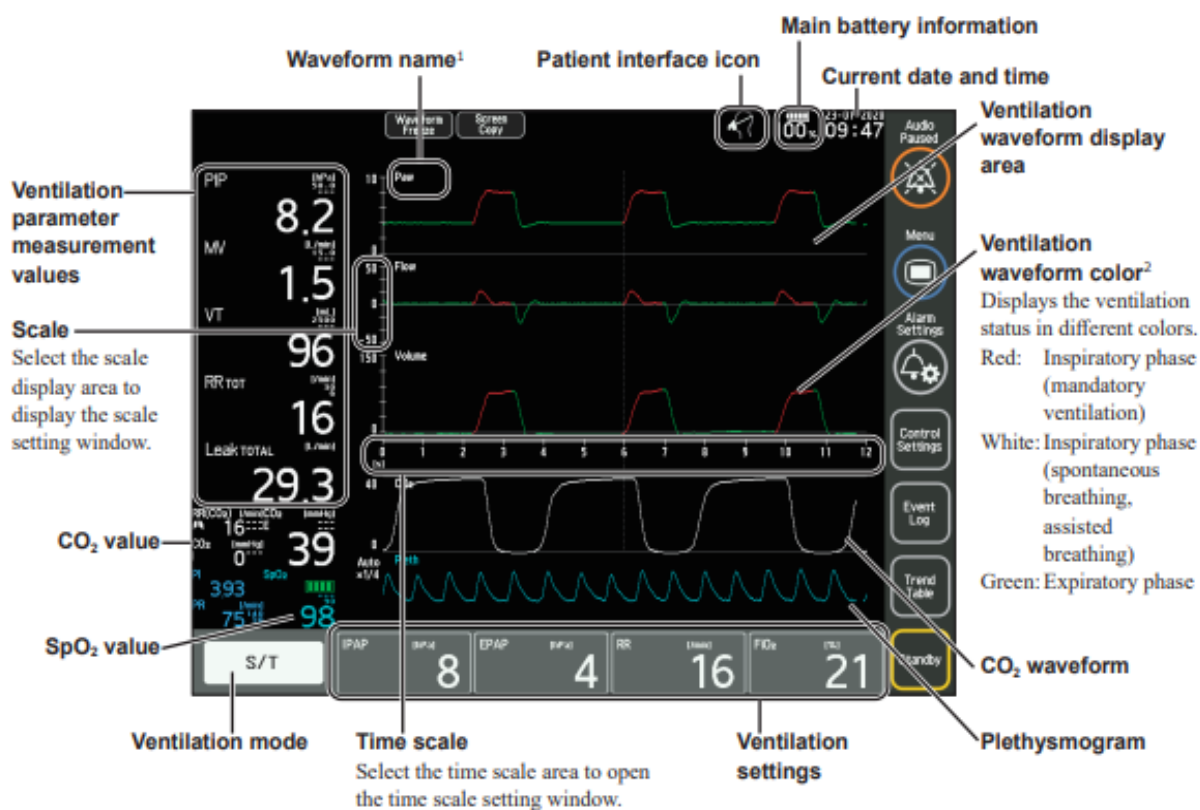


Non Invasive Ventilation (NIV) through Nihon Kohden NKV330



Title: Non Invasive Ventilation (NIV) through Nihon Kohden NKV330 v1

Authors: Linda Johnson, Kathy Fitzsimons,

Status Draft/Final: Final

Approved by:

