



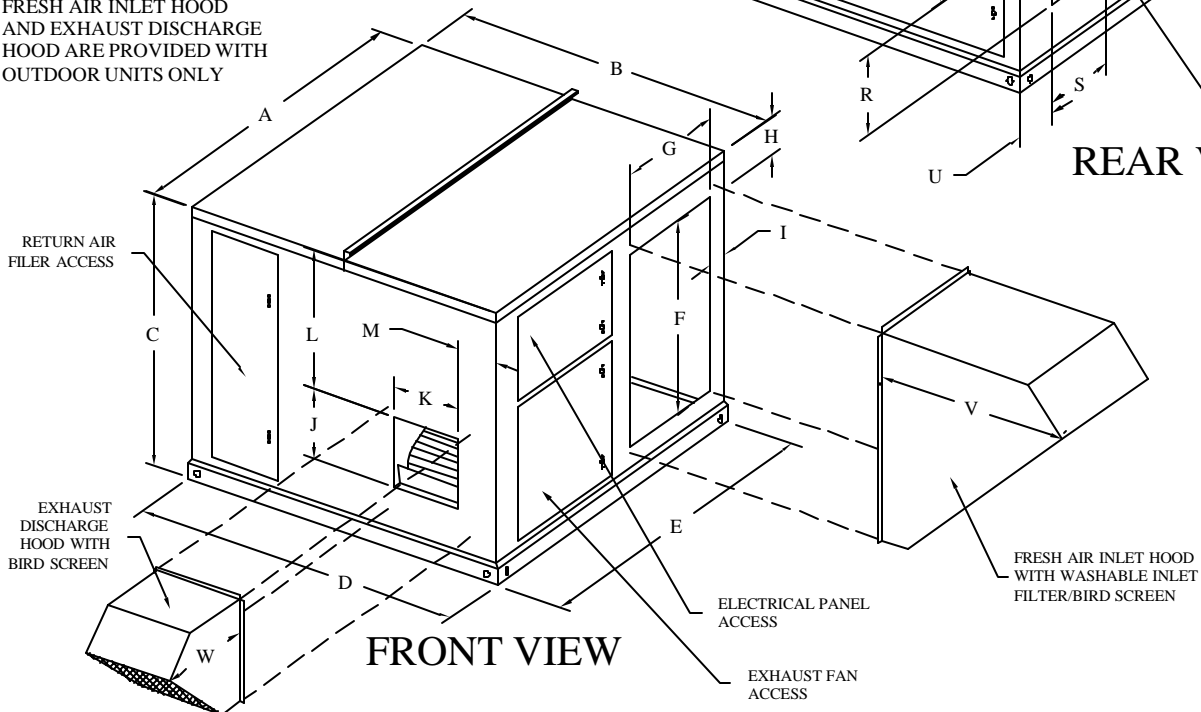
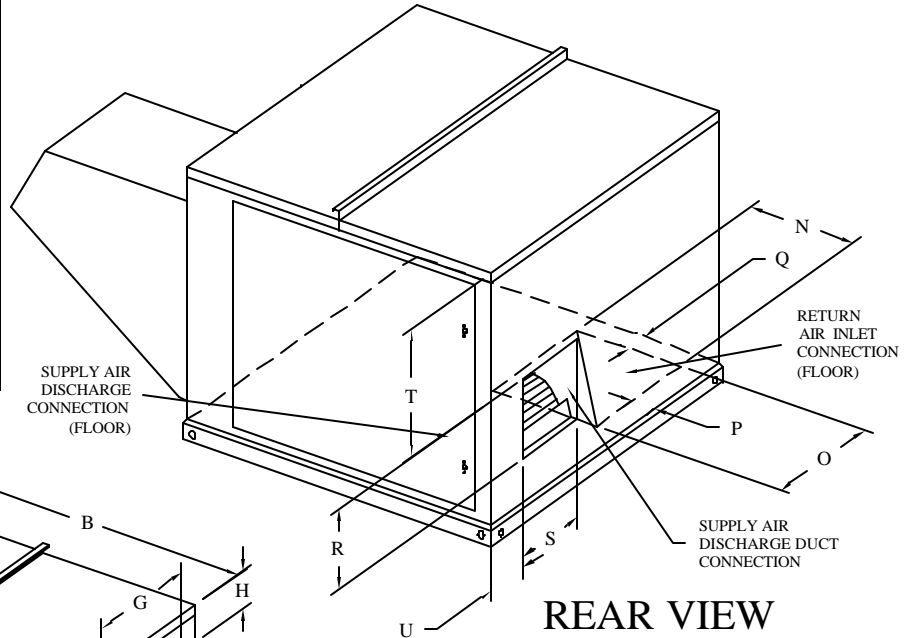
INSTALLATION & MAINTENANCE INSTRUCTIONS

ERV1500, ERV2300, ERV3000 & ERV4500

Dimension	ERV UNIT SIZE			
	ERV1500	ERV2300	ERV3000	ERV4500
A	52	52	64	64
B	52	52	64	64
C	52	52	64	64
D	56	56	68	68
E	56	56	68	68
F	25	25	40	40
G	16	16	24	24
H	11	11	10	10
I	2	2	2	2
J	11-3/8	11-3/8	13-5/8	13-5/8
K	13-1/8	13-1/8	15-3/4	15-3/4
L	33	33	43	43
M	6-1/4	6-1/4	8	8
N	14	14	22	22
O	20	20	22	22
P	3	3	3	3
Q	3	3	3	3
R	11-3/8	11-3/8	13-5/8	13-5/8
S	13-1/8	13-1/8	15-3/4	15-3/4
T	33	33	43	43
U	5	5	6-1/2	6-1/2
V	24	24	36	36
W	14	14	20	20

NOTE:

FRESH AIR INLET HOOD AND EXHAUST DISCHARGE HOOD ARE PROVIDED WITH OUTDOOR UNITS ONLY



ARRANGEMENT "C"
(COMBINATION DUCT CONNECTIONS)



