

ENERGY RECOVERY VENTILATOR																											
MARK	MODEL	SUPPLY		EXHAUST		COOLING				HEATING				REHEAT COIL				MTR. HP	VOLT / PH / HZ	MCA	MOP	UNIT WEIGHT LBS.	ACCESSORIES				
		CFM	ESP	CFM	ESP	THEBY / (B/D)	EAT °F (DB)	LAT °F (DB)	GPW F.T.	EAT °F (DB)	LAT °F (DB)	GPW F.T.	THEBY / (B/D)	EAT °F (DB)	LAT °F (DB)	GPW F.T.											
ERV-1	TRANE MCEB01	8200	10	7080	10	316.8/254.2	82.3/66.6	55.0/54.6	700	11.8	45	55	31.4	168	45	324.6	48.5	55.0	11.6	2.0	10	10 / 15	460 / 3 / 60	.	400	2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19	
ERV-2	SPKO RV-4000T5	3400	10	2800	10	378/146	82.6/67.8	54.4/53.4	304	12.3	45	54.8	76	11	45	174.7	45.3	55.0	12	1.4/2	10	3 / 3	460 / 3 / 60	10.8	30	200	1, 2, 3, 4, 5, 6, 1, 8, 10, 14

1. PROVIDE GEAR AND JUMP WITH SPRING CHARGE.
2. PROVIDE VEERY 13 FILTERS (TWO SETS).
3. 1-INCH NARTE FACED REGULATION.
4. BELT DRIVEN WITH EXTRA SET OF BELTS.
5. EXTERNAL AUTO STOP.
6. DAMPER AND TWO POSITION
7. PROVIDE FULL PERVERTER VIBRATION ISOLATION RAILS.
8. PROVIDE MANUAL BALANCING VALVES NOT AUTOMATICALLY
9. PROVIDE FACTORY THREE WAY VALVE AT THE COOLING
4. AND REPEAT COILS.

EXHAUST FAN SCHEDULE									
MARK	MODEL	CFM	E.S.P. IN. WC	H.P.	V.L.T. / H. / I.Z.	ZONE	RPM	UNIT WEIGHT LBS.	ACCESSORIES
EF-1	CATVTEAIRE	1575	.9	1/2	208 / 3 / 60	.	1024	225	1, 2, 3, 4, 5, 6, 7, 8
EF-2	CATVTEAIRE	1575	.9	1/2	208 / 3 / 60	.	1024	225	1, 2, 3, 4, 5, 6, 7, 8
EF-3	CATVTEAIRE	1580	.9	1/2	120 / 11 / 60	.	1156	120	2, 4, 10, 11
EF-4	TWIN CITY	DCBD606B	.375	1/8	120 / 11 / 60	6, 6	1660	120	2, 11, 12, 13, 15, 17
EF-5	TWIN CITY	BCBD200	.480	5	120 / 11 / 60	8, 2	1044	225	2, 12, 16, 18
EF-6	TWIN CITY	1200H	.150	.75	1/4	120 / 11 / 60	4.1	744	80
EF-7	TWIN CITY	1200H	.425	.5	1/4	120 / 11 / 60	4.2	962	100
EF-8	TWIN CITY	1200H	.150	.75	1/4	120 / 11 / 60	4.1	744	80
EF-9	TWIN CITY	1200H	.395	.5	1/2	120 / 11 / 60	3.4	826	100
EF-10	TWIN CITY	1200H	.625	.375	1/2	120 / 11 / 60	5.1	945	100
EF-11	TWIN CITY	1200H	1.000	.625	3/4	120 / 11 / 60	5.3	945	125