Written: February 2024

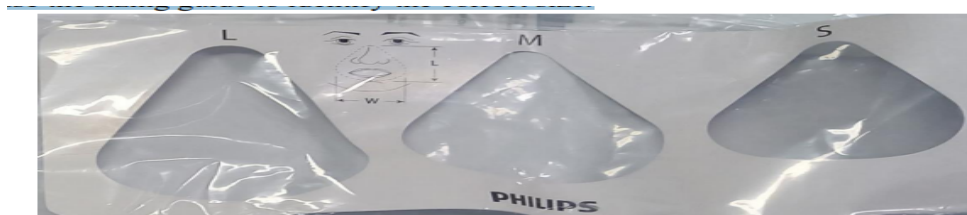
Next review : February 2028

Setting up

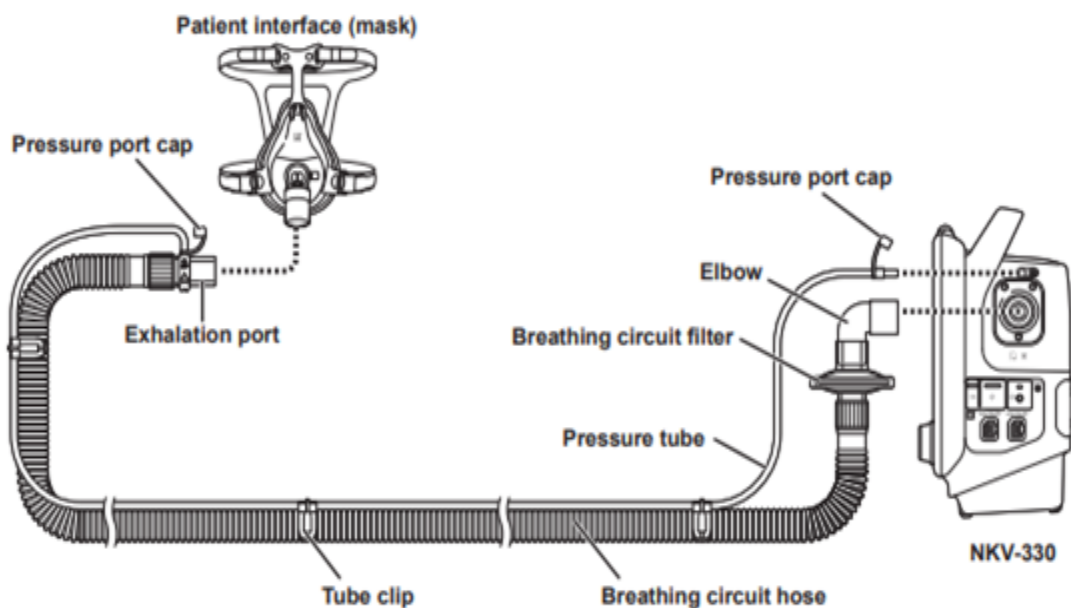
1. Gather Phillips tubing (dry circuit vent tubing with pressure sensor)



2. Select the appropriate Mask size for patient. With patient mouth slightly open use the sizing guide to identify the correct size. (NB. these can be removed without opening the mask packaging)



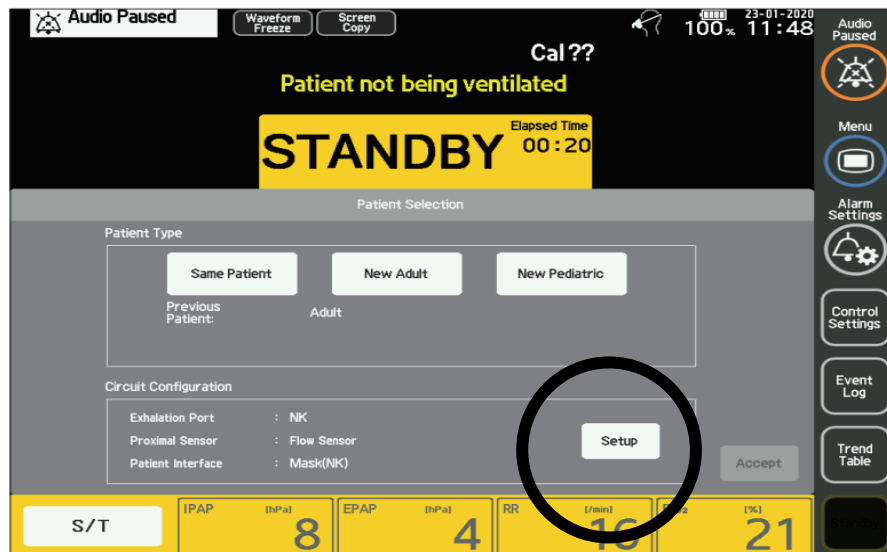
3. Connect circuit to NKV-330 as below



**Critical Care Guidelines
FOR CRITICAL CARE USE ONLY**

4 - Turn on NKV-330 and press set up touch screen button

appears.



