

VENTILATION CALCULATOR

SPACE NAME	ZONE FLOOR AREA (M ²)	OUTDOOR AIR FLOW RATE PER PERSON (L/SP)	ZONE POPULATION	OUTDOOR FLOW TOTAL OUTDOOR AIR FLOW RATE (L/SP)	OUTDOOR FLOW TOTAL OUTDOOR AIR FLOW RATE (L/SP)
BAR	29	3.8	3	0.9	37.5
RETAIL	7	3.8	3	0.6	15.6
SEATING	91	3.8	36	0.9	287
WORKROOM	24	2.5	2	0.6	19.5

EXTRACT GRILLE SELECTION

GRILLE REF	GRILLE TYPE	ON GRILLE SIZE	DUCT CONN SIZE	VOLUME	VCD
EG01-EG03	GECA-RC	450x450 NOM	1500	90%	TWIN BLADE ON GRILLE
EG04	OPEN END	N/A	2000	110%	ORBD ON DUCTWORK
EG04	GVNCB	600x300	FIXED TO WALL	-	ORBD ON DUCTWORK
EG04-EG07	GVNCB	450x150 Single Diffusion	ORBD Ductwork	90% (each)	ORBD ON DUCTWORK
EG08-EG09	ARVALVE GX	1500	1000	25%	ORBD ON DUCTWORK

EXTRACT FAN SELECTION

UNIT REF	MANUFACTURER REFERENCE	CAPACITY	ELECTRICAL DATA	SOUND LEVELS
EF01	VENT AXA ACM150 T	50 l/s @ 0.5Pa	0.09kW / 0.38 FLC	32 dBA(N)
EF02	VENT AXA ACM200 T	200 l/s @ 0.5Pa	0.11kW / 0.55 FLC	34 dBA(N)

HEAT RECOVERY UNIT

UNIT REF	MANUFACTURER REFERENCE	CAPACITY	ELECTRICAL DATA	SOUND Pressure and Power Levels (dBA)
HRU1	TOSHIBA HEAT RECOVERY VNA-M50HE	180 l/s	1PH 1.3A RC	38 / 51
HRU2	TOSHIBA HEAT RECOVERY VNA-M50HE	180 l/s	1PH 1.3A RC	38 / 51

SUPPLY GRILLE SELECTION

GRILLE REF	GRILLE TYPE	GRILLE SIZE	DUCT CONN SIZE	VOLUME	VCD
S501	GVNCB	500x300	2500	150%	ORBD ON DUCTWORK
S502	GVNCB	500x300	2500	180%	ORBD ON DUCTWORK
S503	GECA-RC	450x450 NOM	1500	30%	ORBD ON DUCTWORK

TOSHIBA HEAT PUMP SELECTION

UNIT REF	MANUFACTURER REFERENCE	CAPACITY (REHSELE)	ELECTRICAL INFORMATION	AIR VOLUME FLOW - l/s	Sound Pressure and Power Levels (dBA)
AC01/CL01	RAV-RM1401UTP-ERAV-GM1401ATP-E	8.8 kW COOLING	10.240V RC 20.75A	583.000/942	44 / 59
AC02/CL02	RAV-RM1401UTP-ERAV-GM1401ATP-E	8.8 kW COOLING	10.240V RC 20.75A	583.000/942	44 / 59
AC03/CL03	RAV-RM1401UTP-ERAV-GM1401ATP-E	8.8 kW COOLING	10.240V RC 20.75A	583.000/942	44 / 59
AC04/CL04	RAV-RM1401UTP-ERAV-GM1401ATP-E	8.8 kW COOLING	10.240V RC 20.75A	583.000/942	44 / 59
AC05/CL05	RAV-RM1401UTP-ERAV-GM1401ATP-E	3.5kW COOLING	10.240V RC 7.33A	222/187/162	44 / 59

