ERV Wiring Diagram Supplement A

Three Phase Size 2500-10000 208/230 Volt

Size 1500-10000 460 & 575 Volt

28

36

SUPPLY BLOWER

ACTUATOR #1

EXHAUST BLOWER

ACTUATOR

ENTHALPY WHEEL

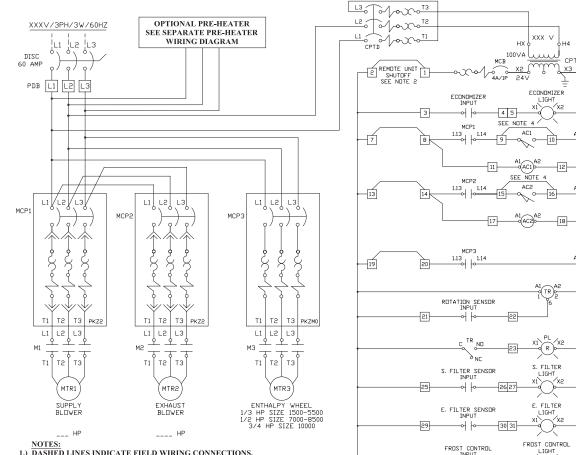
ROTATION LIGHT

INSTALLATION, OPERATION, AND MAINTENANCE MANUAL

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NOTES:

1.) DASHED LINES INDICATE FIELD WIRING CONNECTIONS

COOK

2.) REMOTE WIRE GAUGE IS DETERMINED BY AMP DRAW AND THE LENGTH OF WIRE NEEDED TO CONNECT REMOTE ACCESSORY TO THE UNIT CONTROL PANEL. REFER TO N.E.C. AND LOCAL CODE REQUIREMENTS TO DETERMINE TYPE OF WIRE AND WIRE GAUGE.

3.) MAIN DISCONNECT TO BE PROVIDED BY INSTALLER, MUST BE UL LISTED CIRCUIT BREAKER OR FUSIBLE DISCONNECT SWITCH.

4.)OVERCURRENT PROTECTION MUST BE PROVIDED IN ACCORDANCE WITH N.E.C. ARTICLE 430-53(C)

5.) THE WORKSPACE FOR ELECTRICAL EQUIPMENT MUST BE IN ACCORDANCE WITH N.E.C. ARTICLE 110-26.

ΤВ	CONTROL TERMINALS	(SEE NOTE	7)
1	→ REMOTE UNIT SHUTDFF (SEE NOTE 6) ECONOMIZER INPUT (BY COOK)	19 20 21 22	_REMOTE START MOTOR (3) FOR ECONOMIZER -ROTATION SENSOR INPUT (BY COOK)
5	<pre>>ECONOMIZER LIGHT (OPTIONAL)</pre>	23	-ROTATION LIGHT (OPTIONAL)
7	NOTOR (1)	25	SUPPLY FILTER SENSOR INPUT (BY COOK)
9	ACTUATOR #1 >LIMIT SWITCH (OPTIONAL)	27	-SUPPLY FILTER LIGHT (OPTIONAL)
11 12	AC1	29	EXHAUST FILTER -SENSOR INPUT (BY COOK)
13		31	-EXHAUST FILTER LIGHT (DPTIONAL)
15	ACTUATOR #2 LIMIT SWITCH (OPTIONAL)	33 34	-FROST CONTROL INPUT (BY COOK)
17 18	AC2	35	-FROST CONTROL LIGHT (OPTIONAL)

6.) REMOVE JUMPER BETWEEN TERMINALS 1 & 2 IF REMOTE START IS REQUIRED

4 4

7.) ALL OF THE 36 CONTROL TERMINALS SHOWN ARE PROVIDED IN THE PANEL EVEN WHEN THE OPTIONAL CONTROLS WERE NOT PROVIDED. THE TERMINALS ARE PRESENT TO ALLOW FOR UNIT CONTROL UPGRADES. IF THERE ARE NO WIRES GOING TO THESE CONTROL TERMINALS, THEN THE NOTED OPTION WASN'T PROVIDED. 8.) 100 VA (4.17A @ 24 VOLT) N.E.C. CLASS 1 CIRCUIT