4. Select correct configuration settings for breathing circuit

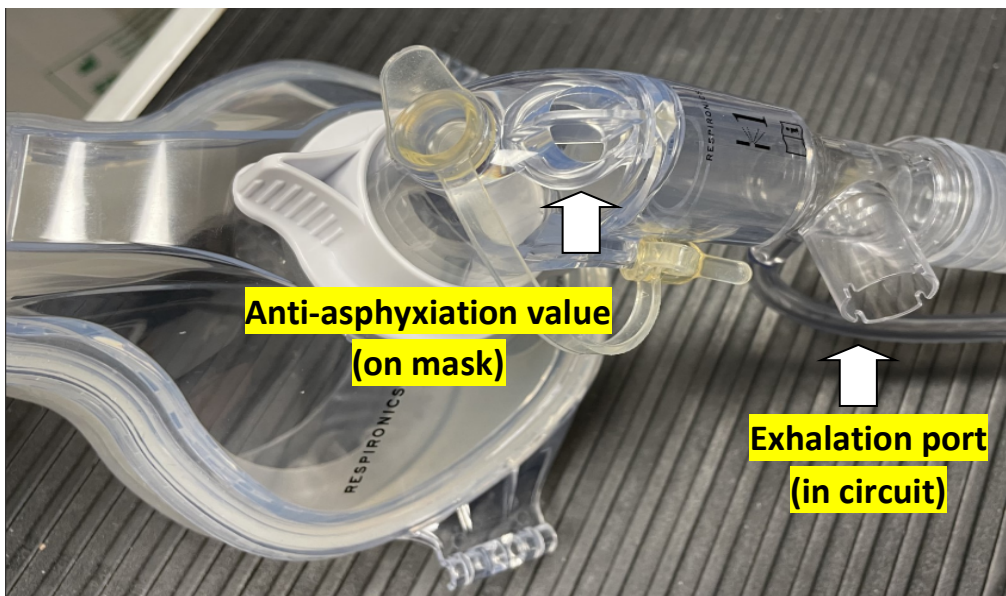
Circuit Configuration

Exhalation port = correct tubing for vent.
We use a dry circuit (currently Phillips brand) so select **Others**

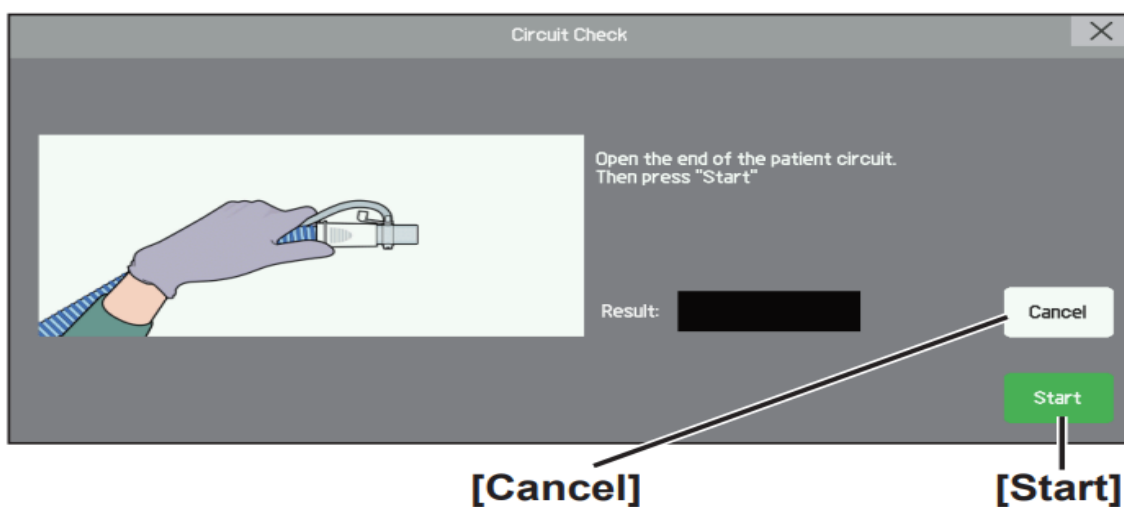
| | | | |
|-------------------|------------------------|----------------------------|--|
| Exhalation Port | NK | None | Others |
| Proximal Sensor | Pressure Sensor | Flow Sensor | Proximal Sensor = always <u>Pressure Sensor</u> |
| Patient Interface | Mask (NK) | Mask(with Exhalation Port) | Mask(without Exhalation Port) ETT/Trach |