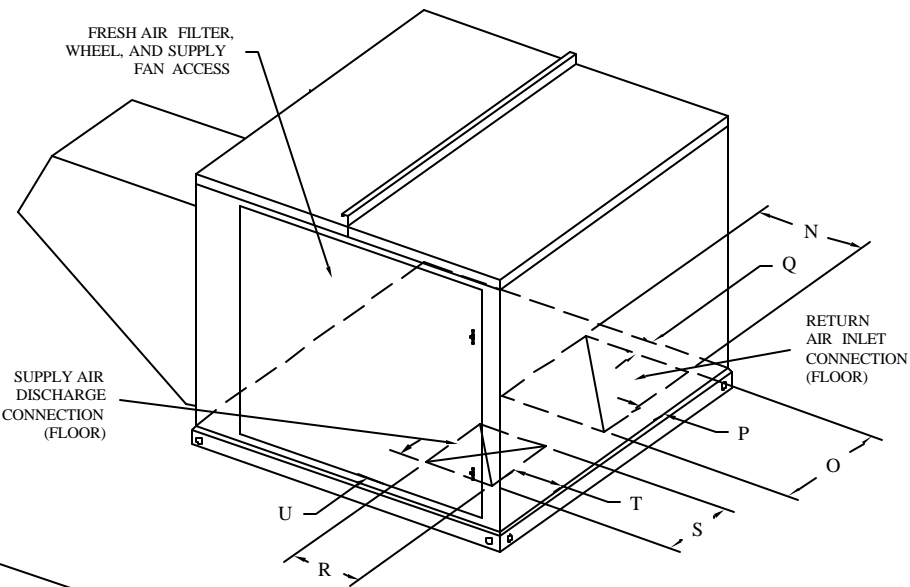
INSTALLATION & MAINTENANCE INSTRUCTIONS

ERV1500, ERV2300, ERV3000 & ERV4500

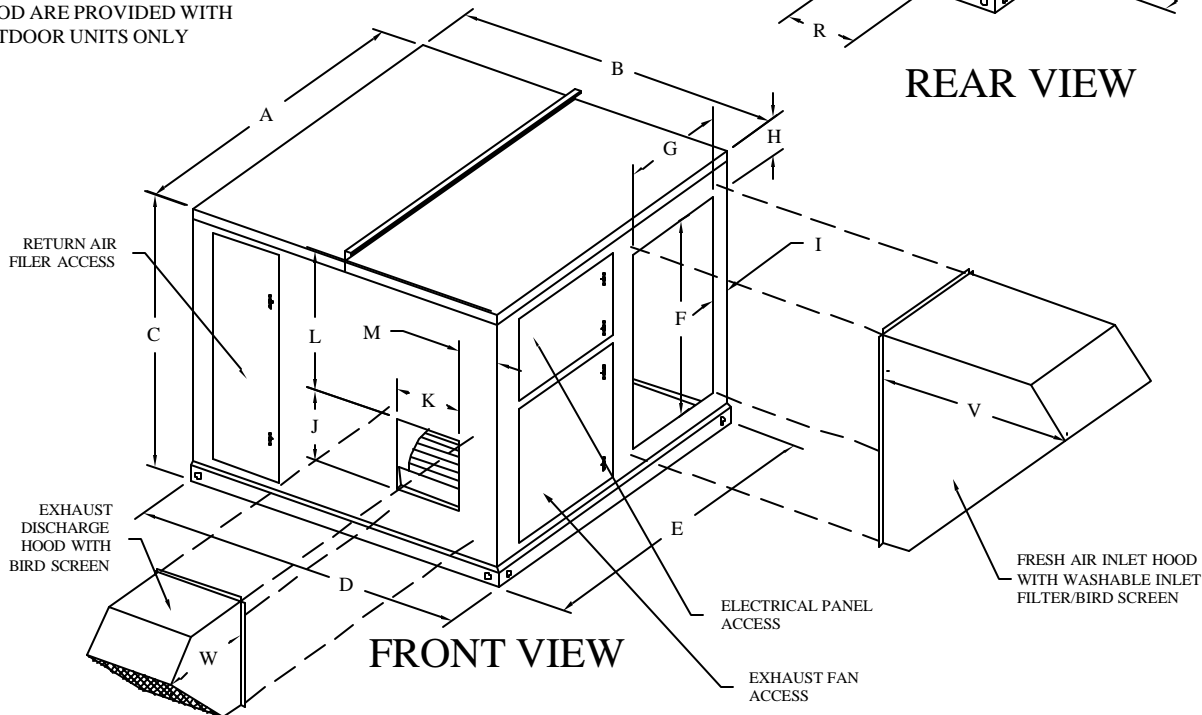
Dimension	ERV UNIT SIZE			
	ERV1500	ERV2300	ERV3000	ERV4500
A	52	52	64	64
B	52	52	64	64
C	52	52	64	64
D	56	56	68	68
E	56	56	68	68
F	25	25	40	40
G	16	16	24	24
H	11	11	10	10
I	2	2	2	2
J	11-3/8	11-3/8	13-5/8	13-5/8
K	13-1/8	13-1/8	15-3/4	15-3/4
L	33	33	43	43
M	6-1/4	6-1/4	8	8
N	14	14	22	22
O	20	20	22	22
P	3	3	3	3
Q	3	3	3	3
R	11-3/8	11-3/8	13-5/8	13-5/8
S	13-1/8	13-1/8	15-3/4	15-3/4
T	33	33	43	43
U	5	5	6-1/2	6-1/2
V	24	24	36	36
W	14	14	20	20

NOTE:

FRESH AIR INLET HOOD
AND EXHAUST DISCHARGE
HOOD ARE PROVIDED WITH
OUTDOOR UNITS ONLY



REAR VIEW



FRONT VIEW

ARRANGEMENT "D"

(DOWNFLOW, BOTTOM DUCT CONNECTIONS)



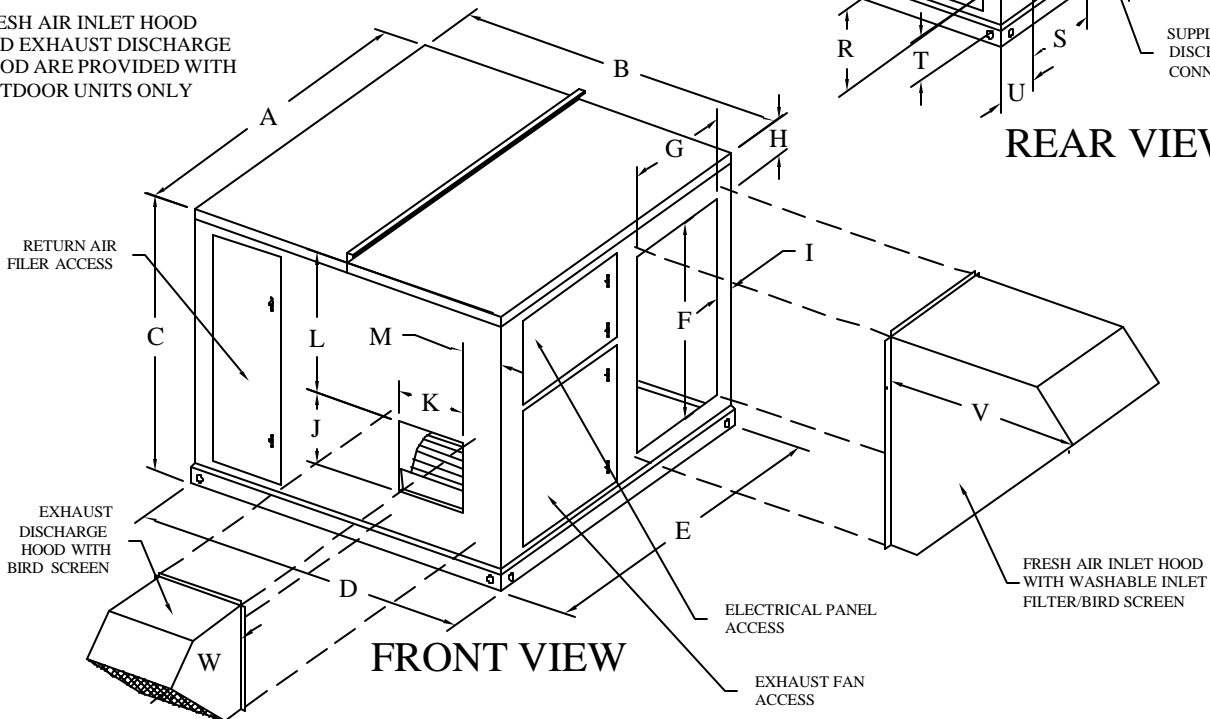
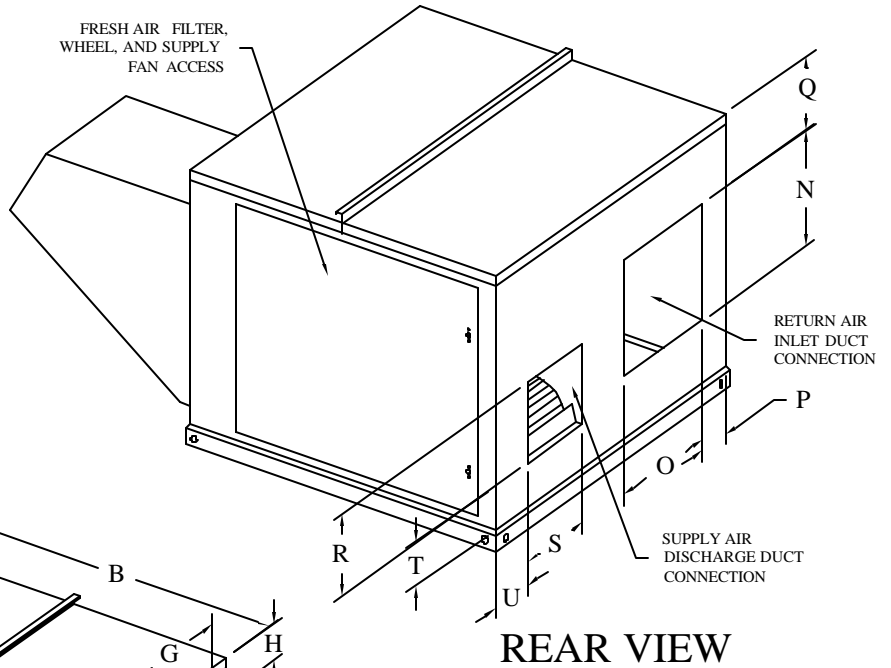
INSTALLATION & MAINTENANCE INSTRUCTIONS

ERV1500, ERV2300, ERV3000 & ERV4500

Dimension	ERV UNIT SIZE			
	ERV1500	ERV2300	ERV3000	ERV4500
A	52	52	64	64
B	52	52	64	64
C	52	52	64	64
D	56	56	68	68
E	56	56	68	68
F	25	25	40	40
G	16	16	24	24
H	11	11	10	10
I	2	2	2	2
J	11-3/8	11-3/8	13-5/8	13-5/8
K	13-1/8	13-1/8	15-3/4	15-3/4
L	33	33	43	43
M	6-1/4	6-1/4	8	8
N	14	14	22	22
O	20	20	22	22
P	3	3	3	3
Q	3	3	3	3
R	11-3/8	11-3/8	13-5/8	13-5/8
S	13-1/8	13-1/8	15-3/4	15-3/4
T	33	33	43	43
U	5	5	6-1/2	6-1/2
V	24	24	36	36
W	14	14	20	20

NOTE:

FRESH AIR INLET HOOD
AND EXHAUST DISCHARGE
HOOD ARE PROVIDED WITH
OUTDOOR UNITS ONLY



ARRANGEMENT "H"
(HORIZONTAL DUCT CONNECTIONS)



DESIGN CONSIDERATIONS

The minimum clearances shown in fig. 1 must be maintained for access and removal of internal components.

