

ENERGY RECOVERY VENTILATOR PERFORMANCE SCHEDULE																																			
TAG	AIR STREAM	DUCT CONNECTIONS		UNIT AIRFLOW					ENERGY RECOVERY WHEEL - WINTER							ENERGY RECOVERY WHEEL - SUMMER							HEATING							ELECTRICAL DATA				BASIS OF DESIGN - GREENHECK	
		ENTERING	LEAVING	CFM	E.S.P. (INUG)	T.S.P. (INUG)	H.P.	B.H.P.	E.D.B. (°F)	E.W.B. (°F)	L.D.B. (°F)	L.W.B. (°F)	RH (%)	EFF. (%)	E.D.B. (°F)	E.W.B. (°F)	L.D.B. (°F)	L.W.B. (°F)	RH (%)	EFF. (%)	E.W.T. (°F)	L.W.T. (°F)	ROUS	FLOW (GPM)	UPD (FTUG)	CAP. (MBH)	APD (INUG)	VALVE	PREHEAT KW	M.C.A.	BREAKER	VOLTAGE	WEIGHT (LBS)	MODEL	
ERV-1	SUPPLY	END	SIDE	1900	0.15	2.11	3	2.3	-10.0	-10.9	52.6	42.0	-	-	81.0	14.0	11.8	66.5	-	-	160.0	131.8	1	3.0	0.1	41.6	0.05	V-2	5	25.5	35	480/3/60	3000	ERCH-20H-30	
	EXHAUST	SIDE	SIDE	1900	0.15	1.05	2	1.6	72.0	-	9.4	9.0	25	76.3	75.0	-	84.2	71.9	55	76.3															
ERV-2	SUPPLY	END	BOTTOM	2200	0.15	1.18	3	2.1	-10.0	-10.9	56.1	44.0	-	-	81.0	14.0	11.3	66.0	-	-	160.0	130.0	1	4.0	0.1	58.3	0.03	V-2	10	26.9	35	480/3/60	4500	ERCH-45L-15	
	EXHAUST	BOTTOM	SIDE	2200	0.15	0.89	1-1/2	1.0	72.0	-	5.9	5.1	25	80.6	75.0	-	84.1	71.9	55	80.6															

PROVIDE EACH WITH PACKAGED DX COOLING COIL AND CONDENSER AND INTERNAL PIPING CONNECTIONS.

GAS BOILER PERFORMANCE SCHEDULE													
TAG	INPUT (MBH)	HEATING CAPACITY (MBH)	PRESS. DROP (FT HD)	FUEL	EFF. (%)	INTAKE/ VENT(IN)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN - HYDROTHERM			
							AMP	WATTS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL	
B-1	1000.0	880.0	10.0	NAT GAS	92.1	6"18"	8.0	-	120/1/60	HWS/R		KN-10	
B-2	1000.0	880.0	10.0	NAT GAS	92.1	6"18"	8.0	-	120/1/60	HWS/R		KN-10	

UNIT HEATER PERFORMANCE SCHEDULE													
TAG	OUTPUT (MBH)	FLOW RATE (GPM)	WPD (FTUG)	AIRFLOW (CFM)	THROW	MTGHT. (FEET)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN - STERLING			
							HP	AMPS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL	
UH-1	31.3	2.0	0.24	1400	-	*	1/20	2.0	120/1/60	MULTIPLE	HORIZONTAL	HS-84	

* AS HIGH AS POSSIBLE.

CABINET UNIT HEATER PERFORMANCE SCHEDULE													
TAG	OUTPUT (MBH)	FLOW RATE (GPM)	WPD (FTUG)	AIRFLOW (CFM)	THROW	MTGHT. (FEET)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN - STERLING			
							HP	AMPS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL	
CUH-1	21.2	2.0	0.38	330	-	*	1/15	0.9	120/1/60	MULTIPLE	INV. REC. WALL	RW-1130-03	
CUH-2	21.2	2.0	0.38	330	-	*	1/15	0.9	120/1/60	MULTIPLE	INV. WALL	WI-1110-03	
CUH-3	21.2	2.0	0.38	330	-	*	1/15	0.9	120/1/60	MULTIPLE	CEILING	C-1140-03	

* REFER TO ARCHITECTURAL DRAWINGS, TYP. 6" AFF.
PROVIDE EACH UNIT W/ DISCONNECT SWITCH AND FILTERS.