Patient Interface = Mask – current masks have an anti-asphyxiation valve, but the exhalation port is within tubing, therefore select **Mask (without Exhalation Port)**
NB if patient is using own mask please review

**Critical Care Guidelines
FOR CRITICAL CARE USE ONLY**



5. Select Adult Ventilation and you will be prompted to carry out calibration.
6. Carry out Calibration of tubing – follow instructions. You do not need to calibrate the oxygen this is done yearly by medical physics



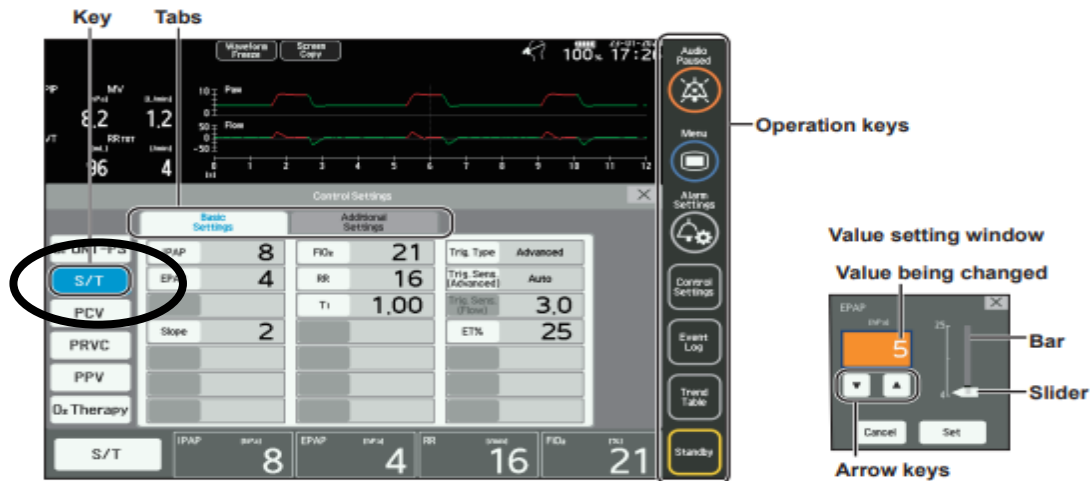
7. For CPAP select Spont/PS



**Critical Care Guidelines
FOR CRITICAL CARE USE ONLY**

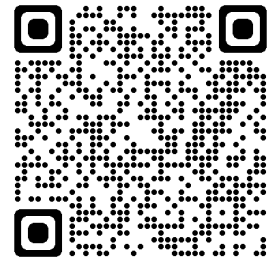
There is an option to choose pressure support but we will be using this mode for CPAP therefore set EPAP to desired PEEP i.e. starting at 5

8. For BiPAP- Select S/T



Select IPAP/EPAP - *Suggested starting setting*
EPAP 4 IPAP10

For protocol/flow chart on BiPAP – see
Intranet/CriticalCare/Breathing or critcare.net



Additional Settings

RAMP time. This is the time taken to achieve maximum settings on initiating BiPAP.

- *For patient comfort and compliance with treatment, it starts treatment with half the set IPAP gradually building up to full settings.*

SLOPE - speed at which IPAP rises to set pressure on in inhalation. Slowing this down can be more comfortable for the patient on NIV and can increase compliance

1 (fastest) to 6 (slowest)

NB – if SLOPE time is too slow for the resp. rate, target pressure will not be achieved for each breath –TV and peak pressure should always be observed..

For any additional settings or trouble shooting see guidelines on intranet or refer to user manual.