1845, 1970, 2450) MHz. at 28V/m	10 V/m 80 MHz to 2.7 GHz Spot test: 385 MHz. at 27 V/m; (710, 745, 780, 5240, 5500, 5785) MHz. at 9V/m; (450, 810, 870, 930, 1720, 1845, 1970, 2450) MHz. at 28V/m	$d = 0.35\sqrt{P}$ (80 MHz to 800 MHz) $d = 0.7\sqrt{P}$ (800 MHz to 2.5 GHz) where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, a. should be less than the compliance level in each frequency range b. Interference may occur in the vicinity of equipment marked with the following symbol
Proximity Mag. Fields IEC 61000-4-39	Spot test: 30kHz at 8A/m; 134,2kHz at 65A/m; 13,56MHz at 7.5A/m	Spot test: 30kHz at 8A/m; 134,2kHz at 65A/m; 13,56MHz at 7.5A/m	

NOTE 1: At 80 MHz, the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

a. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy.

To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the pump is used exceeds 3V/m, the pump should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the pump.

b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.



Guidance and manufacturer's declaration – electromagnetic emissions RENASYS TOUCH Pump (REF 66802134)

The pump is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment – guidelines
RF emissions CISPR 11	Group 1	The pump uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause interference in nearby electronic equipment.
RF emissions CISPR 11 Harmonic emissions IEC 61000-3-2 Voltage fluctuations/flicker emissions IEC 61000-3-3	Class B Class A Comply	The pump is suitable for use in all establishments including domestic and those directly connected to the public low voltage power supply network that supplies buildings used for domestic purposes.

WARNING: The RENASYS TOUCH Pump (REF 66802134) should not be used adjacent to or stacked with other equipment and that if adjacent or stacked use is necessary, the pump should be observed to verify normal operation in the configuration in which it will be used.

Do not use cables and accessories other than those specified or sold by Smith+Nephew as it may result in increased electromagnetic emissions or decreased electromagnetic immunity of the RENASYS TOUCH Pump. Portable and mobile RF communication devices (mobile telephones) can affect the RENASYS TOUCH Pump. Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the RENASYS TOUCH Pump, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

With use of a Class I Power Supply (REF 66801285), the emissions characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required) this equipment might not offer adequate protection to radiofrequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.

The user shall use the Class II power supply (REF 66801286) in a residential environment. With use of a Class I Power Supply (REF 66801285), to avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.

Recommended separation distances between portable and mobile RF communications equipment and the pump

The pump is intended for use in an electromagnetic environment in which radiated RF disturbances are uncontrolled and Class II power supply (REF 66801286) is used. The customer or the user of the pump can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the pump as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter (W)	Separation distance according to frequency of transmitter (m):		
	150 kHz to 80 MHz $d = 0.58\sqrt{P}$	80 MHz to 800 MHz $d = 0.175\sqrt{P}$	800 MHz to 2.7 GHz $d = 0.35\sqrt{P}$
0.01	0.06	0.02	0.03
0.1	0.02	0.05	0.1
1.0	0.6	0.2	0.3
10	1.8	0.5	1.1
100	5.8	1.7	3.5

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Specifications

Vacuum	
Continuous Therapy Levels	25, 40, 50, 60, 70, 80, 90, 100, 120, 140, 160, 180, 200 mmHg (±5 mmHg)
Intermittent Therapy Levels	High: 25, 40, 50, 60, 70, 80, 90, 100, 120, 140, 160, 180, 200 mmHg (±5 mmHg) Low: 0, 25, 40, 50, 60, 70, 80, 90, 100, 120, 140, 160, 180 mmHg (±5 mmHg)
Intermittent Therapy Cycle Times	High: 3, 5, 8, 10 minutes Low: 2, 3, 5, 8, 10 minutes
Alarms	
General (all alarms)	
Priority	Low
Auditory Sound Level	Low: 63 dB, Medium: 68 dB, High: 74 dB (1 meter from pump)
Indicator Color	Yellow
Overall alarm delays	
Sum of the maximum Alarm Condition Delay plus the maximum Alarm Signal Generation Delay in accordance with IEC STD 60601-1-8 (the Alarm Signal Generation Delay is a maximum 1 second for all alarms)	
Over vacuum	5 seconds
High vacuum Continuous Mode Intermittent Mode	195 seconds 75 seconds
Low vacuum	65 seconds
Leak	3 minutes
Blockage	3 minutes
Canister full: Continuous Mode Intermittent Mode	32 minutes, unless blockage is present (see Blockage Alarm) 2 minutes
Low battery	2 seconds
Critical battery	2 seconds
Battery failed	32 seconds
Pump failed	32 seconds
Inactive	15 minutes

All of the RENASYS TOUCH Pump components and RENASYS Dressing Kits are considered applied parts. All of the applied parts are type BF (body floating) defibrillation proof parts.

