Appendix B: Authorized Ventilators, Ventilator Tubing Connectors, and Ventilator Accessories *Updated: May 22, 2020*

To be added to **Appendix B** (below), ventilators, ventilator tubing connectors, and ventilator accessories must be determined to meet the applicable conditions and criteria for safety, performance and labeling set forth in <u>Section II</u>, <u>Section IV</u>, and <u>Appendix A</u>. FDA will add a ventilator, ventilator tubing connector, and ventilator accessory to the list of authorized products in **Appendix B** (below) upon submission of a request from a sponsor as described in the Scope of Authorization Section of the <u>Letter of Authorization</u> (Section II) and pursuant to the Conditions of Authorization (Section IV) in this EUA and based on FDA's review and concurrence.

Ventilators

Manufacturer		Device Description	Intended Use	Date of Authorizatio n
Beijing Aeonmed Co., Ltd	VG70 ventilator	Critical Care Ventilator	Mechanical ventilation of patients in ICU	March 25, 2020
Shenzen Mindray Bio- medical Electronics	Mindray SV300/SV600/SV8 00 ventilators	Critical Care Ventilator	This product is intended to provide ventilation assistance and breathing support for adult, pediatric and infant patients	March 28, 2020
	LTV2 model 2200 and LTV model 2150	Critical Care Ventilator	LTV2 model 2200 and 2150	
RESMED		Ventilator, Continuous, Minimal Ventilatory Support, Facility Use	The Stellar 150 is intended to provide ventilation for non-dependent, spontaneously breathing adult and pediatric patients (30 lb/13 kg and above) with respiratory insufficiency, or respiratory failure, with or without obstructive sleep apnea. The device is for noninvasive use, or invasive use (with the use of the ResMed Leak Valve). The iVAPS mode with optional AutoEPAP is intended for patients weighing more than 66lb (30kg). Operation of the device includes both stationary, such as in hospital or home, or mobile, such as wheelchair usage	2020

RESMED	Lumis 150 VPAP	Ventilator,		March 30,
	ST	Continuous,	devices are indicated to provide non-	
		Minimal	A	Amended
		Ventilatory	weighing more than 30 lbs (13 kg),	April 17, 2020
		· · ·	or more than 66 lbs (30kg) in iVAPS	
		Use	mode, with respiratory	
			insufficiency or obstructive sleep	
			apnea (OSA). They are intended for	
			home and hospital use.	
			The ResMed Lumis 150 VPAP ST	
			devices can be used with an	
			attachable humidifier that is intended	
			for single patient use in the home	
			environment and re-use in a	
		x x	hospital/institutional environment.	
RESMED	GA ST	Ventilator,	The GA non-invasive ventilator is an	
		Continuous,		2020
		Minimal	augment patient breathing. It is	
		Ventilatory	intended solely for spontaneously	
		Support, Facility Use	breathing individuals who require	
		USC	mechanical ventilation: patients with respiratory failure, chronic	
			respiratory insufficiency, or	
			obstructive sleep apnea in a hospital	
			or other institutional settings under	
			the direction of a physician.	
			the direction of a physician.	
			The ventilator is intended to support	
			patients weighing 20 kg (44 lb) or	
			greater.	
			The ventilator is intended to be used	
			by qualified medical professionals,	
			such as physicians, nurses, and	
			respiratory therapists.	
RESMED	Flexo Bi-Level ST	Ventilator,		March 31,
		Continuous,	1 2	2020
		Minimal	provide non-invasive ventilatory	
		Ventilatory	support of mechanical ventilation for:	
			Patients who are independent and	
		Use	spontaneously breathing, Patients	
			with respiratory insufficiency and	
			sleeping breathing disorders. It can	
			provide both a stable continuous	
			positive airway pressure and a bi-	
			level positive airway pressure. It is	
			not a life support ventilator. It is	
			intended to be used in the home or	
			professional medical environment.	
			The therapeutic pressure is	
			prescribed by a physician according	
	<u> </u>	X 7 (1)	to patients' condition.	M 1 21
RESMED	AirCurve	Ventilator,		March 31,
	ST	Continuous,	1 5	2020
1		Minimal	insufficiency.	Amended

		Ventilatory	The AirCurve ST device is indicated	April 17 2020
		•	for the treatment of obstructive sleep	April 17, 2020
		Use	apnea (OSA) in patients weighing	
		0.50	more than 66 lb (30kg). It is intended	
			for home and hospital use.	
Amsino	YUWELL®	Ventilator, Non-		March 31,
Allishio	YH-730 Bi-level	Continuous		2020
	PAP and YH-830	Continuous	syndrome in patients	2020
	Bi-level PAP		weighing more than 66lb (30kg). It is	
	DI-IEVEI FAF		intended both for home use and	
			hospital use. The water tank	
			is intended for single patient use in the home environment and re-use in a	
			hospital/institutional	
T (Vantilatan	environment.	Manah 21
Inovytec	Ventway Sparrow		5 1	March 31,
		Continuous	1	2020
			intermittent ventilatory support for	
			the care of individuals who require	
			mechanical ventilation. Specifically,	
			the ventilator is applicable for adult	
			and	
			pediatric patients weighing at least 5	
			kg (11 lb), who require the following	
			types of ventilatory support: SIMV - VC (PS), CPAP.	
			The Ventway Sparrow lung	
			ventilator is intended for emergency	
			use and during transportation. It may	
			be used for invasive or non-invasive	
			ventilation presets.	
			The ventilator is a restricted medical	
			device intended for use by qualified,	
			trained personnel under the direction	
			of a physician.	
Philips	VX850 Ventilator			April 1, 2020
Respironics		Ventilator	provide continuous or intermittent	
			respiratory support and monitoring of	
			pediatric and adult patients. The	
			VX850 is intended to be used in a	
			hospital or other institutional	
			healthcare environment and is	
			intended for intra-facility transport.	
			The VX850 ventilator is intended for	
			use by qualified, trained personnel	
			under	
			direction of a physician. The VX850	
			is intended for use with pediatric	
			(infants) ages 2 months to 2 years	
			and weighing 5 kg or greater, up to	
			and including adult patients.	
BMC Medical	Luna G3 BPAP	Ventilator,	The G3 B25A BPAP System is a Bi-	April 2, 2020
CO., LTD	25A- LG3700	Continuous,	level PAP (Bi-level Positive Airway	
·		Minimal	Pressure) device, which is intended	
		Ventilatory	to provide non-invasive ventilation	

