

Sedgley Park RUFC Park Lane, Whitefield, Manchester, M25 7PA

AC Cooling system to the Gym

A number of internal AC / VRF units will be installed totalling to approximately 40kw of cooling & heating to the gymnasium. (actual heat load & loss calcs to be calculated prior to equipment selections)

The units will be either wall mounted units or cassette style subject to the maximum void space.

The proposal is for the external condenser / condensers to be installed to the rear of the building or the gable end subject to the building constraints.

The units will be timeclock and temperature controlled to keep the internal spaced during occupancy to around 18 degrees.

Subject to a security review the condenser may need to be installed within a cage or within a fenced area to house the condenser/s.

An electric overdoor heater will be positioned over the entrance door at the opposite the Receptionist desk

Ventilation to the Gym

A number of MVHR heat recovery units providing supply & extract air to the gym area. Units to be sized on 12 litres a person up to a maximum 50 people occupancy – 600 litres a second or a total of 5 ACH per hour. Units to be controlled on a time schedule and CO2 levels

Changing Room Extract systems

Local extract systems will be installed to provide ventilation to the changing room areas. These will be small local wall mounted or ceiling mounted extract fans ducted to discharge through the perimeter of the building to atmosphere.

The fans will be sized and selected either on the occupancy numbers 12L's per person or 10 ACH per hour. The fans will operate on either a timeclock basis or a PIR occupancy in conjunction with the lighting complete with an overrun timer. Make up / replacement air will be via door transfer grilles or undercut doors to the changing room areas.

Toilet Extract systems

Local extract systems will be installed to provide ventilation to the toilet areas. These will be small local wall mounted or ceiling mounted extract fans ducted to discharge through the perimeter of the building to atmosphere.

The fans will be sized and selected either on the occupancy / cubicle numbers or 6 ACH per hour. The fans will operate on a PIR basis in conjunction with the lighting complete with an overrun timer. Make up / replacement air will be via door transfer grilles or undercut the door to the toilet areas.

General Extract over the bar area

A small heat recovery system will be installed over the bar area supplying & extracting ventilation to the space.

The unit will be sized on the number of bar staff at anyone time, say 4 persons @ 12 L's per person = 48l's).

The unit will be controlled via a timeclock and occupancy detection with an override boost function should this be necessary for the working staff behind the bar.

Beer Cellar Cooling

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A new Beer cellar cooling system would be installed to keep the space temperature down to 12 degrees, this will operate 24/7.

Best regards,
John

John Heenan
Contracts Engineer



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