Power Requirements	
Pump input voltage	19.5 V $\overline{\text{---}}$
Pump input power	50 W
Power Adapter	Smith+Nephew RENASYS TOUCH Class II power supply REF 66801286 Input: 100-240V $\sim$, 50/60HZ, 1.5A (1.5A-0.7A) Output: 19.5V $\overline{\text{---}}$, 2.6A, Fuses: Internal electronic fuse, not user changeable
Physical	
Dimensions	180 x 190 x 76 mm (7" W x 7.5" H x 3" D) with 300ml canister
Weight	1.2kg (2.6 lb) with empty 300ml canister fitted
Sound Level	
Normal Operations	No alarms: 46.1dB
Battery	
Operating Time	Approximately 10–16 hours (therapy) when operating from 25mmHg to 120mmHg Approximately 8 hours (therapy) at 200mmHg
Type	Lithium-ion
Compliance	UL 2054 / IEC 62133
Safety Protection	
Protection Against Electric Shock	Device internally powered; external power supply. Class II.
Patient Protection	Defibrillation proof type BF
Ingress Protection	IP34 Enclosure protected ingress of small objects (>2.5 mm in width) and light water spray.
Compliance	
	Certified to: CSA STD C22.2 No 60601-1 Conforms to: ANSI/AAMI STD ES60601-1 IEC STD 60601-1-6, IEC STD 60601-1-8, IEC STD 60601-1-11 Evaluated to: IEC STD 60601-1, IEC STD 60601-1-2
Maximum pump temperature	
LCD Touchscreen	54.5 °C / 130.1°F
Underside near exhaust	51.2 °C / 124.2°F
Attachment knobs	43.1 °C / 109.6°F
Carry case exhaust	41.6 °C / 106.9°F

Replacement parts and accessories

The following products are available from Smith+Nephew.

Part description	REF (product catalog number)
RENASYS TOUCH Pump	66802134
RENASYS TOUCH Class II Power Supply	66801286
RENASYS TOUCH Class II Power Cords	
Australia and New Zealand Power Cord	66801560
China Power Cord	66801561
Japan Power Cord	66801562
Brazil Power Cord	66801563
North America & Philippines Power Cord	66801564
United Kingdom Power Cord	66801565
Continental Europe Power Cord	66801566
South Africa and India Power Cord	66801567
RENASYS TOUCH Class I Power Supply	66801285
RENASYS TOUCH Class I Power Cords	
China Power Cord	66801056
Japan Power Cord	66801152
Brazil Power Cord	66801194
North America & Philippines Power Cord	66800193
United Kingdom Power Cord	66800213
Continental Europe Power Cord	66800291
South Africa and India Power Cord	66800302
Denmark Power Cord	66800196
RENASYS TOUCH Military Clinician User Manual	66020194
RENASYS TOUCH Military Home Healthcare User Manual	66020195
RENASYS TOUCH Military Service & Repair Manual	66020196
RENASYS TOUCH 300ml Canister with solidifier	66801273
RENASYS TOUCH 800ml Canister with solidifier	66801274
RENASYS TOUCH 300ml Canister without solidifier	66801275
RENASYS TOUCH 800ml Canister without solidifier	66801271
RENASYS TOUCH Carry Strap	66801276
RENASYS TOUCH Carry Bag	66801277
RENASYS TOUCH IV Pole/Bed Clamp	66801278
RENASYS TOUCH Transit Case	66801279
RENASYS TOUCH O-ring	66801283
RENASYS TOUCH Odor Filter	66801284

Caution statements

In order to ensure safe and proper performance, the following conditions must be met:

- All assembly, operation, adjustment, maintenance and/or repair should be carried out by qualified personnel authorised by Smith+Nephew.
- No modification of this equipment is allowed.
- If the pump is damaged, the performance could be affected; do not use the pump. Contact your Smith+Nephew authorised representative.
- Use only the AC power cord provided with the pump to prevent the potential for electrical shock hazard.
- If power supply or power cord are damaged, wires are frayed or exposed, do not use; use device's battery power.
- When necessary, the pump may be isolated from the electrical outlet by removing the detachable AC power cord.
- The electrical installation of the room must comply with the appropriate electrical wiring standards.
- The product must be used in accordance with this User Manual and all applicable labeling.

Battery Cautions

- This product contains a lithium-ion battery that is not serviceable by the user.
- Recharging of the battery should only be done using Smith+Nephew approved power supply and power cord specifically designed for use with this product.
- Follow local guidelines and the battery label for proper disposal.
- Improper disposal of the lithium-ion battery may result in fire, explosion and burns.
- Do not puncture, crush, incinerate or expose the battery to temperatures exceeding 100°C/212°F.
- Handle damaged or leaking batteries with caution to avoid injury.
- Failure to comply with these conditions will void any pertinent warranties.