34 35

LEGEND				
ABBREV. SYMBOL	DESCRIPTION	MTR1	SUPPLY BLOWER MOTOR	
MCP1	STARTER, COMB. SELF PROTECTED (SUPPLY BLOWER MOTOR)	MTR2	EXHAUST BLOWER MOTOR	
		MTR3	WHEEL DRIVE MOTOR	
MCP2	STARTER, COMB. SELF PROTECTED (EXHAUST BLOWER MOTOR)	мсв	SUPPLEMENTARY PROTECTION CONTROL TRANSFORMER	
МСРЗ	STARTER, COMB. SELF PROTECTED (WHEEL DRI∨E MOTOR)	СРТ	SECONDARY CONTROL TRANSFORMER (SEE NOTE 8)	
M1	SUPPLY BLOWER MOTOR CONTACTOR		CIRCUIT PROTECTOR	
М2	EXHAUST BLOWER	CPTD	CONTROL TRANSFORMER PRIMARY	
МЗ	WHEEL DRIVE	AC1	SUPPLY DAMPER ACTUATOR (DPT.)	
Martak Cantactak		AC2	EXHAUST DAMPER	

33

ERV Wiring Diagram Supplement B



Three Phase ERV - Size 1500 Size 1500 208/230 Volt

SUPPLY BLOWER

ACTUATOR

EXHAUST BLOWER

ACTUATOR #2

ENTHALPY WHEEL

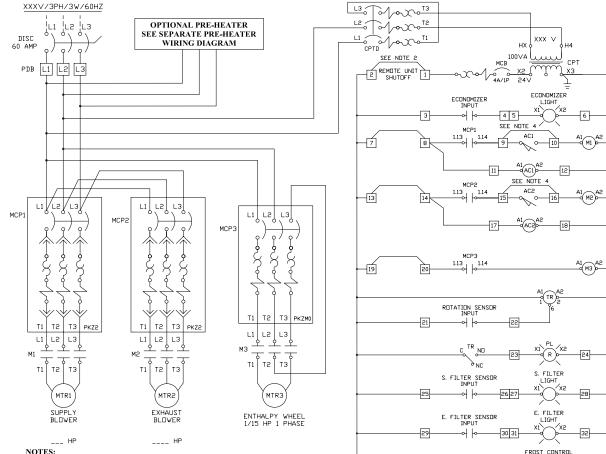
ROTATION LIGHT

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1.) DASHED LINES INDICATE FIELD WIRING CONNECTIONS.

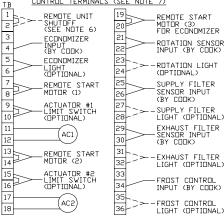
REMOTE WIRE GAUGE IS DETERMINED BY AMP DRAW AND THE LENGTH OF WIRE NEEDED TO CONNECT REMOTE ACCESSORY TO THE UNIT CONTROL PANEL. REFER TO N.E.C. AND LOCAL CODE REQUIREMENTS TO DETERMINE TYPE OF WIRE AND WIRE GAUGE.

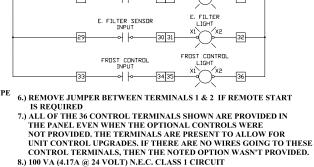
3.) MAIN DISCONNECT TO BE PROVIDED BY INSTALLER, MUST BE UL LISTED CIRCUIT BREAKER OR FUSIBLE DISCONNECT SWITCH.

4.)OVERCURRENT PROTECTION MUST BE PROVIDED IN ACCORDANCE WITH N.E.C. ARTICLE 430-53(C)

5.) THE WORKSPACE FOR ELECTRICAL EQUIPMENT MUST BE IN ACCORDANCE WITH N.E.C. ARTICLE 110-26.

