



how to design a central vacuum system

BEAM
CENTRAL VACUUM SYSTEMS

Before starting to design your Beam Central Vacuum system, it is important that you understand all the implications on how it can be installed. The installation can be carried out by a competent DIY'er.

1 unit location

The most popular locations for the appliance to be mounted are on a wall in a:

- 🏠 garage
- 🏠 utility room
- 🏠 under the stairs
- 🏠 basement
- 🏠 cupboard
- 🏠 loft.

Ensure the unit is alongside a 13A socket otherwise an electrician will be required.

You will need a wall space of about

1.2m high by 0.5m wide to hang the appliance.

As the filters within the appliance are to a high standard, the exhaust doesn't always need to be vented to the outside, especially if it is located in a garage. However, if the appliance is in a utility room and it is convenient to do so, venting externally ensures even the smallest particles and vacuum smells can be eliminated.



unit in garage



unit under the stairs



2 inlet locations

The aim is to cover as much of the house from each inlet, so you don't have to keep unplugging the hose when you move between rooms. Always try to keep the inlet centrally located within the house, ideally in a hall or on a landing. Inlets can also be installed in the floor.

- 🏠 You may need two people to work this out as you have to measure how far you can reach with the hose all round the house.

- 🏠 Start with an 9m (29'6") piece of string/measuring tape. One of you will need to stand at a fixed point in the hallway, (the inlet end) about half a metre off the ground.

The other person will see how far the 9m 'hose' reaches into every room from that point, adjust the inlet location accordingly. You may need more than one inlet downstairs, especially if you have

- 🏠 large rooms.
- 🏠 Do the same on the landing upstairs and each floor thereafter.

If you have floor plans you can cut a piece of string to scale, or use a ruler to work out how many



inlets you will need on each floor.



Make sure that you take into account where furniture is/is likely to be, as you don't want a hose stretched over a table or a bed.



It is wise to have an inlet near the bottom of the stairs, not only because it's easier to vacuum going up the stairs but also so that you don't run out of hose halfway up.



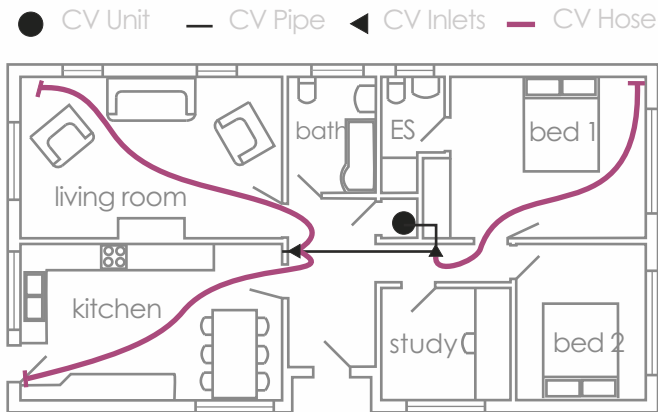
Ensure the hose can reach all the corners of the rooms including the ceiling level (if you wish to use the dusting brush.)



example of inlet locations

The central vacuum (CV) system shown below, requires a two inlet kit based on the use of a 9m hose.

A typical inlet kit includes 6m of vacuum pipe and all the fittings you should require. If however you need more components just give us a call.



typical components of an inlet kit



90° sweep bend
x 4



90° sharp bend
x 1



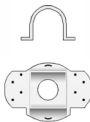
45° sweep bend
x 2



90° sweep tee
x 1 (in add-on kit)



stop coupler
x 4



pipe bracket
x 3

mounting
plate
x 1



plaster guard
x 1



solvent sealer
x 1
wall inlet
x 1



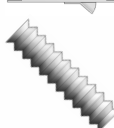
wire x 8m &
cable ties x 10



vacuum pipe
x 6m



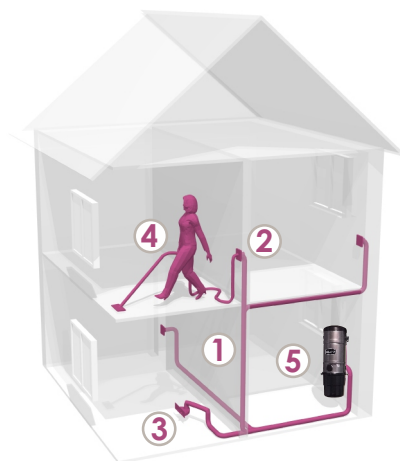
Vacpan (in
VacPan kit)



flexible pipe &
clips (for joining
Vacpan to vac
pipe)

3 routing the vac pipe

- ① hidden 52mm Ø pipework
- ② wall inlet
- ③ kitchen VacPan automatic dustp
- ④ vacuum hose
- ⑤ power unit



The pipe has a 52mm(2") diameter which can be hidden in many natural voids such as:

- 🏠 the back of fitted wardrobes or cupboards
- 🏠 in existing soil pipe boxing
- 🏠 in the loft
- 🏠 under floorboards*
- 🏠 underneath kitchen units
- 🏠 outside - perhaps next to guttering and painted to match.

It may not be possible to conceal all the pipework, so look for areas where it is discrete, for example behind a cloakroom door.

The pipe can then be painted the colour of your walls, or we have a special pipe hider in various wood finishes or one that you can paint to match your decor.



* Run pipe with the joists, never cut through a solid timber joist without seeking professional advice first.

Help and advice is available at anytime. We offer full system installation for complete peace of mind. Please call us on:



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