1. INTERLOCK KITCHEN EXHAUST FANS) AND WAVE UP AIR UNITS) BY ELECTRICAL CONTRACTOR.
2. PROVIDE 30 IN. HIGH FACTORY ROOF CURB.
3. PROVIDE FACTORY NIBBED BASE.
4. PROVIDE FACTORY NIBBED BASE.
5. PROVIDE FACTORY GASKET BOX.
6. INTERLOCK HOOD FAN, REFER TO SHEET N-4 FOR HOOD DETAIL.
7. WAVE UP CURB OF KITCHEN HOOD WAVE UP AIR EXHAUST PACKAGE.
8. STEEL CONSTRUCTION.
9. DISMISWATER PAN, REFER TO SHEET N-4 FOR HOOD DETAIL.
10. PROVIDE FACTORY DISMISWATER DRAIN.
11. PROVIDE FACTORY AIR SPEED CONTROLLER.
12. PROVIDE FACTORY BACK DRAFT DAMPER.
13. PROVIDE FACTORY RUBBER-IN-SHEAR VIBRATION DAMPENING HANGERS.
14. PROVIDE FACTORY RUBBER-IN-SHEAR VIBRATION DAMPENING HANGERS.
15. INTERLOCK EXHAUST FAN WITH LIGHT SWITCH BY ELECTRICAL CONTRACTOR.
16. PROVIDE LINE VOLTAGE THERMOSTAT MIBED BY ELECTRICAL CONTRACTOR.
17. PROVIDE BELT DRIVE FAN.
18. PROVIDE FACTORY METAL GULLIE.

UNIT HEATER SCHEDULE									
MARK	MODEL	HEATING			MOTOR HP	MIN. CIRC. AIRS	VOLT / PH / HZ	ACCESSORIES	
		INPUT KM	OUTPUT KM	TYPE OF FUEL					
UM-1	MARCEL PARISI/CAN	100	10 KM	ELECTRIC	1/20	18.1	460 / 3 / 60	1, 2	
UM-2	MARCEL PARISI/CAN	400	5 KM	5 KM ELECTRIC	1/25	6.1	460 / 3 / 60	1, 2	

- ACCESSORIES**
1. PROVIDE FACTORY 24 VOLT WALL THERMOSTAT.
 2. PROVIDE FACTORY WALL/CEILING HANGER BRACKET

ELECTRIC DUCT HEATER SCHEDULE								
MARK	MF6	MODEL	ESP IN. MC	CFM	HEATING OUTPUT MBH	TYPE OF FUEL	VOLT / PH / HZ	REMARKS/ ACCESSORIES
DH-1	MARSEL	CHMS	-	1900	5	17	ELECTRIC	208 / 1 / 60
DH-2	MARSEL	CHMS	-	1520	5	17	ELECTRIC	208 / 1 / 60

1. 24 VOLT CONTROL CIRCUIT.
2. AIR PROVING SWITCH.
3. TERMINAL COVER.
4. FLANGED TYPE.
5. FIBERGLASS BODY ELECTRIC SEAT CONTROLS.
6. PROVIDE FACTORY OVERCURRENT PROTECTION AND HEAVY DUTY CONTACTORS.
7. DUCT SIZE IS 10 INCH X 16 INCH.
8. DUCT SIZE IS 10 INCH X 16 INCH.

