

AIR DEVICE SCHEDULE								
MARK	FACE SIZE	TYPE	MOUNTING TYPE	MAXIMUM N.C.	DIRECTION	MANUFACTURER	MODEL	NOTES
CD-1	24x24	SUPPLY	LAY-IN	30	4-WAY	TITUS	OMNI	1,2,3
CD-2	24x24	SUPPLY	SURFACE	30	4-WAY	TITUS	OMNI	1,2,3
CD-3	12x12	SUPPLY	SURFACE	30	4-WAY	TITUS	OMNI	1,2,3
RG-1	24x24	RETURN	LAY-IN	30	-	TITUS	360RL	2
ER1	8x8	EXHAUST	SURFACE	30	-	TITUS	360RL	1,2,4

NOTES: (NOT ALL MAY APPLY)

- PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED FOR INTENDED INSTALLATION.
- AIR DEVICE(S) SHALL BE FACTORY FINISHED WHITE.
- AIR DEVICE(S) SHALL BE INSTALLED WITH MANUFACTURER AVAILABLE MOLDED INSULATION BACKING. FIELD FABRICATED INSULATION BACKING IS NOT ALLOWED (UNLESS FIRST APPROVED BY THE OWNER'S CONSTRUCTION MANAGER).
- PROVIDE WITH VOLUME DAMPER.

AIR BALANCE SCHEDULE						
MARK	DINING (CFM)			KITCHEN (CFM)		
	S/A	O/A	E/A	S/A	O/A	E/A
RTU-1	4800	1400	-	-	-	-
RTU-2	2400	600	-	-	-	-
RTU-3	-	-	-	5000	700	-
KEF-1	-	-	-	-	-	1950
KEF-2	-	-	-	-	-	1950
KEF-3	-	-	-	-	-	1950
KEF-4	-	-	-	-	-	600
DEF-4	-	-	-	-	-	900
EF-5	-	-	300	-	-	-
MAU-1	-	-	-	-	5000	-
TOTAL	7200	2000	300	5000	5700	7350

DINING PRESSURIZATION (O/A) - (E/A) = +1700 CFM KITCHEN PRESSURIZATION (O/A) - (E/A) = -1650 CFM
NET BUILDING PRESSURIZATION (DINING + KITCHEN) = +50 CFM

* INDEPENDENT BALANCE CONTRACTOR

PACKAGED ROOFTOP UNIT SCHEDULE						
GENERAL	MARK	RTU-1	RTU-2	RTU-3		
		SERVING	MAIN DINING	SOUTH DINING	KITCHEN/RR/OFFICE	
	MANUFACTURER	TRANE	TRANE	TRANE		
	MODEL NO.	YHD150G3RLB	YHC092F3RLA	YHD150G3RLB		
	TYPE	GAS/ELEC	GAS/ELEC	GAS/ELEC		
	OPERATING WEIGHT, LBS.	2655	1291	2655		
	LENGTH, WIDTH, HEIGHT	-	-	-		
	MINIMUM EER	12.1	12.6	12.1		
ELECTRICAL	VOLTS/ PH/ HZ	208/3	208/3	208/3		
	MCA (AMPS)	67.0	42.0	67.0		
	MCCP (AMPS)	80.0	50.0	80.0		
		-	-	-		
SUPPLY FAN	SUPPLY AIR CFM	4800	2400	5000		
	OUTSIDE AIR CFM	1400	600	700		
	ESP (*W.G.)	.75	.75	.75		
	FAN RPM	1740	1053	707		
	MOTOR HP	3	2.75	3		
		-	-	-		
COOLING	NOMINAL SIZE TONS	12.5	7.5	12.5		
	TOTAL CAPACITY (MBH)	140.7	87.3	141.53		
	SENSIBLE CAPACITY (MBH)	96.6	60.9	97.97		
	OUTSIDE AIR DBWB, *F.	61.6/57.7	56/56	62/58		
	ENTERING AIR DBWB, *F.	80/67	80/67	80/67		
HEATING	TYPE OF HEAT	GAS	GAS	GAS		
	HEATING INPUT (MBH)	150	120	150		
	HEATING OUTPUT (MBH)	120	96	120		
	OUTSIDE AIR DB *F.	70	70	70		
	LEAVING AIR DB *F.	93	93	93		
NOTES		1-12	1-12	1-12		

