

Close the rear cover and prepare to connect the Respiratory Protective Equipment.

## BASIC TECHNIQUES

With the compressor running attach up to four user airline escape sets (available for hire from your local HSS Safe and Sure Depot) to the safety lock coupling air outlets.

The safety lock couplings require a two-movement sequence to either connect or disconnect. To make a connection, slide back the collar on the female connector, push the male fully in and release the collar to lock the two together.

To release, firstly push the male connector in then slide and hold the collar on the female and extract the male.

The regulated breathing air outlets are at a pre-set non-adjustable pressure of 6 bar. Refer to the instructions supplied with your airline escape set for the correct pressure.

For airline escape sets that require a different pressure please contact your local HSS Safe and Sure Depot.

There are two audible alarms fitted to the unit, these will sound to inform the compressor operator of a fault.

The low pressure alarm will sound if...

The compressor pressure drops below 8bar.

The engine or compressor unit have failed.

There is an excessive demand for air.

The airflow is being restricted.

The high pressure alarm will sound if...

The backup cylinders pressure drops below 40bar.

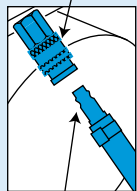
During use, if the compressor fails to deliver an air supply the backup cylinders will automatically take over. If the situation does arise, evacuate the airline escape set users to a non-hazardous area.

If the engine or compressor oil become overheated or low oil pressure is detected, the primary supply will be shut down and will activate the back up supply.

A failed compressor **MUST NOT BE USED AGAIN**, return the unit to your local HSS Safe and Sure Depot.

### Safety Lock Coupling

Female Safety Lock Coupling



Male Safety Lock Coupling

Keep the equipment clean - you will find this less of a chore if you clean it regularly, rather than wait until the end of the hire period.

Regularly check the fuel level and top up as necessary with diesel.

Regularly check the oil level - when the engine is cold and on level ground. Withdraw the dipstick, wipe it clean, then replace it, remove it a second time and verify that the oil level is between the min and max lines, top up as necessary. Suitable oils are available on sale or return from your local HSS Safe and Sure Depot.

When not in use, store the equipment somewhere clean, dry and safe from thieves.

## FINISHING OFF

When you have finished with the unit firstly make sure that the airline escape set users are out of the hazard area and are NOT wearing the sets.

Open the canopy then close the cylinder valves on all three backup cylinders by turning clockwise.

Switch the engine OFF by turning the ignition key to the OFF position. Wait for the engine to stop. At this stage the HP alarm will activate do not be concerned as it will stop once the compressor is fully depressurised.

Open the bleed screw fitted to the centre cylinder (see illustration) top vent any remaining air from the HP system.

Remove stored pressure by pressing the 'unload' button. Keep the button depressed until all stored pressure has been released.

### Cleaning

The hirer has a duty of care to ensure the equipment is returned clean of any potentially harmful contaminants or body fluids. HSS may refuse to accept equipment that has not been suitably cleaned.

### Specification

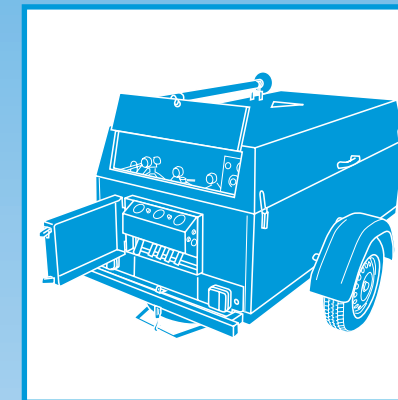
Weight	450kg
Fuel Consumption*	3.2 litres per hour
Tank Capacity*	25 litres
Maximum continuous running time*	8 hours
Noise Level	78dBA @ 4 metres
Chalwyn Valve Fitted	YES
Spark Arrestor Fitted	YES
Low Engine Oil Pressure Cut-out	YES
Compressor Oil Over Temperature Cut-out	YES

\* Approximate.

Close the canopy then lower the compressors air intake tube ready for return to your local HSS Safe and Sure Depot.

## Operating & Safety Guide SS797

**HSS Safe & Sure**  
SAFETY & SURVEY EQUIPMENT HIRE



# Four Man BA Compressor

A road towable trailer mounted breathing air compressor with 4 regulated air outlets.  
Air quality conforms to BS4275,  
and BS / EN 12021



### ...any comments?

If you have any suggestions to enable us to improve the information within this guide please fax your comments or write to the Product Manager at the address below  
Fax: 020 8687 5001

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Code 34044

## EQUIPMENT CARE

Never push the equipment beyond its design limits. If it is unsuitable for the task you are performing DO NOT USE OR RELY ON IT. Contact your local HSS Safe and Sure Depot for advice.

## GENERAL SAFETY

For advice on the safety and suitability of this equipment contact your local HSS Safe and Sure Depot.

There is a serious risk of personal injury if you do not follow all instructions laid down in this guide.

