

**PACKAGED ENERGY RECOVERY VENTILATOR PERFORMANCE SCHEDULE**

TAG	AIR STREAM	DUCT CONNECTIONS		UNIT AIRFLOW				ENERGY RECOVERY WHEEL - WINTER					ENERGY RECOVERY WHEEL - SUMMER					INDIRECT GAS HEATING			DX COOLING			ELECTRICAL DATA			BASIS OF DESIGN - GREENHECK			
		ENTERING	LEAVING	CFM	E.S.P. (INUC)	T.S.P. (INUC)	H.P.	B.H.P.	E.D.B. (°F)	E.W.B. (°F)	L.D.B. (°F)	L.W.B. (°F)	EFF. (%)	E.D.B. (°F)	E.W.B. (°F)	L.D.B. (°F)	L.W.B. (°F)	EFF. (%)	FURNACE SIZE	OUTPUT (MBH)	L.A.T. (°F)	TOTAL (MBH)	L.A.T. (°F)	TONNAGE	PREHEAT KW	M.C.A.	BREAKER	VOLTAGE	WEIGHT (LBS)	MODEL
ERV-1	SUPPLY	HOOD	BOTTOM	2500	1.0	1.6	2.0	1.6	-5.0	-6.2	55.8	43.8	18.9	81.0	14.0	11.5	66.4	18.9	100.0	65.0	10.0	100.5	53.0	4.0	8.2	56.1	100.0	208/3/60	3000	ERCH-45L-15
	EXHAUST	BOTTOM	HOOD	2500	1.0	1.2	2.0	1.4	12.0	-	11.2	10.3	18.9	75.0	-	-	-	18.9												
ERV-2	SUPPLY	HOOD	BOTTOM	3500	1.0	2.1	3.0	2.1	-5.0	-6.2	49.2	39.8	10.4	81.0	14.0	18.6	67.3	10.4	100.0	79.0	10.0	164.4	53.0	6.25	8.2	85.4	100.0	208/3/60	3250	ERCH-45H-15
	EXHAUST	BOTTOM	HOOD	3500	1.0	1.3	3.0	2.1	12.0	-	11.8	16.2	10.4	75.0	-	83.4	11.3	10.4												
ERV-3	SUPPLY	HOOD	BOTTOM	3250	1.0	2.1	3.0	2.3	-5.0	-6.2	50.2	40.5	11.1	81.0	14.0	18.4	67.1	11.1	100.0	79.0	10.0	164.4	53.0	6.25	8.2	85.5	100.0	208/3/60	3250	ERCH-45H-15
	EXHAUST	BOTTOM	HOOD	3250	1.0	1.3	3.0	2.1	12.0	-	16.8	15.3	11.1	75.0	-	83.6	11.5	11.1												

