

ROOFTOP UNIT SCHEDULE

MARK	MODEL	EVAPORATOR										CONDENSER						HEATING SECTION				ELECTRICAL				WEIGHT	MIN OA CFM	REMARKS					
		CFM	EXT. SP	HP	DRIVE	ENT. AIR		UNIT LVG. AIR		MBH COOLING		OUTSIDE AIR TEMP	COMPRESSOR			COND. FAN		SEER (EER)	FILTER	INPUT	OUTPUT	E.A.T.	L.A.T.	VOLT.	STARTER				MCA	MOP			
						D.B.	W.B.	D.B.	W.B.	SENS.	TOTAL		TYPE	RLA	NO	RLA	NO														CAP STEPS	FLA	NO
RTU-01	TRANE YHH150G3RV	4200	1.5	3	BELT	80	67	58.1	57	91.6	136.36	105	SCROLL	27.5	1	13.6	1	2	2.7	2	15 (12.1)	PLEATED	350	280	56.0	117.5	208/3	BY MC	64	90	2400	840	1

1. BASED ON TRANE YHH150G3RVB HORIZONTAL DISCHARGE ROOFTOP UNIT WITH 2-SPEED SUPPLY FAN, 2.5:1 MODULATING GAS FIRED HEATER, 0-100% FIELD MOUNTED ECONOMIZER, ROOF CURB, CONDENSER COIL HAIL GUARD, HINGED ACCESS DOORS, FACTORY MOUNTED & AND INSTALLED CONVENIENCE RECEPTACLE, AND 7-DAY PROGRAMMABLE THERMOSTAT. ROUTE CONDENSATE TO NEAREST ROOF DRAIN. PROVIDE SMOKE DETECTOR IN RETURN AIR PATH.

EXHAUST FAN SCHEDULE

MARK	LOC AT ROOM	TYPE	MIN CAP		FAN RPM	DRIVE	MOTOR (BY M.C.)					WT LBS	REMARKS
			CFM	ESP			HP	WATTS	NEC FLA	ELEC	START		
EF-1	ROOF	DOWNBLAST	1075	0.75	1582	DIRECT	1/4	-	3.7	120/1	-	35	1
EF-2	FAMILY RR 102	CEILING	150	0.20	1400	DIRECT	-	47	1.3	120/1	-	17	2

1. BASED ON GREENHECK MODEL G-103-VG DIRECT DRIVE CENTRIFUGAL DOWNBLAST ROOF EXHAUST FAN. PROVIDE WITH FACTORY INSULATED CURB, GRAVITY BACKDRAFT DAMPER, BIRDSCREEN, AND FACTORY MOUNTED DISCONNECT SWITCH. FAN SHALL BE ENERGIZED BY LIGHT SWITCH IN HALL 104.
2. BASED ON GREENHECK MODEL SP-A190 DIRECT DRIVE CEILING MOUNTED EXHAUST FAN. FAN SHALL BE ENERGIZED BY LIGHT SWITCH IN FAMILY RESTROOM 102.

LOUVER SCHEDULE

MARK	TYPE	MATERIAL	APPROX. SIZE	DEPTH	FINISH	USE	DESIGN CFM	MAX APD	MIN. FREE AREA	TOP AT AFF	WATER PENETRATION VELOCITY	REMARKS
LVR-1	FIXED	ALUMINUM	16x10	4	KYNAR	EXHAUST	150	0.05	0.30	11'-1"	-	1
LVR-2	FIXED	ALUMINUM	16x10	6	KYNAR	INTAKE	75	0.05	0.30	11'-1"	1058	2
LVR-3	FIXED	ALUMINUM	24x16	6	KYNAR	INTAKE	510	0.05	1.0	8'-0"	989	2

1. BASED ON GREENHECK ESD-435 STATIONARY LOUVER WITH DRAINABLE BLADES AND BIRD SCREEN. COORDINATE FINISH COLOR WITH ARCHITECT.
2. BASED ON GREENHECK ESD-635 STATIONARY LOUVER WITH DRAINABLE BLADES AND BIRD SCREEN. COORDINATE FINISH COLOR WITH ARCHITECT.

UNIT HEATER SCHEDULE - ELECTRIC

MARK	LOC AT ROOM	FAN CFM	KW	BTUH	VOLTAGE	AMPS	REMARKS
EUH-1	MECH 107	380	3	10,200	208/1	14.9	1

1. BASED ON MODINE MODEL HER 30C 1101 HORIZONTAL ELECTRIC UNIT HEATER. PROVIDE WITH WALL MOUNTED MANUFACTURER'S THERMOSTAT, SUMMER-WINTER TOGGLE SWITCH KIT, AND WALL MOUNTING BRACKET KIT. MOUNT AS HIGH AS POSSIBLE IN CORNER OF MECHANICAL ROOM.

