

# Compressor Requirements For Lotus Air Presses LTS 550 & LTS 750 Series

There are **two** different pressures to consider when running your air press. Your air feed coming from the compressor must meet the below requirements to avoid damage to your heat press.

## Pressure Feeds From Compressor:

### Inwards Pressure Feed From Your Compressor: Requirement 1 of 2

This is what powers the internal mechanisms of air presses. This pressure **must not be lower than 7 bars**. Not meeting this requirement will cause regular breakdowns for your press and may invalidate your press warranty.

### Outwards Pressing Pressure By Your Press: Requirement 2 of 2

This is the pressure applied by your press to your bottom printing plate by the top heating plate. This pressure can be adjusted in a range from as low as 2.5 bars so as to not squash thick transfer products like 'brick' heat transfers. Other products such as sublimation heat / pressure applied transfers might require a higher pressure of around 8 bars.

Your Lotus air compressor powered heat presses can output heat plate pressure between 2.5 - 10 bars providing the air input from your compressor is capable of delivering such pressure without dropping below 7 bars of input pressure to your heat press.

Underpowered compressors that do not meet these specifications may power your air heat press - possibly for years. However, eventually a compressor that doesn't deliver a constant 100% pressure of 7 bars or higher at all times will prematurely wear out parts of your heat press. This will lead to lengthy production downtimes and very expensive repairs.

## Other Compressor Requirements:

- 100 Litre Tank     - Air Delivery: 340 - 450 L/min, 12 - 16 CFM     - Motor Size: 3HP (2.2kw)

## Draining Air Compressor:

Air compressors suck in air which contains moisture, condensing into water inside your compressor air holding tank. This water rusts the inside of your tank if made from iron. Aluminium tanks avoid this problem but can still have up to litres of water building up inside. This lowers the volume left for air, meaning that your compressor has to run more often to fill the compressor holding tank. This will lead to your compressor overheating and early burnout of your compressor.

**Daily use of your compressor requires draining it each day - No Exceptions.**

Failure to drain your compressor can on occasion cause fires - such as the case in Auckland which caused a factory to burn down.

# Heat Press Media LTD

Website:  
[www.heatpress.co.nz](http://www.heatpress.co.nz)

Technical Helpline:  
027 501 0000  
LOPP: 20250912AT1-50

Email:  
[heatpressteam@gmail.com](mailto:heatpressteam@gmail.com)

# Approved Compressor For Lotus Air Presses LTS 550 & LTS 750 Series

## Ash Air SF302HD

(Capable of running up to **two** LTS 750 PA 2.0 Presses)



Motor Size: 3HP (2.2kw)

Tank Capacity: 100L

Pump Displacement: 16CFM, 453L/min

Maximum Pressure: 8 bar

Cylinders: 3

Noise Level: 93 dB(A)

**\$2,185.00 incl GST**

Available at: [www.ashair.co.nz](http://www.ashair.co.nz) - 2 year warranty

This compressor has been designed to be safe for continuous indoor use, unlike most other compressors. This is due to its heat management system which reduces overheating in an inside environment by fanning air into the heat generating components.

This compressor has 3 cylinders running at a lower rpm, resulting in reduced wear, a longer lifespan and holds within the necessary bar pressure range specified for Lotus presses.

This compressor also features a continuous run mode which works by disengaging the pump rather than the motor - increasing the motor lifespan and avoiding motor cycling.

The sort of compressors you will see at retailers such as Bunnings are not suitable for air presses. They are designed for tradesman and painters type tools that rely on the compressor topping up pressure at regular intervals and as such don't give the even air flow needed in air driven heat presses. They last for a year or two and will damage parts of your heat press.

**The above compressor have been approved by the CEO of Lotus Odette for use with their LTS 550 & LTS 750 series of heat presses. As such your warranty of your heat press would not be invalidated if using this compressor or any other compressors approved by Lotus.**

### Lotus Contact Details:

CEO Email: [depasquali@lotustransfers.de](mailto:depasquali@lotustransfers.de)

Website: [lotuspress.it](http://lotuspress.it)

## Heat Press Media LTD

Website:  
[www.heatpress.co.nz](http://www.heatpress.co.nz)

Technical Helpline:  
**027 501 0000**  
LOPP: 20250912AT3-12

Email:  
[heatpressteam@gmail.com](mailto:heatpressteam@gmail.com)