BMC Medical Co., Ltd.	Y-30T	Use Ventilator, Continuous, Minimal Ventilatory	Bi-level PAP (Bi-level Positive Airway Pressure) device, which is intended to provide non-invasive ventilation for patients with obstructive Sleep Apnea (OSA) and Respiratory Insufficiency. Y-30T device is intended for adult patient by prescription in the home or hospital/institutional environment. This device is not intended for life support. The optional Heated Humidifier used with the Y-30T device together is indicated for	April 2, 2020
0	Evita V800 and Evita V600	Critical Care Ventilator	taking humidifying and heating air from the device. The intensive care Ventilator Evita is intended for the Ventilation of adults, adolescents, children, infants and neonates. This device provides mandatory Ventilation modes and Ventilation modes for supporting spontaneous breathing as well as Ventilation monitoring	April 2, 2020
Dragerwerk AG & CO. KGaA	Babylog VN800 and VN600	Critical Care Ventilator	The intensive care ventilator Babylog is intended for the ventilator of neonates from 0.4 kg (0.88 lb) up to 10 kg (22 lb), and pediatric patients from 5 kg (11 lb) up to 20 kg (44lb) bodyweight. This device provides mandatory ventilation modes and ventilation modes for supporting spontaneous breathing as well as ventilation monitoring.	April 3, 2020
GE Healthcare	pNeuton Model A-E Ventilator	Ventilator, Continuous, Facility Use	The pNeuton Ventilator is intended for continuous mechanical ventilation of patients in the following patient populations and use locations: Patient population - adult / pediatric patients 23 Kg and greater who require the following general types of ventilatory support: • positive pressure ventilation delivered invasively (via an ET tube) or non-invasively (via a mask) •CMV and IMV modes of ventilation •with or without PEEP / CPAP •with oxygen or a mixture of air and	April 3, 2020

			oxygen	
			oxygen	
			The ventilator is suitable for use in:	
			•Hospitals and alternate care units to	
			meet the needs for mechanical	
			ventilation	
			•Pre-hospital transport applications	
			including accident scene, emergency	
			rescue vehicles	
			•Hospital ICU transport applications	
			including emergency, radiology,	
			surgery and post anesthesia/recovery	
			•Air transport via helicopter or fixed	
			wing	
Covidien LLC	Puritan Bennett	Ventilator,	The Puritan Bennett 560 Ventilator is	April 5, 2020
	560 Ventilator	Continuous,	indicated for the continuous or	1
	System		intermittent mechanical ventilatory	
			support of patients weighing at least	
			11 lb (5 kg) who require mechanical	
			ventilation. The ventilator is a	
			restricted medical device intended for	
			use by qualified, trained personnel	
			under the direction of a doctor. It is	
			essential to read, understand, and	
			follow these instructions before using	
			the Puritan Bennett 560 Ventilator.	
			Specifically, the ventilator is	
			applicable for adult and pediatric	
			patients who require the following	
			general types of invasive or non-	
			invasive ventilatory support, as	
			prescribed by an attending doctor:	
			•Positive Pressure ventilation	
			•Assist/Control, SIMV, or CPAP	
			modes of ventilation	
			•Breath types including Volume	
			Control, Pressure Control, and	
			Pressure Support	
			The ventilator is suitable for use in	
			institutional, home, and portable	
			settings. It is not intended for use in	
			Emergency Medical Service (EMS)	
			such as an emergency transport.	
CoLabs	COVID Ventor	Emergency	The COVID Ventor system is an	April 6, 2020
		Ventilator	emergency use ventilator used to	
			provide adult patients with	
			emergency ventilatory support when	
			no alternative FDA-approved	
			ventilators are available. The	
			COVID Ventor System consists of	
			the reusable Ventor Console	
			(Console) and the single use,	
			disposable Ventor-Specific Breathing	

MEKICS Co,. Ltd	MTV1000 ventilator	Ventilator, Continuous	Circuit (Breathing Circuit). The COVID Ventor is able to provide Pressure Controlled, Pressure Supported, and Volume Controlled long-term ventilatory support in emergency situations MTV1000 ventilator is designed for use on patient population sizes from pediatric through adult who require respiratory support or mechanical ventilation and weigh a minimum of 5.0 kg. It is suitable for service in hospitals to provide continuous positive pressure ventilatory support using medical oxygen and compressed medical air from internal air sources to deliver oxygen concentrations of 21 % to 100 %. Ventilatory support can be delivered	April 6, 2020
Drägerwerk AG & Co. KGaA	Atlan A350 and Atlan A350 XL	Gas-Machine, Anesthesia	 invasively or noninvasive. This device is intended for use in anesthetizing adults, pediatric patients, and neonates. The device can be used for mechanical ventilation, manual ventilation, pressure-supported spontaneous breathing, and spontaneous breathing. The device is equipped with the following basic functions: Ventilation monitoring Inspiratory O2 measurement Device monitoring Anesthetic gas receiving system The following options are additionally available: Patient-gas measurement module for O2, CO2, N2O, and anesthetic gases O2 insufflation Anesthesia is achieved through a mixture of pure oxygen and Air (medical compressed air) or pure oxygen and nitrous oxide, with the addition of volatile anesthetic agents. Ventilation is accomplished on the patient through a laryngeal mask, a breathing mask, or an endotracheal tube. The integrated breathing system can be used with partial rebreathing (low-flow or minimum-flow). 	April 7, 2020
VenTec Life Systems	V+Pro Emergency Ventilator	Ventilator, Continuous	VOCSN Unified Respiratory System is intended to provide continuous or intermittent ventilatory support for	April 7, 2020

