**Set Up**

- **Step 1**
  Connect Patient Tube To Patient
  Connect chest drain to patient prior to initiating suction.

- **Step 2**
  Connect Suction To Chest Drain
  Attach suction line to suction port on top of chest drain.

- **Step 3**
  Turn Suction Source On
  Increase suction source vacuum to -80mmHg or higher. Suction regulator is preset to -20cmH₂O. Adjust as required.

- **Step 4**
  Fill Air Leak Monitor
  Fill air leak monitor to the line by syringe (no needle) with 30ml of sterile water or sterile saline via the needleless injection port located on the back of the drain. For models available with sterile fluid, twist top off syringe insert tip into needless luer port. Depress syringe plunger into luer port and squeeze contents into air leak monitor until fluid reaches fill line.

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**What To Check During System Operation**

- **Changing Suction Pressures**
  Suction regulator is preset to -20cmH₂O and can be adjusted from -10cmH₂O to -40cmH₂O. To change suction setting, adjust rotary suction regulator dial located on the side of the drain. Dial down to lower suction pressure and dial up to increase suction pressure.

- **Increase Vacuum Source When Bellows Is Not Expanded To Mark**
  If the bellows is observed to be expanded, but less than the mark, the vacuum source pressure must be increased to -40mmHg or higher.

- **Manual High Negativity Vent**
  To manually vent the system of high negative pressure, depress the filtered manual vent located on top of the drain until bubbling occurs in the air leak monitor.
  - **Do not use manual vent when suction is not operating or when the patient is on gravity drainage.**

- **Automatic High Negativity Relief**
  The Express incorporates an advanced automatic high negativity relief valve. This filtered valve activates automatically to limit system pressure to approximately -50cmH₂O.

- **Placement Of Unit**
  Always place chest drain below the patient’s chest in an upright position. To avoid accidental knockover hang the system bedside with the hangers provided.

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**Frequently Asked Questions**

- **Q** What should I do if the chest drain gets knocked over?
  We recommend that the drain be placed back into the upright position, however it will continue operating if knocked over.

- **Q** Is it required to fill the air leak monitor?
  The air leak monitor should be filled for confirmation and detection of air leaks.

- **Q** What does it mean when the vacuum indicator is visible? The symbol indicates that there is vacuum present in the system (negative pressure, i.e. -20cmH₂O).

- **Q** When will I see a rise in the air leak monitor column?
  A rise in the air leak monitor column will only be seen if there is an increase in negative pressure on the patient side. When changing suction pressure from a higher to lower level, depress the manual high negativity vent to reduce excess vacuum to the lower prescribed level.

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**Have a question or need help in a hurry? Call Atrium toll free at 1-800-528-7486.**

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