**WATER SOURCE HEAT PUMP PERFORMANCE SCHEDULE**

TAGS (HP-#)	ARRANG.	NOMINAL SIZE (TONS)	UNIT AIRFLOW				WATER COIL			HEAT PUMP - HEATING				HEAT PUMP - COOLING				ELECTRICAL DATA			BASIS OF DESIGN - MCQUAY							
			S.A. CFM	E.S.P. (INUC)	FAN HP.	ECM	FLOW (GPM)	W.P.D. (FTUG)	VALVE	E.D.B. (°F)	L.D.B. (°F)	E.W.T. (°F)	L.W.T. (°F)	CAP. (MBH)	COP	E.D.B. (°F)	E.W.B. (°F)	E.W.T. (°F)	L.W.T. (°F)	TOT. (MBH)	SENS. (MBH)	EER	M.C.A.	BREAKER	VOLTAGE	WEIGHT (LBS)	REMARKS	MODEL
201202,204-216,218,236,237, 301302,304-316,318-321, 376-379,401,402,404-416, 418-421,426-429,501,502, 504-516,518-521,526-529, 601,602,604-616,618-621, 626-629,103,106,107	VERTICAL STACK	0.75	325	0.12	0.06	N	2.0	5.2	V-1 V-11	10.0	96.4	10.0	60.6	10.6	5.23	80.0	67.0	88.0	99.8	9.3	8.3	13.6	5.1	15.0	208/1/60	181	1/4"LU/S/R, 1" C RETURN AIR GRILLE / ACCESS DOOR	UVHC1009
200300,400,500,600, 101,104,105,108,109, 110,111	VERTICAL STACK	2.0	750	0.32	0.12	Y	5.0	1.4	V-2 V-12	10.0	107.1	10.0	62.2	29.9	4.93	80.0	67.0	88.0	97.9	24.4	18.8	14.9	19.1	30.0	208/1/60	313	3/4"LU/S/R, 1" C RETURN AIR GRILLE / ACCESS DOOR	UVHC1024
203221,231A,231B,303, 403,503,603,101	VERTICAL STACK	2.5	1050	0.02	0.20	Y	6.0	3.1	V-3 V-13	10.0	101.6	10.0	59.9	35.1	4.81	80.0	67.0	88.0	100.4	28.6	24.2	14.6	21.9	35.0	208/1/60	321	3/4"LU/S/R, 1" C RETURN AIR GRILLE / ACCESS DOOR	UVHC1030
116,117,225	CONSOLE	15	392	0.00	0.05	N	2.5	3.9	V-1	10.0	119.1	10.0	56.4	20.1	4.53	80.0	67.0	88.0	104.1	16.6	11.0	13.4	9.5	15.0	208/1/60	171	3/4"LU/S/R, 3/4" C	UVHC1018
132	HORIZ.	0.75	300	0.50	0.125	N	2.0	5.8	V-1	10.0	107.5	10.0	60.6	12.1	4.31	80.0	67.0	88.0	98.9	8.2	5.9	10.9	5.8	15.0	208/1/60	99	1/2"LU/S/R, 3/4" C	UVCH4009
108	HORIZ.	15	630	0.75	0.33	Y	4.0	4.5	V-2	10.0	106.1	10.0	60.4	24.5	4.6	80.0	67.0	88.0	100.8	20.2	15.4	12.8	10.9	15.0	208/1/60	195	1/2"LU/S/R, 3/4" C	UVCH4019
124,133	HORIZ.	2.0	800	0.45	0.33	Y	5.0	7.1	V-2	10.0	103.9	10.0	60.9	29.2	4.6	80.0	67.0	88.0	99.9	23.4	16.8	12.6	12.1	15.0	208/1/60	195	1/2"LU/S/R, 3/4" C	UVCH4024
107	HORIZ.	3.0	1200	0.5	0.5	Y	8.0	6.4	V-4	10.0	102.9	10.0	61.1	42.5	4.6	80.0	67.0	88.0	99.1	35.9	25.8	14.5	25.1	40.0	208/1/60	223	3/4"LU/S/R, 3/4" C	UVCH5036
113A,113B	HORIZ.	6.0	2330	0.35	1.0	Y	15.0	11.7	V-5	10.0	105.0	10.0	61.1	81.9	4.1	80.0	67.0	88.0	100.0	69.8	50.6	12.0	40.3	65.0	208/3/60	332	3/4"LU/S/R, 3/4" C	UVCH4070

PROVIDE WITH CONDENSATE PUMPS WHERE REQUIRED.

