

MECHANICAL LEGEND							
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	COTG	CLEANOUT TO GRADE	HWRC	HOT WATER RECIRC. PIPING	SA	SUPPLY AIR
CD	CONDENSATE DRAIN PIPING	CR	CONDENSATE RETURN	LPG	LIQUID PROPANE GAS	VTR	VENT THRU ROOF
CO	CLEANOUT	CW	COLD WATER PIPING	OA	OUTSIDE AIR	V	VENT PIPING
⊙	PLAN NOTE	HW	HOT WATER PIPING	RA	RETURN AIR	W	WASTE PIPING
⊖	EQUIPMENT SYMBOL	—	PIPE DROP	⊕	THERMOSTAT	WCO	WALL CLEANOUT
⊖	DUCT TRANSITION	—	PIPE RISE	⊖	MOTORIZED DAMPER	—	SIDEWALL REGISTER (SUPPLY AIR)
⊖	TURNING VANES	—	BALL VALVE	⊖	EXHAUST FAN	—	SIDEWALL GRILLE (RETURN AIR)
⊖	ROUND SPIRAL DUCTWORK	—	CHECK VALVE	⊖	ROOF TOP EXHAUST FAN	—	CEILING DIFFUSER
⊖	INSULATED FLEXIBLE DUCT	—	GATE VALVE	⊖	VERTICAL FAN COIL UNIT	—	RETURN AIR GRILLE
		—	RECTANGULAR SUPPLY AND RETURN AIR DUCT TAKE-OFF	⊖	HORIZONTAL UNIT HEATER	—	EXHAUST AIR GRILLE
		—	HAND DAMPER				
		—	ROUND BRANCH DUCT WITH HAND DAMPER				

EXHAUST FAN SCHEDULE									
SYM	TYPE	CFM	S.P.E.	WATTS	CHAR.	R.P.M.	CONTROL	REMARKS	
EF 1	ROOF MOUNTED	300	125"	1/4 HP	120/601	1175	TIME CLOCK	TWIN CITY MODEL 075C-BCRD WITH BACK DRAFT DAMPER WITH 10x10 SLEEVE THRU ROOF. PROVIDE TRANSITION AS REQUIRED TO CONNECT GRILLE.	
EF 2	ROOF MOUNTED	300	125"	1/4 HP	120/601	1175	TIME CLOCK	TWIN CITY MODEL 075C-BCRD WITH BACK DRAFT DAMPER WITH 10x10 SLEEVE THRU ROOF. PROVIDE TRANSITION AS REQUIRED TO CONNECT GRILLE.	
EF 3	CEILING MOUNTED	100	25"	87	120/601	640	WITH LIGHTS	TWIN CITY MODEL T100 WITH 6" DIA. DUCT UP TO ROOF CAP WITH BACK DRAFT DAMPER	
EF 4	CEILING MOUNTED	100	25"	87	120/601	640	WITH LIGHTS	TWIN CITY MODEL T100 WITH 6" DIA. DUCT UP TO ROOF CAP WITH BACK DRAFT DAMPER	
EF 5	CEILING MOUNTED	150	25"	87	120/601	640	WALL SWITCH	TWIN CITY MODEL T150 WITH 6" DIA. DUCT UP TO ROOF CAP WITH BACK DRAFT DAMPER	
EF 6	ROOF MOUNTED	300	125"	1/4 HP	120/601	1175	TIME CLOCK	TWIN CITY MODEL 075C-BCRD WITH BACK DRAFT DAMPER WITH 10x10 SLEEVE THRU ROOF. PROVIDE TRANSITION AS REQUIRED TO CONNECT GRILLE.	
EF 7	ROOF MOUNTED	300	125"	1/4 HP	120/601	1175	TIME CLOCK	TWIN CITY MODEL 075C-BCRD WITH BACK DRAFT DAMPER WITH 10x10 SLEEVE THRU ROOF. PROVIDE TRANSITION AS REQUIRED TO CONNECT GRILLE.	
EF 8	CEILING MOUNTED	100	25"	87	120/601	640	WITH LIGHTS	TWIN CITY MODEL T100 WITH 6" DIA. DUCT UP TO ROOF CAP WITH BACK DRAFT DAMPER	
EF 9	CEILING MOUNTED	100	25"	87	120/601	640	WITH LIGHTS	TWIN CITY MODEL T100 WITH 6" DIA. DUCT UP TO ROOF CAP WITH BACK DRAFT DAMPER	
EF 10	CEILING MOUNTED	100	25"	87	120/601	640	WITH LIGHTS	TWIN CITY MODEL T100 WITH 6" DIA. DUCT UP TO ROOF CAP WITH BACK DRAFT DAMPER	
EF 11	ROOF MOUNTED	800	1.0"	1/4	208/601	2200	WITH EQUIPMENT	TWIN CITY MODEL 100C-BCRD WITH BACK DRAFT DAMPER WITH 14x14 SLEEVE THRU ROOF. PROVIDE TRANSITION AS REQUIRED TO CONNECT TO DSHWASHER.	
EF 12	ROOF MOUNTED	3200	1.0"	2	208/601	—	WITH HOOD	CAPTIVE-ARE MODEL RTP-B-CA18 UP-FLOW. MOUNT ON ROOF CURB AS PART OF KITCHEN HOOD PACKAGE. REFER TO DETAILS ON SHEET M3.1	
EA 1	KITCHEN HOOD MAKE UP AIR UNIT	2560	1.0"	2	208/601	—	WITH HOOD	CAPTIVE-ARE MODEL RTP-B-CA18 DIRECT FIRE MAKE UP AIR UNIT. MOUNT ON ROOF CURB AS PART OF KITCHEN HOOD PACKAGE. REFER TO SHEET M3.1 DETAILS. (250,000 BTU)	