FURNACE SCHEDULE - GAS

MARK	LOC AT ROOM	CFM	EXT SP	FAN HP	DRIVE TYPE	MBH INPUT	MBH OUTPUT	EAT (°F)	HEATING STAGES	OA CFM	MATCH W/ COND UNIT#	ELECTRICAL VOLT/ PH	MCA/ MOP	REMARKS
F-1	MECH 107	975	0.9	1/2	DIRECT	60	58.2	60	2	200	CU-1	120/1	9.3 / 15	1, 3-6
F-2	MECH 107	1550	0.9	3/4	DIRECT	80	77.6	60	2	310	CU-2	120/1	11.3 / 15	2-6

1. BASED ON TRANE S9X2B060U3 UPFLOW 2-STAGE GAS FURNACE WITH CONCENTRIC VENT KIT.
2. BASED ON TRANE S9X2C080U4 UPFLOW 2-STAGE GAS FURNACE WITH CONCENTRIC VENT KIT.
3. SIZE COMBUSTION AIR AND VENT PIPING PER MANUFACTURER'S REQUIREMENTS.
4. PROVIDE 2 SETS OF AIR FILTERS FOR EACH UNIT.
5. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT.
6. PROVIDE CONDENSATE NEUTRALIZATION KIT FOR EACH FURNACE.

CONDENSING UNIT SCHEDULE - AIR COOLED

MARK	MATCH WITH AHU	CAP MBH	O.A. TEMP °F	COMPRESSOR				MIN. AMB. TEMP.	COND. FANS			UNIT ELECTRICAL		WEIGHT	REMARKS
				REF TYPE	NO.	RATED LOAD AMPS	CAP STEPS		NO.	HP EACH	VOLT 60 CYC.	MCA	MOP		
CU-1	F-1	27.4	105	R-410	1	12.3	1	0	1	1/5	208/1	16	25	137	1,3
CU-2	F-2	46.1	105	R-410	1	21.8	1	0	1	1/5	208/1	28	45	197	2,3

1. BASED ON TRANE 4TTR3030H1 CONDENSING UNIT WITH HAIL GUARDS, MATCHED WITH 4TXCB004DS3 CASED COOLING COIL.
2. BASED ON TRANE 4TTR3048E1 CONDENSING UNIT WITH HAIL GUARDS, MATCHED WITH 4TXCC009DS3 CASED COOLING COIL.
3. PROVIDE ALUMINUM JACKETING FOR EXPOSED REFRIGERANT LINE-SETS ON THE ROOF.

MINI SPLIT INDOOR UNIT SCHEDULE

MARK	LOCATION	MATCH WITH MARK	MFR	MODEL	COOLING						HEATING			ELECTRICAL			WEIGHT	REMARKS			
					CFM (MAX)	CAPACITY (MBH) NOM	DER	EAT (°F) DB	WB	AMB (°F)	SEER	EER	TOT (MBH)	EAT DB (°F)	KW	AMB (°F)			VOLTS/ PHASE	MCA	MOP
MSS-IU-1	BRIDAL 143	MSS-OU-1	LG	LHN368HV	1130	21.8	35.1	80	67	105	17.6	12.1	35.0	70	3.4	0	208/1	32	40	85.3	1
MSS-IU-2	IT 109	MSS-OU-2	LG	LSN120HSV5	353	13.8	10.9	80	67	105	22.7	12.5	10.4	70	1.0	0	208/1	10	15	18.3	1

MINI SPLIT OUTDOOR UNIT SCHEDULE

MARK	LOCATION	MATCH WITH MARK	MFR	MODEL	COOLING				HEATING		FANS		ELECTRICAL			WEIGHT	REMARKS	
					CAPACITY (MBH) NOM	DER	AMB (°F)	SEER	EER	CAPACITY (MBH) TOT	DER	QTY	TYPE	VOLTS/ PHASE	MCA			MOP
MSS-OU-1	ROOF	MSS-IU-1	LG	LUU368HV	42	36	105	19	13.5	42.2	35	1	PROP	208/1	32	40	223.1	2
MSS-OU-2	ROOF	MSS-IU-2	LG	LSU120HSV5	13.7	11.2	105	21.5	12.5	7.02	13.3	1	PROP	208/1	10	15	74.1	2

1. PROVIDE INDOOR UNIT WITH MANUFACTURER'S HARD WIRED THERMOSTAT, CONDENSATE PUMP (IF REQUIRED), AND FIELD FABRICATED FILTER RACK. INDOOR UNIT IS POWERED THROUGH OUTDOOR UNIT.
2. PROVIDE CONDENSING UNIT WITH THIRD PARTY HAIL GUARD (TURBO EAGLE OR PRE-APPROVED EQUAL) AND LOW AMBIENT COOLING KIT. PROVIDE ALUMINUM JACKETING FOR EXPOSED REFRIGERANT LINE-SETS ON THE ROOF.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