ERV1500 TO ERV4500 A = 86" B = 48" C = 32"

The fresh air inlet should be away from sources of contaminants such as discharge air from other ventilation units.

Balancing dampers should be installed in the supply and return air ductwork for proper airflow adjustment. Refer to specific job design documentation for required airflows.

INSTALLATION

RIGGING and LIFTING: All access doors must be closed and locked in place when rigging and lifting. Hook rigging shackles through holes in base frame as shown in FIG. 2. Use spreader bars when rigging to prevent unit damage as per FIG. 3. Be sure rigging and shackles are sufficient to handle the unit weight as listed on page 1. The unit may be lifted with a fork lift with forks long enough to support the unit from the base frame and not the under skin as it is not designed to support the unit.

ROOF CURB MOUNTING: The unit may be mounted on a patented CLIPLOCK roof curb. Refer to CLIPLOCK roof curb installation instructions for details.

PAD MOUNTING: A poured concrete pad may be used to mount the unit on a roof top, outdoor ground, or inside a building. Rubber isolation pads between the unit base frame and the concrete pad are recommended.

SUSPENDING: The unit must be mounted on a field fabricated suspension platform with straps or rods adequately designed to support the weight of the unit as well as maintenance personnel. Suspension straps or rods must be positioned such that they do not prevent opening or interfering with hinged access doors.

WARNING:

Disconnect power before making any electrical connections. Unit must be grounded to electrical service panel. Failure to follow this warning can result in property damage, personnel injury, and/or death.

NOTE: All electrical work must conform with the requirements of local and national codes. Provide line voltage power supply from a separate fused circuit with a disconnect switch located within sight of the unit. Supply voltage, amperage, wire, fuse and disconnect switch size must conform with unit rating plate.

All outdoor exposed wiring or connections must be made with weatherproof cable or wire unless installed in conduit. Disconnect switches for outdoor units must be weatherproof.

Connections for line voltage are made in the unit control enclosure. All wiring must be protected from possible mechanical damage.

LOW VOLTAGE WIRING: Low voltage wiring for optional accessories are made at the 24 VAC numbered terminal strip located inside the unit control enclosure. A knockout has been provided on the side of the unit for remote wiring to enter the control enclosure. Remote wire size to be based on 24VAC amp draw noted on the unit rating plate. Refer to Fig. 4 for knockout location.

LINE VOLTAGE WIRING: Connections for line voltage are made in the unit control enclosure. Line voltage wiring to be sized based on the unit amp draw as noted on the unit rating plate. Refer to Fig. 4 for knockout location.

GROUND CONNECTIONS: A labelled ground lug is installed in the unit control enclosure specifically for line voltage wiring. Ground wire to be sized based on the amp draw noted on the unit rating plate.

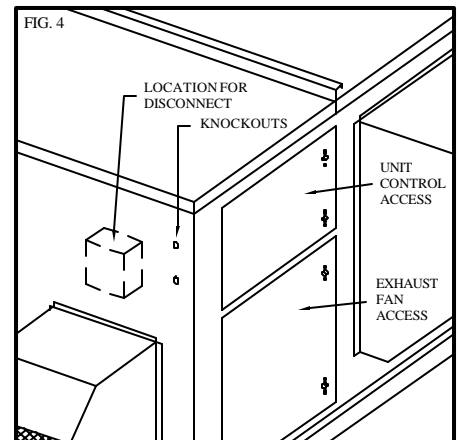
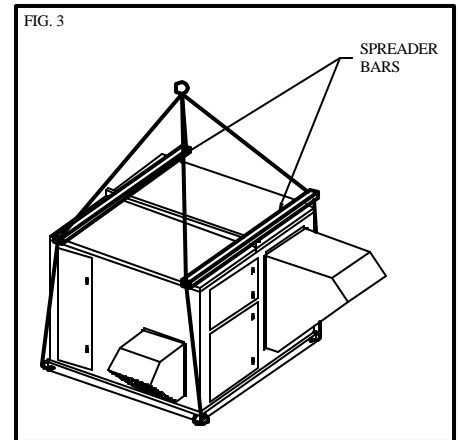
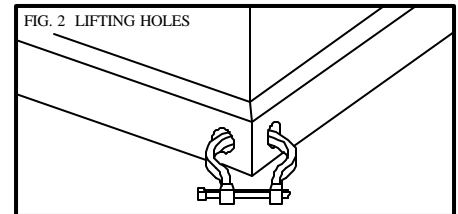
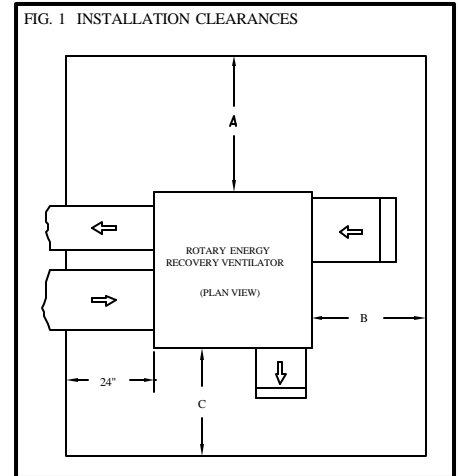
FINAL ELECTRICAL CHECK: Make a final wiring check to be sure the system is correctly wired. Inspect field installed wiring and the routing to ensure that rubbing or chafing due to vibration will not occur. Check all screw terminals to ensure they are tight.

DUCTWORK: Maximum recommended velocity in trunk ducts is 1000 feet per minute. Velocity in branches should not exceed 800 feet per minute. Be sure to properly size ductwork to the capacity and airflow characteristics of your unit. Failure to do so can affect the performance of the unit.

Ductwork installed outdoors should be insulated and have a weatherproof vapour barrier. It should be protected against damage. Caulking, flashings, and other means adequate to provide a permanent weather seal should be used. Ductwork installed in attics or other areas exposed to outside temperatures should be insulated and have an indoor type vapour barrier.

UNIT FILTERS: Fresh air and return air disposable filters are a standard feature. The unit must have filters to prevent dirt build-up on the recovery wheel. Disposable filter must be replaced with filters of the same size and type in order to be effective.

Outdoor unit fresh air hoods are provided with a washable filter that should be cleaned at least once per year with warm water and mild detergent. Do not replace the hood filter with a disposable filter.



ELECTRICAL DATA - 60HZ - 1 PHASE

Model No.		ERV-1500				ERV-2300				ERV-3000				
Intake and Exhaust Blower Motor	Motor Output (per motor)	hp	1/2	3/4	1	1-1/2	1/2	3/4	1	1-1/2	1/2	3/4	1	1-1/2
		kW	.38	.56	.75	1.1	.38	.56	.75	1.1	.38	.56	.75	1.1
	amps per motor (total)	208v	4.3	5.8	5.3	8.1	4.3	5.8	5.3	8.1	4.3	5.8	5.3	8.1
		230v	3.9	5.2	4.8	7.3	3.9	5.2	4.8	7.3	3.9	5.2	4.8	7.3
			(7.8)	(10.4)	(9.6)	(14.6)	(7.8)	(10.4)	(9.6)	(14.6)	(7.8)	(10.4)	(9.6)	(14.6)
	Locked rotor amps per motor (total)	208v	24.3	36.5	42.0	49.9	24.3	36.5	42.0	49.9	24.3	36.5	42.0	49.9
230v		22.0	33.0	38.0	45.0	22.0	33.0	38.0	45.0	22.0	33.0	38.0	45.0	
		(44.0)	(66.0)	(76.0)	(90.0)	(44.0)	(66.0)	(76.0)	(90.0)	(44.0)	(66.0)	(76.0)	(90.0)	
Wheel Drive Motor	Full load amps	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.8	2.8	2.8	2.8	
	Locked rotor amps	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	6.8	6.8	6.8	6.8	
Rec. max. fuse size (amps)	208v	15	20	15	25	15	20	15	25	15	20	15	25	
	230v	15	15	15	20	15	15	15	25	15	20	15	25	
*Minimum Circuit Ampacity	208v	12.3	15.9	14.8	21.8	12.3	15.9	14.8	21.8	14.3	17.9	16.8	23.8	
	230v	11.3	14.5	13.5	19.8	11.3	14.5	13.5	19.8	13.3	16.5	15.5	21.8	

*Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

NOTE - Extremes of operating range are plus and minus 10% of line voltage.