CONTROL TERMINALS (SEE NOTE 7)





LEGEND					
ABBREV. SYMBOL	DESCRIPTION	MTR1	SUPPLY BLOWER MOTOR		
MCP1	STARTER, COMB. SELF PROTECTED (SUPPLY BLOWER MOTOR)	MTR2	EXHAUST BLOWER MOTOR		
		MTR3	WHEEL DRIVE MOTOR		
MCP2	STARTER, COMB. SELF PROTECTED (EXHAUST BLOWER MOTOR)	мсв	SUPPLEMENTARY PROTECTION CONTROL TRANSFORMER		
	STARTER, COMB. SELF PROTECTED (WHEEL DRI∨E MOTOR)	CPT	SECONDARY CONTROL		
			TRANSFORMER (SEE NOTE 8)		
M1	SUPPLY BLOWER MOTOR CONTACTOR		CIRCUIT PROTECTOR		
м2	EXHAUST BLOWER MOTOR CONTACTOR	CPTD	CONTROL TRANSFORMER PRIMARY		
мз	WHEEL DRIVE	AC1	SUPPLY DAMPER ACTUATOR (OPT.)		
MUTUR CUNTACTUR		AC2	EXHAUST DAMPER ACTUATOR (OPT.)		



ERV Wiring Diagram Supplement C

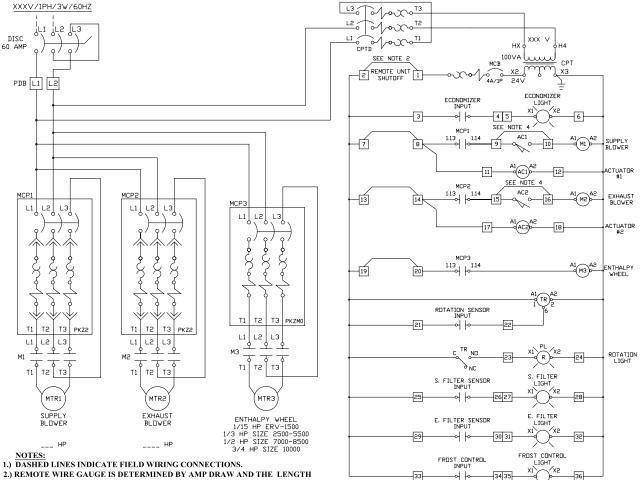
Single Phase Size 1500 - 10000 115/208/230 Volt

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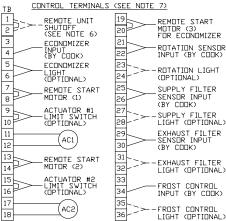


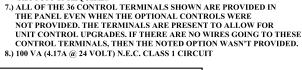
.) REMOTE WIRE GAUGE IS DETERMINED BY AMP DRAW AND THE LENGTH OF WIRE NEEDED TO CONNECT REMOTE ACCESSORY TO THE UNIT CONTROL PANEL. REFER TO N.E.C. AND LOCAL CODE REQUIREMENTS TO DETERMINE TYPE OF WIRE AND WIRE GAUGE.

3.) MAIN DISCONNECT TO BE PROVIDED BY INSTALLER, MUST BE UL LISTED CIRCUIT BREAKER OR FUSIBLE DISCONNECT SWITCH. 4.)OVERCURRENT PROTECTION MUST BE PROVIDED IN ACCORDANCE

4.JOVERCURRENT FROM THE TION MUST BE FROM THE IN ACCORDANCE WITH N.E.C. ARTICLE 430-53(C) 5.) THE WORKSPACE FOR ELECTRICAL EQUIPMENT MUST BE IN

ACCORDANCE WITH N.E.C. ARTICLE 110-26.





6.) REMOVE JUMPER BETWEEN TERMINALS 1 & 2 IF REMOTE UNIT

	LEGEND				
ABBRE∨ SYMBOL	DESCRIPTION	MTR1	SUPPLY BLOWER MOTOR		
MCP1	STARTER, COMB. SELF PROTECTED (SUPPLY BLOWER	MTR2	EXHAUST BLOWER MOTOR		
	MOTOR)	MTR3	WHEEL DRIVE MOTOR		
STARTER, COMB, SELF PROTECTED (EXHAUST BLOWER MOTOR)	мсв	SUPPLEMENTARY PROTECTION CONTROL TRANSFORMER			
MCP3 SELF PRDTECTED (WHEEL DRIVE MDTDR)		SECONDARY			
	СРТ	CONTROL TRANSFORMER (SEE NOTE 8)			
M1	SUPPLY BLOWER MOTOR CONTACTOR		CIRCUIT PROTECTOR		
м2	EXHAUST BLOWER	СРТД	CONTROL TRANSFORMER PRIMARY		
мз	WHEEL DRIVE	AC1	SUPPLY DAMPER ACTUATOR (OPT.)		
MOTOR CONTACTOR		AC2	EXHAUST DAMPER ACTUATOR (OPT.)		

