## **Appendix B: Authorized Ventilators, Ventilator Tubing Connectors, and Ventilator Accessories** *Updated: May 8, 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 Section II, Section IV, and Appendix A. 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 Letter of Authorization (Section II) and pursuant to the Conditions of Authorization (Section IV) in this EUA and based on FDA's review and concurrence.

## **Ventilators**

Manufacturer	Product Name	Device Description	Intended Use	Date of Authorizatio
Beijing Aeonmed Co., Ltd	VG70 ventilator	Critical Care Ventilator	Mechanical ventilation of patients in ICU	March 25, 2020
Mindray Bio- medical Electronics	Mindray SV300/SV600/SV8 00 ventilators LTV2 model 2200	Critical Care Ventilator Critical Care	This product is intended to provide ventilation assistance and breathing support for adult, pediatric and infant patients  LTV2 model 2200 and 2150	March 28, 2020 March 28,
•	and LTV model 2150	Ventilator	ventilators are intended to provide continuous or intermittent ventilatory support for the care of the individuals who require mechanical ventilation. The use environment is for institutional use. Institutional use includes ICU or other hospital environments including intra-hospital transport. The Model 2200 can operate with high O2. The Model 2150 operates with low pressure.	2020
RESMED	Stellar 150	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,	The ResMed Lumis 150 VPAP ST	March 30,
KESWED	ST	Continuous,	devices are indicated to provide non-	· ·
		Minimal	invasive ventilation for patients	Amended
		Ventilatory	weighing more than 30 lbs (13 kg),	April 17, 2020
		Support, Facility	or more than 66 lbs (30kg) in iVAPS	April 17, 2020
		Use	mode, with respiratory	
		OSC	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	
			hospital/institutional environment.	
RESMED	GA ST	Ventilator,	The GA non-invasive ventilator is an	March 31
RESIVIED	OASI	Continuous,	assist ventilator and is intended to	2020
		Minimal	augment patient breathing. It is	2020
		Ventilatory	intended solely for spontaneously	
		Support, Facility	breathing individuals who require	
		Use	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.	
			and the second of the property	
			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,	Flexo Bi-level positive airway	March 31,
	21 23 701 51	Continuous,	pressure therapy device is used to	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	
			to patients' condition.	
RESMED	AirCurve	Ventilator,	AirCurve ST device has indications	March 31,
1	ì	la ··	for your that in also do manufacture.	2020
	ST	Continuous,	for use that include respiratory	2020

	1	X 7 1 .	TI A: C CTD 1	1 17 2020
		Ventilatory	The AirCurve ST device is indicated	April 17, 2020
			for the treatment of obstructive sleep	
		Use	apnea (OSA) in patients weighing	
			more than 66 lb (30kg). It is intended	
A	VIIWELLO	Vantilatan Nan	for home and hospital use.	Manala 21
Amsino	YUWELL®	Ventilator, Non- Continuous		March 31, 2020
	YH-730 Bi-level	Continuous	treatment of sleep apnea hypopnea	2020
	PAP and YH-830 Bi-level PAP		syndrome in patients	
	DI-IEVEL FAF		weighing more than 66lb (30kg). It is 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	
			environment.	
Inovytec	Ventway Sparrow	Ventilator	The Ventway Sparrow ventilator is	March 31,
movytee	Ventway Sparrow	Continuous	intended to provide continuous or	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	
D1 '1'	111/050 11	G :: 1 G	of a physician.	A 11.1 2020
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	

		Support, Facility Use	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.	
BMC Medical Co., Ltd.		Ventilator, Continuous, Minimal Ventilatory Support, Facility Use	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 taking humidifying and heating air from the device.	2, 2020
0	Evita V800 and Evita V600	Critical Care Ventilator	The intensive care Ventilator Evita is April 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	2, 2020
	Babylog VN800 and VN600	Critical Care Ventilator	The intensive care ventilator Babylog April is intended for the ventilation 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.	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	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 I I C	Puritan Bennett	Ventilator,	The Puritan Bennett 560 Ventilator is	April 5 2020
Covidien LLC	560 Ventilator	Continuous,	indicated for the continuous or	7 ipin 3, 2020
	System	Continuous,	intermittent mechanical ventilatory	
	System		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:	
			<ul> <li>Positive Pressure ventilation</li> </ul>	
			•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		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	
		<u> </u>	misposable ventor-specific breathing	