ELECTRONIC TEMPERATURE MIXING VALVE PERFORMANCE SCHEDULE													
TAG	FLOW RATE (GPM)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	WPD (PSIG)	SET POINT (DEGREES F)	PROVIDE SPARE CARTRIDGE (Y) OR (N)	BASIS OF DESIGN - HEAT-TIMER				SERVICE	ARRANGEMENT	MODEL
ETMV-1	56.0	1-1/4"	1-1/4"	9.0	120°F	-	DOM HW	WALL					ETV-1-1/4"

PROVIDE WITH HEAT-TIMER TEMPERATURE MONITORING CONTROL (TMC).

WALL HEATER PERFORMANCE SCHEDULE					HEATING PERFORMANCE BASED ON 160°F ENTERING WATER & 60°F ENTERING AIR TEMPERATURE				
TAG	OUTPUT (MBH)	FLOW RATE (GPM)	WPD (FT/UG)	AIRFLOW (CFM)	BASIS OF DESIGN - BEACON MORRIS				
					AMPS	V/PH/Hz	VALVE	SERVICE	MODEL
WH-1	10.4	2.0	1.5	115	15	120/1/60	N/A	HEAT	WJ20

SPLIT-SYSTEM CONDENSING UNIT PERFORMANCE SCHEDULE													
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 (BEL)	SERVICE	MODEL
SCU-1	22.0	R-410A	-	14"	33x14	121	15.8	20.0	230/1/60	-	54	COMMUNITY ROOM	RX24FVJU