SHUTOFF IS REOUIRED





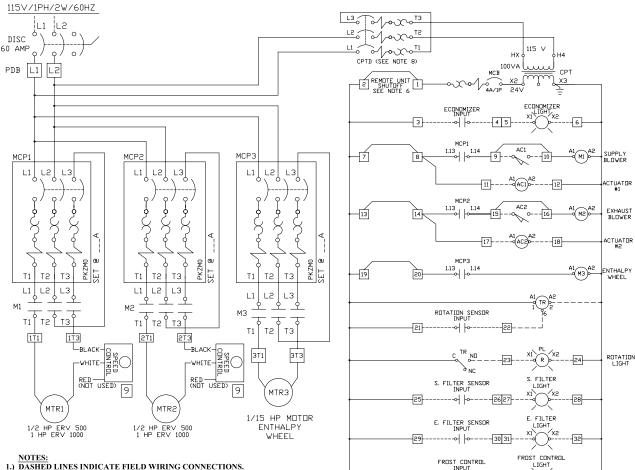
Single Phase Size 500-1000 115 Volt with control panel

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1.) DASHED LINES INDICATE FIELD WIRING CONNECTIONS.

2.) REMOTE WIRE GAUGE IS DETERMINED BY AMP DRAW AND THE LENGTH OF WIRE NEEDED TO CONNECT REMOTE ACCESSORY TO THE UNIT CONTROL

PANEL. REFER TO N.E.C. AND LOCAL CODE REQUIREMENTS TO DETERMINE TYPE OF WIRE AND WIRE GAUGE.

3.) MAIN DISCONNECT TO BE PROVIDED BY INSTALLER, MUST BE UL LISTED CIRCUIT BREAKER OR FUSIBLE DISCONNECT SWITCH. 4.)OVERCURRENT PROTECTION MUST BE PROVIDED IN ACCORDANCE

WITH N.E.C. ARTICLE 430-53(C) 5.) THE WORKSPACE FOR ELECTRICAL EQUIPMENT MUST BE IN

ACCORDANCE WITH N.E.C. ARTICLE 110-26. POWER TERMINALS

TB2

1T1

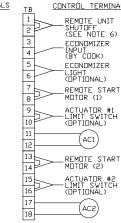
1T3

2T1

2T3

3T1

3T3



4LS	(SEE NOTE	7)
	19 20 21 22	REMDTE START MDTDR (3) FOR ECONOMIZER ROTATION SENSOR INPUT (BY COOK)
	23	-ROTATION LIGHT (OPTIONAL)
-	25	SUPPLY FILTER SENSOR INPUT (BY COOK)
	27	-SUPPLY FILTER LIGHT (OPTIONAL)
	29	EXHAUST FILTER -SENSOR INPUT (BY COOK)
-	31	-EXHAUST FILTER LIGHT (DPTIDNAL)
	33 34	-FROST CONTROL INPUT (BY COOK)
	35	-FROST CONTROL LIGHT (OPTIONAL)

Е	6.) REMOVE JUMPER BETWEEN TEI	RMINALS 1 &	& 2 IF	REMOTE START
	IS REQUIRED			

-0 0-

7.) ALL OF THE 36 CONTROL TERMINALS SHOWN ARE PROVIDED IN THE PANEL EVEN WHEN THE OPTIONAL CONTROLS WERE NOT PROVIDED. THE TERMINALS ARE PRESENT TO ALLOW FOR UNIT CONTROL UPGRADES. IF THERE ARE NO WIRES GOING TO THESE CONTROL TERMINALS, THEN THE NOTED OPTION WASN'T PROVIDED.

