

PROJECT DESIGN CONDITIONS															
CLIMATE CONDITIONS				BUILDING OPERATING HOURS:											
WEATHER STATION: CHARLES B WHEELER D. MO. USA				MONDAY - FRIDAY: TBD BY OWNER				SATURDAY: TBD BY OWNER							
CLIMATE ZONE: 4				SATURDAY: TBD BY OWNER				SUNDAY: TBD BY OWNER							
HEATING (DB): 99.6% 5 "F"				SUNDAY: TBD BY OWNER				HOLIDAY: TBD BY OWNER							
COOLING (DB/MCW): 0.4% 96.8 "F/ 78.4 "F"				HOLIDAY: TBD BY OWNER											
SPACE / UNIT DESCRIPTION	SET POINTS						SPACE OPERATING HOURS						NOTES		
	COOLING / DEHUMIDIFICATION			HEATING			HUMIDIFICATION			ZONE VENTILATION RESET				OCCUPIED / UNOCCUPIED	
	OCC	UNOCC	MAX	MIN	OCC	UNOCC	MIN	MAX	CONTROL METHOD	BASE PPM	MAXIMUM PPM	MF	SAT	SUN	
VENTILATION AIR	72	NA	50%	NA	70	NA	NA	NA	NA	NA	NA	TBD	TBD	TBD	A,B,C
DINING AREAS	75	80	50%	NA	70	60	NA	NA	NA	NA	NA	TBD	TBD	TBD	A,B,C
OFFICES	75	80	50%	NA	70	60	NA	NA	NA	NA	NA	TBD	TBD	TBD	A,B,C
STOCKROOM/STORAGE	75	80	50%	NA	70	60	NA	NA	NA	NA	NA	TBD	TBD	TBD	A,B,C
FOOD PREP AREAS	75	80	50%	NA	70	60	NA	NA	NA	NA	NA	TBD	TBD	TBD	A,B,C

- NOTES:
A. ZONE LEVEL SET POINT CONDITIONS SHALL BE AS SCHEDULED UNLESS OTHERWISE SCHEDULED OR NOTED ON THE DRAWINGS FOR ROOM SPECIFIC CONDITIONS.
B. ZONE LEVEL OCCUPANCY HOUR SCHEDULE SHALL BE PER BUILDING OPERATING HOURS UNLESS OTHERWISE SCHEDULED.
C. ZONE LEVEL CONTROLS SHALL BE CAPABLE OF OPERATING WITH INDEPENDENT OCCUPANCY SCHEDULES.

OUTSIDE AIR REQUIREMENTS, IMC-2012 (IP)														
SYSTEM DESIGNATION	SYSTEM TAB NAME OR LIST 'SINGLE'	SINGLE-ZONE SYSTEMS ONLY			MULTI-ZONE SYSTEMS ONLY			FLOOR AREA SERVED BY SYSTEM [A] (SF)	SYSTEM AVERAGED AREA-BASED OUTDOOR AIR RATE (CFM/SF)	SYSTEM POPULATION (PEOPLE)	SYSTEM AVERAGED PEOPLE-BASED OUTDOOR AIR RATE (CFM/PEOPLE)	REQUIRED OUTTAKE FLOW [A] (CFM)	REQUIRED OUTTAKE FLOW [A] (CFM)	DESIGN OUTTAKE FLOW [A] (CFM)
		SINGLE-ZONE SYSTEM ASSOCIATED VENTILATION ZONE	SINGLE-ZONE WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS [Ez]	SYSTEM VENTILATION EFFICIENCY [Ez]	SYSTEM VENTILATION EFFICIENCY [Ez]									
OAP-1, 2	100%OA (OAP-1, 2)	-	-	-	-	-	1,705	0.174	87	9.38	1,113	297	1,620	
TOTALS											1,113	297	1,620	

