

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%	ORF ON DUCTWORK
EG04	GWNCB	600x300	FIXED TO WALL	-	ORF ON DUCTWORK
EG04-EG07	GWNCB	450x150 Single Direction	ORF Ductwork	90% (each)	ORF ON DUCTWORK
EG08-EG09	ARVALVE GX	1500	1000	25%	ORF ON DUCTWORK

EXTRACT FAN SELECTION

UNIT REF	MANUFACTURER REFERENCE	CAPACITY	ELECTRICAL DATA	SOUND LEVELS
EF01	VENT AXA ACM150 T	50 l/s @ 50Pa	0.09kW / 0.38 FLC	32 dBA(N)
EF02	VENT AXA ACM200 T	200 l/s @ 50Pa	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	1P 1.3A RC	38 / 51
HRU2	TOSHIBA HEAT RECOVERY VNA-M50HE	180 l/s	1P 1.3A RC	38 / 51

SUPPLY GRILLE SELECTION

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

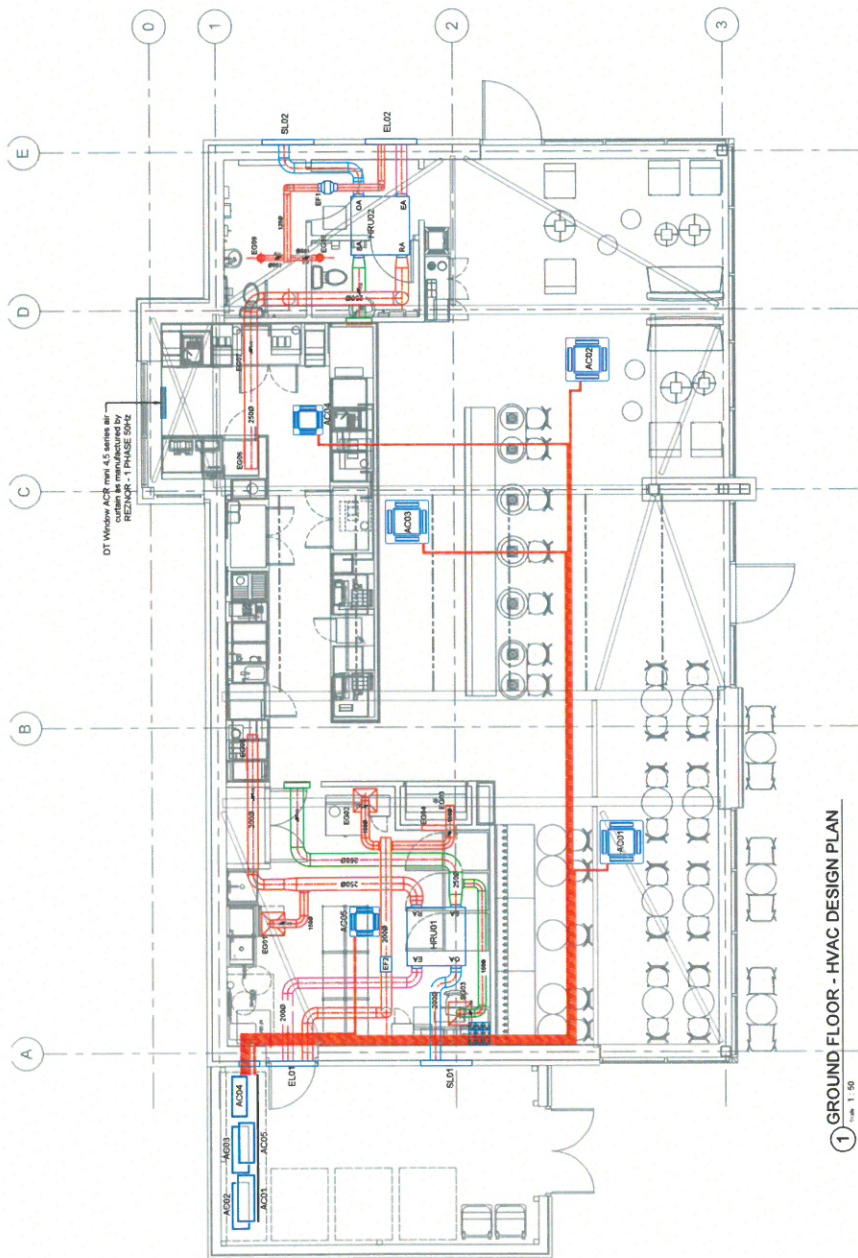
TOSHIBA HEAT PUMP SELECTION

UNIT REF	MANUFACTURER REFERENCE	CAPACITY (REHSELE)	ELECTRICAL INFORMATION	AIR VOLUME (m ³ /h)	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%

DT Window ACP mini 4.5 series air curtain is manufactured by REZNA-RC - 1 PHASE 50Hz



1 GROUND FLOOR - HVAC DESIGN PLAN

Scale: 1:50



AS BUILT

AS BUILT

TEMPERATURE CONTROL

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