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	ABBREVIATION	DESCRIPTION
	COMPRESSED AIR PIPING (CA)		BACKFLOW PREVENTER (BFP)		PRESSURE GAGE WITH GAGE COCK	AAV	AUTOMATIC AIR VENT	EDC-*	ELECTRIC DUCT COIL TAG	IFUH-*	INDIRECT FIRED WATER HEATER TAG	RLA	RUNNING LOAD AMPS		
	CONDENSATE DRAIN PIPING (C)		CHECK VALVE		THERMOMETER IN WELL	AD	ACCESS DOOR	EER	ENERGY EFFICIENCY RATIO	IN.	INCHES	RPM	REVOLUTIONS PER MINUTE		
	COOLING TOWER RETURN PIPING (CTR)		BALANCING VALVE (ADJUSTABLE)		WATER FLOW SWITCH	AFF	ABOVE FINISHED FLOOR	EF-*	EXHAUST FAN TAG	IV-*	INTAKE VENT TAG	RPS	REVOLUTIONS PER SECOND		
	COOLING TOWER SUPPLY PIPING (CTS)		AUTOMATIC FLOW CONTROL VALVE		PRESSURE SWITCH OR SENSOR	AHU-*	AIR HANDLING UNIT TAG	EFF	EFFICIENCY	L-*	LOUVER TAG	RPZ	REDUCED PRESSURE ZONE		
	CHILLED WATER RETURN PIPING (CUR)		RELIEF VALVE (RV)		IMPRESSION TEMPERATURE SENSOR	AMS	AIRFLOW MONITORING STATION	EG-*	EXHAUST GRILLE TAG	LAT	LEAVING AIR TEMPERATURE	RR-*	RETURN REGISTER TAG		
	CHILLED WATER SUPPLY PIPING (CWS)		BALL VALVE		DUCT MOUNTED SMOKE DETECTOR	AMPS	AMPERES	ER-*	EXHAUST REGISTER TAG	LB	POUNDS	RTU	ROOM TEMPERATURE SENSOR		
	FUEL OIL RETURN PIPING (FOR)		BALL VALVE		ROOM TEMPERATURE SENSOR	AP	ACCESS PANEL	E9P	EXTERNAL STATIC PRESSURE	LD-*	LINEAR DIFFUSER TAG	RV	RELIEF VALVE		
	FUEL OIL SUPPLY PIPING (FOS)		3/4" BALL VALVE WITH 3/4" HOSE END		THERMOSTAT OR SENSOR ON WALL	APD	AIR PRESSURE DROP	ET-*	EXPANSION TANK TAG	LTHWS/R	LOW TEMPERATURE HOT WATER	RUL	RAINWATER LEADER		
	GAS PIPING (G)		GATE VALVE		TSTAT OR SENSOR W/ TAMPERPROOF GUARD	AS-*	AIR SEPARATOR TAG	EUB	ENTERING WET BULB	LRA	LOCKED ROTOR AMPS	SA	SUPPLY AIR		
	HOT WATER RETURN PIPING (HUR)		STRAINER W/BLOWDOWN BALL VALVE		MANUAL AIR VENT	ATC	AUTOMATIC TEMPERATURE CONTROL	EWH-*	ELECTRIC WATER HEATER TAG	LWCO	LOW WATER CUTOUT	SAN	SANITARY (DRAIN & WASTE)		
	HOT WATER SUPPLY PIPING (HWS)		SOLENOID VALVE		NOTE TAG (NUMBER)	BD-*	BOILER TAG	EUT	ENTERING WATER TEMPERATURE	LWT	LEAVING WATER TEMPERATURE	SD	SMOKE DAMPER		
	REFRIGERANT LIQUID PIPING (RL)		3-WAY CONTROL VALVE		AIR DEVICE TAG (LETTER) WITH CFM	BFP-*	BYPASS DAMPER TAG	EXG	EXISTING	MAX	MAXIMUM	SEER	SEASONAL ENERGY EFFICIENCY RATIO		
	REFRIGERANT GAS PIPING (RG)		3-WAY CONTROL VALVE (TOP VIEW)		ROOM NUMBER	CBF-*	BACKFLOW PREVENTER TAG	EXH	EXHAUST	MBH	THOUSANDS OF BTU PER HOUR	SF	SUPPLY FAN		
	SANITARY PIPING BELOW FLOOR (SAN)		4-WAY CONTROL VALVE		TURNING VANES	CBD	BRAKE HORSEPOWER	FC	FLEXIBLE CONNECTION	MCA	MINIMUM CIRCUIT AMPACITY	SG-*	SUPPLY GRILLE TAG		
	SANITARY PIPING ABOVE FLOOR (SAN)		LAGGED DUCT		DUCT W/FLEXIBLE CONNECTION (FC)	CC-*	COOLING COIL TAG	FCO	FLOOR CLEANOUT	MIN	MINIMUM	SP	STATIC PRESSURE		
	SANITARY VENT PIPING		DUCT W/ACOUSTIC LINING		COUNTER BALANCED DAMPER	CFM	CUBIC FEET PER MINUTE	FD	FIRE DAMPER	NC	NOISE CRITERION	SP-*	SUMP PUMP TAG		