ROOF TOP WATER SOURCE HEAT PUMP SCHEDULE																	
MARK	MODEL	ESP IN CFM	COOLING			HEATING			AUXILIARY ELECTRIC KW	O/A CFM	MTR CIRC AMPS	VOLT / PH / HZ	UNIT WEIGHT LBS.	ACCESSORIES			
			TBWH (SMB)	FAT ¹ (F) (DWB)	ENT (F) (T)	TBWH (F) (DWB)	FAT ¹ (F) (T)	ENT (F) (T)									
RHP-1	TRAINE GEROE0124	10 2400	90.45	57.12	80 / 67.1	86	44.7	59.1	15.0	45	q/d	293	460 / 3 / 60	1000	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15		
RHP-2 & 3	TRAINE GEROE0124	10 4150 EA	164.4	124.1	80 / 67.1	98.6	13.6	48.9	59	38.6	45	36/c/F.A	1000 EA 3/p	828	460 / 3 / 60	2200 EA	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
RHP-4	TRAINE GEROE0364	10 1140	41.1	30.4	80 / 67.1	8.4	5.4	36.5	7.0	8.4	45	150	105	105	460 / 3 / 60	650	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 15
RHP-5	TRAINE GEROE0484	10 1520	53.0	40.5	80 / 67.1	11.2	8.6	44.7	38.5	6.4	45	62	105	105	460 / 3 / 60	750	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15
RHP-6	TRAINE GEROE0644	10 1220	41.1	30.4	80 / 67.1	8.4	5.4	38.5	6.4	8.4	45	105	105	105	460 / 3 / 60	750	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 15
RHP-7	TRAINE GEROE0644	10 3000	90.45	57.12	80 / 67.1	15.1	8.6	44.7	38.5	6.4	45	180	105	105	460 / 3 / 60	1000	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15
RHP-8 & 9	TRAINE GEROE0124	10 3400 EA	197.5	104.8	80 / 67.1	13.1	8.6	13.4	59.1	31.0	45	27/c/F.A	150 EA 3/p	651	460 / 3 / 60	1950 EA	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

1. FACTORY SUPPLIED 2 FT. STAINLESS STEEL, BRAIDED HOSE WITH AUTOMATIC VALVE
2. BODY BALL VALVE, STRAINER, BLOW DOWN
3. THERMAL EXPANSION VALVE
4. FURNISHER ISOLATION VALVE
5. PROVIDE FACTORY INSTALLED THERMAL EXPANSION VALVES.
6. PROVIDE FACTORY INTERNALLY TRAPPED CONDENSATE DRAIN.
7. REASON THERMOSTAT PROVIDED AND INSTALLED BY CONTROL CONTRACTOR.
8. PROVIDE FACTORY FLOW REGULATORS SIZED FOR SCHEMATIC FLOW RATES.

WATER SOURCE HEATING & COOLING SCHEDULE																				
MARK	MFG	MODEL	ESP CH NC	TEH SWH	EDT DWT	COOLING				HEATING				MTR	VOLT / PH / HZ	MIN CURR Amps	MAX FUSE	UNIT WEIGHT LBS	ACCESSORIES	
						ENT GPM	ENT FRT	ENT FRT	ENT FRT	ENT FRT	ENT FRT	ENT FRT	ENT FRT							
HP-1	TRANE	EXE04H	05	1520	45.94	33.67	80/67	11.2	56	46	44.08	10	11.2	45	180	3/4	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-2	TRANE	EXE04H	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	180	3/4	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-3	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-4	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-5	TRANE	EXE036	05	140	34.24	25.11	80/67	8.4	86	117	33.21	10	8.4	45	-	3/4	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-6	TRANE	EXE036	05	140	34.24	25.11	80/67	8.4	86	117	33.21	61	8.4	45	180	3/4	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-7	TRANE	EXE030	05	1520	45.94	33.67	80/67	11.2	56	46	44.08	10	11.2	45	430	1/2	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-8	TRANE	EXE04H	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-9	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-10	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-11	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-12	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-13	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-14	TRANE	EXE036	05	140	34.24	25.11	80/67	8.4	86	117	33.21	10	8.4	45	450	3/4	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-15	TRANE	EXE036	05	140	34.24	25.11	80/67	8.4	86	117	33.21	10	8.4	45	450	3/4	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-16	TRANE	EXE036	05	140	34.24	25.11	80/67	8.4	86	117	33.21	10	8.4	45	210	3/4	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-17	TRANE	EXE036	05	140	34.24	25.11	80/67	8.4	86	117	33.21	10	8.4	45	180	3/4	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-18	TRANE	EXE036	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-19	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-20	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-21	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-22	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-23	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-24	TRANE	EXE036	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-25	TRANE	EXE036	05	140	34.24	25.11	80/67	8.4	86	117	33.21	10	8.4	45	450	3/4	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-26	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-27	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-28	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-29	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-30	TRANE	EXE04H	05	1520	45.94	33.67	80/67	11.2	56	46	44.08	10	11.2	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-31	TRANE	EXE04H	05	1520	45.94	33.67	80/67	11.2	56	46	44.08	10	11.2	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-32	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-33	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-34	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-35	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-36	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-37	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-38	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-39	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-40	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-41	TRANE	EXE024	05	160	23.65	17.25	80/67	5.6	66	121	21.88	10	5.6	45	330	1/3	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-42	TRANE	EXE036	05	140	34.24	25.11	80/67	8.4	86	117	33.21	10	8.4	45	180	3/4	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-43	TRANE	EXE036	05	140	34.24	25.11	80/67	8.4	86	117	33.21	10	8.4	45	120	3/4	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16
HP-44	TRANE	EXE04H	05	1520	45.94	33.67	80/67	11.2	56	46	44.08	63	11.2	45	200	3/4	208	11	60	1.2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16

