

Guide to Drying Cavity Walls

To work out how many systems you will need, you will need to look at the construction of the walls.

For example if you are drying the internal walls with insulation, you will need more systems than without insulation, and the same goes for if for drying the external walls.

You will also need to look at the layout of the rooms and where you can vent the unit, for example, windows, extractors and letterboxes.

T150's can run up to 3 x C16 kits from a C25 manifold

T200's can run up to 4 x C16 kits from a C25 manifold

Once you know how many systems you will need, you will need to drill holes into the walls, to do this you will need to use a 16mm drill bit and you will need to drill into the cavity for loose or no insulation, if you have dense insulation like kingspan, celotex or compacted rockwool, you will need to drill until you have reached the back.

We would recommend that you drill 3 – 4 holes per linear meter and to drill them as low down as possible, if you are drying internal walls then ease the skirting boards away slightly to prevent mold and drill just above, if the skirting has blown then drill into the skirting as this will make the reinstatement easier.

Place your pipes into the walls, leaving at least half the holes with no pipes in, as these will become vent holes, the idea is the dry air will go in and then carry the moisture out of the vent holes.

Connect the manifolds to the turbine outlet on the machine and turn the system on. Check that the flow-meter on the system is not in the red, If it is still in the red, then you may need to drill a few more holes. If it's in the amber, leave it running for 15-30mins and it should drop down into the green. You don't want air to be coming out of the holes with the pipes in, so if it is, refit them. If you can't get a good seal, then place it into a different hole. You can use an anemometer to check for air flow from the vent holes.

Once all that is done make sure the systems are vented to the outside, stay on site for 30-45 mins to make sure the turbines carry on working, as long as they are working you can leave but make an appointment to go back in two days to check they are all still working. As we are pressurising the air we will generate heat. If the system has tripped off, it is probably because it got too hot in the environment. Remove the black cap and press the reset pin and this should turn the system back on. I would

recommend leaving some windows on ½ lock to allow the heat to escape as it will only trip off again if you don't. If this is not possible then call Corroventa for some advice. **IMPORTANT** These machines need to run 24/7 and should not be turned off until the drying is complete as this can trip the thermal switch in the system. You may then struggle to get it back on , if this happens then please call Corroventa and we will advise you on what you need to do.

Monitoring the drying : Make regular visits to site and take g/kg readings from a dry air pipe and the vent holes. You will then see how well it is drying. Within the process you may need to change the holes the pipes are in and put them into holes that are not drying as well. Once the dry air and vented air are close to being in balance you can shut the systems down. Place humidity sleeves in some vent holes with a hygrostat in and return and take final g/kg readings after three days. As long as they are not climbing above your target you can remove the equipment. If the g/kg is still climbing above your target then turn the equipment back on for a week , but take a look for any reasons why it could be climbing, for example : pointing on the brickwork, gutters, plants growing and breached DPC.

Time scale of drying. 1-4 weeks. These time scales are approximate and can be shorter or longer depending on many factors, for example if it has insulation or its external walls you are drying and how many machines you are using.

Please feel free to call or email for advice, we are here to help!

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