OUR TOWN HALL PROJECT

Document Name: MVHR-11 Schedule

Document Ref: OTH-HAK-TH-LG-SCH-V-0001

Status: S4 – Suitable for Construction

Document Type: Schedules

Revision History:

REV.	DATE	DESCRIPTION OF CHANGE
P01	30/08/2019	Issue For Tender
P02	21/02/2023	Issued For Construction

MVHR-11 Schedule

Project :	**Manchester Town Hall Catering Works**	Project No :	**50801**	Schedule Ref :	**OTH-HAK-TH-LG-SCH-V-0001**
		Area Served :	**Catering Areas**	Purpose of Issue :	**Suitable for Construction**
		Issue Date :	**21 February 2023**	Revision :	**P02**

Supply & Extract Air Fans						
Supply Air Volume flow rate	(m3/s)	1.50		Supply external static resistance	(Pa)	200
Extract Air Volume flow rate	(m3/s)	1.50		Extract external static resistance	(Pa)	200
Fan Speed *	(RPM)	2154		Motor Rating *	(kW)	2.664
				Full Load Current - Fan*	(Amps)	N/A
Twin Motors	(Yes/No)	No		Starting Current - Fan*	(Amps)	N/A
Motors out of airstream	(Yes/No)	No		Full Load Current - Fan and Heater*	(Amps)	N/A
Inverter Driven	(Yes/No)	Yes		Starting Current - Fan and Heater*	(Amps)	N/A
Fan Type		Axial		Electrical Supply		14.59

Electric Heater Battery						
Air On Coil Temperature	(°C)	14.1		Heater Current	(Amps)	N/A
Air Off Coil Temperature	(°C)	22.0		Electrical Supply		3x400V
Duty	(kW)	14.59				

Supply & Extract Fan Sound Power Levels			63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
Case Breakout *	(dB(A))		69	74	68	59	52	44	37	40
Induct Intake *	(dB(A))		80	74	78	66	61	54	45	43
Induct Supply *	(dB(A))		81	79	86	82	80	74	69	66
Induct Discharge *	(dB(A))		83	85	87	84	84	79	72	65
Induct Extract *	(dB(A))		80	84	77	67	64	56	43	37

Supply & Extract Filtration						
Bag Filter	Type	ePM10 60%				

Notes
1. Unit to be as SystemAir, model Topvex TR15 EL-R-CAV, or equal and approved.
2. Supply & Extract Fans to be complete with Anti-Vibration mounts
3. Unit to be mounted Internally.
4. Specific Fan Power of AHU not to exceed 1.9 W/(l/s)
5. The supply and extract fans to incorporate EC motors.
6. The unit casing to be double skinned with mineral wool providing low breakout noise levels.
7. The unit shall be Ecodesign 2018 Aprroved
8.The unit shall incorporate a Rotary Heat Recovery with 100% bypass facility including automatoc control and actuator.
9. A condensate pump (with alarm facility) and drip tray shall be fitted internally.
10. The unit shall be complete with 5 year warranty.
11. Unit handing to be confirmed by contractor on-site prior to procurement and installation.
12. The unit shall be fitted with an electric heater battery.
13. Maximum unit weight of 730kg allowed, unless otherwise agreed with structural engineer.

Revision	**Revision Notes**	**Revision Date**
P01	Issue For Tender	30 August 2019
P02	Suitable for Construction	21 February 2023