PACKAGED ROOFTOP UNIT PERFORMANCE SCHEDULE

* - (NET) AT 95°F AMBIENT

TAG	NOMINAL COOLING (TONS)	TOTAL COOLING (MBH)*	SENSIBLE COOLING (MBH)	EDB/EWB (°F)	LDB/LWB (°F)	TOTAL AIRFLOW (CFM)	E.S.P. (IN.W.G.)	SUPPLY FAN RPM	MINIMUM O.A. (CFM)	MINIMUM EXHAUST (CFM)	FUEL INPUT (MBH)	HEATING OUTPUT (MBH)	HEATING EAT (°F)	HEATING LAT (°F)	SEER (BTUH/ WATT)	WEIGHT W/ CURB (LBS)	TYPE OF REFRIG-ERANT	FUEL	ELECTRICAL REQUIREMENTS				BASIS OF DESIGN - TRANE	
																			HP	MCA	MOCP	V/PH/HZ	SERVICE	MODEL
HVAC-1	4.0	42.7	33.6	76.6/62.3	53.3/50.7	1300	1.0	958	130	-	60	48	64.0	98.5	11.5	1300	R-410a	NAT GAS	-	29.4	40.0	208/3/60	LOBBY/CONFERENCE	YHC047
HVAC-2	5.0	53.7	40.9	77.3/64.0	56.7/53.9	1800	1.0	1018	255	-	80	64	60.0	93.2	11.2	1300	R-410a	NAT GAS	-	32.2	45.0	208/3/60	OFFICES/BREAK	YHC067

PROVIDE ALL UNITS WITH DUAL ENTHALPY ECONOMIZERS, HOT GAS REHEAT, STAINLESS STEEL HEAT EXCHANGERS (WHERE AVAILABLE) AND TWO STAGE OR MODULATING HEAT (WHERE AVAILABLE)

SPLIT-SYSTEM AIR CONDITIONER PERFORMANCE SCHEDULE

* - AT ARI CONDITIONS OF 85°F AMBIENT/65°F INDOOR WB

TAG	TOTAL COOLING (MBH)*	AIRFLOW (CFM)	MOISTURE REMOVAL (PINTS/HR)	COND. DRAIN (IN)	SEER (BTUH/ WATT)	SOUND RATING (DB)	WEIGHT (LBS)	REFRIGERANT PIPE SIZE (IN)		ELECTRICAL REQUIREMENTS			BASIS OF DESIGN = DAIKIN		
								LIQUID	GAS	MCA	MAX FUSE	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL
SAC-1	48/138	309	40	¾"	15.0	45	18	¼"	⅜"	1.0	15.0	230/1/60	IT ROOM	WALL	FTXS12LVJU

PROVIDE W/LOW AMBIENT CONTROLS.

SPLIT-SYSTEM CONDENSING UNIT PERFORMANCE SCHEDULE

* - AT ARI CONDITIONS OF 85°F AMBIENT/67°F SAT. INDOOR WB

TAG	TOTAL COOLING (MBH)*	REFRIGERANT	CONDENSER AIRFLOW (CFM)	MINIMUM AMBIENT TEMP(°F)	FOOTPRINT DIMENSION (INCHES)	OPERATING WEIGHT (LBS)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN = DAIKIN			
							MCA	MAX FUSE	V/PH/HZ	COMP. STAGING	SOUND (dB)	SERVICE	MODEL
SCU-1	48/138	R-410A	-	0°	30x12	75	8.8	15.0	230/1/60	-	61	SAC-1	RXS12LVJU

PROVIDE W/LOW AMBIENT CONTROLS AND WIND BAFFLE

FAN PERFORMANCE SCHEDULE

TAG	AIRFLOW (CFM)	T.S.P. (IN.W.G.)	NOISE (SONES)	RPM	DRIVE	ELECTRICAL REQUIREMENTS					BASIS OF DESIGN = (G) GREENHECK, (P) PANASONIC		
						HP	BHP	WATTS	AMPS	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL
EF-1	75/30	0.25	0.6	1166	DIRECT	-	-	45	-	120/1/60	TOILET & JANITOR'S EXHAUST	CEILING	(P) FV-05-11VKS1
EF-2	90	0.25	0.6	1193	DIRECT	-	-	45	-	120/1/60	COPIER EXHAUST	CEILING	(P) FV-05-11VKS1

PROVIDE EF-1 WITH MANUFACTURER SPECIFIED LAMPS

ELECTRIC KICKSPACE HEATER PERFORMANCE SCHEDULE

TAG	OUTPUT (MBH)	AIRFLOW (CFM)	MTG.HT. AFF (IN)	ELECTRICAL REQUIREMENTS		BASIS OF DESIGN = BERKO	
				KW	V/PH/HZ	SERVICE	MODEL
KSH-1	3.8	100	TOESPACE	1.125	208/1/60	TELLER DESK	QTS1524T

