

Date: 06 April 2022

Urgent Field Safety Notice NIPPY 4, NIPPY 4+ Ventilators

For Attention of*:Distributors, Customers and Clinical Users of NIPPY 4 and NIPPY 4+ Ventilators

Contact details of local representative (name, e-mail, telephone, address etc.)*

This could be a distributor or local branch of the manufacturer. To be added at the appropriate stage in the different local languages



Urgent Field Safety Notice (FSN) Nippy 4, Nippy 4+ Ventilators

1. Information on Affected Devices* 1. Device Type(s)*					
Portable Ventilator					
1 2. Commercial name(s)					
NIPPY 4, NIPPY 4+					
3. Unique Device Identifier(s) (UDI-DI)					
. 07321822260001, 07321822310003					
4. Primary clinical purpose of device(s)*					
Nippy 4:					
Nippy 4 is intended to provide non-invasive or invasive ventilation for adult or pediatric patients weighing over 10 kg (22 lbs) who require long-term support or mechanical ventilation for respiratory insufficiency or respiratory failure, with or without obstructive sleep apnea. Nippy 4 is intended for spontaneously breathing patients.					
Nippy 4+: The Nippy 4+ ventilator (with or without the SpO2 and CO2 sensor) is intended to provide continuous or intermittent ventilatory support for the care of individuals who require mechanical ventilation. Specifically, the ventilator is applicable for paediatric through adult patients weighing more than 5 kg (11 lbs.) The Nippy 4+ with the SpO2 is intended to measure functional oxygen saturation of arterial hemoglobin (%SpO2) and pulse rate. The Nippy 4+ with the CO2 sensor is intended to measure CO2 in the inspiratory and expiratory gas. The device is intended to be used in home, institution, hospitals and portable applications such as wheelchairs and gurneys. It may be used for both invasive and non invasive ventilation. Nippy 4+ is not intended to be used as an emergency transport or critical care ventilator.					
5. Device Model/Catalogue/part number(s)*					
. 226000, 231000					
6. Software version					
NIPPY 4: firmware version 2.1.4 or earlier (i.e. lower number) NIPPY 4+: firmware version 4.1.4 or earlier (i.e. lower number)					
1 7. Affected serial or lot number range					
Nippy 4 serial number ranges Y******, D******, K*******, M01****- M1403**					
Nippy 4+ serial number ranges Y******, D******, K*******, M01****- M1403**					
(* asterisk denotes any digit 0-9)					
1 8. Associated devices					
Not applicable.					

2 Reason for Field Safety Corrective Action (FSCA)*
Description of the product problem*

2	The NIPPY 4 and NIPPY 4+ ventilators are designed with two processors which monitor
	each other continually during treatment. Each processor is programmed to generate an
	alarm if it does not get a signal from the other processor within milliseconds range.
	During an internal bench test of this processor monitoring function, Breas has discovered
	an exceptional condition where a forced shutdown of one of the processors in the
	ventilator could cause the ventilator to stop treatment without alarming. The test was
	performed as a challenge test using a special, internal version of the ventilator firmware,
	which contains code that is not present in any released version of the firmware.
2	Hazard giving rise to the FSCA*
	Breas has not received any complaints that can be linked to this exceptional condition,
	and we are not aware of any defect in the current hardware or firmware that could
	cause this condition in the released device configurations.
	Out of an abundance of caution, Breas has decided to correct this potential issue with
	a mandatory firmware upgrade even if there is no confirmed complaint or incident.
2	3. Probability of problem arising
	Probability of harm has been estimated to Improbable, less than 2×10 ⁻⁸
2	4. Predicted risk to patient/users
	If the defect would develop into a failure AND the instructions to monitor a ventilator
	dependent patient are NOT followed, the health consequences could potentially be
	Permanent impairment or life threatening if medical intervention is not obtained.
2	5. Further information to help characterise the problem
	N/A
2	6. Background on Issue
	The issue was found during an internal bench test.
2	7. Other information relevant to FSCA
	N/A

	3. Type of Action to mitigate the risk*					
3.	1.	1. Action To Be Taken by the User*				
		□ Identify Device	☐ Quar	antine Device	☐ Return Device	☐ Destroy Device
		☑ On-site device modification/inspection				
		☐ Follow patient management recommendations				
		☐ Take note of amendment/reinforcement of Instructions For Use (IFU)				
		☐ Other	□ None	•		
		Firmware upgrade to the following firmware versions:				
		Nippy 4: Version 2.1.7 or later Nippy 4+: Version 4.1.7 or later				
3.	2.	By when should the action be complete		•	e within 30 (thirty) days rade within 12 (twelve)	

3.	3.	Particular considerations	for: (N	lo particular cor	nsiderations.)
		Is follow-up of patients or No	review of patient	s' previous resu	ults recommended?
3.	4. Is customer Reply Required? *		Yes		
	(If yes, form attached specifying deadline for return)				
3.	5. Action Being Taken by the Manufacturer				
		☐ Product Removal	□ On site device	madification/inan	action
			☐ On-site device	•	ection
		. •	☐ IFU or labelling	cnange	
		Other	☐ None		
	 Communication to distributors/user of Field Safety Notice/Field Safety Corrective Action. Release of updated firmware versions. 				ce/Field Safety Corrective
3	6.	By when should the action be completed?	30 April 20	23	
3.	7.	Is the FSN required to be /lay user?	communicated to	the patient	No
3	8. If yes, has manufacturer provided additional information suitable for the patient/lay				uitable for the patient/lav
	user in a patient/lay or non-professional user information letter/sheet?				
	No Not appended to this FSN				
	l .	110 110t appended to t			

	4. General Information*				
4.	1. FSN Type*	New			
4.	For updated FSN, reference number and date of previous FSN	N/A			
4.	3. For Updated FSN, key new inform	ation as follows:			
	N/A				
4.	4. Further advice or information already expected in follow-up FSN? *	No			
	5. If follow-up FSN expected, what is the further advice expected to relate to:				
4	N/A				
	IV/A				
4	Anticipated timescale for follow- up FSN	N/A			
4.	7. Manufacturer information				
	(For contact details of local representative	e refer to page 1 of this FSN)			
	a. Company Name	Breas Medical AB			
	b. Address	Företagsvägen 1, SE-435 33 Mölnlycke, Sweden			
	c. Website address	www.breas.com			
4.	8. The Competent (Regulatory) Auth	ority of your country has been informed about this			
	communication to customers. * YE	ES .			
4	9 List of attachments/appendices:	Cover letter FSN Customer Reply Form			

4.	4.	10. Name/Signature	Ivan Liljegren, SVP Global Quality Assurance and Regulatory Affairs

Transmission of this Field Safety Notice

This notice needs to be passed on all those who need to be aware within your organisation or to any organisation where the potentially affected devices have been transferred. (As appropriate)

Please transfer this notice to other organisations on which this action has an impact. (As appropriate)

Please maintain awareness on this notice and resulting action for an appropriate period to ensure effectiveness of the corrective action.

Please report all device-related incidents to the manufacturer, distributor or local representative, and the national Competent Authority if appropriate, as this provides important feedback..*

Note: Fields indicated by * are considered necessary for all FSNs. Others are optional.