	RAINWATER LEADER ABOVE SLAB (RUL)		BUTTERFLY VALVE W/ACTUATOR		COOLING COIL TAG	CHLR-*	CHILLER TAG	FD-*	FLOOR DRAIN TAG	NIC	NOT IN CONTRACT	SR-*	SUPPLY REGISTER TAG		
	COLD WATER PIPING (CWL)		FLEXIBLE DUCT		CUBIC FEET PER MINUTE	CO	CLEANOUT	FLA	FULL LOAD AMPS	NTS	NOT TO SCALE	SOFT	SQUARE FEET		
	HOT WATER PIPING (HW)		MOTOR OPERATED DAMPER		CHILLER TAG	CONV-*	CONVECTOR TAG	FOR	FUEL OIL RETURN	OA	OUTSIDE AIR	ΔT	TEMPERATURE DIFFERENTIAL		
	RECIRCULATED HOT WATER PIPING (RHW)		PIPE CAP		FROST PROOF HOSE BIBB	CU	COLD WATER	FPHB	FUEL OIL SUPPLY	OBD	OPPOSED BLADE DAMPER	TEMP.	TEMPERATURE		
	PIPE CAP		UNION		OIL FIRED WATER HEATER TAG	CUH-*	CHILLED WATER SUPPLY AND RETURN	FFM	FEET PER MINUTE	OD.	OUTSIDE DIAMETER	TCP	TEMPERATURE CONTROL PANEL		
	DIRECTION OF FLUID FLOW		PIPE FLANGE		FLOOR SINK TAG	CP-*	CIRCULATING PUMP TAG	FS-*	FLOOR SINK TAG	OED	OPEN ENDED DUCT	TMV-*	THERMOSTATIC MIXING VALVE TAG		
	ELBOW UP		PUMP WITH FLANGES		FIRE DAMPER	CT-*	COOLING TOWER TAG	FT	FEET	OFUH-*	OVERFLOW WATER HEATER TAG	TSP	TOTAL STATIC PRESSURE		
	ELBOW DOWN		BASE MOUNTED PUMP		FINITUBE RADIATION TAG	Cv	VALVE COEFFICIENT	FTR-*	FINTUBE RADIATION TAG	P-*	PLUMBING FIXTURE TAG	TYP	TYPICAL		
	PIPE TEE UP		CARTRIDGE TYPE INLINE PUMP		GAGE	CW	COLD WATER	GA	GAGE	PENETN	PENETRATION	UH-*	UNIT HEATER TAG		
	PIPE TEE DOWN		FLEXIBLE PIPE CONNECTION (FC)		GALLONS PER HOUR	CHWS/R	CHILLED WATER SUPPLY AND RETURN	GAL	GALLONS	FF-*	PADDLE FAN TAG	VAV-*	VARIABLE AIR VOLUME BOX TAG		
	PIPE REDUCER		DECIBELS RELATIVE TO		GALLONS PER MINUTE	DB	DRY BULB	GPH	GALLONS PER HOUR	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	VB	VACUUM BREAKER		
	PIPE WITH GUIDE		GALLONS PER MINUTE		GALLONS PER MINUTE	DCA	DOUBLE CHECK	GPM	GALLONS PER MINUTE	PSIG	POUNDS PER SQUARE INCH GAGE	VFD	VARIABLE FREQUENCY INVERTER DRIVE		
	PIPE WITH ANCHOR		GAS UNIT HEATER TAG		HEATING COIL TAG	DEG F	DEGREES FAHRENHEIT	GUH-*	GAS UNIT HEATER TAG	PVC	POLYVINYL CHLORIDE (PIPE)	VTR	VENT THRU ROOF		
	BUTTERFLY VALVE		HEAT RECOVERY VENTILATOR TAG		HORSEPOWER	DIA	DIAMETER	HC-*	HEATING COIL TAG	RA	RETURN AIR	W	VOLTS/PHASES/HERTZ		
	OS & Y GATE VALVE		HOT WATER SUPPLY AND RETURN		HOT WATER SUPPLY AND RETURN	DN	DOWN IN WALL	HRV-*	HEAT RECOVERY VENTILATOR TAG	RD	ROOF DRAIN	WET	WET BULB		
			HOT WATER SUPPLY AND RETURN		HOT WATER SUPPLY AND RETURN	EA	EXHAUST AIR	HW	HOT WATER	RDE	RECOMMENDED DUAL ELEMENT FUSE AMPS	WCO	WALL CLEANOUT		
			INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS		HOT WATER SUPPLY AND RETURN	EAT	ENTERING AIR TEMPERATURE	RFM-*	RADIANT FLOOR MANIFOLD TAG	RG-*	RETURN GRILLE TAG	UG	WATER GAGE		
					HOT WATER SUPPLY AND RETURN	EDB	ENTERING DRY BULB	RHW	RECIRCULATED HOT WATER			WTD	WATER TEMPERATURE DROP		
												W	WIRE SIZING AMPS		
												ZD-*	WATER TEMPERATURE DROP WITH ZONE DAMPER TAG		