34 35

′хг

-36

8.) 100 VA (4.17A @ 24 VOLT) N.E.C. CLASS 1 CIRCUIT 9.) FSC'S ARE INSTALLED BY CUTTING BOTH WIRES TO EACH BLOWER MOTOR AND WIRING THE FSC'S INLINE. USE HEAVIER GAUGE WIRE FOR LONG RUNS.

LEGEND				
ABBREV. SYMBOL	DESCRIPTION	MTR1	SUPPLY BLOWER MOTOR	
MCP1	STARTER, COMB. SELF PROTECTED (SUPPLY BLOWER MOTOR)	MTR2	EXHAUST BLOWER MOTOR	
		MTR3	WHEEL DRIVE MOTOR	
MCP2	STARTER, COMB. SELF PROTECTED (EXHAUST BLOWER MOTOR)	мсв	SUPPLEMENTARY PROTECTION CONTROL TRANSFORMER	
МСРЗ	STARTER, COMB. SELF PROTECTED (WHEEL DRIVE MOTOR)	СРТ	SECONDARY CONTROL TRANSFORMER	
M1	SUPPLY BLOWER MOTOR CONTACTOR		(SEE NOTE 8) CIRCUIT PROTECTOR	
М2	EXHAUST BLOWER	CPTD	CONTROL TRANSFORMER PRIMARY	
МЗ	WHEEL DRIVE	AC1	SUPPLY DAMPER ACTUATOR (OPT.)	
		AC5	EXHAUST DAMPER ACTUATOR (OPT.)	

-33-



ERV Wiring Diagram Supplement E

Single Phase Size 500-1000 208/230 Volt

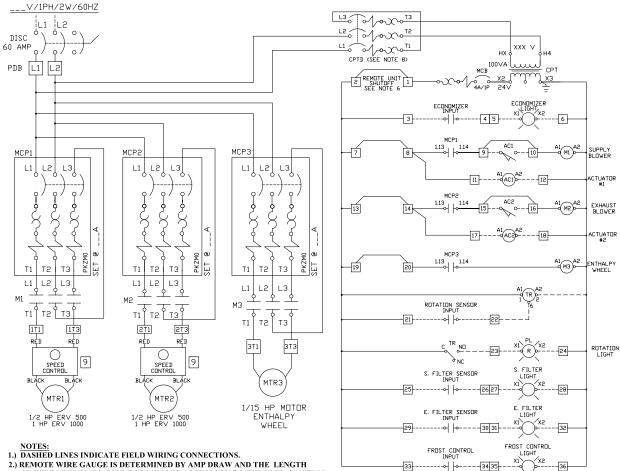
with control panel

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2.) REMOTE WIRE GAUGE IS DETERMINED BY AMP DRAW AND THE LENGTH OF WIRE NEEDED TO CONNECT REMOTE ACCESSORY TO THE UNIT CONTROL

PANEL. REFER TO N.E.C. AND LOCAL CODE REQUIREMENTS TO DETERMINE TYPE 6.) REMOVE JUMPER BETWEEN TERMINALS 1 & 2 IF REMOTE START OF WIRE AND WIRE GAUGE. 3.) MAIN DISCONNECT TO BE PROVIDED BY INSTALLER, MUST BE UL LISTED

CIRCUIT BREAKER OR FUSIBLE DISCONNECT SWITCH. 4.)OVERCURRENT PROTECTION MUST BE PROVIDED IN ACCORDANCE

WITH N.E.C. ATTICLE 430-53(C) 5.) THE WORKSPACE FOR ELECTRICAL EQUIPMENT MUST BE IN

ACCORDANCE WITH N.E.C. ARTICLE 110-26.