UNIT VENTILATOR SCHEDULE														
SYM	TYPE	% O.A.	CFM	H.P.	CHAR.	MBH TOTAL	MBH HEAT G	ENT AIR	STEAM PRESS	SUP.	RET.	VALVE	TRAP	REMARKS
UV 1	VERTICAL	25%	1250	1/4	120/601	144	106.8	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1250 WITH INLET DAMPER AND STEAM HEATING COIL
UV 2	VERTICAL	25%	1250	1/4	120/601	144	106.8	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1250 WITH INLET DAMPER AND STEAM HEATING COIL
UV 3	VERTICAL	25%	1250	1/4	120/601	144	106.8	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1250 WITH INLET DAMPER AND STEAM HEATING COIL
UV 4	VERTICAL	25%	1250	1/4	120/601	144	106.8	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1250 WITH INLET DAMPER AND STEAM HEATING COIL
UV 5	VERTICAL	25%	1250	1/4	120/601	144	106.8	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1250 WITH INLET DAMPER AND STEAM HEATING COIL
UV 6	VERTICAL	25%	1250	1/4	120/601	144	106.8	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1250 WITH INLET DAMPER AND STEAM HEATING COIL
UV 7	VERTICAL	25%	1250	1/4	120/601	144	106.8	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1250 WITH INLET DAMPER AND STEAM HEATING COIL
UV 8	VERTICAL	25%	1250	1/4	120/601	144	106.8	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1250 WITH INLET DAMPER AND STEAM HEATING COIL
UV 9	VERTICAL	25%	1250	1/4	120/601	144	106.8	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1250 WITH INLET DAMPER AND STEAM HEATING COIL
UV 10	VERTICAL	25%	1250	1/4	120/601	144	106.8	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1250 WITH INLET DAMPER AND STEAM HEATING COIL
UV 11	VERTICAL	25%	1250	1/4	120/601	144	106.8	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" THERM	TRANE MODEL VUVE1250 WITH INLET DAMPER AND STEAM HEATING COIL

① EACH UNIT TO BE 80 AS A PER ITEM BID. REFER TO SPECIFICATIONS. UNIT TO HAVE TOP GRILLES AND FLOOR INLET GRILLE. NEW UNITS ARE APPROXIMATELY 15" LONGER THAN THE EXISTING UNITS. COORDINATE WITH EXISTING SHELVING AND MAKE MODIFICATIONS TO EXISTING SHELVING AS REQUIRED TO INSTALL NEW UNITS.