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			the care of individuals who require	
			mechanical ventilation. It may be	
			used in invasive and non-invasive	
			applications. VOCSN is intended for	
			pediatric through adult patients	
			weighing at least 5 kg. It is intended	
			for use in home, hospital,	
			institutional, and transport settings,	
			including portable applications.	
AMBLIL ANC	Models 6000S,	Emergency	Model 6000S - The 6000S ventilator	April 8 2020
TECH.CO.,LT		Transport	is intended to provide continuous	
	13, 17	Ventilator	ventilation for patients who require	
D		Ventilator	invasive or noninvasive respiratory	
			support and weigh more than 15KG	
			(Infants, children, adults). The 6000S	
			ventilator offers IPPV (Intermittent	
			Positive Pressure Ventilation Mode),	
			AC (Assisted Control Ventilation	
			Mode), CPR auxiliary modes, etc.	
			The 6000S ventilator can display the	
			monitoring pressure waveform and	
			interface parameters (Pmax, Pmean)	
			in real time. The 6000S Ventilator is	
			intended for use in emergency	
			treatment outside the hospital and in-	
			hospital transportation, and it runs	
			under the central oxygen supply of	
			the hospital or an oxygen cylinder	
			pressure greater than 2.7Bar.	
			Model T5 - The T5 ventilator is	
			intended to provide continuous	
			ventilation for patients who require	
			invasive or noninvasive respiratory	
			support (Infants, children, adults),	
			with a tidal volume greater than	
			50ml. The T5 ventilator offers	
			capacity control (IPPV, VAC,	
			VSIMV), pressure control (PCV,	
			PAC, PSIMV), noninvasive	
			breathing (CPAP) modes, etc. It also	
			has CPR auxiliary function and	
			ETCO2 detection function. The T5	
			ventilator can display pressure	
			waveform, ETCO2 waveform and	
			parameters (pressure, tidal volume,	
			ETCO2) in real time. The T5	
			ventilator is intended for use in out-	
			of-hospital emergency treatment	
			(first aid treatment on the ground, at	
			sea, and in the air) and in-hospital	
			transportation run under the central	
			oxygen supply of the hospital or an	
			oxygen cylinder pressure greater than	
			2.7Bar.	

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			Model T7 - The T7 ventilator is intended to provide continuous ventilation for patients with weight greater than 2kg (infants, children, adults) who require invasive or noninvasive respiratory support, with a tidal volume greater than 20ml. The T7 ventilator offers volume control (IPPV, VAC, VSIMV), pressure control (PCV, PAC, PSIMV), non- invasive (CPAP, CPAP + PSV, BiPPV, APRV), advanced ventilation (PRVC, PRVC + PSV, APRV + PSV), resuscitation mode (CPR, RSA, HFNC), etc.; and has functions such as ETCO2, ring chart, respiratory mechanics and trend chart. The T7 ventilator can display pressure waveform, flow waveform, tidal volume waveform, ETCO2 waveform and interface parameters (pressure, tidal volume, ETCO2, FIO2) in real time. The T5 ventilator is intended for use in out-of-hospital emergency treatment (first aid treatment on the ground, at sea, and in the air) and in-hospital transportation run under the central oxygen supply of the hospital or an oxygen cylinder pressure greater than 2.7Bar.	
Philips Respironics	E30 ventilator	Ventilator, Continuous, Minimal Ventilatory Support, Facility Use	The Philips Respironics E30 ventilator is intended to provide invasive and non-invasive ventilatory support for individuals with Respiratory Insufficiency. It is specifically for the care of adult and pediatric patients >7 years of age and >18kgs. It is intended to be used in the hospital or other institutional healthcare environments, as well as spaces converted for the care of large numbers of COVID-19 patients (e.g. convention centers, university dormitories, motels). The Philips Respironics E30 ventilator is intended for use by qualified, trained personnel under the direction of a physician.	April 8, 2020
Incoba LLC	Apogee	Oxygen Conserver	The Apogee gas conserver is intended as a delivery device for medical grade oxygen from high-	April 8, 2020

pressure oxygen cylinders. This is an ambulatory device which allows patients to ambulate longer than they would with a continuous flow regulator on the same cylinder. The Apogee is intended to be used in the hospital, healthcare facilities, or home care environments.The Apogee Device shall be used by trained professionals either in a doctor's office or clinical setting initially. However, once recommended by the physician or healthcare provider the device can be prescribed for use within a home environment for subsequent
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treatments.
The Apogee Device essential
performance is to provide short puffs
of air during operation as noted on
the display for nasal output L or R. In
the event air is not delivered use the
bypass adaptor and return the device
to Dynaris for immediate
replacement.
The Apogee unit is a regulated
device and carries warnings and
cautions regarding safe use of this
product. Failure to read this manual
and adhere to the warnings and
caution stated within the manual can
affect device performance and
potentially harm to the user.
The Apogee Device and its
accessories do not contain any
natural rubber latex-containing
components.
SecondBreath Pneumatic Emergency The SecondBreath LLC Pneumatic April 13, 20
LLC Resuscitator device Resuscitator Resuscitator is an electric pneumatic
ventilator. This system uses
compressed air to drive a pneumatic
cylinder equipped with a plunger to
compress an AMBU bag and
provides the patient with positive
inspiratory pressure. This device is
intended only for use for transport or
emergency resuscitation unless there
are no other ventilation modalities
available due to emergency resource
limitations. The user can set tidal
volume (TV), inspiratory to

