

PACKAGED ROOFTOP UNIT PERFORMANCE SCHEDULE

• - (NET) AT 95°F AMBIENT

TAG	NOMINAL COOLING (TONS)	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	EDB/EWB (°F)	LDB/LUB (°F)	TOTAL AIRFLOW (CFM)	E.S.P. (INUG)	SUPPLY FAN RPM	MINIMUM O.A. (CFM)	MINIMUM EXHAUST (CFM)	FUEL IN/OUT (MBH)	HEATING OUTPUT (MBH)	HEATING FAT (°F)	HEATING LAT (°F)	SEER (BTUH/WATT)	WEIGHT W/ CURB (LBS)	TYPE OF REFRIGERANT	FUEL	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN - TRANE		
																			HP	MCA	MOCP	V/PH/Hz	SERVICE	MODEL
HVAC-1	4.0	42.1	33.6	76.6/62.3	53.3/50.1	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	YHC041
HVAC-2	5.0	53.1	40.9	71.3/64.0	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	YHC061

PROVIDE ALL UNITS WITH DUAL ENTHALPHY 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	4.8/13.8	309	4.0	3/4"	15.0	45	18	1/4"	3/8"	1.0	15.0	230/1/60	-	61	SAC-1	IT ROOM	WALL	FTX912LVJU

PROVIDE W/Low AMBIENT CONTROLS.

SPLIT-SYSTEM CONDENSING UNIT PERFORMANCE SCHEDULE

• - AT ARI CONDITIONS OF 85°F AMBIENT/61°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	4.8/13.8	R-410A	-	0"	30x12	75	8.8	15.0	230/1/60	-	61	SAC-1	RX912LVJU

PROVIDE W/Low AMBIENT CONTROLS AND WIND BAFFLE

FAN PERFORMANCE SCHEDULE

TAG	AIRFLOW (CFM)	T.S.P (INUG)	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-05-1VKS1
EF-2	90	0.25	0.6	1193	DIRECT	-	-	45	-	120/1/60	COPIER EXHAUST	CEILING	(P) FV-05-1VKS1

PROVIDE EF-1 WITH MANUFACTURER SPECIFIED LAMPS

ELECTRIC KICKSPACE HEATER PERFORMANCE SCHEDULE

TAG	OUTPUT (MBH)	AIRFLOW (CFM)	MTGHT. AFF (IN)	ELECTRICAL REQUIREMENTS		BASIS OF DESIGN - BERKO	
				KW	V/PH/Hz	SERVICE	MODEL
KSH-1	3.8	100	0.65FACE	1125	208/1/60	TELLER DESK	QT81504T

ELECTRIC BASEBOARD HEATER PERFORMANCE SCHEDULE

TAG	OUTPUT (MBH)	LENGTH (FT-IN)	MTGHT. AFF (IN)	ELECTRICAL REQUIREMENTS		BASIS OF DESIGN - RUNTAL	
				KW	V/PH/Hz	SERVICE	MODEL
EBB-1	5.0	6'-0"	-	15	208/1/60	MULTIPLE	EB3-208D

• - MOUNTING HEIGHT SHALL BE PER MANUFACTURER'S RECOMMENDATIONS

ELECTRIC WALL HEATER PERFORMANCE SCHEDULE

TAG	OUTPUT (MBH)	AIRFLOW (CFM)	MTGHT. AFF (IN)	ELECTRICAL REQUIREMENTS		BASIS OF DESIGN - BERKO	
				KW	V/PH/Hz	SERVICE	MODEL
WH-1	5.1	100	12"	15	120/1/60	MULTIPLE	HT150255

AIR DEVICE PERFORMANCE SCHEDULE

TAG	PANEL SIZE (IN)	NECK SIZE (IN)	AIRFLOW (CFM)	SPLOSS (INUG)	THROW (L)	Nc	BASIS OF DESIGN - METALAIR		
							DUCT CONN(IN)	PATTERN	MODEL
(A)	24x24	6x6	100	0.05	-	25	SEE DUGS	SEE DUGS	5000D
(B)	24x24	9x9	250	0.05	-	25	SEE DUGS	SEE DUGS	5000D
(C)	24x24	12x12	360	0.05	-	25	SEE DUGS	SEE DUGS	5000D
(D)	24x24	8"x	250	0.05	-	25	SEE DUGS	SEE DUGS	MSE-HC
(E)	24x24	10"x	380	0.05	-	25	SEE DUGS	SEE DUGS	MSE-HC
(F)	-	20x6	400	0.05	-	25	SEE DUGS	SEE DUGS	215-DA
(AA)	-	18x18	900	0.05	-	25	SEE DUGS	1/2", 45"	R4D

