



ResMed

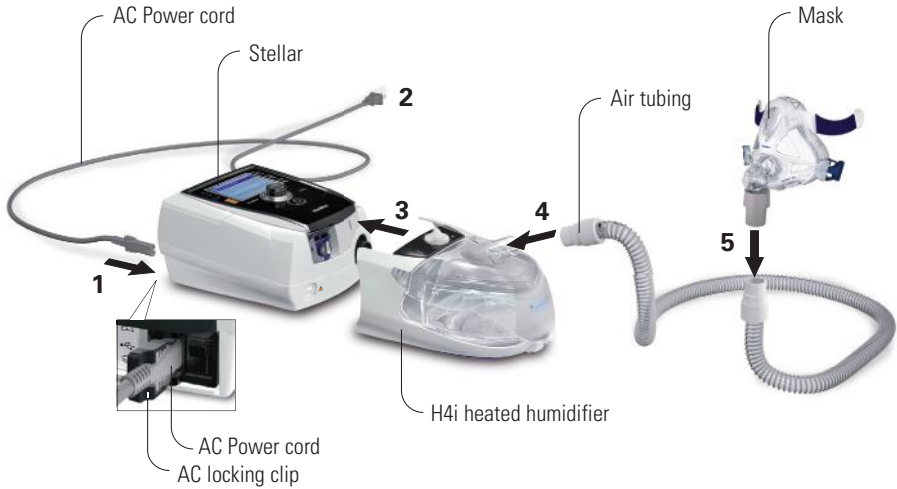
Stellar™ series
Adult and paediatric ventilators



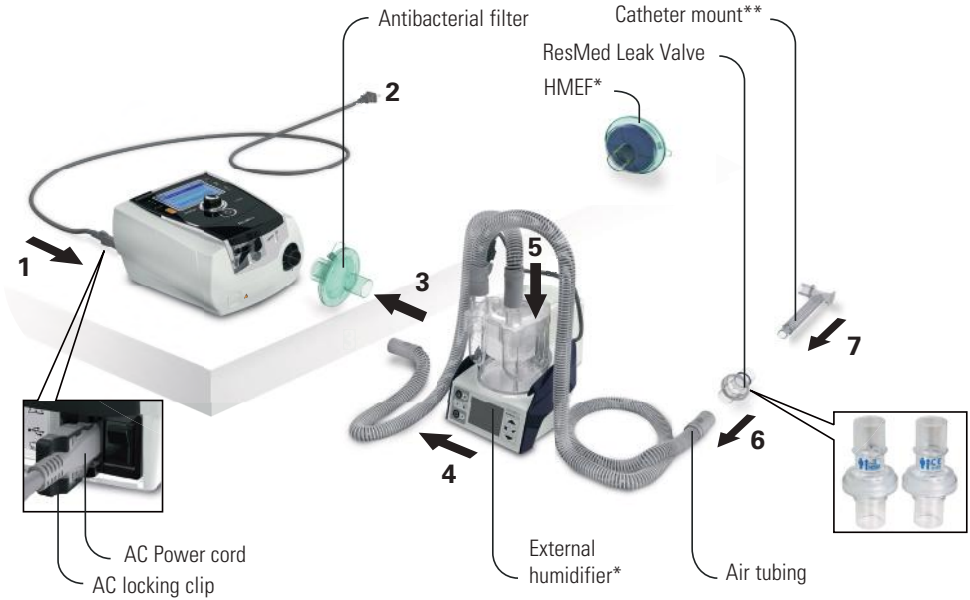
Quick Setup Guide
English

Setup

Noninvasive use



Invasive use



*If not using an external humidifier, connect the HMEF to the ResMed Leak Valve.

** The ResMed Leak Valve or the HMEF can be connected to standardised tracheostomy interfaces including connector pieces like catheter mounts.


The catheter mount and the external humidifier are not part of the ResMed component.

About the control panel

External power supply LED
On when external battery is connected.

Internal battery LED
On when internal battery is in use. Flashes when device is turned off and battery is charging.

Alarm LED
Red or yellow during an alarm condition or during alarm testing.

Alarm mute button LED
On when  is pressed.

Alarm mute button

- Silence the alarm
- Clear the alarm message (low priority alarms).

Mains power LED
On when operating on mains power.

LCD screen

Menu button
Navigate through the menus
Monitoring
Setup
Info

Push dial (rotate/click)

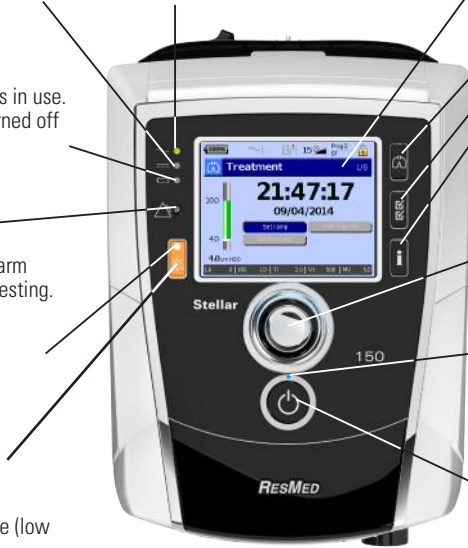
- Navigate through settings.
- Change settings' values.
- Enter and confirm your selection.