GRILLE CALLOUT IN GRILLE AND REGISTER SCHEDULE	CUBIC FEET OF AIR PER MINUTE	GRILLE CALLOUT IN GRILLE AND REGISTER SCHEDULE	CUBIC FEET OF AIR PER MINUTE	GRILLE CALLOUT IN GRILLE AND REGISTER SCHEDULE	CUBIC FEET OF AIR PER MINUTE
CONNECTION SIZE (12x12) (RECTANGULAR)	RW12.12-500	CONNECTION AND RUNOUT SIZE (10"ø) (ROUND)	SB10-250	CONNECTION AND RUNOUT SIZE (10"ø) (ROUND)	SK10.4S-250
GRILLE CALLOUT SYMBOL - RECTANGULAR		GRILLE CALLOUT SYMBOL - ROUND		GRILLE CALLOUT SYMBOL - SLOT	

FIRST LETTER IN MARK:
S = SUPPLY DIFFUSER
R = RETURN GRILLE
P = PLENUM RETURN GRILLE
E = EXHAUST GRILLE
L = LAMINAR FLOW SUPPLY DIFFUSER
F = FAN FILTER SUPPLY DIFFUSER
C = SECURITY GRILLE
U = FLOOR MOUNTED SUPPLY GRILLE

NOTES:
1. PROVIDE SQUARE TO ROUND ADAPTERS AS REQUIRED TO ACCOMMODATE ROUND RUNOUTS.
2. IF REQUIRED, PROVIDE ALL LAY-IN GRDS WITH 24x24 LAY-IN PANEL.
3. COORDINATE AND VERIFY ALL FINISHES WITH ARCHITECT.
4. ALL SELECTIONS ARE BASED ON A MAXIMUM NC OF 25 UNLESS NOTED OTHERWISE.
5. CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND ASSOCIATED BORDER TYPES.
6. MARKS USED MAY NOT BE IN SEQUENCE.

REMARKS LEGEND:
EC = EGGCRATE
LB = LONG BLADES PARALLEL TO LONG DIMENSION
SB = SHORT BLADES PARALLEL TO LONG DIMENSION
LF = LOUVERED FACE
LA = LAMINAR AIRFLOW
DE = DAMPER/EXTRACTOR
EI = EXTERNALLY INSULATED
SS = STAINLESS STEEL
DD = DIFFUSION DISC ROOM SIDE BALANCING DISK
OBD = OPPOSED BLADE DAMPER
FD = FIRE DAMPER
RSR = ROOM SIDE REPLACEABLE FILTER
TZ = TECHZONE CEILING COMPATIBLE

MARK	TYPE	IMAGE	BASED ON		MOUNT	FACE SIZE	MATERIAL	FINISH	BLADE SPACING / SLOT WIDTH	DEFL	REMARKS
			MFR	MODEL							
EA	EXHAUST GRILLE		TITUS	350FL	LAY-IN	12x12	ALUMINUM	WHITE	3/4	35°	LB
EE	EXHAUST GRILLE		TITUS	350FL	SURFACE	12x12	ALUMINUM	WHITE	3/4	35°	LB
RA	RETURN GRILLE		TITUS	350FL	LAY-IN	12x12	ALUMINUM	WHITE	3/4	35°	LB
RB	RETURN GRILLE		TITUS	350FL	SURFACE	24x24	ALUMINUM	WHITE	3/4	35°	LB
RC	RETURN GRILLE		TITUS	350FL	LAY-IN	12x24	ALUMINUM	WHITE	3/4	35°	LB
RW	WALL RETURN		TITUS	350FL	WALL	SEE PLANS	ALUMINUM	WHITE	3/4	35°	LB
RX	WALL RETURN		TITUS	350FS	WALL	SEE PLANS	ALUMINUM	WHITE	3/4	35°	SB
SA	SUPPLY DIFFUSER		TITUS	TDC-AA	LAY-IN	6x6	ALUMINUM	WHITE	-	-	LF
SH	DUCT MOUNTED SUPPLY		TITUS	S300FS	DUCT	20x4	ALUMINUM	CLEAR ANODIZE	3/4	DOUBLE	SB
SH	DUCT MOUNTED SUPPLY		TITUS	S300FS	DUCT	SEE PLANS	ALUMINUM	CLEAR ANODIZE	3/4	DOUBLE	SB
SK	SUPPLY DIFFUSER		TITUS	TDC-AA	SURFACE	12x12	ALUMINUM	WHITE	-	-	LF
SW	WALL SUPPLY		TITUS	300FS	WALL	SEE PLANS	ALUMINUM	WHITE	3/4	DOUBLE	SB