ELECTRIC BASEBOARD HEATER PERFORMANCE SCHEDULE

TAG	OUTPUT (MBH)	LENGTH (FT-IN)	MTG.HT. AFF (IN)	ELECTRICAL REQUIREMENTS		BASIS OF DESIGN = RUNTAL	
				KW	V/PH/HZ	SERVICE	MODEL
EBB-1	5.0	6'-0"	*	1.5	208/1/60	MULTIPLE	EB3-208D

* - MOUNTING HEIGHT SHALL BE PER MANUFACTURER'S RECOMMENDATIONS

ELECTRIC WALL HEATER PERFORMANCE SCHEDULE

TAG	OUTPUT (MBH)	AIRFLOW (CFM)	MTG.HT. AFF (IN)	ELECTRICAL REQUIREMENTS		BASIS OF DESIGN = BERKO	
				KW	V/PH/HZ	SERVICE	MODEL
WH-1	5.1	100	12"	1.5	120/1/60	MULTIPLE	HT150125S

AIR DEVICE PERFORMANCE SCHEDULE

TAG	PANEL SIZE(IN)	NECK SIZE(IN)	AIRFLOW (CFM)	SP.LOSS (IN.W.G.)	THROW(L)	Nc	BASIS OF DESIGN - METALAIRE		
							DUCT CONN.(IN)	PATTERN	MODEL
A	24x24	6x6	100	0.05	-	25	SEE DWGS	SEE DWGS	5000D
B	24x24	9x9	250	0.05	-	25	SEE DWGS	SEE DWGS	5000D
C	24x24	12x12	360	0.05	-	25	SEE DWGS	SEE DWGS	5000D
D	24x24	8"ø	250	0.05	-	25	SEE DWGS	SEE DWGS	MSE-HC*
E	24x24	10"ø	380	0.05	-	25	SEE DWGS	SEE DWGS	MSE-HC*
F	-	20x6	400	0.05	-	25	SEE DWGS	SEE DWGS	2115-DA
AA	-	18x18	900	0.05	-	25	SEE DWGS	1/2", 45°	RHD

* - SET MINIMUM TO 50% OF MAXIMUM

PLUMBING FIXTURE CONNECTION SCHEDULE

TAG	DESCRIPTION	SAN	VENT	CW	HW
P-1	ADA TANK TYPE WATER CLOSET	3"	2"	1/2"	-
P-2	ADA WALL HUNG LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"
P-3	ADA SINGLE BOWL SS SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-4	MOP BASIN	3"	2"	3/4"	3/4"
P-5	COFFEEMAKER CONNECTION	2"	1-1/2"	1/2"	1/2"
FPHB	FREEZE PROOF HOSE BIBB	-	-	3/4"	-
FD-1	FLOOR DRAIN	3"	2"	1/2" *	-

MINIMUM SIZE OF BELOW SLAB SANITARY & VENT PIPING SHALL BE 2".
* - FLOOR DRAINS SHALL HAVE TRAP PRIMER CONNECTION SERVED FROM NEAREST FIXTURE.

ELECTRIC WATER HEATER PERFORMANCE SCHEDULE

TAG	STORAGE (GALS)	REC'VRY. @ 100°F	ELECTRICAL REQ'S			BASIS OF DESIGN - A.O. SMITH	
			HP	WATTS	V/PH/HZ	SERVICE	MODEL
EWH-1	20.0	14.0	-	3000	208/1/60	DOM HW	DEL-20

BFP PERFORMANCE SCHEDULE

TAG	SIZE	FLOW RATE (GPM)	W.P.D (PSI)	MAX. WORK'G. TEMPERATURE (DEGREES F)	MAX. WORK'G. PRESSURE (PSI)	TESTABLE (Y) OR (N)	BASIS OF DESIGN = ZURN-WILKINS		
							BODY STYLE*	SERVICE	MODEL
BFP-1	1-¼"	30.0	12.0	180	175	Y	RPZ	WATER ENTRANCE	975XL

TEMPERATURE MIXING VALVE PERFORMANCE SCHEDULE

TAG	FLOW RATE (GPM)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	W.P.D (PSIG)	SET POINT (DEGREES F)	PROVIDE SPARE CARTRIDGE (Y) OR (N)	BASIS OF DESIGN = SYMMONS		
							SERVICE	ARRANGEMENT	MODEL
TMV-1	4.5	½"	½"	7.0	110°F	Y	DOM HW	WALL	5-102-W