WEATHER LOUVER SELECTION

LOUVER REF	LOUVER TYPE	SIZE	VOLUME
SL1	WG	1000X350	180%
EL1	WG	1000X350	300%
EL2	WG	1000X350	230%
SL2	WG	1000X350	180%

EG01 MIN REQUIRED AIR FLOW	360
EG02 30% INCREASED VENTILATION	468
DESIGN ACTUAL OUTDOOR AIR FLOW	590



AS BUILT

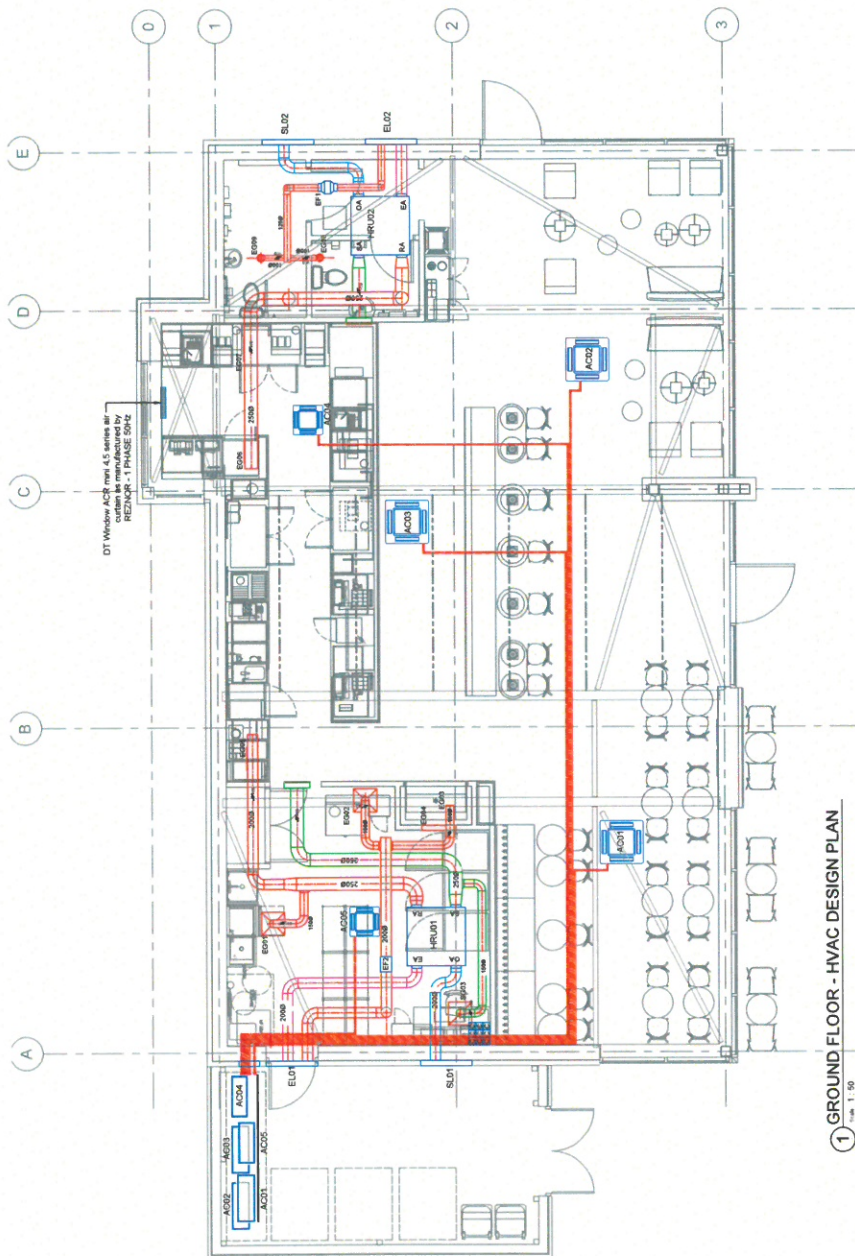
AS BUILT

TEMPERATURE CONTROL

Since 1976

Video House, Lode Lane Industrial Estate,
Salford, West Midlands, B91 2JY
ph. 0121 711 4889 fax. 0121 711 4855
www.temperaturecontrol.co.uk

Starbucks



1 GROUND FLOOR - HVAC DESIGN PLAN

Scale: 1:50