POWER TERMINALS

TB2

1T1

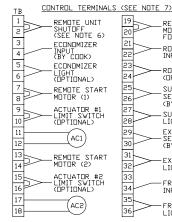
1T3

2T1

2T3

3T1

3T3



HLS	SEE NUIE	1)
	19	REMDTE START
>	20	MOTOR (3)
<i>,</i>	21	FOR ECONOMIZER
	\vdash >	ROTATION SENSOR
	22	INPUT (BY COOK)
	23	
	24	ROTATION LIGHT
T.	25	SUPPLY FILTER
	26	SENSOR INPUT
	27	(BY COOK)
ł		SUPPLY FILTER
	28	LIGHT (OPTIONAL)
	29	EXHAUST FILTER
	30	SENSOR INPUT
		(BY COOK)
T	31	EXHAUST FILTER
	32	LIGHT (OPTIONAL)
	33	
H		FROST CONTROL
	34	INPUT (BY COOK)
	35	
	36	FROST CONTROL
	20	LIGHT (OPTIONAL)

7.) ALL OF THE 36 CONTROL TERMINALS SHOWN ARE PROVIDED IN THE PANEL EVEN WHEN THE OPTIONAL CONTROLS WERE

IS REQUIRED

NOT PROVIDED. THE TERMINALS ARE PRESENT TO ALLOW FOR UNIT CONTROL UPGRADES. IF THERE ARE NO WIRES GOING TO THESE CONTROL TERMINALS, THEN THE NOTED OPTION WASN'T PROVIDED. 8.) 100 VA (4.17A @ 24 VOLT) N.E.C. CLASS 1 CIRCUIT LOWER MOTOR DR LONG RUNS.

			TING BOTH WIRES TO . USE HEAVIER GAUGE	
	LEG	END		1
ABBRE V. SYMBOL	DESCRIPTION	MTR1	SUPPLY BLOWER MOTOR]
MCP1	STARTER, COMB. SELF PROTECTED (SUPPLY BLOWER MOTOR)	MTR2	EXHAUST BLOWER MOTOR	
		MTR3	WHEEL DRIVE MOTOR]
MCP2	STARTER, COMB. SELF PROTECTED (EXHAUST BLOWER MOTOR)	мсв	SUPPLEMENTARY PROTECTION CONTROL TRANSFORMER	
мсрз	STARTER, COMB. SELF PROTECTED (WHEEL DRI∨E MOTOR)		SECONDARY	
		СРТ	CONTROL TRANSFORMER (SEE_NOTE_8)	
M1	SUPPLY BLOWER MOTOR CONTACTOR		CIRCUIT PROTECTOR	1
М2	EXHAUST BLOWER MOTOR CONTACTOR	CPTD	CPTD CONTROL TRANSFORMER PRIMARY	
МЗ	WHEEL DRI∨E MOTOR CONTACTOR	AC1	SUPPLY DAMPER ACTUATOR (OPT.)	
	MUTUK CUNTACTUR	AC2	EXHAUST DAMPER ACTUATOR (OPT.)	





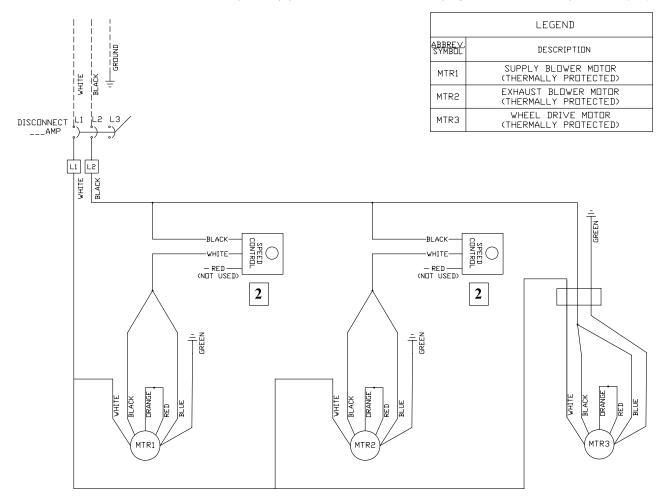
Size 500-1000 115 Volt without control panel

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NOTE: 1. DASHED LINES INDICATE FIELD WIRING CONNECTIONS. 2. WIRING DIAGRAM SHOWS PREWIRED FSC'S. IF UNIT WAS NOT ORDERED WITH PREWIRED FSC'S THEN THE FSC'S ARE INSTALLED BY CUTTING THE BLACK WIRES THAT RUN TO EACH BLOWER MOTOR AND WIRING THE FSC'S IN-LINE. FOR LONG RUNS OF WIRE, USE A HEAVIER GAUGE WIRE.