NOTE - Where current does not exceed 100 amps, HARCR type circuit breaker may be used in place of fuse (U.S. only).

ELECTRICAL DATA - 60HZ - 3 PHASE

Model No.		ERV-1500					ERV-2300					ERV-3000					ERV-4500						
Intake and Exhaust Blower Motor	Motor Output (per motor)	hp	.5	.75	1	1.5	2	.5	.75	1	1.5	2	3	.5	.75	1	1.5	2	3	1.5	2	3	5
		kW	.38	.56	.75	1.1	1.5	.38	.56	.75	1.1	1.5	2.2	.38	.56	.75	1.1	1.5	2.2	1.1	1.5	2.2	3.7
	Full load amps per motor (total)	208v	2.7	3.3	4.8	6.2	7.3	2.7	3.3	4.8	6.2	7.3	9.7	2.7	3.3	4.8	6.2	7.3	9.7	6.2	7.3	9.7	14.5
		230v	2.4	3.0	4.4	5.6	6.6	2.4	3.0	4.4	5.6	6.6	8.8	2.4	3.0	4.4	5.6	6.6	8.8	5.6	6.6	8.8	13.2
		460v	(4.8)	(6.0)	(8.8)	(11.2)	(13.2)	(4.8)	(6.0)	(8.8)	(11.2)	(13.2)	(17.6)	(4.8)	(6.0)	(8.8)	(11.2)	(13.2)	(17.6)	(11.2)	(13.2)	(17.6)	(26.4)
		575v	1.2	1.5	2.2	2.8	3.3	1.2	1.5	2.2	2.8	3.3	4.4	1.2	1.5	2.2	2.8	3.3	4.4	2.8	3.3	4.4	6.6
			(2.4)	(3.0)	(4.4)	(5.6)	(6.6)	(2.4)	(3.0)	(4.4)	(5.6)	(6.6)	(8.8)	(2.4)	(3.0)	(4.4)	(5.6)	(6.6)	(8.8)	(5.6)	(6.6)	(8.8)	(13.2)
		575v	0.9	1.1	1.8	2.2	2.6	0.9	1.1	1.8	2.2	2.6	3.5	0.9	1.1	1.8	2.2	2.6	3.5	2.2	2.6	3.5	5.3
			(1.8)	(2.2)	(3.6)	(4.4)	(5.2)	(1.8)	(2.2)	(3.6)	(4.4)	(5.2)	(7.0)	(1.8)	(2.2)	(3.6)	(4.4)	(5.2)	(7.0)	(4.4)	(5.2)	(7.0)	(10.6)
	Locked rotor amps per motor (total)	208v	12.8	18.9	25.3	33.0	38.5	12.8	18.9	25.3	33.0	38.5	66.0	12.8	18.9	25.3	33.0	38.5	66.0	33.0	38.5	66.0	101.2
		230v	11.6	17.2	23.0	30.0	35.0	11.6	17.2	23.0	30.0	35.0	60.0	11.6	17.2	23.0	30.0	35.0	60.0	30.0	35.0	60.0	92.0
		460v	(23.2)	(34.4)	(46.0)	(60.0)	(70.0)	(23.2)	(34.4)	(46.0)	(60.0)	(70.0)	(120)	(23.2)	(34.4)	(46.0)	(60.0)	(70.0)	(120)	(60.0)	(70.0)	(120)	(184.0)
	575v	5.8	8.6	11.5	15.0	17.5	5.8	8.6	11.5	15.0	17.5	30.0	5.8	8.6	11.5	15.0	17.5	30.0	15.0	17.5	30.0	46.0	
		(11.6)	(17.2)	(23.0)	(30.0)	(35.0)	(11.6)	(17.2)	(23.0)	(30.0)	(35.0)	(60.0)	(11.6)	(17.2)	(23.0)	(30.0)	(35.5)	(60.0)	(30.0)	(35.5)	(60.0)	(92.0)	
	575v	4.8	6.7	9.2	12.0	14.0	4.8	6.7	9.2	12.0	14.0	24.0	4.8	6.7	9.2	12.0	14.0	24.0	12.0	14.0	24.0	32.0	
		(9.6)	(13.2)	(18.4)	(24.0)	(28.0)	(9.6)	(13.4)	(18.4)	(24.0)	(28.0)	(48.0)	(9.6)	(13.4)	(18.4)	(24.0)	(28.0)	(48.0)	(24.0)	(28.0)	(48.0)	(64.0)	
Wheel Drive Motor	Full load amps	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	
	Locked rotor amps	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	
Rec. maximum fuse size (amps)	208v	15	15	15	20	20	15	15	15	20	20	30	15	15	15	20	20	30	20	20	25	30	45
	230v	15	15	15	15	20	15	15	15	20	20	25	15	15	15	20	20	25	20	20	20	30	45
	460v	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	20
	575v	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	20
*Minimum Circuit Ampacity	208v	8.1	9.8	13.5	17.0	19.8	8.1	9.8	13.5	17.0	19.8	25.8	10.1	11.8	15.5	19	21.8	27.8	19	21.8	27.8	39.8	
	230v	7.5	9.0	12.5	15.5	18.0	7.5	9.0	12.5	15.5	18.0	23.5	9.5	11.0	14.5	17.5	20	25.5	17.5	20	25.5	36.5	
	460v	4.5	5.3	7	8.5	9.8	4.5	5.3	7	8.5	9.8	12.5	6.5	7.3	9	10.5	11.8	14.5	9.7	11	13.9	19.2	
	575v	3.0	3.0	5.1	6.3	7.3	3.8	4.3	5.9	7	8	10.3	5.8	6.2	7.9	9	10	12.3	7.9	8.7	10.9	15.4	
Minimum Circuit Ampacity	kW	12	12	12	12	12	12	12	12	12	12	12	12	15	15	15	15	15	15	15	20	20	20
	208v	50	50	60	60	60	45	50	60	60	60	70	60	60	60	70	70	80	80	80	90	90	110
	230v	45	45	50	50	50	45	45	50	50	60	60	50	50	60	60	70	70	80	80	90	90	110
	460v	20	25	25	25	30	20	25	25	30	30	30	30	30	35	35	35	40	40	40	45	50	
Optional	575v	20	20	20	20	25	20	20	20	25	25	25	25	25	25	25	30	30	30	35	35	40	
Electric Preheat	*Minimum	208v	49.8	51.4	55.1	58.6	61.4	49.8	51.4	55.1	58.6	61.4	67.4	62.2	63.9	67.6	7.11	73.9	79.9	88.4	91.1	97.1	109.1
	Circuit	230v	45.1	46.6	50.1	53.1	55.6	45.2	46.7	50.2	53.2	55.7	61.2	56.6	58.1	61.6	64.6	67.1	72.6	80.3	82.8	88.3	99.3
	Ampacity	460v	23.4	24.1	25.9	27.4	28.6	23.4	24.1	25.8	27.3	28.5	31.3	30.1	30.8	32.6	34.1	35.3	38.1	41.9	43.2	45.9	51.4
		575v	18.8	19.3	21.1	22.1	23.1	18.8	19.3	21.1	22.1	23.1	25.3	24.6	25.1	26.7	27.8	28.8	31.1	34.1	35.1	37.4	41.9

*Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

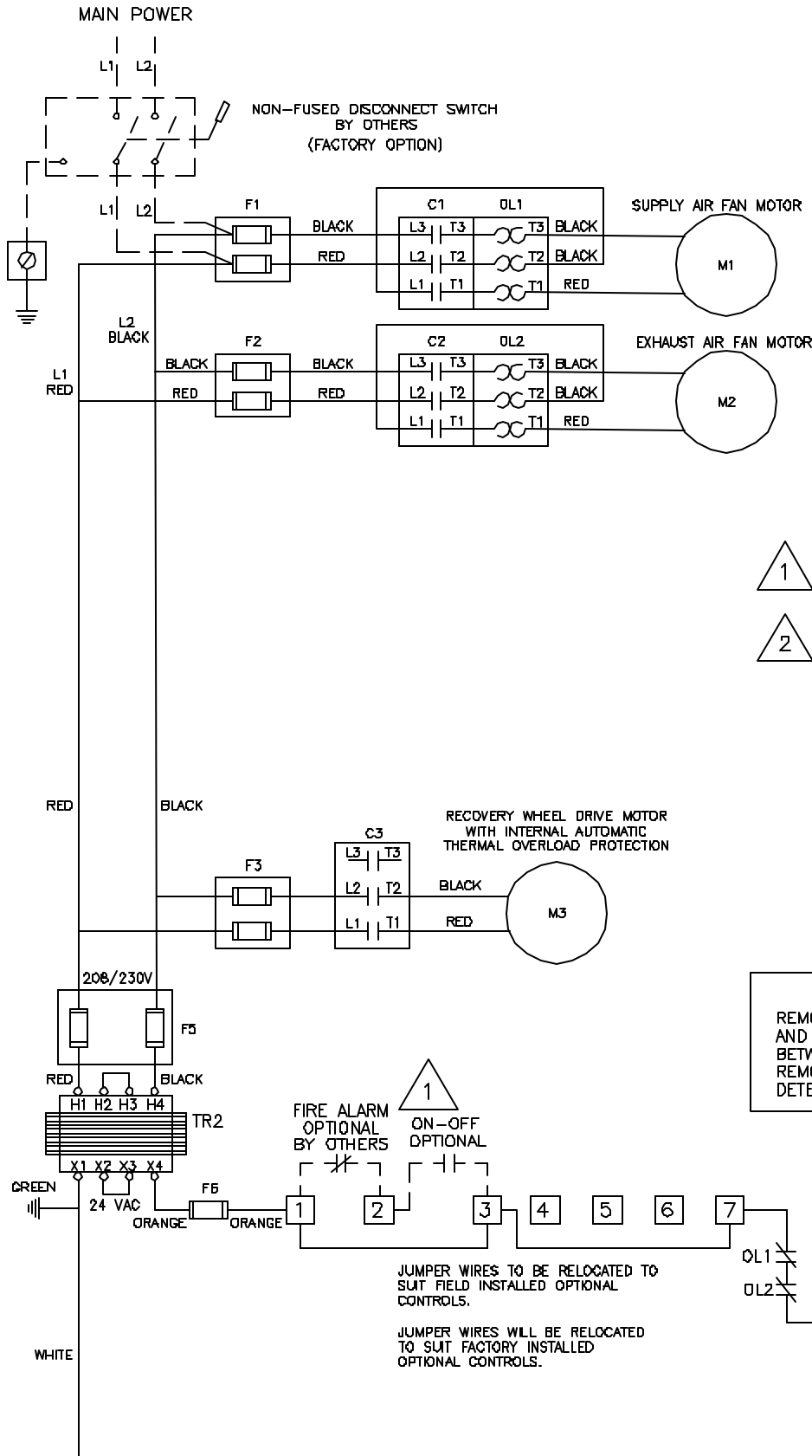
NOTE - Extremes of operating range are plus and minus 10% of line voltage.

NOTE - Where current does not exceed 100 amps, HARCR type circuit breaker may be used in place of fuse (U.S. only).

ERV BASIC UNIT WIRING DIAGRAM

THIS WIRING DIAGRAM IS VALID FOR THE FOLLOWING:

VOLTAGE	UNITS
208/1/60, 230/1/60	ERV-1500, ERV-2300 ERV-3000, ERV-4500



DES.	DESCRIPTION
M1	SUPPLY AIR FAN MOTOR
M2	EXHAUST AIR FAN MOTOR
M3	ROTARY WHEEL DRIVE MOTOR
F1	{M1} SUPPLY FAN MOTOR FUSES
F2	{M2} EXHAUST FAN MOTOR FUSES
F3	{M3} RECOVERY WHEEL MOTOR FUSES
F5	{TR2} PRIMARY FUSES
F6	{TR2} SECONDARY FUSE
C1	{M1} SUPPLY FAN MOTOR CONTACTOR
C2	{M2} EXHAUST FAN MOTOR CONTACTOR
C3	{M3} RECOVERY WHEEL MOTOR CONTACTOR
OL1	{M1} SUPPLY FAN MOTOR THERMAL OVERLOAD
OL2	{M2} EXHAUST FAN MOTOR THERMAL OVERLOAD
TR2	CONTROL TRANSFORMER

--- OPTIONAL WIRING OR BY OTHERS
 ——— FACTORY WIRED



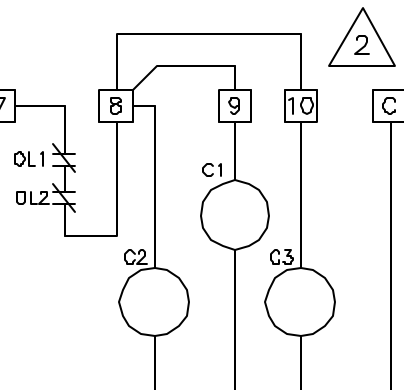
OPTIONAL REMOTE ON-OFF SWITCH, AND FIRE ALARM DRY CONTACTS BY OTHERS TO BE RATED FOR A LOAD OF 8.4 AMPS AT 24VAC.



AN EXISTING ENTHALPHY OR FREE COOLING CONTROL SYSTEM, AS FOUND IN AN ECONOMIZER OF A ROOF TOP HEAT/COOL UNIT, ETC., CAN BE INTERCONNECTED TO ACTIVATE OR DEACTIVATE THE RECOVERY WHEEL FOR THE PURPOSE OF FREE COOLING, WITH A DRY CONTACT, SUPPLIED BY OTHERS, CONNECTED ACROSS TERMINALS 8 AND 10. CONTACT TO BE RATED FOR 0.5 AMPS AT 24VAC.

CAUTION

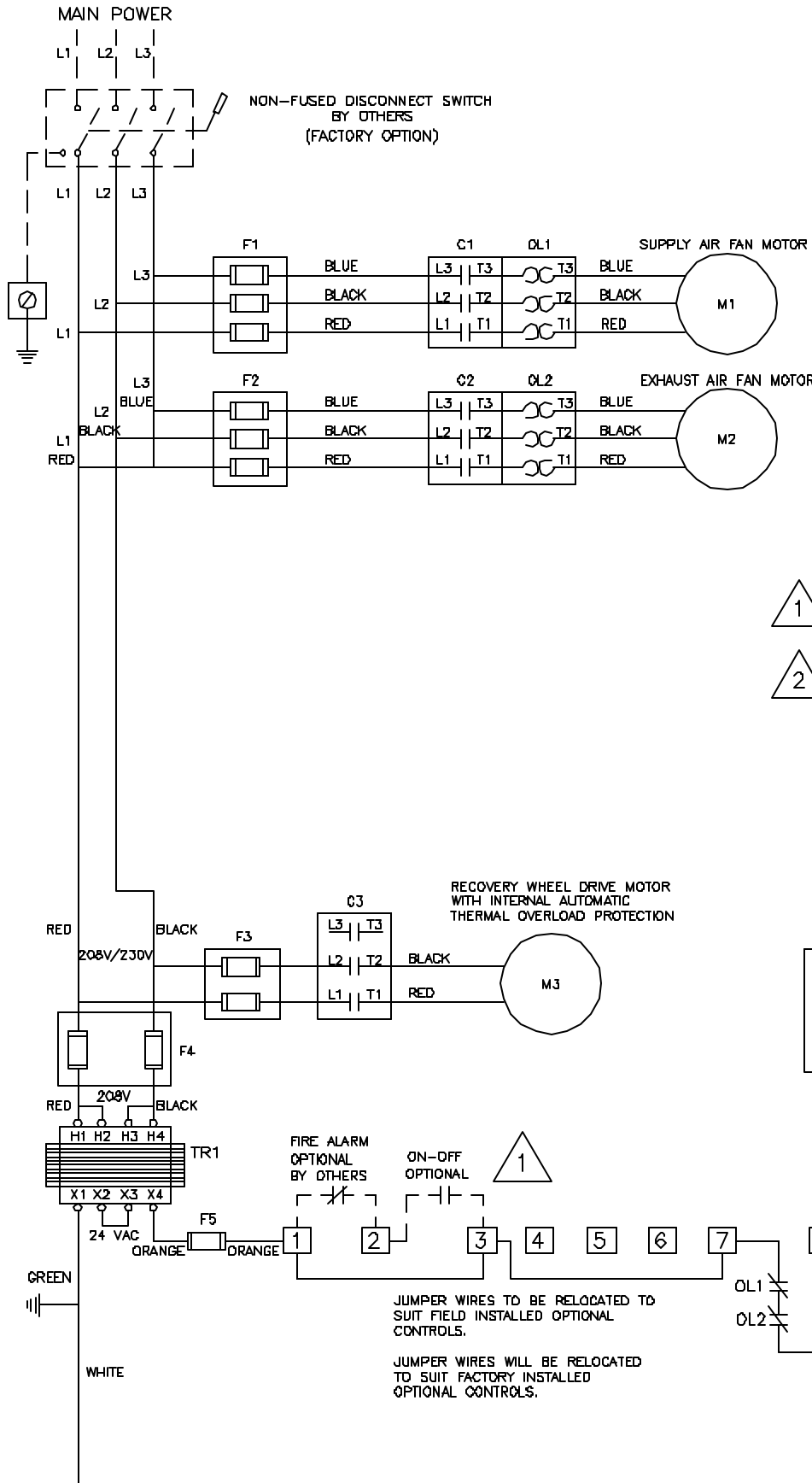
REMOTE WIRE SIZE TO BE BASED ON AMP DRAW AND TWICE THE DISTANCE THE WIRE MUST RUN BETWEEN THE UNIT CONTROL PANEL AND THE REMOTE ACCESSORY. REFER TO LOCAL CODES TO DETERMINE TYPE OF WIRE AND WIRE SIZE.



