

**PARTS LIST
AND
SCHEMATICS
MODEL NO: EV21
SERIAL NO.: 409380**

WESTERN DIGITAL

REPLACEMENT PARTS LIST FOR MODEL NO. EV21
SERIAL NO. 409380

ESPEC NO.	REV.	DESCRIPTION	MFG. NO.	SYMBOL
BP31-DG	NS	BINDING POST GREEN 5-WAY		C-1 10 MFGR: SUPERIOR ELECTRIC VEND: NEWARK
6ACE0044		BLOCK DIST 3P 115A (1)2-14 (4)10-6	1413400	DB1
6ACE0022		BLOCK FUSE 250V 30A 1P	R30A1SP	FB7
6ACE0160		BLOCK FUSE 600V 30A "J" W/COVER	JT60030	FB3,6
6ABZ0005		BOARD OHP/OCF PROTECTOR	HCP-T 21801010003 00	THS1
5AAC0451	B	BRACKET BUZZER		BZ1-BRKT
6ABT0311		BREAKER 480V 3P 15A	GD3015C	MB1
5AAG0035		BRKT OHP/OCF SET POINT		THS1-SP BRKT
SRB-700	NS	BUSHING 2-1/2" NO HOLES		C-1 F1, F8- BUSHING VENDOR: CRESCENT MFGR:
4589K92	NS	BUSHING CPVC 1 1/4 X 1/2		VENDOR: MCMASTER- CARR
6ACC0025		BUZZER 30-120 VAC	MW-09-201-S	BZ1
6AAV0066	A	CABLE 4 COND W/SHIELD 22GA 300V 80C	2404C	500 FT SPOOLS. GRAY JACKET 4 CONDUCTOR RED,
25401	NS	COAX CABLE CONNECTOR HERMETIC FEEDTHROUGH 1"		C-1 F2, F3 MFGR: DOUGLAS ELECTRICAL COMPONE
6ABX0016		CONNECTOR 9PIN MALE 'D'	DS-9P	RS232
6ABU0289		CONTACTOR 120V 3P AC1=25A AC3=9A	LC1-D09G7	CTP1
RSR-700-W	NS	CORD GRIP 2-1/2" (NO BUSHING)		C-1 F1 & F8 VENDOR: CRESCENT MFGR: REMKE
6ABS0248		CORD GRIP ALUM 3/4" (NO BUSHING)	RSR-200-W	CORD GRIP- T/C,LIGHT
6ABS0249		CORD GRIP BUSHING 3/4" (SOLID)	SRB-200	GRIP BUSHING T/C, LIGHT

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29526/AL	NS	D-SUB FEEDTHROUGH 15 PIN HERMETICALLY SEALED		C-1 F4, F5, F6 MGFG: DOUGLAS ELECTRICAL COM
29706/AL	NS	D-SUB FEEDTHROUGH 26 PIN HERMETICALLY SEALED		C-1 F9 MFGR: DOUGLAS ELECTRICAL COMPONENTS
5279-C	NS	FLANGED OUTLET NEMA 5-15R		C-1 7 MFGR: LEVITON VENDOR: CRESCENT
6AAU0092		FUSE 250V 4A	FRN-R-4	F7
6AAU0092		FUSE 250V 4A	FRN-R-4	F7
6ACE0097		FUSE COVER F30A/R30A	CHR230	FB7-COVER
6AAU0082		FUSE DUAL ELEMENT 600V 3A	LPJ-3SP	F6
6AAU0082		FUSE DUAL ELEMENT 600V 3A	LPJ-3SP	F6
6AAU0098		FUSE DUAL ELEMENT 600V 4A	LPJ-4SP	F3
6AAU0098		FUSE DUAL ELEMENT 600V 4A	LPJ-4SP	F3
6ABT0324		HANDLE ATTACH PADLOCK (GD SERIES)	GPLKOFF	
6ABT0396		HANDLE ATTACH PADLOCK (J250)	FJPHLOFF	
6ABR0229		INLET FLANGED LOCK 15A 125V 2P 3W	ML2-PB	C-1 8 MATES WITH 460819-01 FEMALE
6ABR0196		INLET POWER 10A/250VAC 2P/WG	701W-X2-04	C-1 6
6ABU0315		JUMPER 20P GRAY RELAY ISOLATION	700TBJ20G	
6ACX0071		LAMP BALLAST FLOURESCENT	8305K24	FBL1
6ACX0069		LAMP FLOURESCENT SHORT TWIN	PL-S 13W/27	
6ACX0070		LAMP HOLDER VERT SCREW DOWN	26720-400	
6ACX0007		LIGHT AMBER FLUSH 125V	32R-2313T	LT1,2,3
C-409380-150	NS	LIGHT ASSY		
6ABW0196		LIGHT DOME RED 32R-2211T	32R-2211T	LT4
6ACE0020		LUG GROUND (1)2/0-14/(4)4-14	9740700	GND
6ACB0001		METER HOUR 110V 50/60HZ	TH632M11/21 70501017800	RTM
6ABU0032		MONITOR POWER 208-480V 50/60HZ	001533	PPM
6AAR0134		PANEL LATCH SLOTTED .45-1.07 GRIP	E3-19-15	
6ACE0111		PANEL TERMINAL 20 POSTION	02-912.4	R- PNL,V1,R2,R3
6ABN0226		POWER SUPPLY 24VDC/300MA	PS5RA24	PS1

