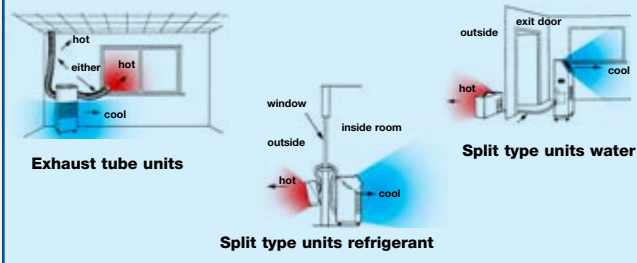


Air conditioning types

The operation of portable air conditioners: Andrews Sykes offer 3 principle types of portable air conditioners. These are:



Exhaust tube units

In ET models both the evaporator and condenser are positioned within the room unit. The majority of the air that is passed through the unit is directed over the evaporator and returns back into the room, as cooled air. A smaller volume of air is passed across the condenser to cool the refrigerant gas. This air needs to be removed from the room as it becomes hot. An exhaust tube is used to remove this hot air via an opening in the room (usually through a window). In some cases the exhaust tube may be positioned into a false ceiling void, advice should be sought before using this system.

Split type units (refrigerant)

These are models similar to the PAC14, such units are supplied in 2 parts, a room unit and a condenser. The room unit placed within the area to be cooled comprises of an evaporator and a compressor. The room air enters the unit and once passed across the evaporator is returned into the room as cooled air. The external unit which is connected to the room unit by a flexible pipe, contains the condenser which needs to be cooled by ambient air, therefore the external unit needs to be positioned outside of the room to be cooled. Typically the condenser is hung from a window.

Split type units (water)

These units are the PAC15, PAC22 and Zephyr, such units are also supplied in 2 parts, a room unit and a heat exchanger. The principle in operation is very similar to the above. The major difference is that the condenser is placed within the room unit and cooled by water. The water is then circulated to the external unit (heat exchanger) via flexible pipes before returning to the room unit. The system is totally sealed and requires no further water once the unit is in place. The main advantage of this system is that the connection pipes can be extended - up to 30 metres - allowing the heat exchanger to be positioned away from the room unit.