ERV UNIT WIRING DIAGRAM

THIS WIRING DIAGRAM IS VALID FOR THE FOLLOWING:

VOLTAGE	UNITS
208/3/60	ERV-1500, ERV-2300,
230/3/60	ERV-3000, ERV-4500



DES.	DESCRIPTION
M1	SUPPLY AIR FAN MOTOR
M2	EXHAUST AIR FAN MOTOR
M3	ROTARY WHEEL DRIVE MOTOR
F1	(M1) SUPPLY FAN MOTOR FUSES
F2	(M2) EXHAUST FAN MOTOR FUSES
F3	(M3) RECOVERY WHEEL MOTOR FUSES
F4	(TR2) PRIMARY FUSES
F5	(TR2) SECONDARY FUSE
C1	(M1) SUPPLY FAN MOTOR CONTACTOR
C2	(M2) EXHAUST FAN MOTOR CONTACTOR
C3	(M3) RECOVERY WHEEL MOTOR CONTACTOR
OL1	(M1) SUPPLY FAN MANUAL RESET OVERLOAD
OL2	(M2) EXHAUST FAN MANUAL RESET OVERLOAD
TR1	CONTROL TRANSFORMER

--- OPTIONAL WIRING OR BY OTHERS
— FACTORY WIRED



OPTIONAL REMOTE ON-OFF SWITCH, AND FIRE ALARM DRY CONTACTS BY OTHERS TO BE RATED FOR A LOAD OF 8.4 AMPS AT 24VAC.



AN EXISTING ENTHALPY OR FREE COOLING CONTROL SYSTEM, AS FOUND IN AN ECONOMIZER OF A ROOF TOP HEAT/COOL UNIT, ETC., CAN BE INTERCONNECTED TO ACTIVATE OR DEACTIVATE THE RECOVERY WHEEL FOR THE PURPOSE OF FREE COOLING, WITH A DRY CONTACT, SUPPLIED BY OTHERS, CONNECTED ACROSS TERMINALS 8 AND 10. CONTACT TO BE RATED FOR 0.5 AMPS AT 24VAC.

REFER TO ACTUAL THERMOLEC WIRING DIAGRAM OF ELECTRIC PREHEATER FOR MORE DETAILS.

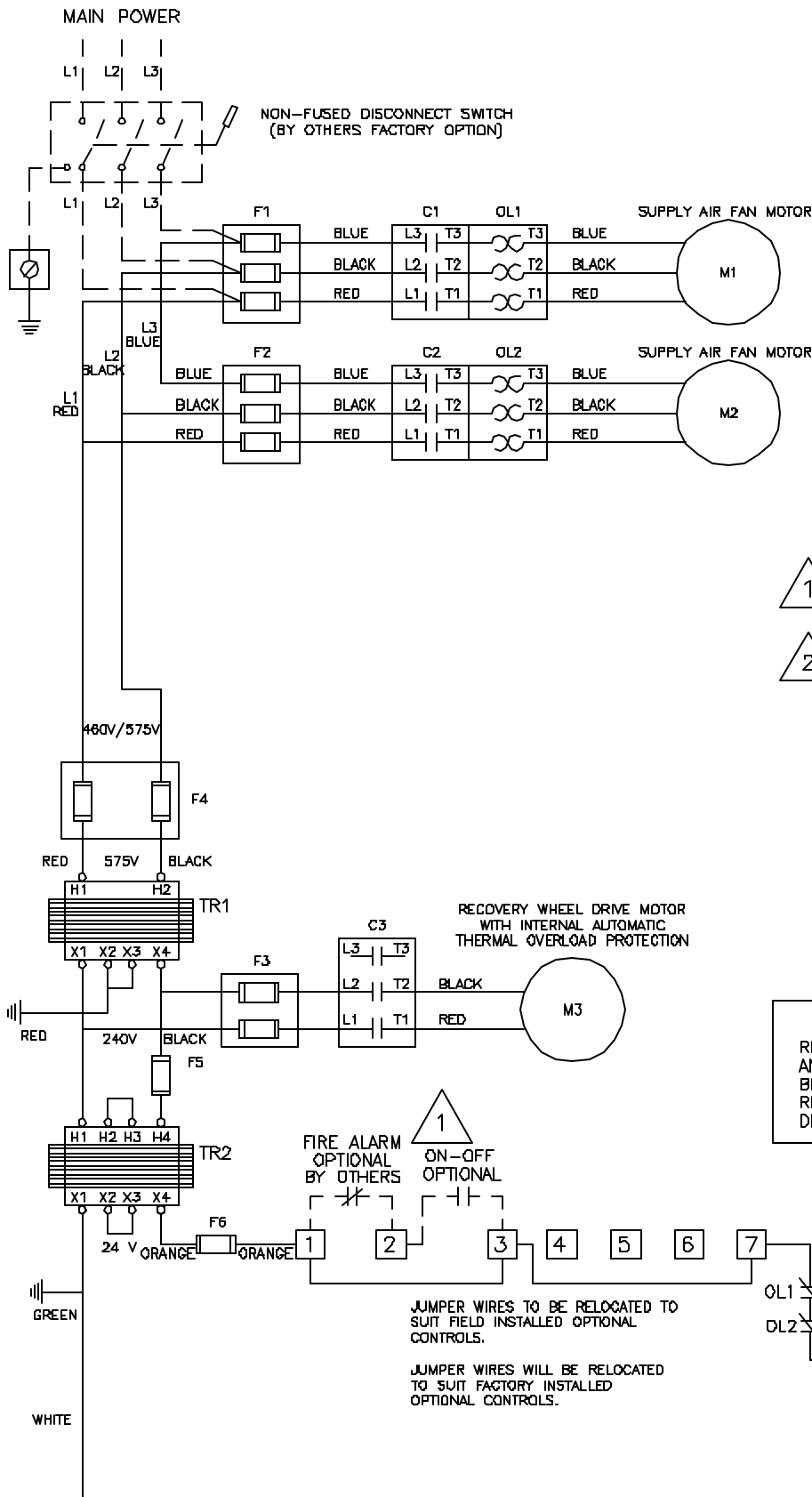
CAUTION

REMOTE WIRE SIZE TO BE BASED ON AMP DRAW AND TWICE THE DISTANCE THE WIRE MUST RUN BETWEEN THE UNIT CONTROL PANEL AND THE REMOTE ACCESSORY. REFER TO LOCAL CODES TO DETERMINE TYPE OF WIRE AND WIRE SIZE.