- GENERAL NOTES:
1. VENTILATION CALCULATIONS BASED ON IMC-2012.
2. SYSTEM POPULATIONS BASED ON MAX SEATING AND/OR CODE MAXIMUM VALUES.
3. SINGLE ZONE SYSTEMS (Vot = Voz): SYSTEM VENTILATION EFFICIENCY CALCULATION IS NOT REQUIRED FOR SINGLE ZONE SYSTEMS. WORST CASE AIR DISTRIBUTION EFFECTIVENESS BETWEEN HEATING AND COOLING MODES OF OPERATION IS SHOWN IN TABLE.
4. 100% OA SYSTEMS (Vot = Voz): WHEN ONE AIR HANDLER SUPPLIES ONLY ONE OUTDOOR AIR ZONE, OUTDOOR AIR DISTRIBUTION EFFECTIVENESS (HEATING/COOLING) SHALL BE 1.0.
5. MULTI-ZONE RECIRCULATING SYSTEMS: CALCULATOR WAS USED TO DETERMINE VENTILATION AIRFLOW IN COMPLIANCE WITH IMC-2012 VRF AND ASHRAE 62.1-2010 APPENDIX A. VENTILATION RATE SHOWN IS ACTUAL CALCULATED WITH CORRECTION FACTORS INCLUDED. EACH ZONE IS ITS WORST CASE ZONE AIR DISTRIBUTION EFFECTIVENESS (HEATING/COOLING) AS PART OF CALCULATIONS TO FIND EX.

BUILDING AIR BALANCE SUMMARY					
UNIT NO.	SUPPLY (CFM)	RETURN (CFM)	OUTDOOR (CFM)	EXHAUST (CFM)	PERCENT O/A/S/A
OAP-1	985	0	985	0	100%
OAP-2	635	0	635	0	
FCU-8	494	454	40	0	
KEF-1	0	0	0	4,542	
EF-1	0	0	0	225	
KMAU-1	3,634	0	3,634	0	
TOTAL	5,748	454	5,294	4,767	
TOTAL POSITIVE AIRFLOW					527
PERCENT POSITIVE AIRFLOW					10%

GRILLE, REGISTER, AND DIFFUSER SCHEDULE										
MARK	MANUFACTURER	SERVICE	MODEL	CONSTRUCTION MATERIAL	FACE TYPE	MOUNTING LOCATION	FACE SIZE (IN)	MAX NC	NOTES	
CS01	E.H. PRICE	SUPPLY DIFFUSER	PDDR	STEEL	PERFORATED	LAY-IN	24x24	30	A B C F H	
CS02	E.H. PRICE	SUPPLY DIFFUSER	SCD	STEEL	SQUARE CONE	LAY-IN	24x24	30	A B C F H J	
CS03	E.H. PRICE	SUPPLY DIFFUSER	SCD	STEEL	SQUARE CONE	SURFACE	12x12	30	A B C F H J K	
WSR	E.H. PRICE	SUPPLY REGISTER W/ DAMPER	820D	STEEL	LOUVERED FACE	WALL OR DUCT (SEE PLANS)	30	A B C D E F G H		
CRG	E.H. PRICE	RETURN GRILLE	80	STEEL	EGGCRATE	LAY-IN	24x24	30	A B C F H	
CEG1	E.H. PRICE	EXHAUST GRILLE W/ DAMPER	80D	STEEL	EGGCRATE	SURFACE	12x12	30	A B C F G H	
CEG2	E.H. PRICE	EXHAUST GRILLE W/ DAMPER	80D	STEEL	EGGCRATE	SURFACE	24x12	30	A B C F G H	
WRG	E.H. PRICE	RETURN GRILLE W/ DAMPER	830D	STEEL	LOUVERED FACE	WALL OR DUCT (SEE PLANS)	30	A B C D F G H		