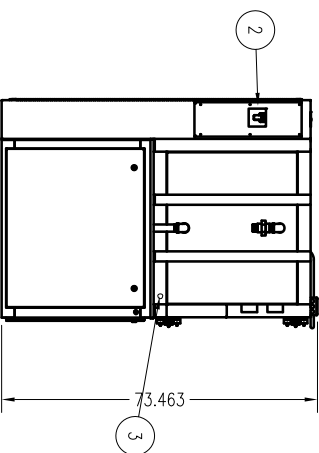
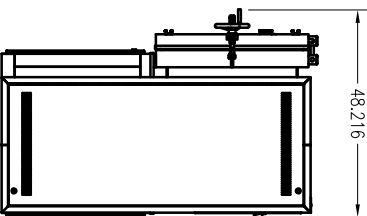
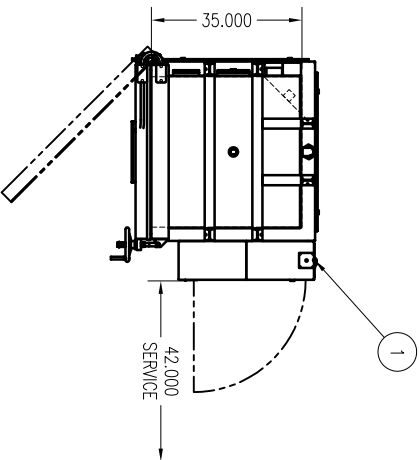
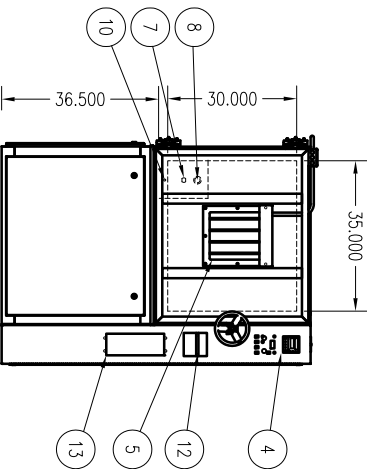
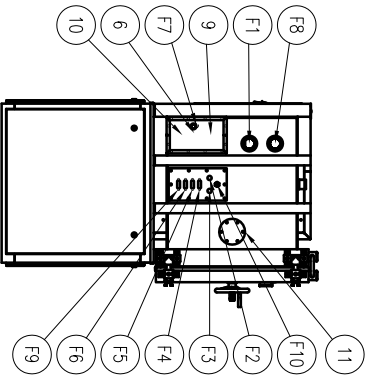
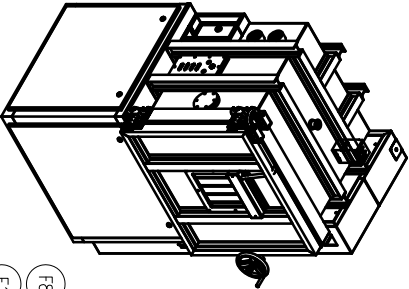
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KSVB-25	NS	PUMP VACUUM 3/4" 460V/3PH/60HZ		VP901 MANUF: KINNEY VENDOR: BROOKS EQUIPMEN
6ABE0074		RECORDER VIDEO 6CH 32MB FLASH	FX106-4-2/C7	RCD
6ABR0091		RECPTACLE FLNGD 2P/WG 15A/125V	ML2-PER	C-1 9 MATES WITH 460819-01 MALE
6ABU0027		RELAY 4PDT 3A 120V COIL	MY4-120V	CRM,FR,SR,EV 1,AR1,AR2
6ABU0311		RELAY ISOLATION 24VDC SPDT 6A	700HLT1Z (24)	CRPV1,EV1-8
6ABU0313		RELAY ISOLATION END BARRIER	700HN177	
6ABU0316		RELAY ISOLATION JUMPER 20P BLUE	700TBJ20B	
6ABU0317		RELAY ISOLATION MARKER 100PER CARD	1492MC6X10	
6ABU0300		RELAY OVERLOAD 2.5-4A CLASS 10	LRD08	OL3
6ABU0029		RELAY SOCKET 4P (FOR MY4)	PYF14A	CRM,FR,SR,EV 1A,AR1,AR2- SCK
