

# Ventilator Market - Forecasts from 2020 to 2025

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## Abstracts

The ventilator market is projected to grow at a CAGR of 5.53% to reach US\$3,095.180 million by 2025 from US\$2,240.940 million in 2019. The rise in cases of respiratory emergencies and Chronic Obstructive Pulmonary Disease (COPD) are the major factors, which are strengthening the growth of global ventilator market. The Global Burden of Disease Study reported a prevalence of 251 million cases of COPD globally in 2016. Further, the technological innovations in respiratory care devices are also another major factor that is leading to an evident market expansion along with the emergence of more patient-friendly, cost-effective, and portable devices that further encourages their usage. For example in light of the global pandemic that has gripped our planet and whose impact has permeated every aspect of human lives has led to innovation such as that of Xerox, in April 2020, announced that it will “rapidly scaling up” production of inexpensive, disposable ventilators that could serve as a critical stopgap for hospital-grade ventilators now in short supply. This comes as the result of its deal with a small medical device manufacturer in California named Vortran Medical to scale up production of the Go2Vent, a low-cost resuscitation device commonly used by first responders in emergencies and disasters. Go2Vent has already been approved FDA and doesn't require electricity. Again, in April 2020, Tesla expressed its inclination to work on repurposing its large supply of auto parts to build ventilators that Tesla hopes can help boost the nation's supply of the life-saving breathing machines without using components from the already stressed supply of the same pertaining to the healthcare center.

Besides, in India, The Rail Coach Factory (RCF) situated in Kapurthala is the first public sector undertaking (PSU) that operates under the auspices of the Indian Railway to develop a prototype of a ventilator to be used in the isolation wards or quarantine facilities which Indian Railways is creating in train coaches across the network. It's an original design and is expected to cost almost a fraction of regular ventilator cost. Thus, along with government initiatives the manufacturers of these devices in the APAC

region especially that of the emerging markets are focusing on creating cost-efficient, non-invasive ventilation solutions to cater to the local needs and provide flexibility in inpatient care. This can be exemplified by India's toaster sized ventilator manufactured by Noida-based AgVa Healthcare, in a joint venture between Maruti Suzuki India. This device is specifically aimed at CoVid-19 patients and has arrived at the time which needed to feel the gaps.

Another reason that is poised to drive the ventilators market growth is the speedy advancement of rising o healthcare expenditure coupled with increasing disposable income that is facilitating the ease of access by patient to the various point of care that has led to the rapid adoption of ventilators, especially in the APAC region. In the People Republic of China, the premium of primary insurance received by the insurance companies was to the tune of 4,264.5 billion yuan in 2019, which was an increase in 12.2% over that of the previous year. Out of this entire sum of the life insurance primary insurance amounted 2,275.4 billion-yuan, health and casualty insurance premium of primary insurance was to the tune of 824.1 billion yuan, and property insurance premium of primary insurance 1,164.9 billion yuan. Contrarily the Insurance companies paid an indemnity worth of 1,289.4 billion yuan, of which, life insurance indemnity was 374.3 billion-yuan, health and casualty insurance indemnity 264.9 billion yuan, among others. Thereby it delineates the fact there has been a room of expenditure pertaining to healthcare. Further the per capita disposable income nationwide was 30,733 yuan, an increase of 8.9% compared to that of the preceding year. Further, to the end of 2019, there were around 1,014,000 medical and health institutions in China, including 34,000 hospitals. Out of the 17,000 professional public health institutions, 3,456 were disease control and prevention centers and 3,106 were health monitoring institutions. Further, the total number of medical visits and hospital discharges in 2019 reached 8.52 billion and 270 million respectively [Source: National Bureau of Statistics of China].

Further with regards to Singapore, the total number of beds in all types of acute hospitals (Public, Not-for-Profit and Private) has increased from the preceding year until 2918, suggesting that the incidence of inpatient care has increased. Moreover, the number of hospital admission to have increased with regards to acute hospitals are concerned as delineated by the illustration below. Therefore, it is can be stated with certitude that the due such increase rate of hospitalization there is a requirement of an ample room for healthcare instrument innovation and upscaling as exemplified by the U.S. market leader in precision medical products and services Nihon Kohden, which announced in November 2019 the launch of NKV-550 Series Ventilator System that offers a full suite of applications necessary in a critical care setting for patients ranging from neonate through adults. Moreover, looking towards the occident Dutch

multinational technology company Royal Philips has received CE mark approval for its Philips V60 Plus Ventilator. This solution is development overt its noninvasive ventilation (NIV) gold standard platform, integrating NIV and high flow therapy (HFT) in a single device. The device aids clinicians to swiftly adjust therapies according to the condition of patients without switching devices.