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:
A. EQUIPMENT FURNISHED AND INSTALLED PER THE EQUIPMENT RESPONSIBILITY SCHEDULE, REF ARCHITECTURAL DRAWINGS.
B. NECK SIZE SHOWN ON DRAWINGS. PROVIDE BRANCH DUCT TO MATCH NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
C. DIFFUSERS SHALL BE PREFINISHED TO MATCH CEILING/WALL COLOR (COORDINATE WITH ARCHITECT).
D. FRONT BLADES PARALLEL TO LONG DIMENSION.
E. DOUBLE DEFLECTION BARS SHALL BE ADJUSTABLE.
F. FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION, COORDINATE WITH ARCHITECTURAL REFLECTED CEILING/WALL PLAN.
G. PROVIDE OPPOSED BLADE DAMPER ADJUSTABLE FROM FACE OF DEUCE.
H. PROVIDE DIFFUSERS, LINEAR SLOTS, AND GRILLES WITH NO EXPOSED MOUNTING SCREWS.
I. 4-WAY THROW PATTERN UNLESS OTHERWISE INDICATED BY FLOW ARROWS ON DRAWINGS.

ELECTRIC DUCT HEATER SCHEDULE												
MARK	MANUFACTURER	MODEL	OUTPUT (MBH)	INPUT (KW)	MIN NO STAGES	MAX SPD (W x H)	CFM	MAX TEMP. RISE (°F)	LAT TYPE	DISC TYPE	VPH	NOTES
EDH-1	INDEECO	QUZ	62.7	18	2	20"x14"	1620	35.9	48.2	NON-FUSED	208/3	AH
EDH-2	INDEECO	QUZ	11.7	4	2	14"x12"	985	11.0	70	NON-FUSED	208/3	AH
EDH-3	INDEECO	QUZ	7.5	3	2	12"x10"	635	11.0	70	NON-FUSED	208/3	AH

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NOTES:
A. UNIT AIR PRESSURE DROP SHALL NOT EXCEED SCHEDULED VALUE.
B. SUPPORT UNIT FROM STRUCTURE WITH ALL-THREAD HANGING RODS.
C. PROVIDE FACTORY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT.
D. PROVIDE AIRFLOW PROVING SWITCH AND THERMAL OVERLOAD PROTECTION.
E. PROVIDE MAGNETIC CONTACTORS.
F. PROVIDE STEP CONTROLLERS DESIGNED TO STAGE THE HEATER OUTPUT FROM 0 TO 100 PERCENT CAPACITY.
G. PROVIDE CONTROL POWER TRANSFORMER AND LOW VOLTAGE THERMOSTAT WITH STAGES AS REQUIRED TO CONTROL HEATER.
H. PROVIDE PERFORATED PANEL UPSTREAM OF DUCT HEATER TO PROMOTE UNIFORM AIRFLOW ACROSS HEATING ELEMENTS.

LOUVER SCHEDULE									
MARK	SERVICE	MANUFACTURER	MODEL	SIZE (W x H)	CFM	MIN FREE AREA (SF)	MAX VEL. (FPM)	MAX P.D. (IN. W.C.)	NOTES
LV-1	O/A INTAKE	RUSKIN	ELF6375X	24" x 32"	1620	2.78	600	0.95	A-E

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NOTES:
A. PROVIDE 1/2" MESH ALUMINUM BIRD SCREEN.
B. PROVIDE PRIME COAT FINISH. FIELD PAINT COLOR SELECTED BY ARCHITECT.
C. FRAME TYPE SHALL MATCH WALL CONSTRUCTION, COORDINATE WITH ARCHITECT.
D. PROVIDE WITH EXTENDED SILL AND FILTER RACK.
E. PROVIDE LOUVER WITH WIND DRIVEN RAIN PERFORMANCE AS DEFINED IN THE SPECIFICATIONS.

VRF BRANCH SELECTOR SCHEDULE						
MARK	# PORTS	MANUFACTURER	MODEL	SERVICE	ELECTRICAL VPH	NOTES
BS-1	6	DAIKIN	B88054TVJ	FCU-1,2,3,4,5	208/1 0.6	A,B,C,D,E
BS-2	8	DAIKIN	B88054TVJ	FCU-6,7,8,9,10	208/1 0.8	A,B,C,D,E

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NOTES:
A. EQUIPMENT FURNISHED AND INSTALLED PER THE RESPONSIBILITY SCHEDULE, REF ARCHITECTURAL DRAWINGS.
B. EQUIPMENT COMPONENTS SHALL BE BY THE SAME MANUFACTURER.
C. PROVIDE FACTORY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT.
D. PROVIDE WITH SPRING VIBRATION ISOLATION AND ALL-THREAD HANGING RODS.
E. MODEL NUMBER IS REPRESENTATIVE ONLY. FINAL BRANCH SELECTOR SIZE SHALL BE DETERMINED BY VRF MANUFACTURER'S CALCULATIONS.