AIR HANDLER SCHEDULE													
SYM	TYPE	CFM	CHAR.	H.P.	BTU	E.A.T.	STEAM PRESS	SUP.	RET.	VALVE	TRAP	WEIGHT	REMARKS
AH 1	HORIZONTAL	6000	208/603	5	380,000	65 Deg F	2 psi	2"	1-1/4"	AUTO 2 POSITION	F & T	1600#	TRANE MODEL UCCAG1440 COMPLETE WITH STEAM HEATING COIL AND RETURN AIR FLENUM.
AH 2	HORIZONTAL	6000	208/603	5	380,000	65 Deg F	2 psi	2"	1-1/4"	AUTO 2 POSITION	F & T	1600#	TRANE MODEL UCCAG1440 COMPLETE WITH STEAM HEATING COIL AND RETURN AIR FLENUM.

GRILLE AND REGISTER SCHEDULE											
SYM	SIZE	THROW	CFM	CONSTR.	FINISH	BRANCH DUCT	F.D.	O.B.	REMARKS		
GD1	12 x 12	4 WAY	200-500	STEEL	WHITE	10" Dia	NO	NO	PRICE 5MD WITH 24x24 LAY-IN MODULE		
GD2	9 x 9	3 WAY	50-200	STEEL	WHITE	8" Dia	NO	NO	PRICE 5MD WITH BEVELED FRAME		
GD3	12 x 12	3 WAY	200-450	STEEL	WHITE	10" Dia	NO	NO	PRICE 5MD WITH BEVELED FRAME		
SR1	12 x 10	—	50-200	STEEL	WHITE	8" Dia	NO	NO	PRICE 52DL WITH NARROW FRAME		
SR2	36 x 12	—	1500	STEEL	WHITE	IN DUCT	NO	YES	PRICE 52DL		
RG1	20 x 20	—	500-1200	STEEL	WHITE	SEE PLAN	NO	NO	PRICE 53S WITH 24x24 LAY-IN MODULE		
RG2	24 x 36	—	1000-2400	STEEL	WHITE	24 x 36	NO	NO	PRICE SERIES 865 (LOW SIDEWALL) HEAVY-DUTY GYM GRILLE		
ER1	12 x 12	—	50-400	STEEL	WHITE	12 x 10	NO	YES	PRICE 53SD		
GL1	24 x 8	—	200	ALUM	ANODIZED	24 x 8	NO	NO	AMERICAN WARMING LES1 WITH BIRD SCREEN AND DRAINABLE SLICES		

KITCHEN HOOD UNIT SCHEDULE														
SYM	LENGTH	WIDTH	HEIGHT	TYPE	EXH CFM	FAN SYM	MAKE-UP CFM	HEATER SYM	EXIT DUCT	FIRE SYST.	LIGHTS	CHAR.	GREASE EXTRACTION	WEIGHT
KH 1	16'-0"	5'-6"	2'-0"	WALL MOUNTED	3200	EF 12	2560	MA 1	(2) 10x14	ANSUL	INTEGRAL	120/601	YES	800#

DESCRIPTION: CAPTIVE-ARE MODEL NFR COMPLETE WITH FIRE SUPPRESSION SYSTEM. LIGHT CONTROLS, GREASE EXTRACTION, BAFFLES AND TROUGH. MAKE UP AIR SUPPLY WITH DUCT CONNECTIONS ON EACH SIDE OF HOOD. 18 GAUGE STAINLESS STEEL CONSTRUCTION AND U.L. LABEL FIRE DAMPERS. MOUNT BOTTOM OF HOOD 6" ABOVE FINISHED FLOOR. PROVIDE STAINLESS STEEL EXTENSION FROM HOOD TO CEILING.

