

3D Modelling

Armstrong provides more than the traditional 2D CAD drawings; we provide 3D “virtual” plant rooms; engineered to make the difference you can see.

Our 3D modelling computerised package, which is a first in plant room development, enables us to build of your “virtual” plant room prior to construction.

This eliminates many of the concurrent clashes and errors typical with traditional 2D systems.

Our in house developed comprehensive parts library is one of the most significant part libraries available to the mechanical sector and building services industry, consisting of many of the common components we use in our plant rooms.

The components have been accurately modeled utilising their critical dimensions and physical characteristics. Such components included boilers, pumps, valves, pipework, flanges, fittings etc; as well as our fabricated superstructure steelwork and our external items including cladding panels, doors, rain water pipework etc.

By our parts library being continuously updated with new market products and standard assemblies, our plant room engineering times are constantly being reduced; thus meaning your plantroom will be manufactured within a shorter delivery period.

Upon approval of our system schematic, the build of the virtual plant room commences by utilising the components and assemblies stored within our parts library.

When the layout is finalised, we then e-mail you our virtual plant room enabling you to “view in 3D” and “snag” your plant room well before construction commences.

Attached to the e-mail will be the necessary software to view the 3D image from a variety of views, sections and elevations. Comments can also be attached to the 3D model so that the layout can be altered to suit any of your specific requirements.

Following approval of the drawing the software will then produce for you the following from the approved model:

- Isometric layout.
- 2D plan, elevation, side and sectional arrangement drawings.

The approved 3D drawing will provide our engineers with the following information to enable your plantroom to be built on time:

- Pipework fabrication drawings complete with full material and cutting lists.
- Integration of capital plant and material into requisitions and purchasing.

All of this is produced automatically with the knowledge that it must fit because it has already been built – albeit as a computer generated model.

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