VARIABLE REFRIGERANT FLOW FAN COIL UNIT SCHEDULE																							
MARK	LOCATION	MANUFACTURER	MODEL	TYPE	MOUNTING	SUPPLY FAN			COOLING COIL				HEAT PUMP HEATING COIL		MIN OIA	ELECTRICAL VPH	MCA	MOCP	WEIGHT (LBS)	NOTES			
						CFM	ESP (IN)	TH SH (MBH)	EAT (°F DB)	LAT (°F WB)	REFR TYPE	MIN OUT (°F DB)	EAT (°F DB)	LAT (°F WB)									
FCU-1	DINING	DAIKIN	FXUQ30PVJU	CASSETTE	SUSPENDED	742	20.3	14.4	75.0	64.4	57.4	55.6	R410A	17.8	70.0	92.2	208/1	1.4	15	57	A B C D E F G I J K L M N O		
FCU-2	DINING	DAIKIN	FXUQ30PVJU	CASSETTE	SUSPENDED	742	20.3	14.4	75.0	64.4	57.4	55.6	R410A	17.8	70.0	92.2	208/1	1.4	15	57	A B C D E F G I J K L M N O		
FCU-3	DINING	DAIKIN	FXUQ30PVJU	CASSETTE	SUSPENDED	742	20.3	14.4	75.0	64.4	57.4	55.6	R410A	17.8	70.0	92.2	208/1	1.4	15	57	A B C D E F G I J K L M N O		
FCU-4	DINING	DAIKIN	FXUQ30PVJU	CASSETTE	SUSPENDED	742	20.3	14.4	75.0	64.4	57.4	55.6	R410A	17.8	70.0	92.2	208/1	1.4	15	57	A B C D E F G I J K L M N O		
FCU-5	DINING	DAIKIN	FXUQ30PVJU	CASSETTE	SUSPENDED	742	20.3	14.4	75.0	64.4	57.4	55.6	R410A	17.8	70.0	92.2	208/1	1.4	15	57	A B C D E F G I J K L M N O		
FCU-6	KITCHEN	DAIKIN	FXMQ54MMJU	DUCTLESS	CONCEALED	1377	0.5	32.2	31.5	75.0	60.8	54.1	52.5	R410A	32.1	70.0	91.6	208/1	3.4	15	104	A B C D E F G H I J K L M N O	
FCU-7	KITCHEN	DAIKIN	FXMQ54MMJU	DUCTLESS	CONCEALED	1377	0.5	32.2	31.5	75.0	60.8	54.1	52.5	R410A	32.1	70.0	91.6	208/1	3.4	15	104	A B C D E F G H I J K L M N O	
FCU-8	OFFICE	DAIKIN	FXZG18MVJU9	DUCTLESS	CONCEALED	494	11.2	9.7	76.8	64.2	59.0	57.0	R410A	10.7	70.0	90.0	208/1	0.9	15	42	A B C D E F G H I J K L M N O		
FCU-9	BOH	DAIKIN	FXMQ54MMJU	DUCTLESS	CONCEALED	1377	0.5	32.2	31.5	75.0	60.8	54.1	52.5	R410A	32.1	70.0	91.6	208/1	3.4	15	104	A B C D E F G H I J K L M N O	
FCU-10	BOH	DAIKIN	FXMQ54MMJU	DUCTLESS	CONCEALED	1377	0.5	32.2	31.5	75.0	60.8	54.1	52.5	R410A	32.1	70.0	91.6	208/1	3.4	15	104	A B C D E F G H I J K L M N O	
OAP-1	OUTSIDE AIR	DAIKIN	FXMQ72MRVJU	DUCTED	SUSPENDED	985	0.5	67.5	41.3	96.6	76.4	59.0	57.2	R410A	47.0	28.0	70.0	985	208/1	3.3	15	271	A B C D E F G H I J K L M N O
OAP-2	OUTSIDE AIR	DAIKIN	FXMQ48MRVJU	DUCTED	SUSPENDED	635	0.5	43.5	26.6	96.8	76.4	59.0	57.2	R410A	24.0	26.0	70.0	635	208/1	1.9	15	190	A B C D E F G H I J K L M N O

