

Frosty Reception for Amos Pumps

The British Antarctic Survey has employed Amos Pumps (UK) Ltd to provide a Pressure Set to give a constant pressurised water supply in the accommodation block at Halley VI Research Station situated on the Brunt Ice Shelf in the Antarctic. The station has been manned since 1956; it is used to conduct research into meteorology, glaciology, seismology, radio astronomy, and geospace science. These continuous measurements can be used as a baseline to help understand the impact of human pollution on the planet, for example, long term measurements of stratospheric ozone from Halley allowed BAS scientists to discover the hole in the ozone layer, which led to the signing of the Montreal Protocol banning the use of CFCs.



Pressure Aircraft with supplies for Halley V1



Pulling bulk fuel tanks.



Pressure Set to provide “mains” type water pressure

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The two storey accommodation block will be populated by 70 construction engineers, aircraft pilots, steel workers, scientists and plumbers during the Antarctic summer; the winter, with 24 hour darkness outside, consists only of scientists. Halley Station is located on the Brunt ice shelf which is likely to have a calving event* in the next few years, so the buildings are mounted on skis so they can be relocated. Also the snow increases in depth by 1.2 metres each winter in temperatures down to minus 70 degrees Centigrade that if the snow was allowed to build up on the sides it would create such pressures on the walls that it would eventually crush the building.

Our Pressure Set is part of the hot & cold water services for the building. Reliability is essential as parts can only be flown in during short weather windows and we are proud of being associated with such a prestigious project.

* calving event means that the ice will break off into icebergs as Halley is on a floating ice shelf.



Pressure Set to provide "mains" type water pressure



Main food store.