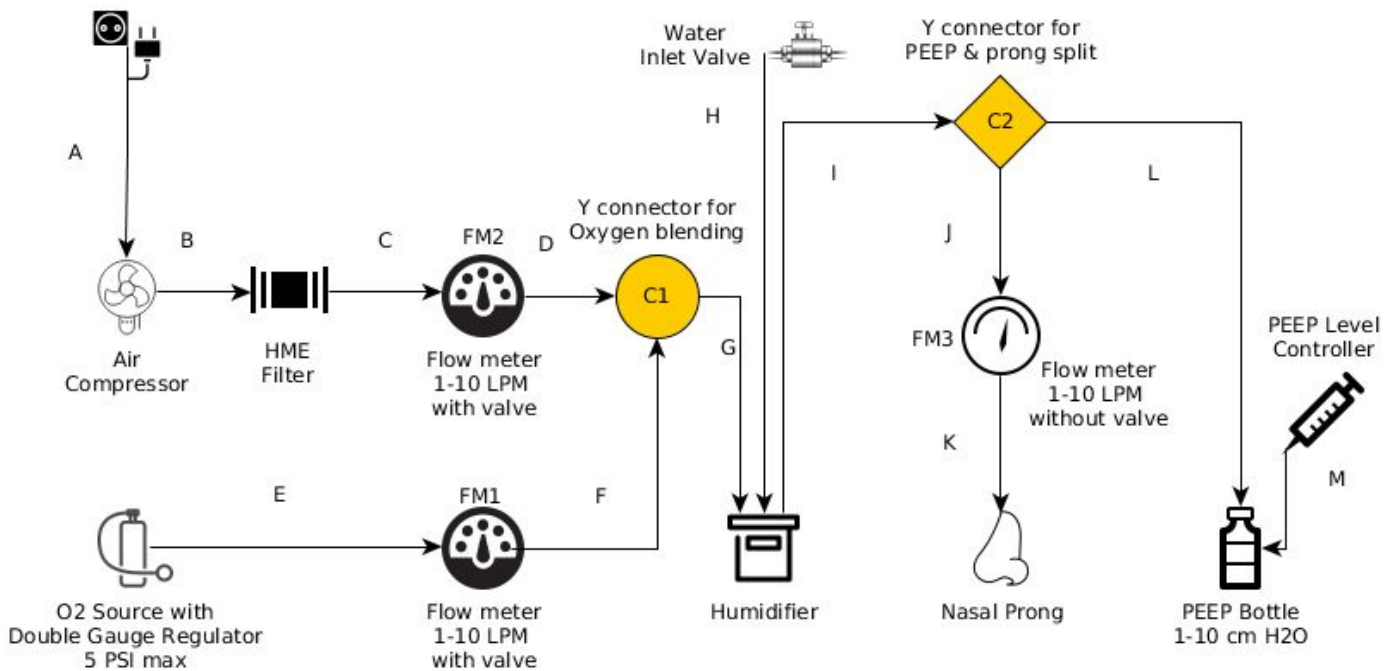


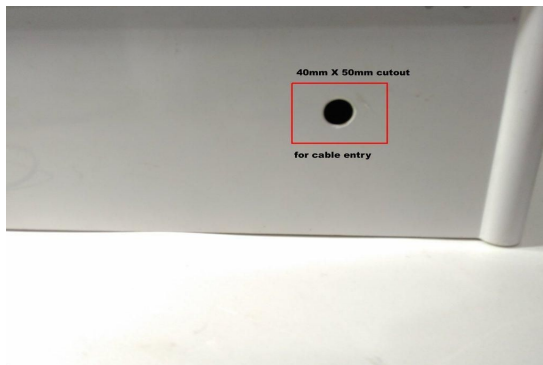
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Assembly instruction for CPAP device





System Diagram


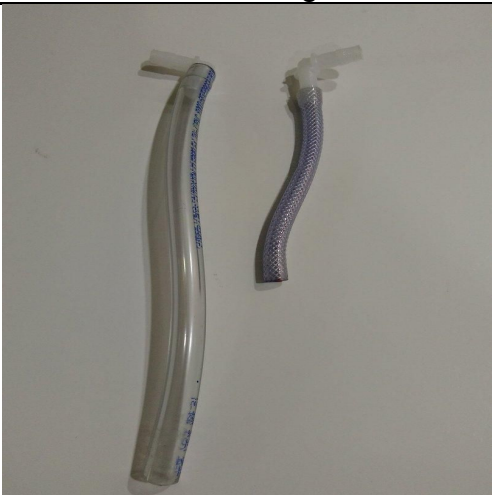

Step 1.1 Prepare the cut outs in the main enclosure

Step	Instruction	Image
1.0	Make a 40mm X 50mm clearance for cable inlet at any of the side walls of the enclosure.	 <p>40mm X 50mm cutout for cable entry</p> <p>Fig.0</p>