ERV Wiring Diagram Supplement G

Single Phase Size 500-1000 208/230 Volt

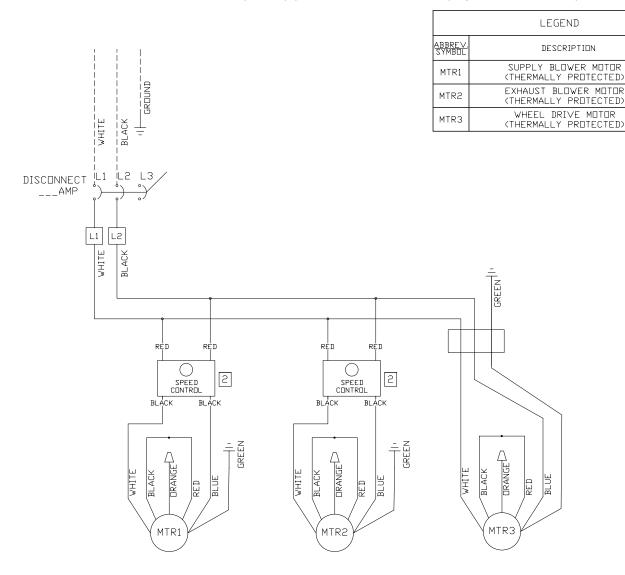
without control panel

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2. WIRING DIAGRAM SHOWS PREWIRED FSC'S. IF UNIT WAS NOT
ORDERED PREWIRED THEN FSC'S ARE INSTALLED BY CUTTING
BOTH OF THE WIRES TO EACH BLOWER MOTOR AND WIRING
THE FSC'S IN-LINE. FOR LONG RUNS OF WIRE, USE A HEAVIER
GAUGE WIRE.



ERV Wiring Diagram Supplement H

Single Phase Size 500-1000 115 Volt

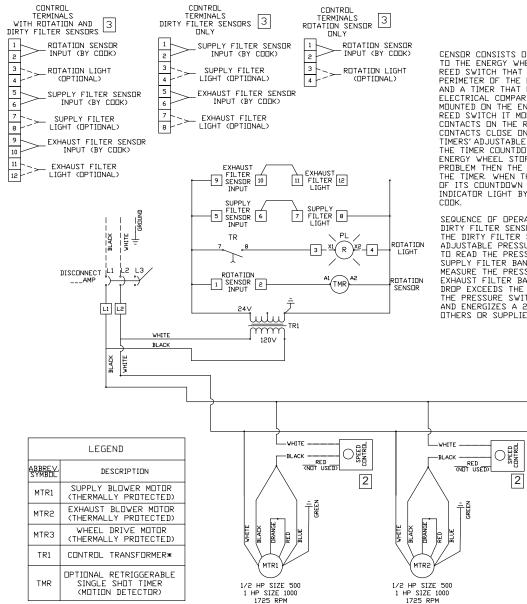
without control panel & with stand-alone rotation sensor & dirty filter sensors

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CENSOR CONSISTS OF A MAGNET ATTACHED TO THE ENERGY WHEEL, A MAGNETIC REED SWITCH THAT MOUNTS TO THE DUTSIDE PERIMETER OF THE ENERGY WHEEL CASSETTE, AND A TIMER THAT MOUNTS IN THE UNIT ELECTRICAL COMPARTMENT. WHEN THE MAGNET MOUNTED ON THE ENERGY WHEEL PASSES BY THE REED SWITCH IT MOMENTARILY CLOSES THE CONTACTS ON THE REED SWITCH. WHEN THE CONTACTS CLOSE ON THE REED SWITCH THE TIMERS' ADJUSTABLE COUNTDOWN IS RESET AND THE TIMER COUNTDOWN BEGINS AGAIN. IF THE ENERGY WHEEL STOPS DUE TO A MECHANICAL PROBLEM THEN THE REED SWITCH DOESN'T RESET THE TIMER. WHEN THE TIMER REACHES THE END OF ITS COUNTDOWN IT ENERGIZES A 24 VOLT INDICATOR LIGHT BY OTHERS OR SUPPLIED BY COUNK.

