

New School Boilers

This project, undertaken by one of our Mechanical fit-out clients involved the stripping out of old, inefficient boilers and replacing them with a new, more effective and efficient model to keep up with the school's heating and hot water demands.

The problem:

The vast difference in design of the new boilers compared to the old models required a major rerouting of the all related pipe services in the boiler plant room. Usually this would involve either the shutting of isolation valves (which in this case were either located too far inside the plant room to be of any help or did not isolate fully), or the draining down of the whole heating / hot water system which was not ideal for the school maintenance personnel as it would deprive the system of its expensive water treatment chemicals, cause air pockets and blockages when being refilled and take valuable time away from the work of diverting the pipe work and installing the new boiler system.

The solution:

PSL were called by our client, under instruction to freeze multiple iron and copper pipes of various sizes from ½" to 6". These local freeze isolations, often in tight spaces allowed a small section of water to be drained, and new valves installed at the point where the pipes enter the plant room, to allow maximum flexibility to isolate, divert and reroute the pipe work to suit the new boilers, pumps, and heat exchangers. Pipe freeze isolation allowed various methods of pipe installation to be used, including welding of new flanges, mechanical threading and compression on the copper services.

PSL were able to assist the client in achieving their aim successfully and with the confidence Liquid Nitrogen pipe freezing gives in achieving a safe isolation.

Call PSL today to see how we can help you!