ELECTRIC HEATER SCHEDULE						
SYM	TYPE	BTU	KW	CHAR.	CONTROL	REMARKS
EH 1	RECESSED WALL MOUNTED	6824	2	208/601	INTEGRAL	QMARK MODEL AWH-4488 WITH AWH-S-2 RECESSED MOUNTING FRAME
EH 2	SURFACE WALL MOUNTED	6824	2	208/601	INTEGRAL	QMARK MODEL AWH-4488 WITH AWH-S SURFACE MOUNTING FRAME
EH 3	RECESSED WALL MOUNTED	5120	1-1/2	208/601	INTEGRAL	QMARK MODEL AWH-3159 WITH AWH-S-2 RECESSED MOUNTING FRAME

UNIT HEATER SCHEDULE													
SYM	TYPE	CFM	CHAR.	H.P.	E.D.R.	E.A.T.	STEAM PRESS	SUP.	RET.	VALVE	TRAP	WEIGHT	REMARKS
UH 1	HORIZONTAL	400	120/601	1/4	95	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" FAT	200#	TRANE MODEL FFEB801 CEILING MOUNTED UNIT WITH FRONT OUTLET AND BOTTOM INLET.
UH 2	HORIZONTAL	1000	120/601	1/4	258	65°F	2 psi	1-1/2"	3/4"	AUTO 2 POSITION	3/4" FAT	250#	TRANE MODEL FFEB101 CEILING MOUNTED UNIT WITH FRONT OUTLET AND BOTTOM INLET.
UH 3	HORIZONTAL	400	120/601	1/4	95	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" FAT	200#	TRANE MODEL FFEB801 CEILING MOUNTED UNIT WITH FRONT OUTLET AND BOTTOM INLET.
UH 4	HORIZONTAL	400	120/601	1/4	95	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" FAT	200#	TRANE MODEL FFEB801 CEILING MOUNTED UNIT WITH FRONT OUTLET AND BOTTOM INLET.
UH 5	VERTICAL	400	120/601	1/4	95	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" FAT	200#	TRANE MODEL FFEB801 FLOOR MOUNTED UNIT WITH TOP OUTLET AND TOE SPACE INLET.
UH 6	VERTICAL	400	120/601	1/4	95	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" FAT	200#	TRANE MODEL FFEB801 FLOOR MOUNTED UNIT WITH TOP OUTLET AND TOE SPACE INLET.
UH 7	VERTICAL	400	120/601	1/4	95	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" FAT	200#	TRANE MODEL FFEB801 FLOOR MOUNTED UNIT WITH TOP OUTLET AND TOE SPACE INLET.
UH 8	VERTICAL	400	120/601	1/4	95	65°F	2 psi	1-1/4"	3/4"	AUTO 2 POSITION	3/4" FAT	200#	TRANE MODEL FFEB801 FLOOR MOUNTED UNIT WITH TOP OUTLET AND TOE SPACE INLET.
UH 9	HORIZONTAL	1000	120/601	1/4	258	65°F	2 psi	1-1/2"	3/4"	AUTO 2 POSITION	3/4" FAT	250#	TRANE MODEL FFEB101 CEILING MOUNTED UNIT WITH FRONT OUTLET AND BOTTOM INLET.
UH 10	HORIZONTAL	1000	120/601	1/4	258	65°F	2 psi	1-1/2"	3/4"	AUTO 2 POSITION	3/4" FAT	250#	TRANE MODEL FFEB101 CEILING MOUNTED UNIT WITH FRONT OUTLET AND BOTTOM INLET.