EXPANSION TANK PERFORMANCE SCHEDULE

TAG	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MIN. REQ'D. ACCEPT.VOL. (GAL)	MAX. WORK'G. TEMPERATURE (DEG F)	MAX. WORK'G. PRESSURE (PSI)	WEIGHT (LBS)	BASIS OF DESIGN = AMTROL		
							MOUNTING	SERVICE	MODEL
ET-1	4.4	4.4	4.4	240	125	90	INLINE	DOM HW	ST-12(A)

PUMP PERFORMANCE SCHEDULE

TAG	FLOW RATE (GPM)	HEAD (FT.W.G)	IMPEL. SIZE	RPM	EFF %	ELECTRICAL REQUIREMENTS					BASIS OF DESIGN = TACO		
						HP	BHP	WATTS	AMPS	V/PH/HZ	SERVICE	ARRANGEMENT	MODEL
CP-1	2.0	10.0	-	3250	-	1/25	-	-	0.84	120/1/60	DOM HW RECIRC	CARTRIDGE	00825

CP-1 SHALL BE STAINLESS STEEL CONSTRUCTION

MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET.
SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

SYMBOL	DESCRIPTION
—CA—	COMPRESSED AIR PIPING (CA)
—C—	CONDENSATE DRAIN PIPING (C)
—CTR—	COOLING TOWER RETURN PIPING (CTR)
—CTS—	COOLING TOWER SUPPLY PIPING (CTS)
—CWR—	CHILLED WATER RETURN PIPING (CWR)
—CWS—	CHILLED WATER SUPPLY PIPING (CWS)
—FOR—	FUEL OIL RETURN PIPING (FOR)
—FOS—	FUEL OIL SUPPLY PIPING (FOS)
—G—	GAS PIPING (G)
—HWR—	HOT WATER RETURN PIPING (HWR)
—HWS—	HOT WATER SUPPLY PIPING (HWS)
—RL—	REFRIGERANT LIQUID PIPING (RL)
—RG—	REFRIGERANT GAS PIPING (RG)
- - - - - -	SANITARY PIPING BELOW FLOOR (SAN)
————	SANITARY PIPING ABOVE FLOOR (SAN)
— — — —	SANITARY VENT PIPING
—RWL—	RAINWATER LEADER ABOVE SLAB (RWL)
—·—·—	COLD WATER PIPING (CW)
—·—·—	HOT WATER PIPING (HW)
—·—·—	RECIRCULATED HOT WATER PIPING (RHW)
	PIPE CAP
	DIRECTION OF FLUID FLOW
	ELBOW UP
	ELBOW DOWN
	PIPE TEE UP
	PIPE TEE DOWN
	PIPE REDUCER
	PIPE WITH GUIDE
	PIPE WITH ANCHOR
	BUTTERFLY VALVE
	OS & Y GATE VALVE

SYMBOL	DESCRIPTION
	BACKFLOW PREVENTER (BFP)
	CHECK VALVE
	BALANCING VALVE (ADJUSTABLE)
	AUTOMATIC FLOW CONTROL VALVE
	RELIEF VALVE (RV)
	BALL VALVE
	BALL VALVE
	3/4" BALL VALVE WITH 3/4" HOSE END
	GATE VALVE
	PRESSURE REDUCING VALVE
	FUSIBLE VALVE
	STRAINER W/BLOWDOWN BALL VALVE
	2-WAY CONTROL VALVE
	SOLENOID VALVE
	3-WAY CONTROL VALVE
	3-WAY CONTROL VALVE (TOP VIEW)
	4-WAY CONTROL VALVE (TOP VIEW)
	2 BUTTERFLY VALVES W/SINGLE ACTUATOR
	BUTTERFLY VALVE W/ACTUATOR
	TRIPLE-DUTY VALVE
	UNION
	PIPE FLANGE
	PUMP WITH FLANGES
	BASE MOUNTED PUMP
	CARTRIDGE TYPE INLINE PUMP
	VERTICAL INLINE PUMP
FC	FLEXIBLE PIPE CONNECTION (FC)
	PITCH DOWN
	PETCOCK

SYMBOL	DESCRIPTION
PG	PRESSURE GAGE WITH GAGE COCK
T	THERMOMETER IN WELL
FS	WATER FLOW SWITCH
PS	PRESSURE SWITCH OR SENSOR
S	EMURSION TEMPERATURE SENSOR
S	DUCT MOUNTED SMOKE DETECTOR
TR	ROOM TEMPERATURE SENSOR
TS	THERMOSTAT OR SENSOR ON WALL
TG	T-STAT OR SENSOR W/ TAMPERPROOF GUARD
V	MANUAL AIR VENT
2	NOTE TAG (NUMBER)
A 250	AIR DEVICE TAG (LETTER) WITH CFM
101	ROOM NUMBER
	TURNING VANES
	DUCT W/MANUAL DAMPER
	DUCT W/FLEXIBLE CONNECTION (FC)
	LAGGED DUCT
	DUCT W/ACOUSTIC LINING
	DUCT W/SQUARE-TO-ROUND TRANSITION
	FLEXIBLE DUCT
MOD	MOTOR OPERATED DAMPER
	AIRFLOW OUT
	AIRFLOW IN
ø	DIAMETER OR FLAT OVAL
	FIRE DAMPER
	ROUND OR FLAT OVAL DUCT DOWN
	ROUND OR FLAT OVAL DUCT UP
	SUPPLY DIFFUSER
	RETURN GRILLE
	STEAM TRAP
	WATER HAMMER ARRESTOR

ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU-*	AIR HANDLING UNIT TAG
AMS	AIRFLOW MONITORING STATION
AMPS	AMPERES
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AS-*	AIR SEPARATOR TAG
ATC	AUTOMATIC TEMPERATURE CONTROL
BD-*	BYPASS DAMPER TAG
BFP-*	BACKFLOW PREVENTER TAG
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CC-*	COOLING COIL TAG
CFM	CUBIC FEET PER MINUTE
CO	CLEANOUT
CP-*	CIRCULATING PUMP TAG
Cv	VALVE COEFFICIENT
CW	COLD WATER
DB	DRY BULB
dB RE	DECIBELS RELATIVE TO
DC	DOUBLE CHECK
DCA	DOUBLE CHECK ATMOSPHERIC
DEG F	DEGREES FAHRENHEIT
DIA	DIAMETER
DIW	DOWN IN WALL
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE

ABBREVIATION	DESCRIPTION
EDB	ENTERING DRY BULB
EDC-*	ELECTRIC DUCT COIL TAG
EER	ENERGY EFFICIENCY RATIO
EF-*	EXHAUST FAN TAG
EFF	EFFICIENCY
ESP	EXTERNAL STATIC PRESSURE
ET-*	EXPANSION TANK TAG
EWB	ENTERING WET BULB
EWH-*	ELECTRIC WATER HEATER TAG
EWT	ENTERING WATER TEMPERATURE
EXG	EXISTING
EXH	EXHAUST
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FD	FIRE DAMPER
FD-*	FLOOR DRAIN TAG
FLA	FULL LOAD AMPS
FPHB	FROST PROOF HOSE BIBB
FPM	FEET PER MINUTE
FSD	COMBINATION FIRE & SMOKE DAMPER
FT	FEET
GA.	GAGE
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HC-*	HEATING COIL TAG
HP	HORSEPOWER
HRV-*	HEAT RECOVERY VENTILATOR TAG
HW	HOT WATER
HWS/R	HOT WATER SUPPLY AND RETURN

ABBREVIATION	DESCRIPTION
I=B=R	INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS
IN.	INCHES
L-*	LOUVER TAG
LAT	LEAVING AIR TEMPERATURE
LB	POUNDS
LWS/R	LOOP WATER SUPPLY/RETURN
LRA	LOCKED ROTOR AMPS
LWCO	LOW WATER CUTOUT
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSANDS OF BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
NC	NOISE CRITERION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
O.D.	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
OPD	OVERCURRENT PROTECTIVE DEVICE
P-*	PLUMBING FIXTURE TAG
PENET'N	PENETRATION
PF-*	PADDLE FAN TAG
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
PVC	POLYVINYL CHLORIDE (PIPE)
RA	RETURN AIR
RD	ROOF DRAIN
RDE	RECOMMENDED DUAL ELEMENT FUSE AMPS
RHW	RECIRCULATED HOT WATER

ABBREVIATION	DESCRIPTION
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RPS	REVOLUTIONS PER SECOND
RPZ	REDUCED PRESSURE ZONE
RTU	ROOM TEMPERATURE SENSOR
RV	RELIEF VALVE
RWL	RAINWATER LEADER
SA	SUPPLY AIR
SAN	SANITARY (DRAIN & WASTE)
SD	SMOKE DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SP	STATIC PRESSURE
SQ.FT	SQUARE FEET
ΔT	TEMPERATURE DIFFERENTIAL
TEMP.	TEMPERATURE
TCP	TEMPERATURE CONTROL PANEL
TMV-*	THERMOSTATIC MIXING VALVE TAG
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH-*	UNIT HEATER TAG
VB	VACUUM BREAKER
VFD	VARIABLE FREQUENCY INVERTER DRIVE
VTR	VENT THRU ROOF
V/PH/HZ	VOLTS/PHASES/HERTZ
WB	WET BULB
WCO	WALL CLEANOUT
WG	WATER GAGE
WPD	WATER PRESSURE DROP
WSA	WIRE SIZING AMPS
WT	WATER TEMPERATURE DROP
W/	WITH

10-17-16 FOR CONSTRUCTION

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MECHANICAL SCHEDULES AND LEGEND

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