

Risk Element

Tools Required

- Gauges and Hoses to suit refrigerant to be removed;
- Recovery unit;
- Allen keys;
- Adjustable spanners;
- Weigh scales.

Safety Equipment

- Safety goggles to suit refrigerant;
- Safety gloves to suit refrigerant;
- Only qualified personnel to handle refrigerants;
- Never work on any system without the correct PPE equipment for the job;
- Works to be carried out in conjunction with COSHH assessment & MSDS sheet;
- Never guess weight of the refrigerant in the gas bottle always weigh cylinder;
- Always carry out this operation in a well-vented area;
- Never overfill the recovery cylinder.

Safe Working Method

- (a) Weigh recovery cylinder, record the result, not to mix refrigerants.
- (b) Check the capacity (in KG,) of the recovery cylinder to ensure it will hold the intended recovered refrigerant.
- (c) Connect LP gauge (Blue) to blue hose then onto LP service valve on air con unit.
- (d) Connect HP side to HP hose (Red) to high pressure side of air con unit (note all valves are closed at this point.)
- (e) Fit copper bonnets to pipe connection on the air con service valves and tighten all nuts then open the service valves with Allen keys.
- (f) If refrigerant is now present on the gauges continue to connect the recovery unit, if no gas is found remove high-pressure connection on the air con unit and connect to the Schrader access fitting on the liquid side. This should now show gas if not then system is empty if gas is present continuing to connect recovery unit.
- (g) Connect yellow hose from gauge centre to suction inlet port on recovery unit. Connect hose to discharge outlet connection on recovery unit, then to gas cylinder, ensure valves on hoses are closed.
- (h) Open red and blue line taps to fill lines with refrigerant
- (i) Open gate wheel Red HP on gauge with recovery unit in off position
- (j) Close LP side (Blue) on gauges turn recovery unit to liquid and start unit, monitoring the cylinder refrigerant weight ensuring overfilling the cylinder does not occur. When gauges almost reach zero. Switch recovery unit to gas and open LP side on gauge. Unit will cut out when gas has gone. Switch unit to purge.
- (k) Recovery unit will now light up and state recovery complete close cylinder valve.
- (l) Re Weigh cylinder and deduct initial net weight this is now the KG of gas you have in the cylinder.

Label cylinder with:

- Type of Refrigerant inside;
- Date;
- Your name;
- Space left in cylinder.

Close all valves on refrigerant hoses.

Disconnect all lines and label air con units stating this unit contains no refrigerant and dispose of old units. Complete waste disposal forms and attach to cylinder.