expiratory (LE) ratio, respiratory rate, expiratory pause, and inspired oxygen (FIC2) at a constant 1.0 rate. Pure oxygen can be delivered through the AMBU bag. The device can only be operated in volume control (VC) continuous end- tidal carbon dioxide monitoring is required for safe use of this device since there are no alarms for TV not met/ventilation mode. Continuous end- tidal carbon dioxide monitoring is required for safe use of this device since there are no larms for TV not met/ventilation mode. Continuous end- tidal carbon dioxide monitoring is required for safe use of this device since there are no larms for TV not met/vexceeded. Additionally, power supply needs to be monitored as there is a loss of power alarm but no backup power supply to provide ventilation.April 14, 2020University of Medical School and Boston Scientific CorporationEmergency Resuscitator ResuscitatorThis device is intended for pulmonary resuscitation of adult patients for whom no other appropriate means of mechanical ventilation exists due to resource limitations from pandemic conditions in the region of use.April 14, 2020 (CorporationUmbulizerUMV-001 EUAEmergency ResuscitatorThe Umbulizer UMV-001 is intended April 14, 2020 to provide ventilatory support to adults when Positive Pressure Ventilation (PPV) is required to manage Accut Respiratory Pailure (ARF). The Umbulizer series is appropriate for adults that weigh at least 45 kg (approximately 99 lbs). It is intended to be used in a pre- hospital, field hospital, and transport environments, as well as hospital settings where sufficient standard ventilators are not available.HillromMetaNeb 4Intermittent Positive Pressure bositial, fi			•		
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ropulation – 5 years old and above				Population – 5 years old and above	
whom can follow verbal instructions.					
Environment of Use – Hospitals, sub-					
acute and nursing facilities, physician					
offices, clinics, and home settings.					
Spiro Devices Spiro Wave Emergency The Spiro Wave is an automated April 17, 2020	Spiro Devices	Spiro Wave	Emergency		April 17, 2020
LLC Resuscitator manual resuscitator that has been	-				
designed specifically to meet AAMI					
guidelines for emergency use					
resuscitators and provide respiratory					

			support for adult patients in acute	
			respiratory failure. It does not replace	
			standard mechanical ventilation but	
			acts as a bridge to standard	
			mechanical ventilation by increasing	
			the functionality of existing manual	
			resuscitator bags.	
			The Spiro Wave is compatible with	
			existing manual resuscitator bags,	
			and clinicians can control key	
			ventilatory parameters.	
			The Spiro Wave is designed to	
			provide basic ventilator functionality	
			to a single adult patient, in an	
			emergency situation when there are	
			no other options available to the patient.	
RESMED	AirCurve 10 ST-A	Ventilator,	A	April 17, 2020
		Continuous,	to provide noninvasive ventilation for	·
		Minimal	patients weighing more than 30lbs	
		Ventilatory	(13 kg) with respiratory insufficiency	
		Support, Facility	or obstructive sleep apnea (OSA).	
		Use	The iVAPS mode is indicated for	
			patients weighing more than 66lbs	
			(30 kg).	
			The AirCurve 10 ST-A is intended	
			for home and hospital use.	
			The humidifier is intended for single	
			patient use in the home environment	
			and re-use in a hospital/institutional	
			environment.	
PVA	PREVENT	Emergency	PREVENT is indicated for	April 17, 2020
		Resuscitator	emergency resuscitation with	
			appropriate critical care monitoring	
			on adult patients weighing at least 66	
			pounds that require mechanical	
			respiratory support where standard	
			ventilators are not available during	
			the National Emergency.	
3B Medical	Luna G3 B30VT	Ventilator,	The G3 B30VT BPAP is a Bi-level	April 20, 2020
Inc		Continuous,	PAP (Bi-level Positive Airway	
		Minimal	Pressure) device, which is intended	
		Ventilatory	to provide non-invasive ventilation	
		Support	for patients with Obstructive Sleep	
			Apnea (OSA) and Respiratory	
			Insufficiency. These devices are	
			intended for adult patients by	
			prescription in the home or	
			hospital/institutional environment.	
Resvent	iBreeze PAP	Ventilator,	The iBreeze PAP system delivers	April 20, 2020
		Continuous,	positive airway pressure therapy for	
		IN 4 1 1		
		Minimal Ventilatory	the treatment of Obstructive Sleep Apnea (OSA) in spontaneously	

		G (F '1')	1 .1 1	
			breathing patients weighting over	
		Use	30kg (66lbs) for use in the home,	
			hospital, or institutional environment.	
Virgin Orbit	Virgin Orbit	Emergency		April 22, 2020
	Resuscitator	Resuscitator		Amended
			. .	April 23, 2020
			age) requiring mechanical ventilation	
			during declaration of National	
			Emergency where ventilator need has	
			surpassed ventilator supply and no	
			other ventilatory support devices are	
			available.	
Amsino	YUWELL YH-725	Ventilator, Non-	The YH-725 Bi-level device is	April 23, 2020
International	BiPAP	Continuous	indicated for treatment of sleep apnea	
Inc's			hypopnea syndrome in patients	
			weighing more than 66lb (30kg). It is	
			intended both for home use and	
			hospital use. The humidifier is	
			intended for single patient use in the	
			home environment and re-use in a	
			hospital/institutional environment.	
AutoMedX Inc.	SAVe II Series	Powered	The SAVe II series are intended to	April 24, 2020
	Ventilator	Emergency	provide ventilatory support for adults	-
		Ventilator	during CPR or when Positive-	
			Pressure Ventilation (PPV) is	
			required to manage Acute	
			Respiratory Failure (ARF) or other	
			situations where mechanical	
			ventilation is needed. The SAVe II	
			series are appropriate for adults that	
			weigh at least 45 kg. It is intended to	
			be used in pre-hospital, field	
			hospitals, outpatient environments,	
			hospitals, ICU's, transport	
			environments or any other healthcare	
			environment requiring the use of	
			ventilator.	
SLS Medical	CP101/CP101S	Ventilator, Non-	This CPAP (Continuous Positive	April 24, 2020
Technology	Series	Continuous	Airway Pressure) product can	•
Corp. Ltd.			provide a continuous and positive	
			airway in patients with respiratory	
			insufficiency. This product provides	
			4~20 cmH2O of positive airway	
			pressure and is equipped Oxygen	
			Inlet to allow multiple Oxygen	
			sources i.e. Oxygen generator. It is	
			intended to be used under	
			prescription of a physician.	
Zhejiang	LA Series	Ventilator, Non-	The LifeMed LA Series Ventilator is	April 24, 2020
LifeMed			a ventilator indicated for the	
Technology	LA20A, LA20B,	-	treatment of respiratory insufficiency	
Co., Ltd.	LA20B, LA25B,		in patients weighing more than 30kg	
	LA25B		(66 lbs). It is intended for hospital	
			use. The built-in humidifier is	
			intended for repeated use by the same	
L	1	1	in the sum of the sum	1