• - SET MINIMUM TO 50% OF MAXIMUM

PLUMBING FIXTURE CONNECTION SCHEDULE

TAG	DESCRIPTION	SAN	VENT	CW	HU
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"
FPB	FREEZE PROOF HOSE BIBB	-	-	3/4"	-
FD-1	FLOOR DRAIN	3"	2"	1/2"	-

MINIMUM SIZE OF BELOW SLAB SANITARY 4 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.VRT. # 100°F	ELECTRICAL REQ'S			BASIS OF DESIGN - A.O. SMITH	
			HP	WATTS	V/PH/Hz	SERVICE	MODEL
EUH-1	20.0	14.0	-	3000	208/1/60	DOM HU	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	1-1/4"	30.0	12.0	100	115	Y	RPZ	WATER ENTRANCE	915XL

TEMPERATURE MIXING VALVE PERFORMANCE SCHEDULE

TAG	FLOW RATE (GPM)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	W.P.D (PSI)	SET POINT (DEGREES F)	PROVIDE SPARE CARTRIDGE (Y) OR (N)	BASIS OF DESIGN - SYMONS		
							SERVICE	ARRANGEMENT	MODEL
TMV-1	4.5	1/2"	1/2"	7.0	110°F	Y	DOM HU	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 HU	5T-12(A)

PUMP PERFORMANCE SCHEDULE

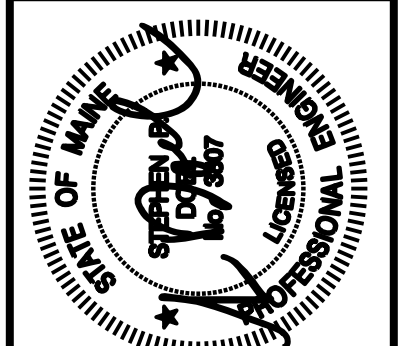
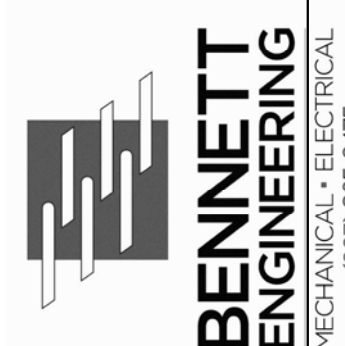
TAG	FLOW RATE (GPM)	HEAD (FT/UG)	IMPEL. SIZE	RPM	EFF %	ELECTRICAL REQUIREMENTS				BASIS OF DESIGN - TACO			
						HP	BHP	WATTS	AMPS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL
CP-1	2.0	10.0	-	3250	-	1/25	-	-	0.84	120/1/60	DOM HU RECIRC	CARTRIDGE	00855