NOTES: (NOT ALL MAY APPLY)

- PROVIDE A FACTORY AVAILABLE UN-INSULATED FLAT ROOF CURB THAT SHALL BE FIELD ASSEMBLED AND SHIMMED SUCH THAT THE TOP OF THE CURB SETS LEVEL. ROOF CURBS TO BE INSTALLED BY THE GENERAL CONTRACTOR, AND FIELD INSULATED BY THE MECHANICAL CONTRACTOR.
- PROVIDE WITH LOW AMBIENT CONTROLS DOWN TO 0°F. HIGH AND LOW PRESSURE CONTROLS FOR EACH CIRCUIT. CONDENSER COIL HALL GUARD, HINGED ACCESS PANELS. CRANK CASE HEATER. FREEZE PROTECTION.
- SENSORS AND LOW VOLTAGE CONTROL WIRING SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR.
- PROVIDE WITH MANUFACTURER'S REMOTE TEMPERATURE SENSOR AND PROGRAMMABLE 24/7 THERMOSTAT CAPABLE OF AUTOMATIC COOLING/ HEATING CHANGEOVER.
- PROVIDE FACTORY INSTALLED ENTHALPY CONTROLLED ECONOMIZER WITH MOTORIZED OUTSIDE AIR DAMPER.
- PROVIDE FACTORY AVAILABLE RETURN AIR SMOKE DETECTOR(S), CAPABLE OF SHUTTING DOWN THE ROOFTOP UNIT UPON ACTIVATION.
- PROVIDE FACTORY INSTALLED NON-FUSED ELECTRICAL DISCONNECT AND CONVENIENCE RECEPTACLE. RECEPTACLE SHALL BE FIELD WIRING BY THE ELECTRICAL CONTRACTOR SEPARATELY FROM THE UNIT.
- PROVIDE BOTTOM ENTRY SINGLE POINT ELECTRICAL POWER CONNECTION AND DISCONNECT.
- UNIT SELECTIONS ARE BASED ON R-410A REFRIGERANT AND HIGH EFFICIENCY OPERATION.
- PROVIDE WITH HUMIDITY CONTROL OPTION FOR HOT GAS REHEAT, AND MANUFACTURER'S ADJUSTABLE REMOTE HUMIDITY SENSOR CAPABLE OF AUTOMATIC OPERATION OF THE COOLING CYCLE (ONCE THE DEMAND FOR COOLING IS SATISFIED BY THE T-STAT) FOR SUPPLEMENTAL DEHUMIDIFICATION.
- ACCEPTABLE MANUFACTURERS: CARRIER, DAIKIN, AAO, LENNOX, TRANE, YORK.
- PROVIDE WITH MINIMUM 14" HIGH INSULATED ROOF CURB.

FAN SCHEDULE											
MARK	SERVICE	CFM	E.S.P. INCH	RPM	MOTOR HP	VOLTS/PH	MANUFACTURER	MODEL	TYPE	WEIGHT	NOTES
KEF-1	COOKLINE HOOD #1	1950	1.2	1511	1.0	208/3	CAPTIVEAIRE	DJ180HFA	ROOF UPBLAST FAN	148	1,3,5,6
KEF-2	COOKLINE HOOD #2	1950	1.2	1511	1.0	208/3	CAPTIVEAIRE	DJ180HFA	ROOF UPBLAST FAN	148	1,3,5,6
KEF-3	COOKLINE HOOD #3	1950	1.2	1511	1.0	208/3	CAPTIVEAIRE	DJ180HFA	ROOF UPBLAST FAN	148	1,3,5,6
KEF-4	FRYER HOOD	600	0.8	1053	0.83	208/3	CAPTIVEAIRE	DJ33HFA	ROOF SUPPLY FAN	75	3,4,6
DEF-4	DISH MACHINE HOOD	900	0.35	968	0.33	115/1	CAPTIVEAIRE	DJ33HFA	ROOF SUPPLY FAN	63	3,4,6
EF-5	RESTROOMS	300	0.5	1282	0.25	115/1	CAPTIVEAIRE	DR12HFA	ROOF DOWNBLAST FAN	49	8
MAU-1	COOKLINE HOODS	5000	0.0	1809	7.5	208/3	CAPTIVEAIRE	A2-D-500-20D	ROOF SUPPLY FAN	861	1,3,6,7