			patient.	
Resvent	iBreeze 30STA	Ventilator, Non-	The iBreeze 30STA PAP system	April 27, 2020
Medical	device	Continuous	delivers positive airway pressure	
Technology			therapy for the treatment of	
CO., Ltd's			Obstructive Sleep Apnea (OSA) in	
			spontaneously breathing patients	
			weighing over 30kg (66lbs), it is for	
			use in the home, hospital, or	
			institutional environment.	
Shenzhen	CPAP Devices:	Ventilator, Non-	The subject device provides	April 28, 2020
Yamind	DM28-20C-G;	Continuous	noninvasive ventilation for patients	
Medical Tech	Auto CPAP		with obstructive sleep apnea. It is	
	Devices: DM28-		indicated for adult patients weighing	
	20A-W, DM28-		more than 30kg and can be used in	
	20A-WP;		homes and hospitals. It is not	
	BiPAP Devices:		intended for life support, or for	
	DM28-20S-G,		central sleep apnea. It may be used to	
	DM28-20SA-G,		improve the oxygenation and	
	DM28-20ST-G,		ventilation in the treatment of acute	
	DM28-25S-B,		respiratory illness or difficulty	
	DM28- 25SA-BP,		breathing.	
	DM28-25ST-BP,			
	DM28-30ST-B,			
	DM28-30ST-BP,			
	DM28-30STA-BP			
NASA Jet	VITAL ventilator	Emergency	The VITAL ventilator is intended to	April 30, 2020
Propulsion		Ventilator	provide continuous ventilatory	
Laboratory			support for adult (body weight	
			\geq 50 kg) patients who require	
			mechanical ventilation. VITAL	
			provides patients with emergency	
			ventilatory support when no	
			alternative standard ventilators are	
			available. The VITAL ventilator	
			is a restricted medical device	
			intended for use by qualified	
			healthcare provider who understands	
			the functionality of the device	
			operating under the direction of a	
			physician.	
Venti-Now	Venti-Now	Emergency		April 30, 2020
	Resuscitator	Resuscitator	indicated for continuous or	
	Model JM-P2020A		intermediate mechanical support of	
			adult patients who require	
			mechanical ventilation. The	
			resuscitator is a restricted medical	
			device intended for use by qualified,	

trained personnel under the direction	n
of a Physician for COVID-	
19/Emergency use when no FDA-	
cleared ventilators are available. It	S
essential to read, understand, and	
follow these instructions before using	ng
the Venti-Now resuscitator.	
The Venti-Now resuscitator is a	
volumetric device that compresses	ı
disposable BVM bag to create the	
positive pressure airflow to the	
patient. As such its use is applicable	
for use where a BVM unit is in use	
today. In addition, the unit has mea	ns
to control Tidal volume,	
Inhalation/Exhalation rates, and bp	m
that make it suitable for a broader	11
range of target patients than	
manually pumped BVM bags.	
	Mar. 1, 2020
Wilcox Wilcox PATRIOT Emergency PATRIOT SAVR is indicated for	May 1, 2020
Industries Corp SAVR Ventilator emergency continuous or intermitte	
mechanical support of adult patient	
when their ventilatory status cannot	
be maintained by high flow oxygen	
by nasal cannula, and a FDA cleare	d
ventilator is not available.	
Target Patients	
The SAVR is applicable for adult	
patients who require the general	
types of invasive or non-invasive	
ventilatory support, as prescribed by	ý
an attending doctor:	
Positive Pressure ventilation	
Assist/Control, SIMV mod	es
of ventilation	
The SAVR provides multiple alarm	s
states but minimal monitoring	
capability, and thus the level of	
patient criticality should be	
considered before use. It is not	
indicated for Level 3 Critical Care	
patients.	
	1
Target Environments	

			institutional and portable settings.	
			1 0	
			Target Operators	
			This ventilator must be used only	
			under the responsibility and on the	
			prescription of a doctor.	
			The ventilator may be operated by	
			the following caregivers:	
			Respiratory therapists	
			• Doctors	
		r.	• Nurses	1 2020
Elemaster	Mechanical	Emergency	· · ·	May 1, 2020
S.p.A.	Ventilator Milano	Ventilator	mechanical ventilator designed for	
Tecnologie Elettroniche	(MVM)		adult patients to provide emergency ventilatory support when no	
Lieutomene			alternative standard ventilators are	
			available.	
			The device should be used by:	
			• healthcare professionals responsible	
			for the treatment of a patient on	
			ventilation support equipment, and	
			• staff who will be performing	
			routine maintenance on the device.	
			The MVM is intended to provide	
			ventilation support for intensive	
			therapy during the COVID-19	
			pandemic for patients who require	
			mechanical ventilation and weigh	
			more than 40 kg (88 lbs).	
BMC Medical	Luna G3 BPAP	Ventilator,	The ventilator is intended to	May 2, 2020
CO., LTD.,	S/T- LG3800-G3	Continuous,	provide continuous ventilatory	
China	B30VT	Minimal	support for adult patients who	
		Ventilatory	require mechanical	
		Support	ventilation. The ventilator is a	
			restricted medical device intended	
			for use in hospitals and hospital-	
			type facilities, which provide	
			respiratory care for patients	
			requiring respiratory support.	
		r		M 0.0000
ZIBO	ZXH-550	Emergency		May 2, 2020
ZHONGXUN		Ventilator	provide continuous ventilatory	
MEDICAL			support for adult patients who	
EQUIPMENT			require mechanical	
CO. LTD			ventilation. The ventilator is a	