6ADE0032		RESISTOR 10K OHM 1/8W	PTF-56 10K B T-13	R2
6ADE0002	A	RESISTOR 250 OHM 1/4 WATT (.1%)	PTF56-BT-13- 250-.1% (LEAD FREE)	R3
6ADE0001		RESISTOR CARBON +/-5% 1200 OHM 1W	NCF 1W-1200	R-RTM
8302K121	NS	RUBBER CORD GRIP		mc master
6ABZ0006		SELECTOR OHP/OCF PROTECTOR	21161318 - AB-7 21801010001 00	THS1-SP
6ACJ0072		SENSOR 0-15 PSI 4-20MA (10-40VDC)	PX41T0-015AI	P/I
6ABN0468		SIGNAL CONDITION +/-10VDC TO 4-20MA	VJX7-A16- 1ANO	SIG COND
6ABN0294		SOFTWARE WATVIEW RUNTIME EDITION F4	WATVIEW RUNTIME EDITION	
6ABW0018		SWITCH ROCKER SPDT MAINTAINED	1803.1121/R5 0	SW1,2
6ABW0022		SWITCH ROCKER SPST NC MOMENT RED	H8602VBBR	PB2
6ABW0021		SWITCH ROCKER SPST NO MOMENT	H8601VBBB	PB3,4
6ACJ0028		THERMOCOUPLE SHEATH TYPE T 24AWG	20TTTTZ084A	T/C 1
6ACF0043		TIMER MULTI-FUNCTION .15-100HR 1P	DMB51CM24	TRDD
6ACF0044		TIMER ON-DELAY 2P 24VDC/24-240 VAC	DAA01DM24	TRFR
6ACA0093		TRANSFORMER 500VA 240X480P 120X240S	500SV1B	T1
6ADE0018		TRANSIENT VOLTAGE SURGE SUPPRESSOR	58K7214	V1