NOTES: (NOT ALL MAY APPLY)

- PROVIDE FAN INTERLOCK SWITCH ON EXHAUST HOOD ENERGY MANAGEMENT SYSTEM BETWEEN KITCHEN HOOD EXHAUST AND COORDINATE REQUIRED WORK WITH THE ELECTRICAL CONTRACTOR.
- PROVIDE INTERLOCK SWITCH ON ROOF DISCONNECT SWITCH IN SIGHT OF THE EQUIPMENT ROOM. COORDINATE THE REQUIRED WORK WITH THE ELECTRICAL CONTRACTOR.
- WEATHER PROOF DISCONNECT SWITCH AND INTERNAL WIRING SHALL BE FACTORY INSTALLED.
- PROVIDE GRAVITY BACKDRAFT DAMPER.
- PROVIDE FACTORY AVAILABLE GREASE BOX.
- FURNISHED WITH KITCHEN HOOD PACKAGE, INSTALLED BY MECHANICAL CONTRACTOR.
- FAN IS FACTORY EQUIPPED WITH DIRECT FIRED GAS COMBUSTION HEAT EXCHANGER. RATED FOR 370 MBH INPUT/340 MBH OUTPUT.
- PROVIDED WITH BACKDRAFT DAMPER AND WIRED SPEED CONTROLLER. CONTROLLED BY LOCAL LIGHTING CONTRACTOR/TIMELOCK.

O/A VENTILATION SCHEDULE							
AREA SERVED	VENTILATION (OCCUPANCY)			VENTILATION (AREA)			TOTAL
	# OF PEOPLE	CFM/PERSON	CFM	SQUARE FEET	CFM/SF	CFM	
DINING - MAIN	118	7.5	885	1456	0.18	269	1154
DINING - SOUTH	58	7.5	435	511	0.18	92	527
RESTROOMS	-	-	-	249	-	-	-
KITCHEN	16	7.5	120	1050	0.18	191	311
OFFICE	1	5	5	70	0.6	4	9
SUBTOTALS			1445			556	
TOTAL O/A REQUIRED				2001 CFM			

NOTES:

- CALCULATIONS ARE BASED ON 2012 IMC
- OUTDOOR AIR DEMAND IS: 2001 CFM
OUTDOOR AIR PROVIDED IS: 2700 CFM
OUTDOOR AIR DIFFERENCE IS: 699 CFM
- REFER TO THE AIR BALANCE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION

ELECTRIC HEATER SCHEDULE							
MARK	TYPE	HEATING CAPACITY	MAXIMUM CFM	ELECTRICAL VOLT/PH	MANUFACTURER	MODEL	NOTES
UH-1	UNIT/CABINET	5.0 KW	350	208/1	TRANE	HE-5-81	1,2

NOTES: (NOT ALL MAY APPLY)

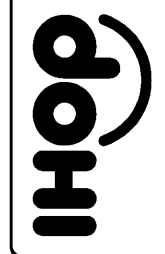
- COORDINATE POWER AND DISCONNECT REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
- INSTALL COMPLETE WITH MANUFACTURER AVAILABLE SUSPENSION HANGING BRACKET.

