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OPTION 3 – Internal Pack & Condenser

This solution uses an internal mini compressor pack, generally located within the bulkstore area of the store, this is then linked to an external condenser which can either be located on the roof of a building, around the perimeter or within a dedicated service yard.

This is one of the quietest options for plant and is the most common solution within Express currently due to its diversity.

The condenser requires a minimum of 1m clear air flow along three of its four sides. There must be unobstructed space above the condenser and it cannot be sited under a canopy or overhang.

The three A/C units will also need to be located externally when using this option.





Plant	Length	Depth	Height	Noise Day (max)	Noise Night (max)
Condenser	3200 mm	1200 mm	1695 mm	32 db(a) @ 10m	27 db(a) @ 10m
Internal Pack	1400 mm	534 mm	1920 mm	N/A	N/A

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Air Conditioning Units

Three air conditioning units are used in all Express stores:

1x cash office / server room unit which is programmed on a cooling only cycle and cuts in and out on demand 24hrs a day

2x shop floor units which provide both heating and cooling to the store to a pre determined temperature. These units operate through trading hours only and are linked to the main store lighting switch, they therefore do not run through the night, keeping both noise levels and costs down.

Maintenance access to the units is paramount when locating the external A/C due to current working at height regulations. Although the units can be floor or wall mounted please take access into consideration. Condensate water is produced from the A/C units when in heating mode a nearby drain gully / upstand is required to collect condensate.



Plant	Width	Depth	Height	Noise Day (max)	Noise Night (max)
Cash Office	780 mm	290 mm	540 mm	32 db(a) @ 10m	32 db(a) @ 10m
Shop Floor	970 mm	370 mm	845 mm	40 db(a) @ 10m	N/A