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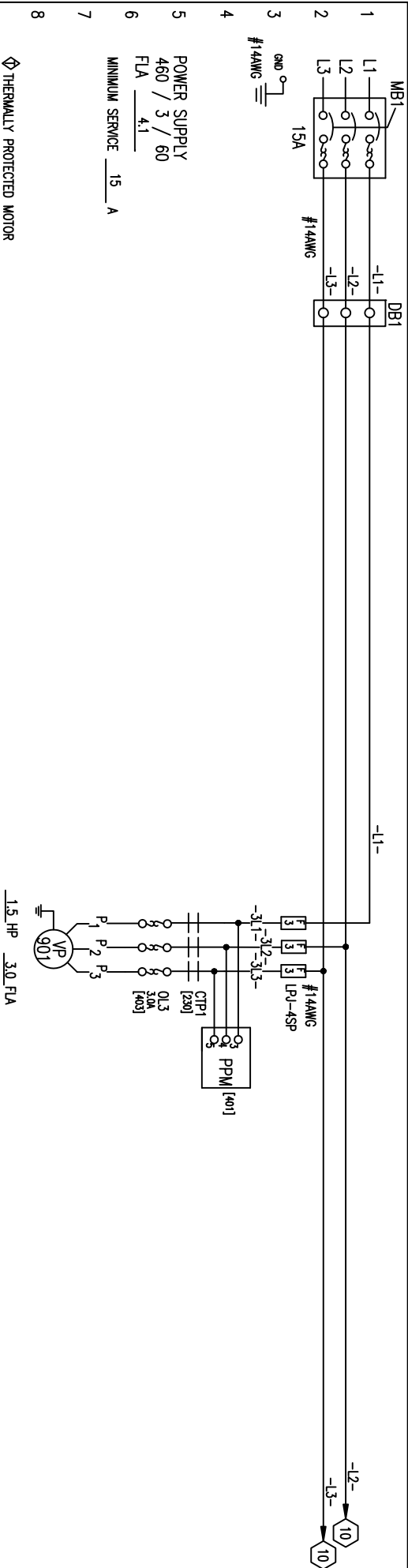
4649K76	NS	VALVE BALL 1 1/4" HIGH VACUUM		HV902 VENDOR: MCMASTER- CARR
4649K73	NS	VALVE BALL 1/2" HIGH VACUUM		HV901 VENDOR: MCMASTER- CARR
6ACQ0014		VALVE CHECK 1.25" VACUUM	066226 OBRZ	CV901
8030G17VM	NS	VALVE SOLENOID 1/2" VACUUM 120VAC		SL902 VENDOR: ASCO
8210G95VM	NS	VALVE SOLENOID 3/4" VACUUM 120VAC		SL901 VENDOR: ASCO
6AAG0002		VIBRATION ELIMINATOR 7/8" OD	VAF-8	VE901
28023/4/4	NS	WIRE HARNESS FEEDTHROUGH 12 WIRE 16AWG 3/4NPT		C-1 F7 MANUFACTUR ER: DOUGLAS ELECTRICAL COMP
6071K320	NS	YOKE		MC MASTER

