



FEBRUARY 5, 2025

Mechanical & engineering specification – Environmental control  
and extract ventilation

Documentation Reference No: 18587 THPW XX XX DR A 0100

# Soul Foods Group

Site: Starbucks Birstall, Gelderd Road, Birstall WF17 9TB



Prepared By – Peter McKeown

Prepared For – Chris Howarth

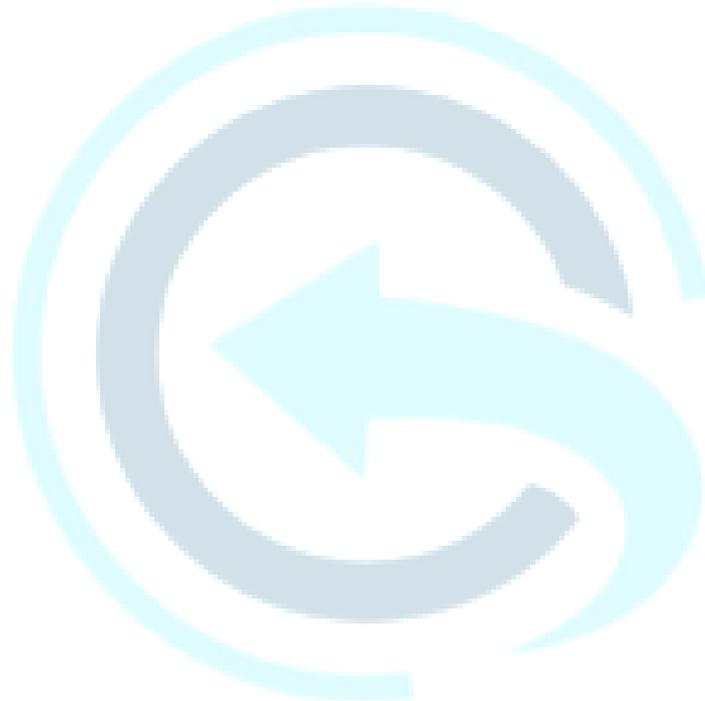


# Direct Refrigeration Services

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# D.R.S

**Direct Refrigeration Services Ltd** Unit A16 Champions Business Park, Wirral, CH49 0AB

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Attention of: Chris Howarth  
Soul foods group  
Riding Road,  
Ilkey,  
LS29 9LU

Date 05/02/2025

Works would initially commence with the ground floor ceiling cassettes and containment being installed along with extract ductwork and fans.

Plus, installation of the 2 x outdoor condensing units being situated at the external rear of the building within the utility yard.

## General:

Starbucks required specification for extract ventilation and temperature-controlled environment in accordance with HVAC specification DW/172 for restaurant developments.

The heating up/ cooking of food requires extract ventilation to remove heat, fumes, smoke and vapours generated by cooking activity.

Starbucks do not prep food or cook food from raw and only require heating up food so there for extract is minimal and only required to remove heat from these areas.

No grease is formed from their products and no gas on the site.

## General extract fan equipment:

The general extract fan equipment serves the customer and staff toilets and a second system to extract heat from the ice maker, fridges and micro chef grill.

Using mechanical extract controlled by a micro on/off switch, and ductwork with smooth internal surfaces.

## Restaurant & Back of house environmental control system:

The restaurant area will be provided with cooling and heating requirements through mechanically forced air movement system in conjunction with Air conditioning systems.

Temperature control of the area shall be sensed with return air temperature sensor situated on the indoor units.

The external condensers will be located within the outdoor service area and will be fully waterproof and placed on antivibration mountings behind cladded walls. No noise receptors within the vicinity.

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## Systems to be installed:

<b>AC 1A Front of house condensing unit x 1</b>	
Mitsubishi PUZ-M200VKA Condensing Unit	
1050x330x138	
129 kg	
60 / 58 dB(A) Unit will be installed in compound behind cladded walls. No Noise receptors within the vicinity.	

<b>AC 1A FOH indoor units x 3</b>	
Mitsubishi PLA-M60EA2 Ceiling cassette Unit	
840x840x298	
26 kg	
27 / 29 / 32 dB(A)	

<b>AC 2A BOH Condensing units x 1</b>	
Mitsubishi SUZ-M50VAR2 Condensing unit	
800x285x714	
41 kg	
29/49 dB(A) ) Unit will be installed in compound behind cladded walls. No Noise receptors within the vicinity.	

<b>AC 2A BAH indoor units x 1</b>	
Mitsubishi PLA-M50EA2 Ceiling cassette Unit	
840x840x298	
26 kg	
27 / 29 / 32 dB(A)	

- EC extract fans, 250 mm duct work and facias for heat removal
- EC extract fan 150mm and duct work for toilet extract



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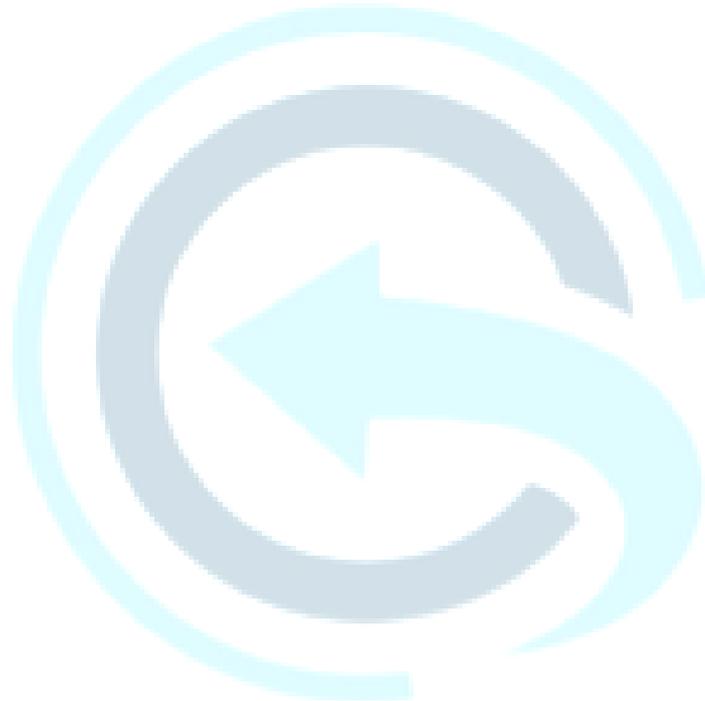
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## Maintenance:

- Standard arrangement for these systems is every 6 months
- Good practice – cleaning of air filters
- Air conditioning systems leak checked in accordance with F-gas regulations.

Kind Regards,

Peter McKeown  
Director  
Direct Refrigeration Services



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