<u></u>			Circuit (Breathing Circuit). The	
			COVID Ventor is able to provide	
1			Pressure Controlled, Pressure	
I			Supported, and Volume Controlled	
I			long-term ventilatory support in	
1			emergency situations	
MEKICS Co,.	MTV1000	Ventilator,		ril 6, 2020
Ltd	ventilator	Continuous	use on patient population sizes from	-,
	, carrieror	Commuous	pediatric through adult who require	
1			respiratory support or mechanical	
I			ventilation and weigh a minimum of	
1			5.0 kg. It is suitable for service in	
1			hospitals to provide continuous	
1			positive pressure ventilatory support	
I			using medical oxygen and	
I			compressed medical air from internal	
1			_	
I			air sources to deliver oxygen concentrations of 21 % to 100 %.	
1				
I			Ventilatory support can be delivered	
D " 1	A (1 A 250 1	C M 1:	invasively or noninvasive.	:1.7. 2020
Drägerwerk	Atlan A350 and	Gas-Machine,	_	ril 7, 2020
AG & Co.	Atlan A350 XL	Anesthesia	anesthetizing adults, pediatric	
KGaA			patients, and neonates. The device	
I			can be used for mechanical	
I			ventilation, manual ventilation,	
I			pressure-supported spontaneous	
1			breathing, and spontaneous	
I			breathing. The device is equipped	
I			with the following basic functions:	
I			<ul> <li>Ventilation monitoring</li> </ul>	
I			<ul> <li>Inspiratory O2 measurement</li> </ul>	
1			<ul> <li>Device monitoring</li> </ul>	
I			<ul> <li>Anesthetic gas receiving system</li> </ul>	
I			The following options are	
I			additionally available:	
I			<ul> <li>Patient-gas measurement module</li> </ul>	
I			for O2, CO2, N2O, and anesthetic	
I			gases	
I			– O2 insufflation	
I			Anesthesia is achieved through a	
I			mixture of pure oxygen and Air	
I			(medical compressed air) or pure	
I			oxygen and nitrous oxide, with the	
I			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).	
1			l I	
VenTec Life	V+Pro	Ventilator,	VOCSN Unified Respiratory System Ap	ril 7, 2020
VenTec Life Systems	V+Pro Emergency	Ventilator, Continuous	VOCSN Unified Respiratory System Ap is intended to provide continuous or intermittent ventilatory support for	ril 7, 2020

		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.
AMBULANC Models 6000S,	Emergency	Model 6000S - The 6000S ventilator April 8, 2020
TECH.CO.,LTT5, T7	Transport	is intended to provide continuous
D	Ventilator	ventilation for patients who require
		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.

	1	1	T	,
			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.	
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 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 LLC	Pneumatic Resuscitator device	Emergency Resuscitator	The SecondBreath LLC Pneumatic 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	April 13, 2020
			are no other ventilation modalities available due to emergency resource limitations. The user can set tidal volume (TV), inspiratory to	

			expiratory (I:E) ratio, respiratory	
			rate, expiratory pause, and inspired	
			oxygen (FiO2) 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 mandatory	
			ventilation mode. Continuous end-	
			tidal carbon dioxide monitoring is	
			required for safe use of this device	
			since there are no alarms for TV not	
			met/exceeded. Additionally, power	
			supply needs to be monitored as there	
			is a loss of power alarm but no	
			backup power supply to provide	
			ventilation.	
		Emergency		April 14, 2020
Willingsota		Resuscitator	compression of an adult manual	
Medical	Resuscitator		resuscitator device intended for	
School and	Compressor		pulmonary resuscitation of adult	
Boston			patients for whom no other	
Scientific			appropriate means of mechanical	
			ventilation exists due to resource	
Corporation			limitations from pandemic conditions	
			in the region of use.	
Umbulizer	UMV-001 EUA	Emergency	The Umbulizer UMV-001 is intended	April 14, 2020
		Resuscitator	to provide ventilatory support to	
			adults when Positive Pressure	
			Ventilation (PPV) is required to	
			manage Acute Respiratory Failure	
			(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.	
Hillrom	MetaNeb 4	Intermittent	The MetaNeb 4 System is indicated	April 16, 2020
			for mobilization of secretions, lung	
		Breathing Device	expansion therapy, the treatment and	
			prevention of pulmonary atelectasis,	
			and also has the ability to provide	
			supplemental oxygen when used with	
			compressed oxygen. Patient	
			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		Emergency	•	April 17, 2020
		Resuscitator	manual resuscitator that has been	
LLC				
LLC			designed specifically to meet AAMI	
LLC			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	
DEGMED	AirCurve 10 ST-A	V7 411 - 4	patient.	A
RESMED	All Curve 10 S1-A	Ventilator, Continuous,	The AirCurve 10 ST-A is indicated to provide noninvasive ventilation for	April 17, 2020
		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	- <b>F</b>
		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	
		<u> </u>	hospital/institutional environment.	
Resvent	iBreeze PAP	Ventilator,	The iBreeze PAP system delivers	April 20, 2020
		Continuous,	positive airway pressure therapy for	
		Minimal	the treatment of Obstructive Sleep	
		Ventilatory	Apnea (OSA) in spontaneously	