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	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
CA	COMPRESSED AIR PIPING (CA)	BP	BACKFLOW PREVENTER (BFP)	CG	PRESSURE GAGE WITH GAGE COCK	AAV	AUTOMATIC AIR VENT	EDB	ENTERING DRY BULB	I-B-R	INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS	RLA	RUNNING LOAD AMPS
C	CONDENSATE DRAIN PIPING (C)	CV	CHECK VALVE	CT	THERMOMETER IN WELL	AD	ACCESS DOOR	EDC	ELECTRIC DUCT COIL TAG	IN	INCHES	RPM	REVOLUTIONS PER MINUTE
CTR	COOLING TOWER RETURN PIPING (CTR)	AV	BALANCING VALVE (ADJUSTABLE)	CS	WATER FLOW SWITCH	AFF	ABOVE FINISHED FLOOR	EER	ENERGY EFFICIENCY RATIO	L	LOUVER TAG	RPS	REVOLUTIONS PER SECOND
CTS	COOLING TOWER SUPPLY PIPING (CTS)	AF	AUTOMATIC FLOW CONTROL VALVE	CS	PRESSURE SWITCH OR SENSOR	AHU	AIR HANDLING UNIT TAG	EF	EXHAUST FAN TAG	LAT	LEAVING AIR TEMPERATURE	RPZ	REDUCED PRESSURE ZONE
CUR	CHILLED WATER RETURN PIPING (CUR)	RFV	RELIEF VALVE (RV)	CS	EMURSION TEMPERATURE SENSOR	AMS	AIRFLOW MONITORING STATION	EFF	EFFICIENCY	LB	POUNDS	RTU	ROOM TEMPERATURE SENSOR
CWS	CHILLED WATER SUPPLY PIPING (CWS)	BV	BALL VALVE	CS	DUCT MOUNTED SMOKE DETECTOR	AMPS	AMPERES	ESP	EXTERNAL STATIC PRESSURE	LBS/R	LOOP WATER SUPPLY/RETURN	RV	RELIEF VALVE
FOR	FUEL OIL RETURN PIPING (FOR)	3/4"	3/4" BALL VALVE WITH 3/4" HOSE END	CS	ROOM TEMPERATURE SENSOR	AP	ACCESS PANEL	ET	EXPANSION TANK TAG	LRA	LOCKED ROTOR AMPS	RL	RAINWATER LEADER
FOS	FUEL OIL SUPPLY PIPING (FOS)	GATE	GATE VALVE	CS	THERMOSTAT OR SENSOR ON WALL	APD	AIR PRESSURE DROP	EUB	ENTERING UET BULB	LUCO	LOW WATER CUTOUT	SA	SUPPLY AIR
G	GAS PIPING (G)	PRV	PRESSURE REDUCING VALVE	CS	TSTAT OR SENSOR W/ TAMPERPROOF GUARD	AS	AIR SEPARATOR TAG	EUH	ELECTRIC WATER HEATER TAG	LUT	LEAVING WATER TEMPERATURE	SAN	SANITARY (DRAIN & WASTE)
HWR	HOT WATER RETURN PIPING (HWR)	FUS	FUSIBLE VALVE	CS	MANUAL AIR VENT	ATC	AUTOMATIC TEMPERATURE CONTROL	EUT	ENTERING WATER TEMPERATURE	MAX	MAXIMUM	SD	SMOKE DAMPER
HWS	HOT WATER SUPPLY PIPING (HWS)	STR	STRAINER W/BLOWDOWN BALL VALVE	CS	NOTE TAG (NUMBER)	BD	BYPASS DAMPER TAG	EXG	EXISTING	MBH	THOUSANDS OF BTU PER HOUR	SEER	SEASONAL ENERGY EFFICIENCY RATIO
RL	REFRIGERANT LIQUID PIPING (RL)	2-WAY	2-WAY CONTROL VALVE	CS	AIR DEVICE TAG (LETTER) WITH CFM	BFP	BACKFLOW PREVENTER TAG	EXH	EXHAUST	MCA	MINIMUM CIRCUIT AMPACITY	SF	SUPPLY FAN
RG	REFRIGERANT GAS PIPING (RG)	SOLENOID	SOLENOID VALVE	CS	ROOM NUMBER	BHP	BRAKE HORSEPOWER	FC	FLEXIBLE CONNECTION	MIN	MINIMUM	SP	STATIC PRESSURE
SB	SANITARY PIPING BELOW FLOOR (SAN)	3-WAY	3-WAY CONTROL VALVE	CS	TURNING VANES	BTH	BRITISH THERMAL UNITS PER HOUR	FCO	FLOOR CLEANOUT	NC	NOISE CRITERION	SQFT	SQUARE FEET