SEQUENCE OF OPERATION FOR STAND ALONE DIRTY FILTER SENSORS; THE DIRTY FILTER SENSOR CONSISTS OF TWO ADJUSTABLE PRESSURE SWITCHES, ONE MOUNTED TO READ THE PRESSURE DROP ACROSS THE SUPPLY FILTER BANK AND DNE MOUNTED TO MEASURE THE PRESSURE DROP ACROSS THE EXHAUST FILTER BANK. WHEN THE PRESSURE DROP EXCEEDS THE ADJUSTABLE SET POINT ON THE PRESSURE SWITCH, THE SWITCH CLOSES AND ENERGIZES A 24 VOLT INDICATOR LIGHT BY OTHERS OR SUPPLIED BY COOK.

GREEN

DRANGE

MTR3

1/15 HP 585 RPM

VHITE MACK

NOTE: 1. DASHED LINES INDICATE FIELD WIRING CONNECTIONS 2. WIRING DIAGRAM SHOWS PREWIRED FSC'S. IF UNIT WAS NOT ORDERED PREWIRED THEN FSC'S ARE INSTALLED BY CUTTING THE BLACK WIRE TO EACH BLOWER MOTOR AND WIRING THE FSC'S IN-LINE. FOR LONG RUNS OF WIRE, USE A HEAVIER GAUGE WIRE.

3. LOW VOLTAGE WIRING DIAGRAM SHOWS BOTH THE ROTATION AND DIRTY FILTER SENSOR OPTIONS. IF BOTH OPTIONS WERE NOT PROVIDED, REFERENCE THE CONTROL TERMINALS FOR JUST THE ROTATION SENSOR OR JUST THE FILTER SENSOR AND DISREGARD WHAT WAS NOT PROVIDED ON THE LOW VOLTAGE WIRING DIAGRAM.



ERV Wiring Diagram Supplement I

Single Phase Size 500-1000 208/230 Volt

THF

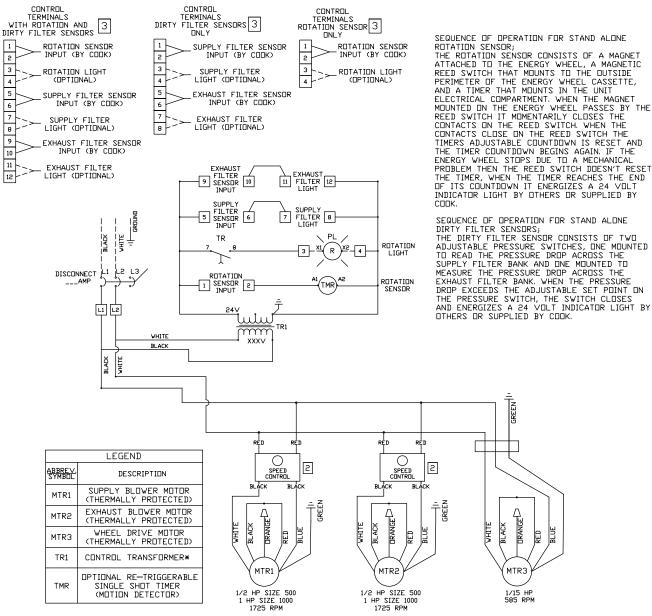
without control panel & with stand-alone rotation sensor & dirty filter sensors

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3. LOW VOLTAGE WIRING DIAGRAM SHOWS BOTH THE ROTATION AND DIRTY FILTER SENSOR OPTIONS. IF BOTH OPTIONS WERE NOT PROVIDED, REFERENCE THE CONTROL TERMINALS FOR JUST THE ROTATION SENSOR OR JUST THE FILTER SENSOR AND DISREGARD WHAT WAS NOT PROVIDED ON THE LOW VOLTAGE WIRING DIAGRAM. Ĩ

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