17. OUTSIDE MAKE-UP AND EXHAUST UNIT ENTERING AIR CONDITIONS
- WINTER
- OUTSIDE AIR = 17°F DB / 15°F WB
BUILDING SUPPLY = 74°F DB
BUILDING EXHAUST = 60°F DB / 46°F WB
18. SIZE COILS FOR 20% ETHYLENE GLYCOL
19. SIZE FACTORY INSTALLED ENERGY WHEEL.

- SUMMER
OUTSIDE AIR = 90°F DB/ 71°F WB
BUILDING SUPPLY = 75°F DB / 50% RH
BUILDING EXHAUST = 75°F DB / 64°F WB

1. FACTORY SUPPLIED 1" STAINLESS STEEL BRAIDED HOSE WITH AIR/OIL VALVE, Y-BODY BALL VALVE, 1/2" NPT, 10' LONG. 1/2" NPT, 10' LONG.
2. PROVIDE FACTORY AIR/ OIL HOSE CONNECTOR, PRESSURE/THERMOCUT FUSES AND POWERED AIR/OIL VALVE.
3. MINIMUM 100' 1/4" P.V.C. DRAIN PAIL SPREAD FOR PUMP/SAFE.
4. PROVIDE FACTORY AIR/ OIL REGULATING EQUIPMENT WITH BROUWER/ERIC BELLEVUE COMPARTATIVE DUAL ENTHALPHY CONTROL, AND VENTURI HOOKS.
5. PROVIDE FACTORY DRIVES TO MATCH STATIC PRESSURE.
6. PROVIDE FACTORY 20' HIGH FILL THERMIER ROOF CREB. (FIELD VERIFY ROOF PITCH).
7. FACTORY 20' HIGH FILL THERMIER ROOF CREB. (FIELD VERIFY ROOF PITCH).
8. PROVIDE FACTORY INSTALLED THERMAL EXPANSION VALVES.
9. SHUTTER FOR 30" 0.02" THICK ALUMINUM.
10. PROVIDE FACTORY AUTOMATIC FLOW CONTROL, ISOLATION VALVE UNIT FLOW.
11. PROVIDE DUAL COMPRESSORS WITH HIGH SPRING, ISOLATION VALVE UNIT FLOW.
12. PROVIDE FACTORY AUXILIARY ELECTRIC FEEDBACK AS INDICATED.
13. PROVIDE FACTORY INSTALLED 20' FREEZE/STAI.

- NOTE:
REFER TO SHEET M11 FOR HVAC LEGEND, KEYED AND GENERAL NOTES,
REFER TO SHEET M31 THROUGH M34 FOR HVAC DETAILS AND SECTIONS,
REFER TO SHEET M51 AND M52 FOR HVAC SCHEDULES, REFER TO SHEET
M41 THROUGH M44 FOR HVAC CONTROLS.

HSA ENGINEERING
CONSULTING
SERVICES, INC.
QUALITY CONTROL
BY: JES
100% COMPLETE



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