

Astral 150

Tracheostomy Ventilation



Turning The Machine On

To turn the machine on and off, press the green button on the rear of the machine



Entraining Oxygen

Oxygen is entrained via the oxygen nozzle on the back of the machine

NB: When the machine is not in use oxygen should be turned off. When oxygen is not required the oxygen nozzle should be removed.



Locking & Unlocking

To unlock the clinical menu press and hold the **padlock** symbol for 3 seconds.



To lock press the **padlock** icon then press **confirm**. The padlock will lock and the patient home screen will be displayed.



To Alter Parameters

Ensure the machine is unlocked. When unlocking the clinical menu the parameters should be displayed automatically. If already unlocked to view the parameters press this icon



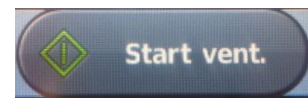
Press on the icon of the parameter you wish to change. The + and – buttons will then be displayed use the + and – button to alter press 'Apply' to confirm the change



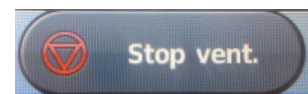
NB: Parameters must not be changed without consulting a member of the medical team

Starting/Stopping Ventilation

To start ventilation press the start ventilation icon



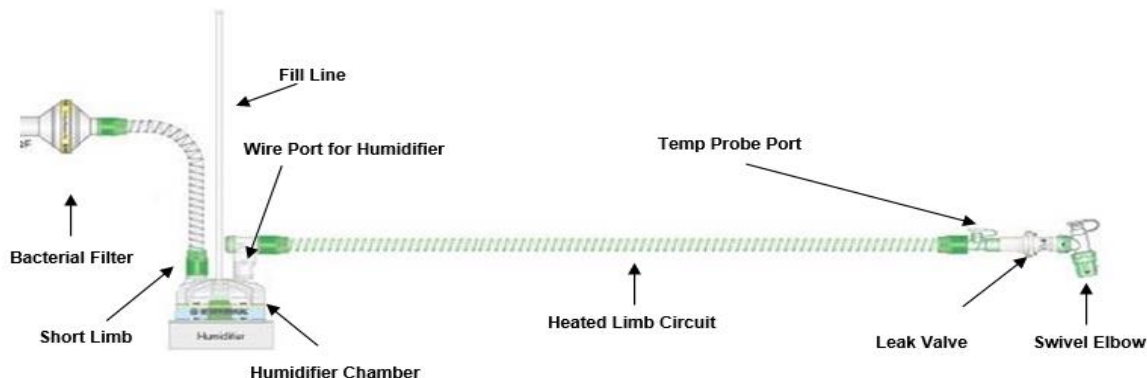
To stop the ventilation, press and hold the stop ventilation icon for 3 seconds



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Order code: 7073800 MR7LEAK15 from ResMed for circuit, 24988 from Resmed for additional leak valves.



Understanding Alarms

Check Alarms at the Start of Each Shift and Document.

- When tubing is first disconnected check that low pressure/ disconnect and/or low tidal volume alarms are triggered
- Occlude the vent circuit whilst running and check the high pressure/ low pressure alarms are triggered.

Low VTE/Low MVE

Disconnection/leak/High MVE/High Vte			
1 Assess child Accidental decannulation (i.e. tracheostomy has come out)	Action Immediately insert tracheostomy If difficulty follow emergency algorithm	1 Assess child Possible causes include: Blocked tracheostomy	Action Emergency algorithm: 1. Suction 2. Emergency tracheostomy change
2 Assess equipment Disconnection within circuit (follow circuit from child through to ventilator and ensure everything is connected – NB humidifier connectors etc may be slightly loose)	Cause - some leak may be tolerated and may be due to position of child – discuss with community ± medical teams, who can consider need for cuffed trache or upsize	2 Assess child Retained secretions/ increased pulmonary resistance etc	Action • suction, consider need for nebulisers, physiotherapy • refer to advanced treatment plan • discuss with community or medical team
3 Assess child Possible causes include: Leak around tracheostomy (particularly when asleep)	Action • Reconnect any loose connections • Re-assess	3 Assess equipment Circuit blockage (Follow circuit from child through to ventilator and ensure it is not kinked or obstructed)	1 Assess child • Correct fault • Re-assess
Is the alarm set appropriately (i.e. as previously recorded and checked at start of shift)	• Check alarm settings are as prescribed and re-set if any discrepancies	Is the alarm set appropriately (i.e. as previously recorded and checked at start of shift)	• Check alarm settings are as prescribed and re-set if any discrepancies

NV Mask (Non-Vented) Mask Alarm

Check exhalation valve is not blocked or covered and within circuit. NB: If Jetstream nebuliser is running in circuit this alarm is frequently triggered.