		Cupport Facility	breathing notionts weighting over	
			breathing patients weighting over	
		Use	30kg (66lbs) for use in the home,	
77: : 0.1:	W O.1.	F	hospital, or institutional environment.	A '1 22 2020
Virgin Orbit	Virgin Orbit	Emergency	This emergency use resuscitator is	April 22, 2020
	Resuscitator	Resuscitator	for use with appropriate critical care	Amended
			monitoring on adults (>18 years of	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		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	
1			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	Ventilators LA20C,		a ventilator indicated for the	
Technology	LA20A, LA20B,		treatment of respiratory insufficiency	
Co., Ltd.	LA20B, LA25B,		in patients weighing more than 30kg	
, <u>L</u>	LA25B, LA25B,		(66 lbs). It is intended for hospital	
	1201		use. The built-in humidifier is	
			intended for repeated use by the same	
	<u> </u>	1	intended for repeated use by the same	

			patient.	
Resvent Medical Technology CO., Ltd's	iBreeze 30STA device	Ventilator, Non- Continuous	The iBreeze 30STA PAP system delivers positive airway pressure therapy for the treatment of Obstructive Sleep Apnea (OSA) in spontaneously breathing patients weighing over 30kg (66lbs), it is for use in the home, hospital, or institutional environment.	April 27, 2020
Shenzhen Yamind Medical Tech	CPAP Devices: DM28-20C-G; Auto CPAP Devices: DM28- 20A-W, DM28- 20A-WP; BiPAP Devices: DM28-20S-G, DM28-20SA-G, DM28-25S-B, DM28-25SA-BP, DM28-30ST-B, DM28-30ST-BP, DM28-30STA-BP	Ventilator, Non-Continuous	The subject device provides noninvasive ventilation for patients with obstructive sleep apnea. It is indicated for adult patients weighing more than 30kg and can be used in homes and hospitals. It is not intended for life support, or for central sleep apnea. It may be used to improve the oxygenation and ventilation in the treatment of acute respiratory illness or difficulty breathing.	April 28, 2020
NASA Jet Propulsion Laboratory	VITAL ventilator	Emergency Ventilator	The VITAL ventilator is intended to provide continuous ventilatory support for adult (body weight ≥ 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.	April 30, 2020
Venti-Now	Venti-Now Resuscitator Model JM-P2020A	Emergency Resuscitator	The Venti-Now resuscitator is indicated for continuous or intermediate mechanical support of adult patients who require mechanical ventilation. The resuscitator is a restricted medical device intended for use by qualified,	April 30, 2020

			trained personnel under the direction
			of a Physician for COVID-
			19/Emergency use when no FDA-
			cleared ventilators are available. It is
			essential to read, understand, and
			follow these instructions before using
			the Venti-Now resuscitator.
			The years I to y Tobustinion
			The Venti-Now resuscitator is a
			volumetric device that compresses a
			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 means
			to control Tidal volume,
			Inhalation/Exhalation rates, and bpm
			that make it suitable for a broader
			range of target patients than
			manually pumped BVM bags.
Wilcox	Wilcox PATRIOT		PATRIOT SAVR is indicated for May 1, 2020
Industries Corp	SAVR	Ventilator	emergency continuous or intermittent
			mechanical support of adult patients
			when their ventilatory status cannot
			be maintained by high flow oxygen
			by nasal cannula, and a FDA cleared
			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
			an attending doctor:
			<ul> <li>Positive Pressure ventilation</li> </ul>
			<ul> <li>Assist/Control, SIMV modes</li> </ul>
			of ventilation
			The CAVD manides and times at a second
			The SAVR provides multiple alarms
			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.
			Torget Environments
			Target Environments The ventilator is suitable for use in
			The ventuator is suitable for use in

