

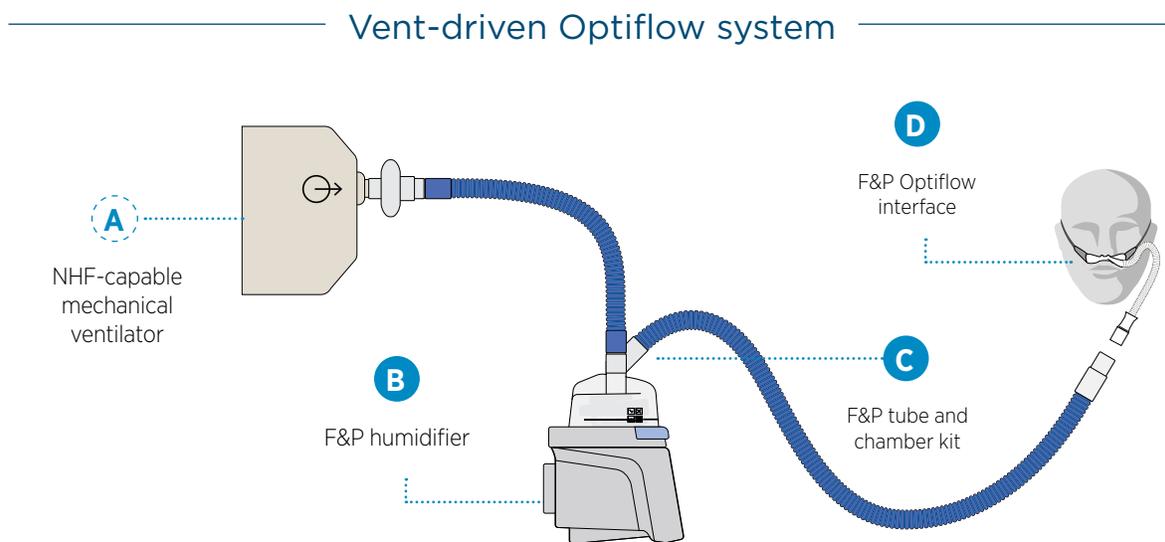
F&P Optiflow™ systems

Guideline recommendations for the use of Nasal High Flow (NHF) for acute respiratory support in adults are supported by a body of peer-reviewed and published evidence.

In a recent Fisher & Paykel Healthcare review of controlled studies using NHF as respiratory support in acute adult patients, the vast majority of the studies were found to have used Fisher & Paykel Healthcare (F&P) Optiflow systems with flow settings of 45 - 60 L/min* (see the link on the next page for more detail).

A number of respiratory support devices, such as the Philips V60 Plus**, provide NHF as a therapy option, making them suitable as independent flow generators that can be combined with F&P products to form vent-driven Optiflow systems.

The following figure demonstrates what is required to enable your NHF-capable mechanical ventilator to form part of a vent-driven Optiflow system.



A Flow driver	B Humidifier	C Tube and chamber kit	D Interface	System settings
NHF-capable mechanical ventilator†	F&P 850 System‡ set to invasive mode	Adult Bi-level / CPAP circuit kit (e.g. RT219)	F&P Optiflow interface	37 °C ✓ 10 - 80 L/min§ 21 - 100% FiO ₂

Available from F&P

* The review is detailed in edition 11 of Flow Matters which is available from <https://resources.fphcare.com/content/optiflow-flow-matters-newsletter-edition-11-pm-621178.pdf>

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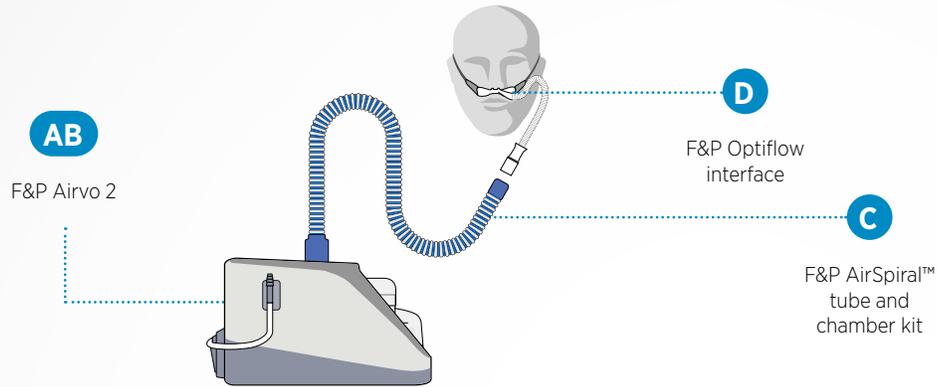
† A mechanical ventilator with a NHF mode and able to act as an independent flow driver for delivering NHF therapy.

‡ The F&P 850 System includes the following: MR850 respiratory humidifier (e.g. MR850JHU), temperature probe (e.g. 900MR869), heater-wire adapter (e.g. 900MR805), mounting bracket (e.g. 900MR087) and waterbag pole (e.g. 900MR290).

§ Flow rate limits based on internal F&P testing with the Philips V60 Plus set to high flow mode and a range of Optiflow interfaces: OPT942: 10 - 70 L/min, OPT944/6: 10 - 80 L/min, OPT1042: 10 - 60 L/min, OPT1044/6: 10 - 80 L/min. Flow rate limits may depend on the clinical application and flow source used.

The following figure demonstrates what is required for an Airvo™ Optiflow system:

Airvo Optiflow system



A	B	C	D	System settings
Flow driver	Humidifier	Tube and chamber kit	Interface	
F&P Airvo 2*		F&P AirSpiral tube and chamber kit	F&P Optiflow interface	37 °C ✓ 10 - 60 L/min 21 - 100% FiO ₂ #

Available from F&P

The screenshot shows the 'Flow Matters' document, Edition 11. It includes a summary of findings from a review of 22 published studies, highlighting that the required flow rates ranged from 10 L/min to 60 L/min, and 85% of the studies required flows > 45 L/min. The document also provides guideline recommendations for the clinical management of COVID-19, supported by systematic reviews with meta-analysis. A pie chart indicates that 20 (91%) of the 22 studies used F&P Optiflow systems, including a F&P Optiflow patient interface and a F&P humidity delivery system with a humidity setting of 37°C.



To learn more about the systems and used in NHF research, take a look at **Edition 11 of Flow Matters**, which can be downloaded from our Optiflow webpage.

[CLICK HERE TO DOWNLOAD](#)

* An integrated flow source and humidifier to deliver NHF therapy across the hospital, independent of medical air supply.
Provided an oxygen flow meter is available to deliver supplemental oxygen.