ERV BASIC UNIT WIRING DIAGRAM

THIS WIRING DIAGRAM IS VALID FOR THE FOLLOWING:

VOLTAGE	UNITS
460/3/60	ERV-1500, ERV-2300
575/3/60	ERV-3000, ERV-4500



DES.	DESCRIPTION
M1	SUPPLY AIR FAN MOTOR
M2	EXHAUST AIR FAN MOTOR
M3	ROTARY WHEEL DRIVE MOTOR
F1	{M1} SUPPLY FAN MOTOR FUSES
F2	{M2} EXHAUST FAN MOTOR FUSES
F3	{M3} RECOVERY WHEEL MOTOR FUSES
F4	{TR1} PRIMARY FUSES
F5	{TR2} PRIMARY FUSE
F6	{TR2} SECONDARY FUSE
C1	{M1} SUPPLY FAN MOTOR CONTACTOR
C2	{M2} EXHAUST FAN MOTOR CONTACTOR
C3	{M3} RECOVERY WHEEL MOTOR CONTACTOR
OL1	{M1} SUPPLY FAN MANUAL RESET OVERLOAD
OL2	{M2} EXHAUST FAN MANUAL RESET OVERLOAD
TR1	TRANSFORMER
TR2	CONTROL TRANSFORMER

--- OPTIONAL WIRING OR BY OTHERS
— FACTORY WIRED



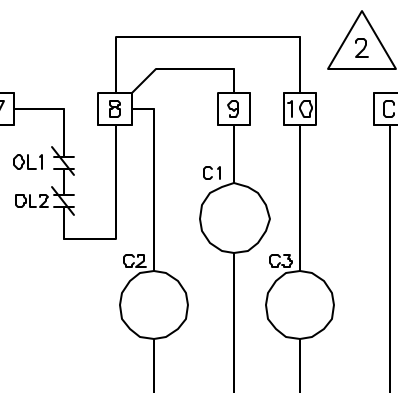
OPTIONAL REMOTE ON-OFF SWITCH, AND FIRE ALARM DRY CONTACTS BY OTHERS TO BE RATED FOR A LOAD OF 8.4 AMPS AT 24VAC.



AN EXISTING ENTHALPHY OR FREE COOLING CONTROL SYSTEM, AS FOUND IN AN ECONOMIZER OF A ROOF TOP HEAT/COOL UNIT, ETC., CAN BE INTERCONNECTED TO ACTIVATE OR DEACTIVATE THE RECOVERY WHEEL FOR THE PURPOSE OF FREE COOLING, WITH A DRY CONTACT, SUPPLIED BY OTHERS, CONNECTED ACROSS TERMINALS 8 AND 10. CONTACT TO BE RATED FOR 0.5 AMPS AT 24VAC.

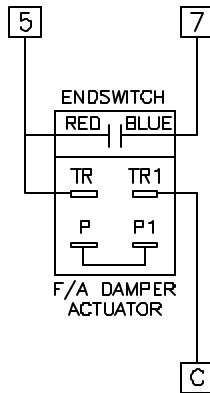
CAUTION

REMOTE WIRE SIZE TO BE BASED ON AMP DRAW AND TWICE THE DISTANCE THE WIRE MUST RUN BETWEEN THE UNIT CONTROL PANEL AND THE REMOTE ACCESSORY. REFER TO LOCAL CODES TO DETERMINE TYPE OF WIRE AND WIRE SIZE.



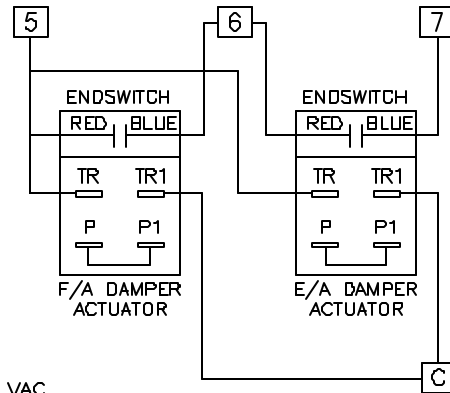
ERV OPTIONAL ACCESSORY WIRING DIAGRAMS

1 MOTORIZED SPRING RETURN FRESH AIR DAMPER ACTUATOR



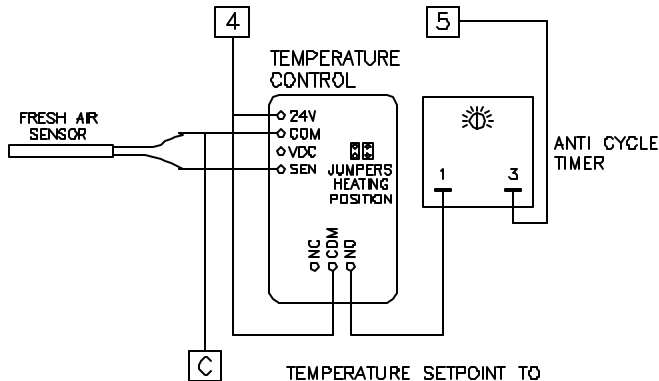
POWER: 24 VAC
 ENDSWITCH: HONEYWELL 4074EKV
 ACTUATOR: HONEYWELL M7415

2 MOTORIZED SPRING RETURN FRESH AIR AND EXHAUST DAMPER ACTUATORS



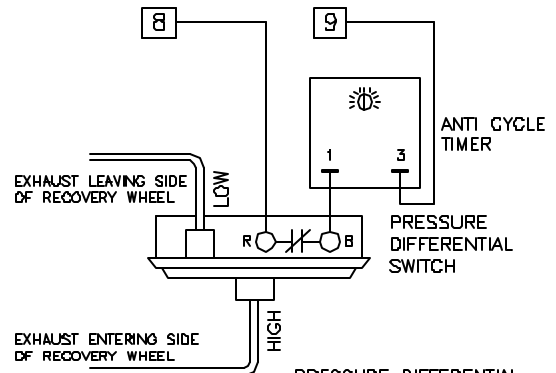
POWER: 24 VAC
 ENDSWITCH: HONEYWELL 4074EKV
 ACTUATOR: HONEYWELL M7415

3 ON-OFF FROST PROTECTION (AMBIENT TEMPERATURE CONTROL)



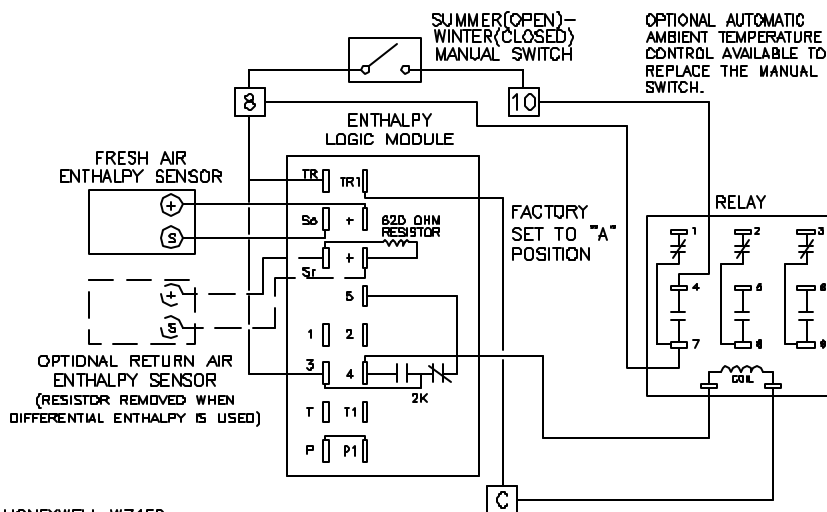
POWER: 24 VAC
 TEMPERATURE CONTROL: JOHNSON CONTROLS A350AA-1
 ANTI CYCLE TIMER: ICM102BH

4 EXHAUST ONLY FROST PROTECTION (PRESSURE DIFFERENTIAL SWITCH)



POWER: 24 VAC
 PRES. DIFF. SWITCH: JOHNSON CONTROLS P32AC-1C
 ANTI CYCLE TIMER: ICM102BH

5 ENTHALPY CONTROL



POWER: 24 VAC
 ENTHALPY LOGIC CONTROL: HONEYWELL W7459
 ENTHALPY SENSOR: HONEYWELL C7400
 RELAY: POTTER & BRUMFIELD KJP-14A15-24
 ON-OFF SWITCH: BENEDIKT & JAGER B4KN2, B4TU10, B4KLG2
 OPTIONAL TEMPERATURE CONTROL: JOHNSON CONTROLS A350AA-1

6000015 REV D JUNE 03/03



* US PATENTS 5188333, 5255887
 CANADIAN PATENT 2073900
 ADDITIONAL PATENTS PENDING

***CLIPLOCK 1000 ROOF CURB
 TO SUIT**

LENNOX

RMF1500/2300

FEATURES:

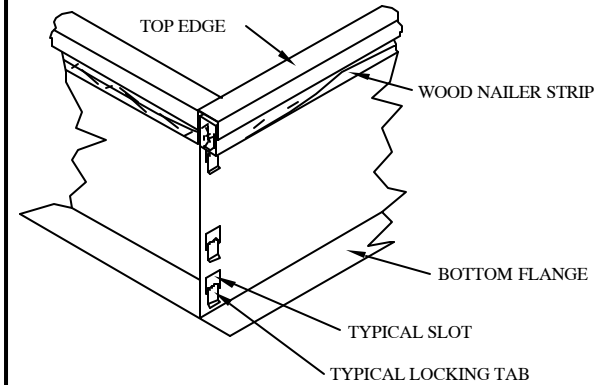
- HEAVY GAUGE GALVANIZED STEEL CONSTRUCTION
- 2 x 3" WOOD PERIMETER NAILER
- PATENTED CLIPLOCK DESIGN FOR EASE OF ASSEMBLY

OPTIONS:

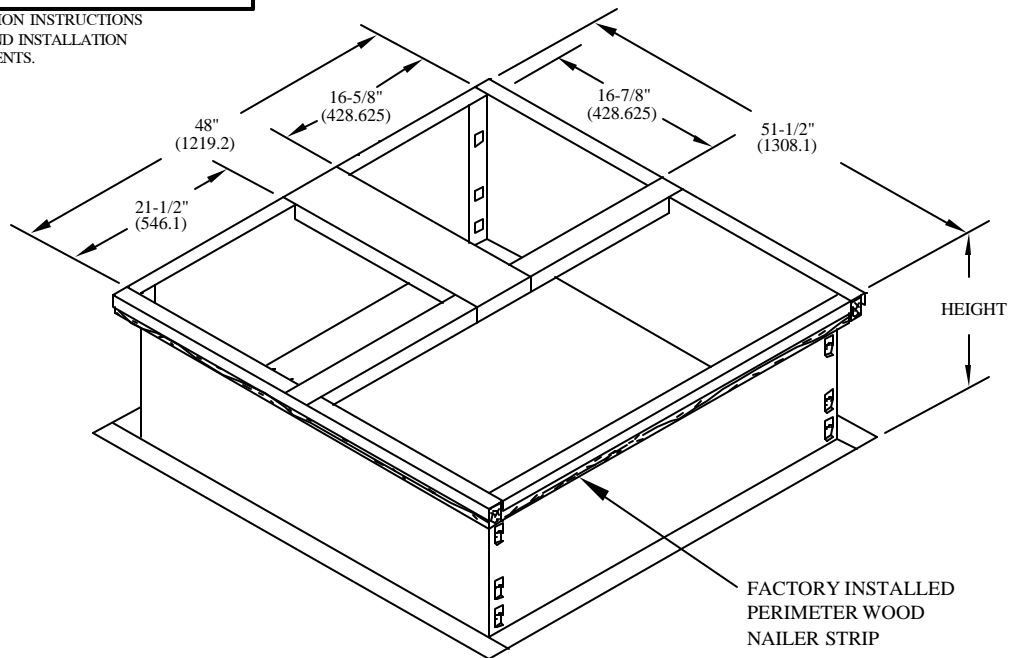
- CUSTOM OR OPTIONAL 18", AND 24" HEIGHTS
- STAINLESS STEEL OR ALUMINUM CONSTRUCTION
- NEOPRENE GASKET
- INTERNAL 1" INSULATION

CAT#	HEIGHT (inch)	HEIGHT (mm)	CUBE (ft)	WEIGHT (lbs)	SPI#
90K53	14	355.6	1.6	83	L129

CLIPLOCK CORNER DETAIL



NOTE: SEE CLIPLOCK 1000 INSTALLATION INSTRUCTIONS FOR COMPLETE ASSEMBLY AND INSTALLATION PROCEDURES AND REQUIREMENTS.



L129.DWG
 APR. 29 / 03

27 Leading Road Etobicoke, Ontario, Canada M9V 4B7
 Tel: (416) 742-0598 Fax: (416) 742-4251
 4846 Jennings Lane, Louisville, Kentucky, USA 40218
 Tel: 1-800-932-6210 Fax: 1-800-903-7294



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 ADDITIONAL PATENTS PENDING

***CLIPLOCK 1000 ROOF CURB
 TO SUIT**

LENNOX

RMF3000/4500

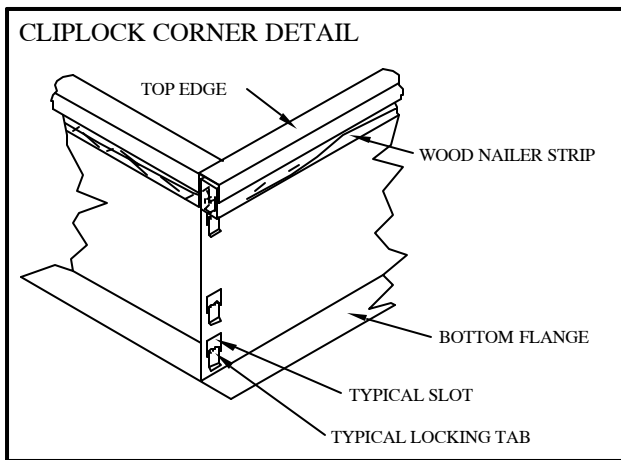
FEATURES:

- HEAVY GAUGE GALVANIZED STEEL CONSTRUCTION
- 2 x 3" WOOD PERIMETER NAILER
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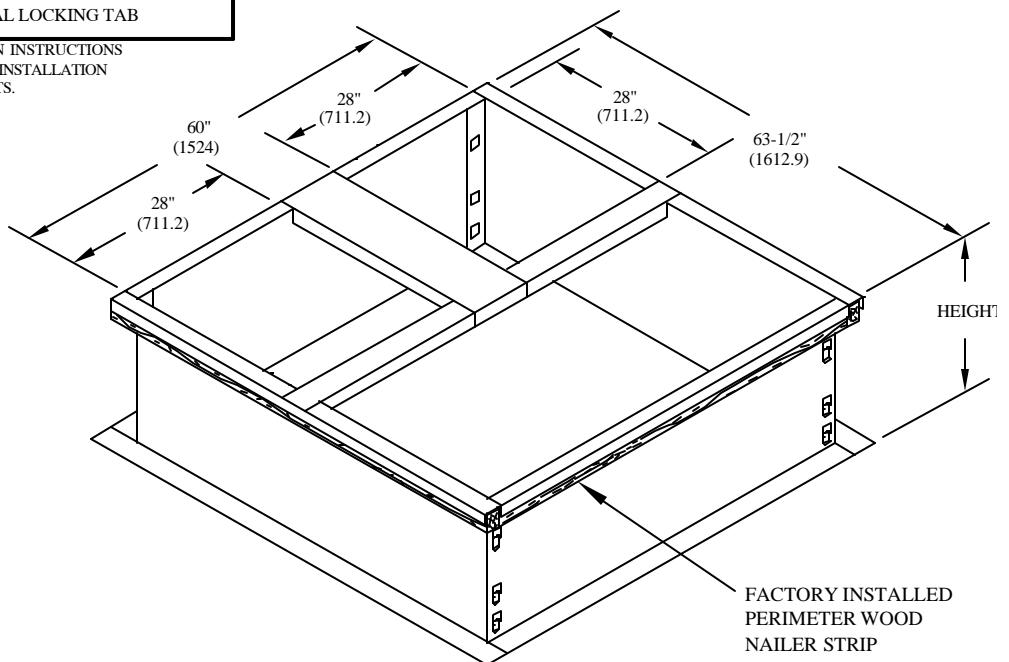
OPTIONS:

- CUSTOM OR OPTIONAL 18", AND 24" HEIGHTS
- STAINLESS STEEL OR ALUMINUM CONSTRUCTION
- NEOPRENE GASKET
- INTERNAL 1" INSULATION

CAT#	HEIGHT		CUBE	WEIGHT	SPI#
	(inch)	(mm)	(ft)	(lbs)	
90K54	14	355.6	2.0	100	L119



NOTE: SEE CLIPLOCK 1000 INSTALLATION INSTRUCTIONS FOR COMPLETE ASSEMBLY AND INSTALLATION PROCEDURES AND REQUIREMENTS.



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