Therapy LED

- On during treatment
- Flashes during mask fitting operation.

Start/Stop button

- Start/Stop ventilation
- Start mask-fit (hold down for at least three seconds).



Rear panel

Oxygen inlet

Air filter cover



XPOD pulse oximeter connection

FiO₂ sensor connection

Data port for USB stick

Remote alarm connection

Data port for direct PC connection

DC power socket

AC power socket

Power on/stand-by switch



Turning the ventilator on/off



To turn the ventilator on, press the power switch at the rear of the device. Wait until the Treatment screen is displayed.

To turn the ventilator off, press the power switch at the rear of the device. Follow the onscreen instructions.

Accessing Clinical mode



Press  and  simultaneously for three seconds until the duration options appear. Follow the onscreen instructions.

To return to the Patient menu, press  and  simultaneously for at least three seconds.

Treatment settings



Program

Ramp time

Warm-up humidifier

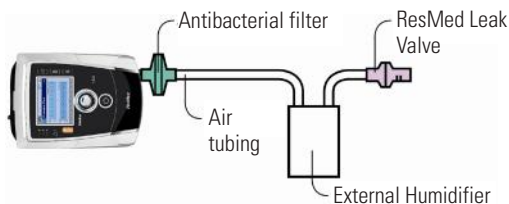
Yellow arrows display at the top or bottom of the pressure bar graph will show if a machine trigger or cycle occurred. If the inspiratory phase extends beyond the spontaneous cycle by Ti Min, a red arrow is displayed.

Selecting the mask type and performing a Learn circuit enables to calculate the impedance and leak for controlled therapy pressure.

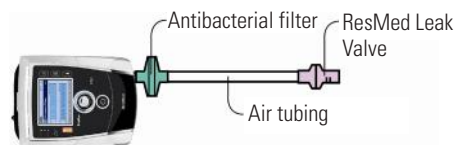
Learn Circuit configuration

Do not connect patient interfaces prior to performing the Learn Circuit. Patient interfaces include any components placed after the ResMed Leak Valve (eg, HMEF, catheter mount, tracheostomy tube).

With an external humidifier



Without an external humidifier

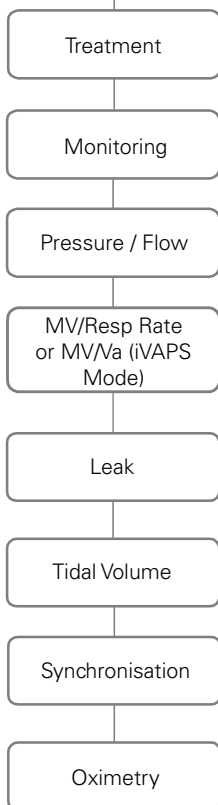


Using the menus

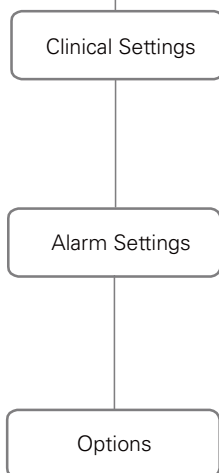
Menu overview



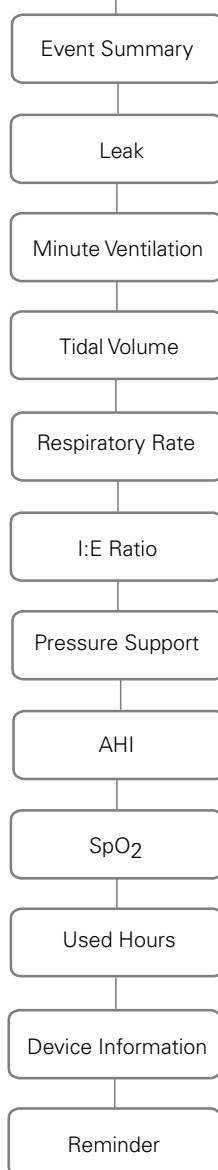
MONITORING



SETUP



INFO



Note: iVAPS mode is only available in Stellar 150.