			restricted medical device intended for use in hospitals and hospital- type facilities, which provide respiratory care for patients requiring respiratory support.	
JIUXIN MEDICAL	JIXI H-100	Emergency Ventilator	The ventilator is intended to provide continuous ventilatory support for adult patients who require mechanical ventilation. The ventilator is a restricted medical device intended for use in hospitals and hospital- type facilities, which provide respiratory care for patients requiring respiratory support.	May 2, 2020
Vayu Global Health Innovations	Vayu bubble Continuous Positive Airway Pressure Circuit ("Vayu bCPAP')	Continuous Positive Airway Pressure Circuit	The Vayu bCPAP system is intended to provide continuous positive airway pressure in the hospital environment to spontaneously breathing neonates and infants, up to 5 kg in weight, that require respiratory support due to conditions associated with prematurity, such as Respiratory Distress Syndrome, or other conditions where the physician desires and prescribes CPAP.	May 5, 2020
Hunan Beyond Medical Technology Co., Ltd	BEYOND C20A CPAP	Ventilator, Continuous, Minimal Ventilatory Support	The C20A CPAP is designed for delivery of positive airway pressure to provide non-invasive ventilation for adult patients with respiratory insufficiency or obstructive sleep apnea (OSA) in home or hospital environment.	May 6, 2020
Hunan Beyond Medical Technology Co., Ltd	BEYOND B30P BiPAP	Ventilator, Continuous, Minimal Ventilatory Support	The B-30P BiPAP is designed for delivery of positive airway pressure to provide non-invasive ventilation for adult patients with respiratory insufficiency or obstructive sleep apnea (OSA) in home or hospital environment. The device is to be used only under the prescription of a licensed health care professional.	May 6, 2020
Guangzhou Hypnus	Hypnus ST730	Ventilator, Continuous,		May 6, 2020

Healthcare Co.,		Minimal	pressure to spontaneously breathing	
Ltd.		Ventilatory	patients weighing over 30kg with	
		Support	Obstructive Sleep Apnea (OSA) or	
		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	respiratory insufficiency. This device	
			is intended for hospital and home	
			use. It is not intended for patients	
			dependent on mechanical ventilation.	
AutoMedX Inc.	SAVe II+	Powered	-	May 7, 2020
Automedia Inc.	(M50016,	Emergency	provide ventilatory support for adults	Way 7, 2020
	M50017)	Ventilator	during CPR or when Positive-	
	W130017)	ventilator	Pressure Ventilation (PPV) is	
			required to manage Acute	
			Respiratory Failure (ARF) or other situations where mechanical	
			ventilation is needed. The SAVe II	
			series are appropriate for adults that	
			weigh at least 45 kg. It is intended to	
			be used in pre-hospital, field	
			hospitals, outpatient environments,	
			hospitals, ICU's, transport	
			environments or any other healthcare	
			environment requiring the use of a	
			ventilator.	
Taiyuan	Fabius Plus /	Gas Machine,		May 8, 2020
Shanghai	Fabius Plus XL	Anesthesia	anesthesia workstation	
Medical			for use in operating, induction	
			and recovery rooms. It may be used with O2, N2O,	
			and AIR supplied by a medical	
			gas pipeline system or by	
			externally mounted gas	
			cylinders.	
			Fabius plus is equipped with a	
			Fabius plus is equipped with a compact breathing system,	
			Fabius plus is equipped with a compact breathing system, providing fresh-gas decoupling,	
			Fabius plus is equipped with a compact breathing system, providing fresh-gas decoupling, PEEP, and pressure limitation.	
			Fabius plus is equipped with a compact breathing system, providing fresh-gas decoupling, PEEP, and pressure limitation.The following ventilation options	
			Fabius plus is equipped with a compact breathing system, providing fresh-gas decoupling, PEEP, and pressure limitation. The following ventilation options are available:	
			Fabius plus is equipped with a compact breathing system, providing fresh-gas decoupling, PEEP, and pressure limitation.The following ventilation options	
			 Fabius plus is equipped with a compact breathing system, providing fresh-gas decoupling, PEEP, and pressure limitation. The following ventilation options are available: Volume Controlled 	
			 Fabius plus is equipped with a compact breathing system, providing fresh-gas decoupling, PEEP, and pressure limitation. The following ventilation options are available: Volume Controlled Ventilation Pressure Controlled Ventilation (Optional) 	
			 Fabius plus is equipped with a compact breathing system, providing fresh-gas decoupling, PEEP, and pressure limitation. The following ventilation options are available: Volume Controlled Ventilation Pressure Controlled Ventilation (Optional) Pressure Support (Optional) 	
			 Fabius plus is equipped with a compact breathing system, providing fresh-gas decoupling, PEEP, and pressure limitation. The following ventilation options are available: Volume Controlled Ventilation Pressure Controlled Ventilation (Optional) Pressure Support (Optional) SIMV/PS (Optional) 	
			 Fabius plus is equipped with a compact breathing system, providing fresh-gas decoupling, PEEP, and pressure limitation. The following ventilation options are available: Volume Controlled Ventilation Pressure Controlled Ventilation (Optional) Pressure Support (Optional) SIMV/PS (Optional) Manual Ventilation 	
			 Fabius plus is equipped with a compact breathing system, providing fresh-gas decoupling, PEEP, and pressure limitation. The following ventilation options are available: Volume Controlled Ventilation Pressure Controlled Ventilation (Optional) Pressure Support (Optional) SIMV/PS (Optional) Manual Ventilation Spontaneous Breathing 	
			 Fabius plus is equipped with a compact breathing system, providing fresh-gas decoupling, PEEP, and pressure limitation. The following ventilation options are available: Volume Controlled Ventilation Pressure Controlled Ventilation (Optional) Pressure Support (Optional) SIMV/PS (Optional) Manual Ventilation Spontaneous Breathing Fabius plus is equipped with an 	
			 Fabius plus is equipped with a compact breathing system, providing fresh-gas decoupling, PEEP, and pressure limitation. The following ventilation options are available: Volume Controlled Ventilation Pressure Controlled Ventilation (Optional) Pressure Support (Optional) SIMV/PS (Optional) Manual Ventilation Spontaneous Breathing Fabius plus is equipped with an electrically driven and 	
			 Fabius plus is equipped with a compact breathing system, providing fresh-gas decoupling, PEEP, and pressure limitation. The following ventilation options are available: Volume Controlled Ventilation Pressure Controlled Ventilation (Optional) Pressure Support (Optional) SIMV/PS (Optional) Manual Ventilation Spontaneous Breathing Fabius plus is equipped with an 	