SA	SANITARY PIPING ABOVE FLOOR (SAN)	4-WAY	4-WAY CONTROL VALVE (TOP VIEW)	CS	DUCT W/MANUAL DAMPER	CC	CUBIC FEET PER MINUTE	FD	FIRE DAMPER	NTS	NOT IN CONTRACT	ΔT	TEMPERATURE DIFFERENTIAL
SV	SANITARY VENT PIPING	2	2 BUTTERFLY VALVES W/SINGLE ACTUATOR	CS	DUCT W/FLEXIBLE CONNECTION (FC)	CFM	CUBIC FEET PER MINUTE	FD	FLOOR DRAIN TAG	NIS	NOT TO SCALE	TEMP	TEMPERATURE
RWL	RAINWATER LEADER ABOVE SLAB (RWL)	BUTTERFLY	BUTTERFLY VALVE W/ACTUATOR	CS	LAGGED DUCT	CO	CLEANOUT	FLA	FULL LOAD AMPS	OA	OUTSIDE AIR	TCP	TEMPERATURE CONTROL PANEL
CW	COLD WATER PIPING (CW)	TRIPLE-DUTY	TRIPLE-DUTY VALVE	CS	DUCT W/ACOUSTIC LINING	CP	CIRCULATING PUMP TAG	FFB	FROST PROOF HOSE BIBB	OB	OPPOSED BLADE DAMPER	TMV	THERMOSTATIC MIXING VALVE TAG
HU	HOT WATER PIPING (HU)	UNION	UNION	CS	DUCT W/SQUARE-TO-ROUND TRANSITION	Cv	VALVE COEFFICIENT	FFM	FEET PER MINUTE	OD	OUTSIDE DIAMETER	TSP	TOTAL STATIC PRESSURE
RHW	RECIRCULATED HOT WATER PIPING (RHW)	PUMP	PUMP WITH FLANGES	CS	FLEXIBLE DUCT	CW	COLD WATER	FSD	COMBINATION FIRE & SMOKE DAMPER	OED	OPEN ENDED DUCT	TYP	TYPICAL
PIPE CAP	PIPE CAP	FC	FLEXIBLE PIPE CONNECTION (FC)	CS	MOTOR OPERATED DAMPER	DB	DRY BULB	FT	FEET	OPD	OVERCURRENT PROTECTIVE DEVICE	UH	UNIT HEATER TAG
DIR. OF FLOW	DIRECTION OF FLUID FLOW	MOD	MODULATING VALVE	CS	AIRFLOW OUT	dB RE	DECIBELS RELATIVE TO	GA	GAGE	P	PLUMBING FIXTURE TAG	VB	VACUUM BREAKER
ELBOW UP	ELBOW UP	MOD	MODULATING VALVE	CS	AIRFLOW IN	DC	DOUBLE CHECK	GAL	GALLONS	PENETN	PENETRATION	VFD	VARIABLE FREQUENCY INVERTER DRIVE
ELBOW DOWN	ELBOW DOWN	MOD	MODULATING VALVE	CS	DIAMETER OR FLAT OVAL	DCA	DOUBLE CHECK ATMOSPHERIC	GPH	GALLONS PER HOUR	FF	PADDLE FAN TAG	VTR	VENT THRU ROOF
TEE UP	PIPE TEE UP	MOD	MODULATING VALVE	CS	FIRE DAMPER	DEC F	DEGREES FAHRENHEIT	GPM	GALLONS PER MINUTE	FSIA	FOUNDS PER SQUARE INCH ABSOLUTE	V/PH/Hz	VOLTS/PHASES/HERTZ
TEE DOWN	PIPE TEE DOWN	MOD	MODULATING VALVE	CS	ROUND OR FLAT OVAL DUCT DOWN	DIA	DIAMETER	HC	HEATING COIL TAG	FSIG	FOUNDS PER SQUARE INCH GAGE	WB	WET BULB
REDUCER	PIPE REDUCER	MOD	MODULATING VALVE	CS	ROUND OR FLAT OVAL DUCT UP	DIW	DOWN IN WALL	HP	HORSEPOWER	PVC	POLYVINYL CHLORIDE (PIPE)	WCO	WALL CLEANOUT
GUIDE	PIPE WITH GUIDE	MOD	MODULATING VALVE	CS	SUPPLY DIFFUSER	DN	DOWN	HRV	HEAT RECOVERY VENTILATOR TAG	RA	RETURN AIR	WG	WATER GAGE
ANCHOR	PIPE WITH ANCHOR	MOD	MODULATING VALVE	CS	RETURN GRILLE	EA	EXHAUST AIR	HU	HOT WATER	RD	ROOF DRAIN	WPD	WATER PRESSURE DROP
BUTTERFLY	BUTTERFLY VALVE	MOD	MODULATING VALVE	CS	STEAM TRAP	EAT	ENTERING AIR TEMPERATURE	HWS/R	HOT WATER SUPPLY AND RETURN	RDE	RECOMMENDED DUAL ELEMENT	WPA	WATER PIPING ABOVE FLOOR
4 Y GATE	OS 4 Y GATE VALVE	MOD	MODULATING VALVE	CS	WATER HAMMER ARRESTOR					RHW	RECIRCULATED HOT WATER	W	WITH



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