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NOTES:
A. EQUIPMENT FURNISHED AND INSTALLED PER THE RESPONSIBILITY SCHEDULE, REF ARCHITECTURAL DRAWINGS.
B. ASSOCIATED CONDENSING UNIT SHALL BE BY THE SAME MANUFACTURER.
C. FOR COOLING, EQUIPMENT SIZED FOR 105°F AMBIENT TEMPERATURE. FOR HEATING, EQUIPMENT SIZED FOR 5°F AMBIENT TEMPERATURE.
D. PROVIDE 1" MERV6, PANEL THROWAWAY AIR FILTERS.
E. PROVIDE FACTORY MOUNTED STARTER AND DISCONNECT SWITCH INSTALLED ON SERVICE SIDE OF UNIT.
F. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT.
G. SPECIFIED MOTOR OUTPUT SHALL BE DEFINED IN WATTS IF THE VALUE IS GREATER THAN 5 AND HORSEPOWER IF THE VALUE IS 5 OR LESS.
H. DIVISION 23 SHALL PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT(S).
I. PROVIDE NECESSARY MOUNTING BRACKET AND ACCESSORIES FOR SPECIFIED MOUNTING.
J. EQUIPMENT SHALL BE SIZED FOR WORST CASE OF HEATING OR COOLING CAPACITY NEEDS FOR ALL ASSOCIATED VRF SYSTEMS WITHOUT DIVERSITY FACTORS APPLIED.
K. EQUIPMENT MUST MEET DESIGN LEAKING AIR TEMPERATURE IN HEATING MODE AT RATED AIRFLOW. HEATING CAPACITY SHALL INCLUDE ALL APPLICABLE DERATES FOR PIPING, AMBIENT TEMPERATURE.
L. PROVIDE AUXILIARY DRAIN PAN WITH FLOOD DETECTOR SWITCH TO SHUT OFF UNIT WHEN WATER IS PRESENT IN DRAIN PAN.
M. PROVIDE UNIT WITH INTEGRAL CONDENSATE PUMP.
N. PROVIDE MANUFACTURER'S VRF SYSTEM CONTROLLER FOR CONTROL OF VRF SYSTEMS.
O. PROVIDE FAN COIL UNIT WITH A ROOM TEMPERATURE SENSOR LOCATED AS INDICATED ON THE PLANS. INTERLOCK REMOTE TEMPERATURE SENSORS WITH MANUFACTURER'S VRF SYSTEM CONTROLLER FOR CONTROL OF VRF SYSTEMS.

VARIABLE REFRIGERANT FLOW CONDENSING UNIT SCHEDULE															
MARK	MANUFACTURER	MODEL	CONFIGURATION	REFR TYPE	COOLING CAPACITY		HEATING CAPACITY		MCA	MOCP	VPH	DISC TYPE	WEIGHT (LBS)	NOTES	
					TOTAL (MBH)	MIN EFF (IEER)	HEAT PUMP (MBH)	AMBIENT (DB)							
CU SYSTEM 1		REYQ288TTJU	HEAT RECOVERY	R410A	241.3	18.1	133.8	5							
CU-1a	DAIKIN	REYQ144TTJU	HEAT RECOVERY	R410A				3.38	55	70	208/3		780	A-K	
CU-1b	DAIKIN	REYQ120TTJU	HEAT RECOVERY	R410A					43	50	208/3		703	A-K	
CU SYSTEM 2		RXYQ120TTJU	HEAT PUMP	R410A	110.9	21.4	71.0	5	3.46	36.3	45	208/3		527	A-K