Overview Clinical Settings

SETUP

	Clinical Settings	Advanced Settings
CPAP Mode	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Mode CPAP</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">CPAP 8.0 cmH2O</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Advanced Settings</div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Mask Type Full Face</div> <div style="width: 65%; border: 1px solid #ccc; padding: 5px; text-align: center;">↩</div> </div>
S Mode	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Pathology Normal</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Mode S</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">IPAP 10.0 cmH2O</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">EPAP 4.0 cmH2O</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Advanced Settings</div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">T_{imin} 0.3 sec</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">T_{imax} 2.0 sec</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Trigger MEDIUM</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Cycle MEDIUM</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Rise Time 150</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Fall Time 200</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Mask Type Full Face</div> <div style="width: 65%; border: 1px solid #ccc; padding: 5px; text-align: center;">↩</div> </div>
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iVAPS Mode	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Pathology Normal</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Mode iVAPS</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Height 175 cm</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Target Pt Rate 15 bpm</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Target V_a 5.2 L/min</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Target V_a Calculator</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">EPAP 4.0 cmH2O</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Learn Targets</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Advanced Settings</div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">T_{imin} 0.3 sec</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">T_{imax} 2.0 sec</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Trigger MEDIUM</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Cycle MEDIUM</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Rise Time 150</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Fall Time 200</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Mask Type Full Face</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Min PS 4.0 cmH2O</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Max PS 20.0 cmH2O</div> </div>
PAC Mode	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Pathology Normal</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Mode PAC</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">IPAP 10.0 cmH2O</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">EPAP 4.0 cmH2O</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">T_i 2.0 sec</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Backup Rate 10 bpm</div> </div> <div style="margin-top: 10px; border: 1px solid #ccc; padding: 5px; width: fit-content;">Advanced Settings</div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Trigger MEDIUM</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Rise Time 150</div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Fall Time 200</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">Mask Type Full Face</div> <div style="width: 65%; border: 1px solid #ccc; padding: 5px; text-align: center;">↩</div> </div>

Note: iVAPS mode is only available in Stellar 150.

Overview Alarm Settings and Options



SETUP

Alarm Settings

Alarm	On/Off	Setting	Current	Unit
Set all alarms off	Yes			
Low Min Vent	Off	2	2	L
High Leak	On	-	-	-
Non-Vented Mask	On	-	-	-
High Pressure	Off	30	30	cm H2O
Low Pressure	Off	-3	-3	cm H2O
High Resp Rate	Off	50	50	bpm
Low Resp Rate	Off	6	6	bpm
Low SpO2	Off	85	85	%
High FIO2 Alarm	Off	100	100	%
Low FIO2 Alarm	Off	20	20	%
Apnea Alarm	Off	20	20	sec
Alarm Volume	Medium			

Options

Learn Circuit	FiO2 sensor calibration	Smart Start Off
Ramp Time 15 min	Start CPAP 4.0 cm H2O	Max Ramp Time 15 min
Ramp Down On	Factory Defaults	Config Menu

Configuration Menu

Language English	Brightness 70.0 %	Backlight Auto
Time 11:31:44	Date 30/08/2011	Time Format 24h
Date Format dd/mm/yyyy	Pressure Unit cmH2O	Flow Unit L/min

Therapy LED Off	Confirm Stop Off	Pressure Naming PS/PEEP
Multi Program dual	Height Unit cm	Auto Scaling On
Erase Data		



Pathology defaults

Setting	Mode					Obstructive lung disease	Restrictive lung disease	Obesity Hypoventilation Syndrome	Normal lung mechanics
	S	ST	T	PAC	iVAPS				
IPAP [cm H ₂ O]	✓	✓	✓	✓		13	11	15	11
EPAP or PEEP [cm H ₂ O]	✓	✓	✓	✓	✓	5	5	7	5
PS [cm H ₂ O]	✓	✓	✓	✓		8	6	8	6
Rise time [ms]*	✓	✓	✓	✓	✓	150	300	300	200
Fall time [ms]*	✓	✓	✓	✓	✓	200	200	200	200
Trigger sensitivity	✓	✓		✓	✓	Medium	Medium	Medium	Medium
Cycle sensitivity	✓	✓			✓	High	Low	Medium	Medium
Min PS [cm H ₂ O]					✓	4	4	4	2
Max PS [cm H ₂ O]					✓	20	20	18	20
Ti Min [sec]	✓	✓			✓	0.3	0.5	0.5	0.5
Ti Max [sec]	✓	✓			✓	1.0	1.5	1.5	1.5

*The Rise/Fall Time milliseconds scale is an approximate only.

Note: iVAPS mode is only available in Stellar 150.

See the Stellar Clinical Guide for full details.

Not all devices are available in all regions.

MANUFACTURER
 ResMed Germany Inc.
 Fraunhoferstr. 16
 82152 Martinsried Germany

DISTRIBUTED BY
 ResMed Ltd 1 Elizabeth Macarthur Drive Bella Vista NSW 2153 Australia
 ResMed Corp 9001 Spectrum Center Blvd San Diego CA 92123 USA
 ResMed (UK) Ltd 96 Jubilee Ave Milton Park Abingdon Oxfordshire OX14 4RW UK

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