

EXPRESS WITH BATTERY POWERED VACUUM SYSTEM

The battery powered vacuum system is designed to allow operators to use the Express and have the confidence that the vacuum will be maintained automatically however no system is guaranteed to be 100% safe.

It is critical that the operators **often look at the gauge on the battery vacuum box** to ensure that the gauge is above 17" Hg. Also ensure that no person or their body parts are standing in front of or under the glass at any time.

The H frame must be used with FOUR vacuum cups. Although each 300mm vacuum cups has a WLL of 100kg...

**The WLL of the Express H frame with
TWO, THREE or FOUR 300mm Vacuum cups is 200kg**



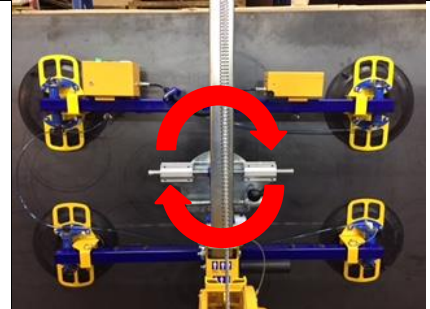
ASSEMBLY INSTRUCTIONS BATTERY POWERED VACUUM SYSTEM FOR EXPRESS

When assembling the Express with Battery Powered Vacuum System all descriptions below are based on the operator standing BEHIND the Express (that is NOT on the glass –side of the machine).

DESCRIPTION	PHOTO
<p>The vacuum pump is best used with the H FRAME, however it can also be installed on the Express single load arm however be careful not to over stretch the vacuum and power cables connecting the unit.</p> <p>Ensure that battery power cable INSIDE the battery box is connected.</p>	
<p>Remove all four vacuum cups. Attach the vacuum pump and battery box on the load arms of the H FRAME.</p> <p><u>Secure the power cable ends so they don't place a sideways stress on the power connectors on the vacuum pump and battery box.</u></p> <p>Insert and lock the power cord into the vacuum control box and battery box.</p>	
<p>Remove the brass plunger from each of the four vacuum cups and protect the rubber seals by placing them in a dust proof sealable plastic bag.</p> <p>There are four Elbow grey connectors that are inserted into the four vacuum cups connected.</p>	

Connect all vacuum hoses securely into each of the T and Elbow connectors of the four vacuum cups.

Once all hoses and cable are connected, rotate the H FRAME 360 degrees to ensure the hoses or cable do not “catch” or are affected by the rest of the machine. If so reattach the hoses so they are not interfered with.



Press the green power button to start the vacuum pump.

Place the four vacuum cups on glass so they create a seal on the glass and the pump should stop once the vacuum is reached above 17” Hg

This vacuum system is designed so that once the Express vacuum cups are flat on the surface of the glass:

1. the power and pump is turned on,
2. wait until optimum vacuum is achieved (by the gauge reading above 17” Hg).
3. The glass is safe to be lifted with gauge in the green zone (above 17” Hg)
4. Notice that if the vacuum drops, the pump should restart at 17” Hg.



If the glass is to be detached, then turn the vacuum pump off and depress the **vacuum release lever** on each vacuum cup which will release the vacuum and allows the glass to detach.

This is safety design so that if the battery powered vacuum system fails during operation then the operator still has time to lower the glass and reduce the risk of injury or damage.



NOTE: If the vacuum falls quickly and pump restarts then make sure that the glass is clean, all air connectors are pressed in firmly and vacuum cups are not damaged.

BATTERY RECHARGE: Recharge the battery with the supplied battery charger when the indicator registers less than 20% LED's on the Control Box when the pump is not running.

It is normal for the battery level to drop while the pump is running but once the pump stops the battery level should increase.



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