## Segmentation

### By Mobility Type

Intensive Care Ventilators

Basic ICU Ventilators

High High-end ICU Ventilators

Mid-end ICU Ventilators

Transportable Ventilators

### By Interface

Invasive Ventilation

Non-invasive Ventilation

### By Type

Geriatric

Neonatal

Paediatric

### By Mode

Combined Mode Ventilation

Pressure Mode Ventilation

Volume Mode Ventilation

Others

By End User

Ambulatory Care Centers

Emergency Medical Services (EMS)

Home Care

Hospitals and Clinics

By Geography

North America

USA

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

UK

Germany

France

Others

The Middle East and Africa

Saudi Arabia

UAE

Israel

Others

Asia Pacific

Japan

China

India

Others

## Contents

### **1. INTRODUCTION**

- 1.1. Market Definition
- 1.2. Market Segmentation

### **2. RESEARCH METHODOLOGY**

- 2.1. Research Data
- 2.2. Assumptions

### **3. EXECUTIVE SUMMARY**

- 3.1. Research Highlights

### **4. MARKET DYNAMICS**

- 4.1. Market Drivers
- 4.2. Market Restraints
- 4.3. Porters Five Forces Analysis
  - 4.3.1. Bargaining Power of Suppliers
  - 4.3.2. Bargaining Power of Buyers
  - 4.3.3. The threat of New Entrants
  - 4.3.4. Threat of Substitutes
  - 4.3.5. Competitive Rivalry in the Industry
- 4.4. Industry Value Chain Analysis

### **5. VENTILATOR MARKET ANALYSIS, BY MOBILITY TYPE**

- 5.1. Introduction
- 5.2. Clay Up to 2 ml
- 5.3. 3 ml – 5 ml
- 5.4. 5 ml – 7 ml
- 5.5. 8 ml and above

### **6. VENTILATOR MARKET ANALYSIS, BY INTERFACE**

- 6.1. Introduction

6.2. Invasive Ventilation

6.3. Non-invasive Ventilation

## **7. VENTILATOR MARKET ANALYSIS, BY TYPE**

7.1. Introduction

7.2. Net Geriatric

7.3. Neonatal

7.4. Pediatric

7.5. Others

## **8. VENTILATOR MARKET ANALYSIS, BY MODE**

8.1. Introduction

8.2. Combined Mode Ventilation

8.3. Pressure Mode Ventilation

8.4. Volume Mode Ventilation

8.5. Others

## **9. VENTILATOR MARKET ANALYSIS, BY END USER**

9.1. Introduction

9.2. Ambulatory Care Centers

9.3. Emergency Medical Services (EMS)

9.4. Home Care

9.5. Hospitals and Clinics

## **10. VENTILATOR MARKET ANALYSIS, BY GEOGRAPHY**

10.1. Introduction

10.2. North America

10.2.1. North America Ventilator Market Analysis, By Mobility Type

10.2.2. North America Ventilator Market Analysis, By Interface

10.2.3. North America Ventilator Market Analysis, By Type

10.2.4. North America Ventilator Market Analysis, By Mode

10.2.5. North America Ventilator Market Analysis, By End-User

10.2.6. By Country

10.2.6.1. United States

10.2.6.2. Canada

10.2.6.3. Mexico

10.2.6.4. Others

### 10.3. South America

10.3.1. South America Ventilator Market Analysis, By Mobility Type

10.3.2. South America Ventilator Market Analysis, By Interface

10.3.3. South America Ventilator Market Analysis, By Type

10.3.4. South America Ventilator Market Analysis, By Mode

10.3.5. South America Ventilator Market Analysis, By End-User

10.3.6. By Country

10.3.6.1. Brazil

10.3.6.2. Argentina

10.3.6.3. Others

### 10.4. Europe

10.4.1. Europe Ventilator Market Analysis, By Mobility Type

10.4.2. Europe Ventilator Market Analysis, By Interface

10.4.3. Europe Ventilator Market Analysis, By Type

10.4.4. Europe Ventilator Market Analysis, By Mode

10.4.5. Europe Ventilator Market Analysis, By End-User

10.4.6. By Country

10.4.6.1. UK

10.4.6.2. Germany

10.4.6.3. France

10.4.6.4. Others

### 10.5. The Middle East and Africa

10.5.1. Middle East and Africa Ventilator Market Analysis, By Mobility Type

10.5.2. Middle East and Africa Ventilator Market Analysis, By Interface

10.5.3. Middle East and Africa Ventilator Market Analysis, By Type

10.5.4. Middle East and Africa Ventilator Market Analysis, By Mode

10.5.5. Middle East and Africa Ventilator Market Analysis, By End-User

10.5.6. By Country

10.5.6.1. Saudi Arabia

10.5.6.2. United Arab Emirates

10.5.6.3. Israel

10.5.6.4. Others

### 10.6. Asia Pacific

10.6.1. Asia Pacific Ventilator Market Analysis, By Mobility Type

10.6.2. Asia Pacific Ventilator Market Analysis, By Interface

10.6.3. Asia Pacific Ventilator Market Analysis, By Type

10.6.4. Asia Pacific Ventilator Market Analysis, By Mode



10.6.5. Asia Pacific Ventilator Market Analysis, By End-User

10.6.6. By Country

10.6.6.1. Japan

10.6.6.2. China

10.6.6.3. India

10.6.6.4. Others

## **11. COMPETITIVE ENVIRONMENT AND ANALYSIS**

11.1. Major Players and Strategy Analysis

11.2. Emerging Players and Market Lucrativeness

11.3. Mergers, Acquisitions, Agreements, and Collaborations

11.4. Vendor Competitiveness Matrix

## **12. COMPANY PROFILES**

12.1. Air Liquide

12.2. Allied Healthcare Products

12.3. Drägerwerk AG & Co. KGaA

12.4. Fisher & Paykel Healthcare Limited.

12.5. General Electric Company

12.6. Getinge AB

12.7. Hamilton Medical

12.8. Koninklijke Philips N.V.

12.9. Medtronic

12.10. ResMed

12.11. SCHILLER

12.12. Shenzhen Mindray Bio-Medical Electronics Co., Ltd.

12.13. SLE

12.14. Smiths Group plc

12.15. VYAIRE

12.16. Zoll Medical

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