			institutional and portable settings.	
			institutional and portuble settings.	
			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:	
			<ul> <li>Respiratory therapists</li> </ul>	
			• Doctors	
			• Nurses	
	Mechanical	Emergency	1	May 1, 2020
S.p.A.	Ventilator Milano	Ventilator	mechanical ventilator designed for	
Tecnologie	(MVM)		adult patients to provide emergency	
Elettroniche			ventilatory support when no	
			alternative standard ventilators are	
			available. The device should be used by:	
			<ul> <li>healthcare professionals responsible</li> </ul>	
			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.	
			1 g saptone	
ZIBO	ZXH-550	Emergency	The ventilator is intended to	May 2, 2020
ZHONGXUN		Ventilator	provide continuous ventilatory	
MEDICAL			support for adult patients who	
EQUIPMENT			require mechanical	
CO. LTD			ventilation. The ventilator is a	
CO. LID			venulation. The ventuator 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	ЛХІ 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')	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 ST730	Ventilator,	The device is indicated to provide M	Iay 6, 2020
Hypnus	Tryphus 51750	Continuous,	non-invasive positive airway	1ay 0, 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.		Powered		Iay 7, 2020
	(M50016,	Emergency	provide ventilatory support for adults	
	M50017)	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 a	
			ventilator.	
			ventuator.	
Taiyuan	Fabius Plus /	Gas Machine,	Fabius plus is an inhalation M	lay 8, 2020
Shanghai	Fabius Plus XL	Anesthesia	anesthesia workstation	, -,
Medical	I dolas I las XE	, areserresia	for use in operating, induction	
ivieuicai			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	
			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 Proathing	
			- Spontaneous Breathing	
	I		Fabius plus is equipped with an	

			electrically driven and electronically controlled ventilator and monitors for airway pressure (P), volume (V), and inspiratory oxygen concentration (FiO2).	
Somnetics	Transcend 3	· ·		May 8, 2020
International,	BiPAP	Continuous	for the therapy of adults weighing	
Inc.			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.	

## **Ventilator Tubing Connectors**

Manufacturer	Product Name	<b>Device Description</b>	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	
			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		Connector	intended to provide	
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
	Printed BiPAP			April 29, 2020
· · · · · · · · · · · · · · · · · · ·			Printed BiPAP Adapter	
ľ	Adapter		("Adapter") is intended for	
			use as an exhalation port	
			that enables invasive use of	
			a bilevel positive airway	
			pressure (BiPAP) machine	
			with a pressure control	
			ventilation (PCV) option	
			as a pressure-controlled	
			ventilator.	
	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	
			a BiPAP with a pressure	
			control ventilation (PCV)	
			option as a pressure-	
			controlled ventilator.	
Covidien LLC I	DAR Adult Dual	Dual Patient Circuit	The Adult Dual Breathing	May 5, 2020
l I	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.	
Safa Eliabt	Safe Flight 9100-3	Patient Circuit		May 7, 2020
				IVIAY 1, 2020
	Quad Vent	Connector	Safe Flight 9100-3	
Corporation			Quad/Vent ventilator	
			splitter is to enable a single	
			ventilator to be shared	
			between multiple patients	
			for ventilatory support. Is	
			intended to provide	
			intended to provide temporary rescue	
			intended to provide temporary rescue mechanical ventilation for	
			intended to provide temporary rescue mechanical ventilation for multi-patient ventilation	
			intended to provide temporary rescue mechanical ventilation for multi-patient ventilation only when single	
			intended to provide temporary rescue mechanical ventilation for multi-patient ventilation	

			shortage.
Safe Flight Instrument Corporation	Safe Flight 9100-1 Quad Vent	Patient Circuit Connector	The intended use of the Safe Flight 9100-1 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
Stryker Instruments	Flow Control Valve	Patient Circuit Connector	shortage.  The Flow Control Valve is May 8, 2020 intended for use on patients suffering from
			acute respiratory failure. During the COVID-19 pandemic, when the number of patients 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, Critical Care Vei	
and Anesthesia n	nachines.

## **Ventilator Accessories**

Manufacturer	Product Name	Device Description	Intended Use	Date of Authorization
_	ReddyPort Mini NIV Access Elbow	Elbow Connector for Mask	The ReddyPort Mini NIV Access Elbow is intended	April 13, 2020
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.		The state of the s	for the treatment of	- <b>P</b>
			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
	_	Pressure Breathing	Generator, when used in	1 ,
		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.	