MECHANICAL GENERAL NOTES	
1.	NOTE: FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
2.	THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATE WITH THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR THE COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
3.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH THEY FURNISH AND INSTALL.
4.	PROVIDE WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR, AT NO COST TO OWNER, FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. WARRANTIES SHALL BEGIN ON THE DATE OF SUBSTANTIAL COMPLETION.
5.	THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES ALL REQUIRED OPENINGS AND PENETRATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
6.	ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED FOR POWER.
7.	COORDINATE THE INSTALLATION AND FINISH OF ALL SUPPLY AND RETURN AIR DEVICES. DEVICES LOCATED IN GUEST AREAS (INCLUDING DINING AND BAR) SHALL BE PAINTED PER THE ARCHITECTURAL DRAWINGS FINISH SCHEDULE. ALL INTERIOR FACES OF DUCTWORK BEHIND RETURN AIR GRILLES SHALL BE PAINTED FLAT BLACK FOR LIGHT TIGHTNESS.
8.	ROOFTOP UNITS SHALL BE SET TO RUN IN 'FAN CONTINUOUS' MODE DURING OCCUPANCY HOURS. DURING NIGHT SET-BACK HOURS, THE ROOFTOP UNITS SHALL RUN IN 'AUTO' MODE.
9.	MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL HIGH EFFICIENCY WHITE LAMINATE NAMEPLATE WITH LETTERS VISIBLE ADJACENT TO DISCONNECT SWITCH FOR ROOFTOP AND ROOF MOUNTED FANS.
10.	LINE VOLTAGE WIRING, ALL CONDUIT DISCONNECT SWITCHES AND FINAL CONNECTION ELECTRICAL CONTRACTOR. LOW VOLTAGE CONDUIT AND WIRING AND FINAL CONNECTIONS BY MECHANICAL CONTRACTOR.
11.	SUPPLY, RETURN, RESTROOM EXHAUST, AND MAKEUP AIR DUCT CONSTRUCTION SHALL BE GALVANIZED STEEL. GALVANIZED GRACING AND SUSPENSION SHALL CONFORM TO SMACNA STANDARDS. SEALS, JOINTS AND JOINTS AIR AND WATER TIGHT. FLEXIBLE ALUMINUM DUCTWORK OR FIBERGLASS DUCTBOARD IS NOT ALLOWED (UNLESS SPECIFIED).
12.	ALL SUPPLY AND RETURN EXPOSED DUCTWORK SHALL BE INTERNALLY LINED AND INSULATED WITH MINIMUM R-8, 1-1/2" INSULATION WITH VAPOR BARRIER PER THE 2012 IMC. INDEPENDENT INSULATION SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED. REFER TO ARCHITECTURAL DRAWINGS FOR DUCT PAINT OR COLOR SPECIFICATION.
13.	ALL HVAC SUPPLY AND RETURN CONCEALED DUCTWORK TO BE EXTERNALLY WRAPPED AND SECURED WITH MINIMUM R-8, 2" INSULATION WITH VAPOR BARRIER PER THE 2012 IMC. INDEPENDENT INSULATION SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED.
14.	ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
15.	THE CONDENSATE EXHAUST DUCT SHALL BE CORROSION RESISTANT 18 GA. STAINLESS STEEL (UNO), EXTERNALLY WELDED WITH LIQUID TIGHT JOINTS, SEAMS, AND SMOOTH RADIUS ELBOWS AND TRANSITIONS.
16.	ALL TYPE-1 GREASE EXHAUST DUCTS SHALL BE NFPA 96 APPROVED 16 GA. WELDED BLACK IRON, EXTERNALLY WELDED WITH LIQUID TIGHT JOINTS, SEAMS, AND SMOOTH RADIUS ELBOWS AND TRANSITIONS.
17.	ALL TYPE-1 GREASE EXHAUST DUCTS SHALL BE DOUBLE WRAPPED WITH U.L. LISTED FIRE WRAP SIMILAR TO 3M FIRE BARRIER DUCT WRAP 20A IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. EACH GREASE DUCT RISER SHALL BE WRAPPED TO THE FULL EXTENT POSSIBLE FROM THE HOOD COLLAR CONNECTION UP TO THE TERMINATION AT THE EXHAUST FAN INLET. ALL GREASE EXHAUST FAN ROOF CURBS SHALL BE VENTED PER NFPA 96. PROVIDE REQUIRED ACCESS FOR SERVICING AND CLEANING, AND VERIFY THE HINGED CURB OPENING OPERATES PROPERLY.
18.	PITCH ALL HORIZONTAL GREASE AND CONDENSATE DUCTWORK UNIFORMLY BACK TOWARDS THE RESPECTIVE HOOD OR APPLIANCE AT A MINIMUM 1/4" PER FOOT (NOT TO EXCEED 50'-0").
19.	ROOF CURBS FOR EXHAUST FANS AND THE MAKEUP AIR UNIT SHALL BE FACTORY FABRICATED OF FULL WELDED STEEL CONSTRUCTION WITH WOOD NAILER AND FURNISHED WITH THE HOOD AND FAN PACKAGE. VERIFY REQUIREMENTS FOR THE ROOF CURBS WITH THE EQUIPMENT SUPPLIER. THE GENERAL CONTRACTOR SHALL FLASH ROOF CURBS AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
20.	ROOF CURBS FOR ROOFTOP UNITS SHALL BE FACTORY FABRICATED OF FULL WELDED STEEL CONSTRUCTION WITH WOOD NAILER AND FURNISHED WITH THE HVAC EQUIPMENT PACKAGE. VERIFY REQUIREMENTS FOR THE ROOF CURBS WITH THE EQUIPMENT SUPPLIER. THE GENERAL CONTRACTOR SHALL FIELD ASSEMBLE THE ROOF CURBS, FLASH AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
21.	THE KITCHEN HOOD PACKAGE WILL BE PROVIDED WITH END CABINET(S) HOUSING THE FIRE SUPPRESSION TANKS, HOOD EXHAUST FAN SWITCHES, AND LIGHT SWITCHES REFER TO MANUFACTURER SHEETS FOR THE HOOD CONTROL WIRING DIAGRAM FOR OPERATION OF THE KITCHEN HOOD EQUIPMENT.
22.	THE GREASE EXHAUST DUCT RISERS BETWEEN THE HOOD COLLARS AND EXHAUST FANS SHALL BE OF THE SAME SIZE AS THE RESPECTIVE HOOD COLLAR SIZE. UNO. REFER TO THE HOOD SHEETS FOR THE HOOD COLLAR SIZES AS PROVIDED BY THE HOOD MANUFACTURER.
23.	A FULL CERTIFIED MECHANICAL AIR TEST AND BALANCE REPORT SHALL BE PERFORMED BY AN OWNER APPROVED INDEPENDENT CONTRACTOR.
24.	PER THE 2012 IMC, WHEN REQUIRED, EACH SINGLE SYSTEM PROVIDING HEATING OR COOLING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR MOVING EQUIPMENT DEVICES WHICH WILL DETECT PRODUCTS OF COMBUSTION OTHER THAN HEAT AND WHICH COMPLY WITH THE IBC. SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH THE OPERATING VELOCITIES, PRESSURES, TEMPERATURES AND HUMIDITIES OF THE SYSTEM WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING. SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS.
25.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THE AIR FILTERS AT THE ROOFTOP UNITS WITH 2" THICK PLEATED MERV 7 THROW AWAY TYPE AIR FILTERS AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCE AND STORE TURNOVER.
26.	MECHANICAL CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF STORE TURNOVER.