FAN COIL UNIT SCHEDULE																			
SYM	TYPE	FAN				DX COOLING COIL				STEAM COIL				REMARKS					
		CFM	S.P.E.	H.P.	CHAR.	MBH	EAT	LAT	EDR	STEAM PRES	EAT	TRAP	VALVE		SUP.	RET.	LIQ	SUCT	CD
FC 1	UP FLOW	1200	.75"	3/4	120/601	—	—	—	270	2 psi	65°F	1" FAT	AUTO 2 POSITION	2"	1"	—	—	—	GREENHECK MODEL VFC-1300L-FC7 WITH STEAM COIL
FC 2	UP FLOW	1200	.75"	3/4	120/601	—	—	—	270	2 psi	65°F	1" FAT	AUTO 2 POSITION	2"	1"	—	—	—	GREENHECK MODEL VFC-1300L-FC7 WITH STEAM COIL
FC 3	UP FLOW	1200	.75"	3/4	120/601	—	—	—	270	2 psi	65°F	1" FAT	AUTO 2 POSITION	2"	1"	—	—	—	GREENHECK MODEL VFC-1300L-FC7 WITH STEAM COIL
FC 4	UP FLOW	1400	.75"	1	120/601	—	—	—	270	2 psi	65°F	1" FAT	AUTO 2 POSITION	2"	1"	—	—	—	GREENHECK MODEL VFC-1300L-FC10 WITH STEAM COIL
FC 5	UP FLOW	1200	.75"	3/4	120/601	—	—	—	270	2 psi	65°F	1" FAT	AUTO 2 POSITION	2"	1"	—	—	—	GREENHECK MODEL VFC-1300L-FC7 WITH STEAM COIL
FC 6	UP FLOW	1200	.75"	3/4	120/601	—	—	—	270	2 psi	65°F	1" FAT	AUTO 2 POSITION	2"	1"	—	—	—	GREENHECK MODEL VFC-1300L-FC7 WITH STEAM COIL
FC 7	UP FLOW	2400	.75"	1-1/2	208/601	—	—	—	540	2 psi	65°F	1-1/4" F&S	AUTO 2 POSITION	2-1/2"	1-1/4"	—	—	—	GREENHECK MODEL VFC-2400L-FC15 WITH STEAM COIL
FC 8	UP FLOW	1800	.75"	1-1/2	208/601	—	—	—	405	2 psi	65°F	1-1/4" F&S	AUTO 2 POSITION	2-1/2"	1-1/4"	—	—	—	GREENHECK MODEL VFC-1800L-FC15 WITH STEAM COIL

CONVECTOR SCHEDULE											
SYM	TYPE	SIZE	EDR	EAT	STEAM PRESS	SUP.	RET.	VALVE	TRAP	REMARKS	
C 1	SURFACE MOUNTED	36" W x 20" H x 6" D	43	65°F	2 psi	1"	1/2"	DANFOSS	1/2" THERM	TRANE TYPE SFK SURFACE MOUNTED UNIT WITH SLOPED TOP AND ARCH FLOOR INLET.	
C 2	SURFACE MOUNTED	36" W x 20" H x 6" D	43	65°F	2 psi	1"	1/2"	DANFOSS	1/2" THERM	TRANE TYPE SFK SURFACE MOUNTED UNIT WITH SLOPED TOP AND ARCH FLOOR INLET.	
C 3	SURFACE MOUNTED	26" W x 20" H x 6" D	28	65°F	2 psi	3/4"	1/2"	DANFOSS	1/2" THERM	TRANE TYPE SFK SURFACE MOUNTED UNIT WITH SLOPED TOP AND ARCH FLOOR INLET.	
C 4	SURFACE MOUNTED	50" W x 20" H x 6" D	59	65°F	2 psi	1-1/4"	3/4"	DANFOSS	3/4" THERM	TRANE TYPE SFK SURFACE MOUNTED UNIT WITH SLOPED TOP AND ARCH FLOOR INLET.	
C 5	SURFACE MOUNTED	50" W x 20" H x 6" D	59	65°F	2 psi	1-1/4"	3/4"	DANFOSS	3/4" THERM	TRANE TYPE SFK SURFACE MOUNTED UNIT WITH SLOPED TOP AND ARCH FLOOR INLET.	
C 6	SURFACE MOUNTED	36" W x 20" H x 6" D	43	65°F	2 psi	1"	1/2"	DANFOSS	1/2" THERM	TRANE TYPE SFK SURFACE MOUNTED UNIT WITH SLOPED TOP AND ARCH FLOOR INLET.	
C 7	SURFACE MOUNTED	36" W x 20" H x 6" D	43	65°F	2 psi						