			volume (V), and inspiratory oxygen concentration (FiO2).	
Somnetics International, Inc.	Transcend 3 BiPAP	Ventilator, Non- Continuous	The Transcend 3 BiPAP is intended for the therapy of adults weighing over 66 pounds (30 kg) with mild to moderate respiratory distress. The device delivers positive airway pressure (PAP), specifically positive end-expiratory pressure (PEEP) with ventilatory support, to provide ventilation assistance and breathing support. The device is intended for use in healthcare settings.	May 8, 2020
Lanick Med Systems LLC	Lyra x1 and Lyra x2 Ventilators	Ventilator, Continuous, Facility Use	The LYRA xl ventilator is a mechanical ventilator designed to provide invasive and noninvasive, continuous or intermittent. respiratory support for pediatric and adult patients. Intended areas of use: • In the intensive care ward or in the recovery room. • During transfer of-ventilated patients within the hospital. The LYRA xl ventilator is intended for use by qualified. trained personnel under the direction of a physician and within the limits of its stated technical specifications. The LYRA x2 ventilator is a mechanical ventilator designed to provide invasive and noninvasive, continuous or intermittent, respiratory support for pediatric and adult patients. Intended areas of use: • In the intensive care ward or in the recove1y room • During transfer of ventilated patients within the hospital. The LYRA x2 ventilator is intended for use by qualified, trained patients within the hospital. The LYRA x2 ventilator is intended for use by qualified, trained personnel under the direction of a of a physician and within the limits of its stated technical specifications.	May 12, 2020

CMI Heatlh	Beijing Aeonmed	Emergency	The Shangrila510S is an emergency	May 15, 2020
	Shangrila510S		transport ventilator intended to be	
	5	*	used to provide ventilatory support in	
			the emergency rooms of hospitals,	
			transfer after operations, field and	
			occasions where first aid or transfer	
			is needed for care of adult ,pediatric	
			patients weighting at least 3.5 kg	
			who require mechanical ventilation.	
SysMed	VM series-		The device delivers positive pressure	May 18, 2020
-	DPAP20 Plus,		therapy for the treatment of	
-	DPAP25 Plus,		Obstructive Sleep Apnea or	
	DPAP25 Pro,		respiratory insufficiency in	
	DPAP30 Pro	-	spontaneously breathing adults	
		* *	weighing over 30kg (66 lbs). It is for	
			use in the home or	
			hospital/institutional environment.	
SysMed	Resware BI 20 S,	Ventilator,	The Resware, ZiZmer, and Aurora	May 20, 2020
(China) Co.,	Resware BI Auto	Continuous,	CPAP products provide positive	
Ltd	S, Resware BI 25	Minimal	pressure therapy for the treatment of	
	S/T, Resware BI 30	Ventilatory	obstructive sleep apnea or respiratory	
	S/T, ZiZ Auto,	Support	insufficiency in spontaneously	
	Aurora Bi-Level S,		breathing adults weighing over 30 kg	
	Aurora Bi-Level		(66 lbs). This product can be used in	
	S/T, Aurora Bi-		the home as well as in	
	Level Auto S		clinical/hospital environments.	
Guangzhou	BA825W, BA825,	Ventilator,	Hypnus Positive Airway Pressure	May 22, 2020
Hypnus	ST830W and	Continuous,	Device 8 Series are indicated to	
Healthcare Co.,	ST830	Minimal	provide non-invasive positive airway	
Ltd		Ventilatory	pressure to spontaneously breathing	
		Support	patients weighing over 30kg with	
			Obstructive Sleep Apnea (OSA), and	
			BPAP-T mode and BPAP-ST mode	
			can be used for respiratory	
			insufficiency. This device is intended	
			for hospital and home use. It is not	
			intended for patients dependent on	
			mechanical ventilation.	
Origin Medical	Panther 5 Model	Ventilator,	The PANTHER 5 ventilator is	May 22, 2020
Devices Inc.	P5DLVENT	Continuous,	intended to provide continuous	
		Facility Use	ventilation to adult patients requiring	
		2		
		•	respiratory support. The device is	
			· · · ·	

Manufacturer	Product Name	Device Description	Intended Use	Date of Authorization
Prisma Health	Ventilation	VESper allows multiple	A single ventilator fitted	March 25,
	Expansion Splitter	patients to be treated by a	with the Vent Splitter can	2020
	(VESper)	single ventilator	be used for multiple	2020
	(VLSper)	single ventilator	patients for ventilatory	
			support during the	
			COVID-19 pandemic	
			when individual ventilators	
			are not available or	,
			preemptively to increase	
			the potential of single-use	
			ventilators permitting	
			mechanical ventilation for	
			multiple patients	
			simultaneously	
Vent	Vent Multiplexor	Dual Patient Circuit	The Vent Multiplexor is	April 15, 2020
Multiplexor	vent Muniplexor	Connector	intended to provide	April 13, 2020
LLC		Connector	1	
LLC			temporary rescue mechanical ventilation for	
			dual patient ventilation	
			until an additional	
			ventilator is available to	
			resume single mechanical	
			ventilation or as soon as	
			respiratory recovery is	
			attained in either patient.	
MakeMedical	VentMI	Dual Patient Circuit	A single ventilator fitted	April 19, 2020
		Connector	with the VentMI Ventilator	•
			Splitter can be used for	
			two adult patients with the	
			same pathology for	
			ventilatory support for up	
			to fourteen (14) days	
			during the COVID-19	
			pandemic when individual	
			ventilators are not	
			available.	
Northwell	Northwell 3D	Ventilator Tubing Connector		April 29, 2020
Health, Inc.	Printed BiPAP		Printed BiPAP Adapter	
	Adapter		("Adapter") is intended for	
			use as an exhalation port	
			that enables invasive use of	Ē
			a bilevel positive airway	
			pressure (BiPAP) machine	
			with a pressure control	
			ventilation (PCV) option	
			as a pressure-controlled	
			ventilator.	
Formlabs Inc.	Formlabs 3D	Ventilator Tubing Connector		April 29, 2020
	Printed BiPAP		BiPAP Adapter	* / -
	Adapter		("Adapter") is intended for	
			use as an exhalation port	
			that enables invasive use of	2