The hirer has a responsibility to ensure that all necessary risk assessments have been completed prior to the use of this equipment.



This equipment should only be used by an operator who has been deemed competent to do so by his/her employer.

This equipment may be used in a workplace subject to a permit to work.

It is the hirer's responsibility to ensure that the equipment's technical specification meets the requirements of any such permit to work prior to starting work. For further technical information contact your local HSS Safe and Sure Depot.

This equipment should be used by an able bodied, competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability, should seek expert advice before using it.

Keep children, animals and bystanders away from the work area. Cordon off a NO GO area using either cones, barriers or tape, available for hire from your local HSS Safe and Sure Depot.

  Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

Wear sensible, suitably protective clothing and footwear plus any safety wear appropriate to the work in progress.

The Breathing Air Compressor must be tested for air quality prior to first use at any new location and every four weeks thereafter. HSS Safe and Sure can arrange for a certified test as necessary, contact your local HSS Safe and Sure Depot for further information.

Make sure you know how to operate this equipment safely and are aware of its limitations before you use it.

Make sure that everyone is aware of what you are doing.

Ensure the area where the compressor is to be used is well lit and ventilated, if in doubt, ask about lighting and ventilation equipment at your local HSS Safe and Sure Depot.

## Exhaust Danger

NEVER operate diesel engines indoors or in a confined space.

The exhaust contains gases that can kill.

Do not work near flammable gases or liquids, petrol or paint thinner fumes for example. Keep combustible materials at a safe distance - at least 5m.

Never leave the unit running and unattended. A competent trained person MUST remain with the unit whenever users are connected to it.

Make sure that you have an agreed means of communication with the users before operating this equipment.

Always switch the engine OFF and wait for moving parts to come to rest before making adjustments to it.

## Fuel Safety

NEVER refuel while the engine is hot or running. Never smoke or allow naked lights into the area while refuelling.

Never inhale fuel vapour.

ALWAYS mop up spillages as quickly as possible, and immediately change your clothes if you get fuel on yourself.

ALWAYS store fuel in a purpose-made sealed container, in a cool, shaded, safe place well away from the work area.

Take care where you lay airlines, avoid running them across sharp or jagged objects. It is vital that the airlines are routed where there is no risk of them being crushed by vehicles or loads.

Engines, especially the exhausts, get very hot so switch OFF and allow to cool before touching them.

Keep flammable materials well away from engine and exhaust.

Check the condition of the equipment before use. If it shows signs of damage or excessive wear, return it to your local HSS Safe and Sure Depot.

COSHH information sheets are available from your local HSS Safe and Sure Depot.

## GETTING STARTED

Unhitch the unit from the towing vehicle in an area where there are no toxic gasses present and where the exhaust from the unit will not enter the work area.

With the machine on firm level ground, raise the canopy, check oil, water and fuel levels and top up as necessary (see EQUIPMENT CARE). Make sure you

close and secure the canopy to aid cooling and reduce noise levels.

Fuel levels MUST be regularly checked and maintained to ensure that the unit does not run low on fuel. A safety cut out will stop the engine if levels become too low.

If the fuel level becomes low, you will hear an audible alarm backed up by a warning lamp. Always evacuate the users to a safe area and refuel the unit.

Raise the air intake tube with wind direction indicator fitted and adjust the unit's position to bring the tow hitch facing down wind.

The air intake tube is used to supply the compressor with the air for breathing and NOT the engine.

If the unit is turned upwind, the engine exhaust gasses will enter the air intake.

Fit three fully charged backup cylinders to the unit. This unit uses standard 1800 litre cylinders.

Place each cylinder in an upright position and attach the cylinder connectors. Ensure that the hand wheels are fully tightened (hand tight only). Close the bleed screw fitted to the centre cylinder (see illustration).

It is important to note that this compressor DOES NOT replenish the backup cylinders. Discharged backup cylinders should be exchanged for refilled ones, contact your local HSS Safe and Sure Depot for details.

Next, open the rear cover and press the unloader valve button to remove any stored air pressure.

To start the compressor, turn the ignition key clockwise to the GL position, this activates the glow plugs for cold starting. Once the glow plug lamp extinguishes, press and hold the unloader valve button and turn the key to ST (start).

Once the engine starts turn the key back to ON. Continue holding the unloader valve button until the engine reaches normal speed.

Fully open (turn anti-clockwise) the cylinder valves on all three backup cylinders. The HP alarm will sound and will stop once the cylinder pressure is above 50bar.

Next, check the cylinder pressure gauge, the gauge MUST register above 150bar. If the reading is lower, DO NOT use the compressor until the cylinders have been replaced.

## Airline Management

Prior to use, carefully prepare the BA units ensuring they are safe to use.

Fully unroll the airlines laying them out over a smooth surface. Make sure the airlines are free from kinks and sharp turns.

Cordon off an area around the compressor and along the route of the airlines. DO NOT allow traffic to move between compressor and users.

REMEMBER, first person in should be the last person out, to avoid entanglement between users.