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NOTES:
A. EQUIPMENT FURNISHED AND INSTALLED PER THE RESPONSIBILITY SCHEDULE, REF ARCHITECTURAL DRAWINGS.
B. EQUIPMENT SIZED FOR 100°F AMBIENT TEMPERATURE.
C. APPROXIMATE LOCATION OF REFRIGERANT COMPONENTS AND CONTROL DEVICES AND GENERAL PIPE ROUTING ARE SHOWN ON THE DRAWINGS ONLY TO CONVEY GENERAL DESIGN INTENT. COORDINATE WITH THE MANUFACTURER THE FINAL HORIZONTAL AND VERTICAL REFRIGERANT PIPE ROUTING TO DETERMINE PIPE SIZES FOR THE REFRIGERANT PIPING. MANUFACTURER SHALL PROVIDE DETAILED REFRIGERANT PIPING DIAGRAMS INCLUDING DIMENSIONAL DATA FOR ALL REFRIGERANT PIPING DEVICES. THE MANUFACTURER SHALL SIZE AND LOCATE THE ASSOCIATED REFRIGERANT TRAPS BASED ON THE ACTUAL ROUTING AND PROVIDE OTHER APPURTENANCES TO PROVIDE A FULLY FUNCTIONAL AND OPERATIONAL SYSTEM COORDINATE WITH THE MANUFACTURER LOCATIONS FOR ALL REFRIGERANT PIPING AND CONTROL DEVICES TO MAINTAIN SERVICEABILITY AND ACCESSIBILITY.
D. PROVIDE CONDENSER HAIL GUARDS.
E. CONDENSING UNIT SHALL BE SECURED TO ENGINEERED STRUCTURAL SUPPORTS. RE: STRUCTURAL PLANS. PROVIDE WAFFLE PADS FOR VIBRATION ISOLATION.
F. PROVIDE FACTORY MOUNTED DISCONNECT INSTALLED ON SERVICE SIDE OF UNIT.
G. STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNIT.
H. COORDINATE SIZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.
I. PROVIDE MANUFACTURER'S VRF SYSTEM CONTROLLER FOR CONTROL OF VRF SYSTEMS.
J. EQUIPMENT SHALL BE SIZED FOR WORST CASE OF HEATING OR COOLING CAPACITY NEEDS FOR ALL ASSOCIATED VRF SYSTEMS WITHOUT DIVERSITY FACTORS APPLIED.
K. HEATING CAPACITY SHALL INCLUDE ALL APPLICABLE DERATES FOR PIPING, AMBIENT TEMPERATURE, CONNECTED LOAD AND DEFROST.

FAN SCHEDULE											
MARK	SERVICE (EA, RA, SA)	MANUFACTURER	MOUNTING	MODEL	CFM	ESP (IN)	DRIVE (BELT/DIRECT)	MIN. HP	FAN RPM	VFD (Y/N)	NOTES
EF-1	EA	COOK	INLINE	SQB-B	225	0.75	DIRECT	1/6	2019	N	120/1 NF COMBINATION A-G

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A. EQUIPMENT FURNISHED AND INSTALLED PER THE RESPONSIBILITY SCHEDULE, REF ARCHITECTURAL DRAWINGS.
B. PROVIDE WITH MINIMUM 12" HIGH ROOF CURB, BIRDSCREEN AND BACKDRAFT DAMPER.
C. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
D. DIVISION 26 CONTRACTOR TO FURNISH STARTER.
E. INTERLOCK FAN OPERATION WITH TIME CLOCK.
F. PROVIDE WITH MANUFACTURER'S FAN SPEED CONTROLLER FOR BALANCING PURPOSES.
G. PROVIDE WITH WALL DISCHARGE CAP.



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OAP-1	985	0	985	0	100%
OAP-2	635	0	635	0	
FCU-8	494	454	40	0	
KEF-1	0	0	0	4,542	
EF-1	0	0	0	225	
KMAU-1	3,634	0	3,634	0	
TOTAL	5,748	454	5,294	4,767	