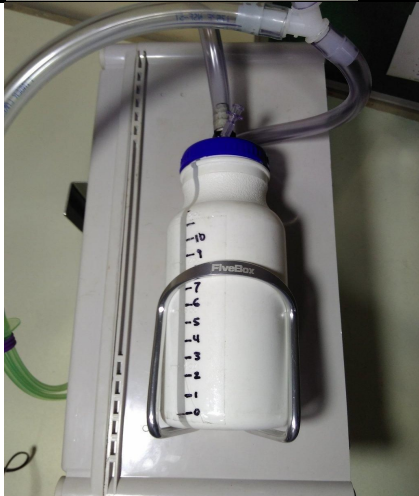
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	Note the type of the flowmeter. make two pairs of 15mm holes 70mm apart for fitting in the flowmeter.	 <p>Fig.1</p>
1.2	Place it as shown	 <p>Fig.2</p>

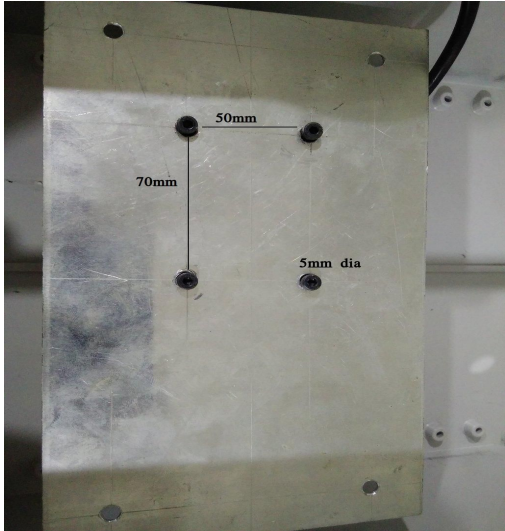
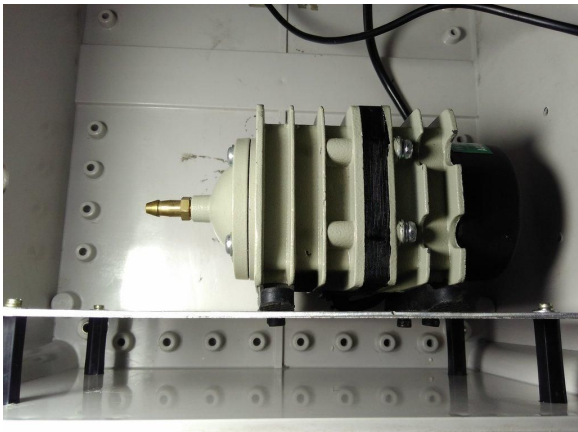

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1.3	Fix the screws to keep the final output flowmeter in place.	 <p>Fig.3</p>	
1.4	Cut two PVC tubes for each flowmeter & connect the elbow connectors to the tubes as shown in the picture.	 <p>Fig.4</p>	
1.5	<p>Connect the tubes to the flowmeter. The outputs of both air & oxygen carrying flowmeters are connected through a Y connector.</p> <p>Please refer to the system schematics at the end of the document for more details</p>	<p>Fig.5</p> 	

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1.6	Drill two holes of 5mm dia & 65mm apart and fix the bottle holder in that location.	 <p>Fig.6</p>	
1.7	Prepare the PEEP bottle assembly	 <p>Fig.7</p>	
	PEEP bottle to be mounted as shown.	 <p>Fig.8</p>	

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	<p>Prepare the base-plate for compressor mounting.</p> <p>Placement of the holes may differ depending on their actual mounting arrangement</p>	 <p>Fig.9</p>
1.8	<p>Assemble the pump & place it in the mounting holes.</p> <p>Make 4 mounting holes for placing the baseplate inside the enclosure. Dimension: 190mm X 90mm</p>	 <p>Fig.10</p>
	<p>Connect the compressor outlet to the flowmeter inlet as shown.</p> <p>The outlet of the flowmeter to be connected to the inlet of the humidifier.</p>	 <p>Fig.11</p>

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1.9 Preparation of the Humidifier

Drill three holes of 12mm dia & 50mm apart and place the threaded elbow connector as shown in the image.

Inlet and outlet port of the humidifier & water filling connector.




Some masking tape/ glue gun can be applied for achieving better grip & air-tightness.

Fig.12





Fig.13

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1.10	<p>A ball valve is set at the top of the system to fill water in the humidifier.</p> <p>Place the humidifier chamber in the appropriate place.</p>	 <p>Fig.14</p>
1.11	The final placement of compressor & humidifier	 <p>Fig.15</p>
1.12	<p>Drill a hole of 12mm diameter at the center of the cap of the bottle & place the threaded connector & 180mm PVC pipe of 12mm internal diameter.</p> <p>Drill 4 holes of 5mm diameter at the cap of the bottle to insert luer lock tubing. This tube will be connected to a 60ml or 100ml syringe for adding or reducing water to the PEEP bottle.</p>	 <p>Fig.16</p>

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1.13	<p>Cut a 115mm tube & place it in between the humidifier chamber outlet & Y connector.</p> <p>Connect the nasal cannula & tubing to the wye connector.</p>		Fig.17
1.14	Assembled bubble CPAP		Fig.18