MECHANICAL LEGEND		
SYMBOL	ABBR	DESCRIPTION
	CD	CEILING DIFFUSER - SUPPLY
	CD	CEILING DIFFUSER BELOW DUCT - SUPPLY
	SAD	RISER - SUPPLY AIR DUCT
	SAD	DROP - SUPPLY AIR DUCT
	CR	CEILING REGISTER - RETURN
	CR	CEILING REGISTER BELOW DUCT - RETURN
	RAD	RISER - RETURN AIR DUCT
	RAD	DROP - RETURN AIR DUCT
	CE	CEILING REGISTER - EXHAUST
	CE	CEILING REGISTER BELOW DUCT - EXHAUST
	EAD	RISER - EXHAUST AIR DUCT
	(L)	LINED DUCTWORK
	VD	MANUAL VOLUME DAMPER
	FC	FLEXIBLE CONNECTION
		NEW DUCT
		AIR DEVICE DESIGNATION
	TSTAT	PROGRAMMABLE THERMOSTAT
	SENS	REMOTE TEMPERATURE SENSOR
	SD	SMOKE DETECTOR
	POC	POINT OF CONNECTION
	CFM	CUBIC FEET PER MINUTE
	S/A	SUPPLY AIR
	O/A	OUTSIDE AIR
	E/A	EXHAUST AIR
	S.P.	STATIC PRESSURE
	FOH	FRONT OF HOUSE
	BOH	BACK OF HOUSE



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Rise and Shine Prototype
 MECHANICAL SCHEDULES

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