



RUSKIN SCHOOL PROJECT //



This is an installation of two Acer 65/50 CO2 heat pumps for a school installed as part of a PSDS project to decarbonise heating.

The Acers are located outside with pipework run in to the building to a new buffer tank and refurbished plantroom.

The heat pumps are sized for 100KW total capacity at -5C ambient temperatures supplying radiators, FCUs and hot water generation.

The system design is slightly different to Clade standard and uses a buffer on the return to even out the return water temperature so the heat pump keeps working despite fluctuations in return temperature.

The chart below shows the variation in return temperature, notably the Clade CO2 heat pump can deal with up to 37C giving greater flexibility.

This install is in its early days but is already achieving COPs as high as 4.2.