**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
	COMPRESSED AIR PIPING (CA)		BACKFLOW PREVENTER (BFP)		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
	CONDENSATE DRAIN PIPING (C)		CHECK VALVE		THERMOMETER IN WELL	AD	ACCESS DOOR	EDC	ELECTRIC DUCT COIL TAG			RPM	REVOLUTIONS PER MINUTE
	COOLING TOWER RETURN PIPING (CTR)		BALANCING VALVE (ADJUSTABLE)		WATER FLOW SWITCH	AFF	ABOVE FINISHED FLOOR	EER	ENERGY EFFICIENCY RATIO	IFWH	INDIRECT FIRED WATER HEATER TAG	RFS	REVOLUTIONS PER SECOND
	COOLING TOWER SUPPLY PIPING (CTS)		AUTOMATIC FLOW CONTROL VALVE		PRESSURE SWITCH OR SENSOR	AHU	AIR HANDLING UNIT TAG	EF	EXHAUST FAN TAG	IN	INCHES	RPZ	REDUCED PRESSURE ZONE
	CHILLED WATER RETURN PIPING (CWR)		RELIEF VALVE (RV)		IMMERSION TEMPERATURE SENSOR	AMS	AIRFLOW MONITORING STATION	EFF	EFFICIENCY	IV	INTAKE VENT TAG	RR	RETURN REGISTER TAG
	CHILLED WATER SUPPLY PIPING (CWS)		BALL VALVE		DUCT MOUNTED SMOKE DETECTOR	AMPS	AMPERES	EG	EXHAUST GRILLE TAG	L	LOUVER TAG	RTU	ROOM TEMPERATURE SENSOR
	FUEL OIL RETURN PIPING (FOR)		BALL VALVE		ROOM TEMPERATURE SENSOR	AP	ACCESS PANEL	ER	EXHAUST REGISTER TAG	LAT	LEAVING AIR TEMPERATURE	RV	RELIEF VALVE
	FUEL OIL SUPPLY PIPING (FOS)		3/4" BALL VALVE WITH 3/4" HOSE END		TSTAT OR SENSOR W/ TAMPERPROOF GUARD	APD	AIR PRESSURE DROP	ESP	EXTERNAL STATIC PRESSURE	LB	POUNDS	RWL	RAINWATER LEADER
	GAS PIPING (G)		GATE VALVE		MANUAL AIR VENT	AS	AIR SEPARATOR TAG	ET	EXPANSION TANK TAG	LD	LINEAR DIFFUSER TAG	SA	SUPPLY AIR
	HOT WATER RETURN PIPING (HWR)		PRESSURE REDUCING VALVE		NOTE TAG (NUMBER)	ATC	AUTOMATIC TEMPERATURE CONTROL	EUB	ENTERING WET BULB	LTHUS/R	LOW TEMPERATURE HOT WATER	SAN	SANITARY (DRAIN & WASTE)
	HOT WATER SUPPLY PIPING (HWS)		FUSIBLE VALVE		ROOM NUMBER	B	BOILER TAG	EWH	ELECTRIC WATER HEATER TAG	LRA	LOCKED ROTOR AMPS	SD	SMOKE DAMPER
	REFRIGERANT LIQUID PIPING (RL)		STRAINER W/BLOWDOWN BALL VALVE		AIR DEVICE TAG (LETTER) WITH CFM	BD	BYPASS DAMPER TAG	EWT	ENTERING WATER TEMPERATURE	LWT	LOW WATER CUTOUT	SEER	SEASONAL ENERGY EFFICIENCY RATIO
	REFRIGERANT GAS PIPING (RG)		2-WAY CONTROL VALVE		ROOM NUMBER	BFP	BACKFLOW PREVENTER TAG	EXG	EXISTING	LWU	LEAVING WATER TEMPERATURE	SF	SUPPLY FAN
	SANITARY PIPING BELOW FLOOR (SAN)		3-WAY CONTROL VALVE		TURNING VANES	BHP	BRAKE HORSEPOWER	EXH	EXHAUST	MAX	MAXIMUM	SG	SUPPLY GRILLE TAG
	SANITARY PIPING ABOVE FLOOR (SAN)		3-WAY CONTROL VALVE (TOP VIEW)		DUCT W/MANUAL DAMPER	BTUH	BRITISH THERMAL UNITS PER HOUR	FC	FLEXIBLE CONNECTION	MBH	THOUSANDS OF BTU PER HOUR	SP	STATIC PRESSURE
	SANITARY VENT PIPING		DUCT W/FLEXIBLE CONNECTION (FC)		COUNTER BALANCED DAMPER	CBD	COUNTER BALANCED DAMPER	FCO	FLOOR CLEANOUT	MCA	MINIMUM CIRCUIT AMPACITY	SP	SUMP PUMP TAG
	RAINWATER LEADER ABOVE SLAB (RUL)		LAGGED DUCT		COOLING COIL TAG	CC	COOLING COIL TAG	FD	FIRE DAMPER	MIN	MINIMUM	SR	SUPPLY REGISTER TAG