r	T		
			a BiPAP with a pressure
			control ventilation (PCV)
			option as a pressure-
			controlled ventilator.
Covidien LLC	DAR Adult Dual	Dual Patient Circuit	The Adult Dual Breathing May 5, 2020
	Patient Breathing	Connector	Circuit can be used for two
	Circuit 301P14429		patients for ventilatory
			support during the
			COVID-19 pandemic
			when individual ventilators
			are not available to
			increase the potential of
			single-use ventilators
			permitting mechanical
			ventilation for two patients
			simultaneously.
Safe Flight	Safe Flight 9100-3	Patient Circuit	The intended use of the May 7, 2020
Instrument	Quad Vent		Safe Flight 9100-3
Corporation		Connector	Quad/Vent ventilator
Corporation			splitter is to enable a single
			ventilator to be shared
			between multiple patients
			for ventilatory support. Is
			intended to provide
			temporary rescue
			mechanical ventilation for
			multi-patient ventilation
			only when single
			mechanical ventilation is
			not possible due to
			shortage.
Safe Flight	Safe Flight 9100-1	Patient Circuit	The intended use of the May 7, 2020
Instrument	Quad Vent	Connector	Safe Flight 9100-1
Corporation			Quad/Vent ventilator
			splitter is to enable a single
			ventilator to be shared
			between multiple patients
			for ventilatory support. Is
			intended to provide
			temporary rescue
			mechanical ventilation for
			multi-patient ventilation
			only when single
			mechanical ventilation is
			not possible due to
			shortage.
Stryker	Flow Control Valve	Patient Circuit	The Flow Control Valve is May 8, 2020
Instruments		Connector	intended for use on
			patients suffering from
			acute respiratory
			failure. During the
			COVID-19 pandemic,
			when the number of
			patients requiring
			Pullonis requiring

			ventilation exceeds the	
			number of ventilators, the	
			Flow Control Valve	
			enables a single ventilator	
			to be used to provide	
			ventilator support to two	
			patients. The Flow Control	
			Valve is used to regulate	
			the flow once the breathing	
			circuit has already been	
			split by a T-piece. This	
			device is only intended to	
			be used in the setting of an	
			acute shortage of	
			ventilators, as a lifesaving	
			measure to provide acute	
			ventilatory support in	
			times of scarcity when	
			other standard single	
			ventilators are not	
			available. The Flow	
			Control Valve is only	
			suitable for use with	
			ventilators that have	
			separate inspiratory and	
			expiratory ports, such as	
			Critical Care Ventilators	
			and Anesthesia machines.	
			and Amesthesia machines.	
Valhalla	Single-Use	Dual Patient Circuit	The Single-Use 5/13/	2020
Medical Supply,		Connector	Emergency Ventilator 2-	2020
	Ventilator 2-Way	Connector	Way Manifold (vent	
	Manifold		splitter) is intended to	
			allow a single ventilator to	
			be used simultaneously to	
			provide ventilatory support	
			of two adult patients with	
			similar lung compliances	
			and respiratory needs	
			during the COVID-19	
			pandemic when individual	
			ventilators are not	
			available.	

Manufacturer	Product Name	Device Description	Intended Use	Date of Authorization
SMD	ReddyPort Mini	Elbow Connector for Mask	The ReddyPort Mini NIV	April 13, 2020
Manufacturing,	NIV Access Elbow		Access Elbow is intended	-
LLC			to provide an interface for	
			application of CPAP or bi-	
			level therapy. The elbow is	
			for single patient use in the	
			hospital/institutional	
			environment. The elbow is	
			to be used on patients 7	
			years or older	
			(>40lbs/18.2kg) for whom	
			CPAP or bi-level therapy	
			has been prescribed	
3B Medical,	3B Hi-Flow H80	Respiratory Humidifier	H-80 series humidifier is	April 14, 2020
Inc.			for the treatment of	
			spontaneously breathing	
			patients who would benefit	
			from receiving high flow	
			warmed and humidified	
			respiratory gases. This	
			device is for patients by	
			prescription in the home or	
			hospital/institutional	
			environment. The device is	
			only allowed to be used	
			after the physician	
			provides guidance for the	
			patient and targeted setting	
			of the device; the physician	
			should ensure that the	
			patient understands all	
			functions and methods of	
			operation of the device.	
Janisys	Janisys CPAP Flow	Positive End Expiratory	The Janisys CPAP Flow	April 28, 2020
	Generator	Pressure Breathing	Generator, when used in	
		Attachment	conjunction with a PEEP	
			valve, is used to provide	
			CPAP to a spontaneously	
			breathing adult in hospital	
			settings. The DD-3	
			variable-flow model is	
			intended to provide 28%-	
			100% FIO2 and the DD-4	
			fixed-flow model is	
			intended to provide 28%-	
			33% FIO2.	
	Ū.	Respiratory Humidifier	The O2FLO High Flow	May 20, 2020
U	Respiratory		Heated Respiratory	
Co., Ltd.	Humidifier (VUN-		Humidifier (VUN-001) is	
	001)		intended to deliver warmed	
			and humidified respiratory	
			gases to spontaneously	
			breathing patients with a	

flow rate from 2LPM to 60LPM and is capable of providing high flow therapy. The device can be used in the emergency
room, outpatient department, inpatient department and other diagnostic and treatment rooms.