This User Manual is not intended as a guarantee or warranty. It is intended only as a guide. For medical questions, please consult a clinician.

Essential performance

Essential Performance of the RENASYS TOUCH Pump, for safe operation, is to maintain the vacuum delivered by the pump within its specification for pressure selected, to provide Negative Pressure Wound Therapy (NPWT).

Contact your Smith+Nephew representative, distributor or authorised provider if service or additional guidance is required.

Warranty

For Warranty Terms and conditions, please refer to your country specific element at the following link:

<https://www.smith-nephew.com/en-us/product-terms-conditions-and-warranties>

If during the use of this device you believe that a serious incident has occurred, please report it to the manufacturer and your competent authority. complaints@smith-nephew.com

Icon and symbol glossary

Operation buttons



Power Press and hold for 2 seconds to power On or Off pump.



Start/Pause Therapy Press to begin therapy. Press to pause therapy when therapy is active.



Lock/Unlock Press and hold for 2 seconds to lock or unlock touchscreen and Start/Pause Therapy button.

Status indicator

Green Therapy is active
All conditions normal

Yellow Alarm state
Attention required

Off No therapy; inactive

External power indicator

Green Pump connected to power supply

Off Pump not connected to power supply

Status bar

YYYY-MM-DD Date

HH:MM Time

Therapy indicator



- Not delivering therapy: gray



- Delivering therapy: rotating orange

Alarm volume indicator



- High volume: three bars



- Medium volume: two bars



- Low volume: one bar

Battery indicator



- Battery full/charged: green



- Battery charging: lightning bolt



- Battery low: yellow



- Battery critically low: empty with red line



- Battery failure: gray with red line



- Critical Battery Shutdown: red

Home and delivering therapy screens



Increase set point



Decrease set point



Continuous therapy mode

Maintains selected therapy level



Intermittent therapy mode

Cycles between selected set points of active therapy and low/no therapy



Y-Connect Off

Select if connecting one dressing to pump



Y-Connect On

Select if connecting two dressings to pump



Navigate to **Home** screen



Interface locked

When displayed behind therapy set point, indicates touchscreen and **Start/Pause Therapy** button are locked



Current Intermittent therapy cycle time



Next Intermittent therapy set point and cycle time

Menu navigation

**Settings**

Press to access the settings menu.

**Alarm volume****Compression rate****Change mode
Clinician****Change mode
Patient****Change Mode
Maintenance****Language****Set Date and Time****Flow meter****Restore Presets****Patents****Device information****Pump Activity Log**

Press to access the log screen.

**Overview Toggle****Detailed View Toggle****Help ***

Press to access Help menu.

**Home *** Press to navigate
to the Home screen.**Back ***

Return to the previous screen.

**Accept**

Press to continue task.

**Cancel ***

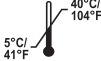
Press to cancel task or close screen.

Alarm screens

**Alarm indicator**

Indicates an error in the system

**Return to Alarm Screen**Press to return to alarm screen
you navigated away from**Help**Press for troubleshooting
assistance.**Pause Alarm**Press to temporarily silence
audible alarm.**Alarm silenced**Audible alarm is temporarily
silenced.**Active Therapy display and
Home icon**Displays active therapy set point
and therapy mode (Blank if
therapy is not active)Press to navigate to Home
screen.**Continuous therapy****Intermittent therapy****Flow Meter**Assists in locating leaks in the
system.* **Note:** icons may appear in different colors on
different screens

	Do not use if package is damaged		Keep dry		Catalogue number
	Do not re-use		Temperature limit 5°C/ 41°F 40°C/ 104°F		Serial number
	Consult instructions for use Electronic instructions for use available at: ifu.smith-nephew.com		Keep away from sunlight		Batch code
	Caution		Medical Device		Date of manufacture
	Enclosure protected against ingress of small objects (>2.5mm in width) and light water spray		Unique Device Identifier		Use-by date
	IP34		Green Dot		Manufacturer
	Humidity limitation 93% 15%		European Importer		Single patient multiple use
	Refer to instruction manual / booklet		Authorised representative in the European Community/ European Union		Caution: U.S. Federal law restricts this device to sale by or on the order of a physician
	Biological risks		Atmospheric pressure limitation 106kPa 70kPa		Defibrillation proof type BF applied part
	Direct current		Input Port IEC 60878-5034		MR Unsafe - keep away from magnetic resonance imaging (MRI) equipment
	Alternating current		EU: Not for general waste		Non-ionizing electromagnetic radiation
	ETL listing mark		Class II equipment IEC 60417-5172		CE Mark

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