	COLD WATER PIPING (CW)		DUCT W/ACOUSTIC LINING		CUBIC FEET PER MINUTE	CFM	CUBIC FEET PER MINUTE	FD	FLOOR DRAIN TAG	NC	NOISE CRITERION	SQFT	SQUARE FEET
	HOT WATER PIPING (HW)		DUCT W/SQUARE-TO-ROUND TRANSITION		CHILLER TAG	CHLR	CHILLER TAG	FLA	FULL LOAD AMPS	NIC	NOT IN CONTRACT	TEMP	TEMPERATURE DIFFERENTIAL
	RECIRCULATED HOT WATER PIPING (RHW)		FLEXIBLE DUCT		CLEANOUT	CO	CLEANOUT	FOR	FUEL OIL SUPPLY	NTS	NOT TO SCALE	TEMP	TEMPERATURE
	PIPE CAP		MOTOR OPERATED DAMPER		CONVECTOR TAG	CONV	CONVECTOR TAG	FOS	FUEL OIL SUPPLY	OA	OUTSIDE AIR	TCP	TEMPERATURE CONTROL PANEL
	DIRECTION OF FLUID FLOW		AIRFLOW OUT		CABINET UNIT HEATER TAG	CUH	CABINET UNIT HEATER TAG	FFHB	FROST PROOF HOSE BIBB	OBD	OPPOSED BLADE DAMPER	TMV	THERMOSTATIC MIXING VALVE TAG
	ELBOW UP		AIRFLOW IN		CIRCULATING PUMP TAG	CP	CIRCULATING PUMP TAG	FFM	FEET PER MINUTE	OD	OUTSIDE DIAMETER	TSP	TOTAL STATIC PRESSURE
	ELBOW DOWN		FIRE DAMPER		COOLING TOWER TAG	CT	COOLING TOWER TAG	FS	FLOOR SINK TAG	OED	OPEN ENDED DUCT	TYP	TYPICAL
	PIPE TEE UP		ROUND OR FLAT OVAL DUCT DOWN		VALVE COEFFICIENT	Cv	VALVE COEFFICIENT	FT	FEET	ORUH	OIL FIRED WATER HEATER TAG	UH	UNIT HEATER TAG
	PIPE TEE DOWN		ROUND OR FLAT OVAL DUCT UP		COLD WATER	CW	COLD WATER	FTR	FINTUBE RADIATION TAG	OPD	OVERCURRENT PROTECTIVE DEVICE	VAV	VARIABLE AIR VOLUME BOX TAG
	PIPE REDUCER		RETURN GRILLE		CHILLED WATER SUPPLY AND RETURN	CHWS/R	CHILLED WATER SUPPLY AND RETURN	GAL	GALLONS	PEN	PENETRATION	VB	VACUUM BREAKER
	PIPE WITH GUIDE		DRY BULB		GAGE	GA	GAGE	GAL	GALLONS	FENETN	FENESTRATION	VFD	VARIABLE FREQUENCY INVERTER DRIVE
	PIPE WITH ANCHOR		DECIBELS RELATIVE TO DOUBLE CHECK		GAS FIRED WATER HEATER TAG	GFWH	GAS FIRED WATER HEATER TAG	GPH	GALLONS PER HOUR	FF	PADDLE FAN TAG	VTR	VENT THRU ROOF
	BUTTERFLY VALVE		DOUBLE CHECK ATMOSPHERIC		GALLONS PER MINUTE	GPM	GALLONS PER MINUTE	GPH	GALLONS PER HOUR	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	V/PH/HZ	VOLTS/PHASES/HERTZ
	OS & Y GATE VALVE		DEGREES FAHRENHEIT		GAS UNIT HEATER TAG	GUH	GAS UNIT HEATER TAG	PSIG	POUNDS PER SQUARE INCH GAGE	RA	RADIANT FLOOR TAG	WB	WET BULB
			PITCH DOWN		HEATING COIL TAG	HC	HEATING COIL TAG	PVC	POLYVINYL CHLORIDE (PIPE)	RD	ROOF DRAIN	WCO	WALL CLEANOUT
			PETCOCK		HORSEPOWER	HP	HORSEPOWER	RA	RETURN AIR	RDE	RECOMMENDED DUAL ELEMENT FUSE AMPS	UG	WATER GAGE
			FLOW METER		HEAT RECOVERY VENTILATOR TAG	HRV	HEAT RECOVERY VENTILATOR TAG	RD	ROOF DRAIN	RFM	RADIANT FLOOR MANIFOLD TAG	UPD	WATER PRESSURE DROP
					STEAM TRAP	ST	STEAM TRAP	RDE	RECOMMENDED DUAL ELEMENT FUSE AMPS	RFM	RADIANT FLOOR MANIFOLD TAG	USA	WIRE SIZING AMPS
					WATER HAMMER ARRESTOR	WA	WATER HAMMER ARRESTOR	RW	RECIRCULATED HOT WATER	RG	RETURN GRILLE TAG	UTD	WATER TEMPERATURE DROP
					HUMIDISTAT	HUM	HUMIDISTAT	W	WITH	W	WITH	WTH	WATER TEMPERATURE DROP
								ZD	ZONE DAMPER TAG				

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Project Title  
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