NO.	NAME	NUMBER	QTY.	REMARKS
F1	FEEDTHRU #1		1	
F2	FEEDTHRU #2		1	
F3	FEEDTHRU #3		1	
F4	FEEDTHRU #4		1	
F5	FEEDTHRU #5		1	
F6	FEEDTHRU #6		1	
F7	FEEDTHRU #7		1	
F8	FEEDTHRU #8		1	
F9	FEEDTHRU #9		1	
F10	FEEDTHRU #10		1	



NO.	NAME	NUMBER	QTY.	REMARKS
1	MAIN POWER INLET		1	
2	MAIN POWER DISCONNECT		1	
3	VAC PUMP EXHAUST OUTLET		1	
4	OPERATOR CONTROLS		1	
5	WINDOW, W/LIGHT		1	11" x 11" VIEW
6	INLET, 115VAC		1	
7	RECEPTACLE, 115VAC		1	
8	INLET, TWIST-LOCK		1	
9	RECEPTACLE, TWIST-LOCK		1	
10	GROUND LUG		2	
11	PORT WITH COVER AND GASKET		1	4" DIA
12	RECORDER		1	
13	OPTION PANEL		1	

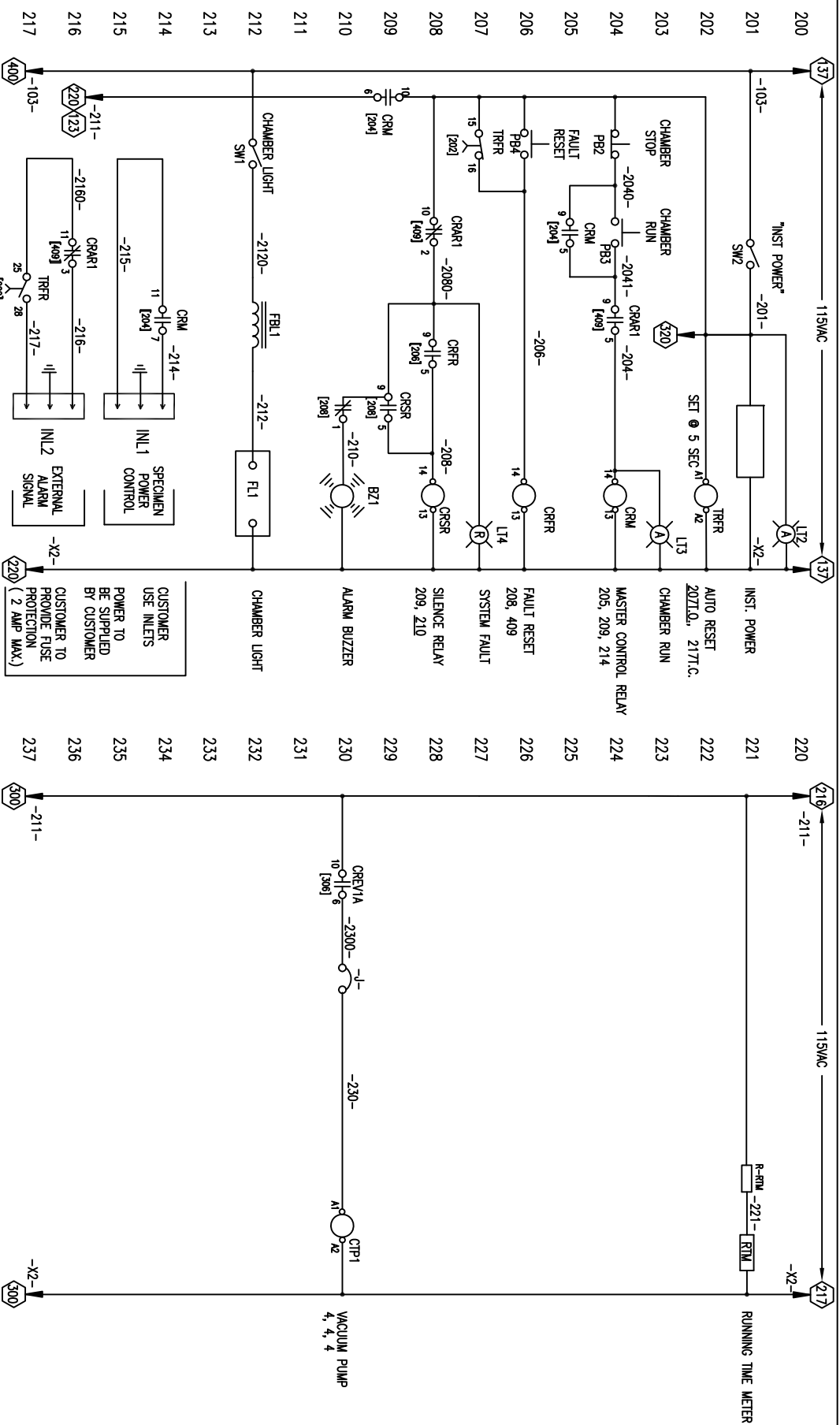
TITLE: EFD 0603B 10-22-98 REV. 1.01				DRAWING REVISION REV A 6/17/08 JMP REVISED CHAMBER BASE AND CONSOLE			
MATERIAL				DRAWN JMP DESIGNED GLM TOLERANCE ±0.50			
DATE 5/16/08 SCALE 1:30 UNITS INCHES				TITLE: CHAMBER CONCEPT MODEL NO. EV21			
ESPEC NORTH AMERICA, INC. 4141 Central Parkway Hudsonville, MI 49426				DRAWING NO. C-409380-001 1/1			
REVISION A							

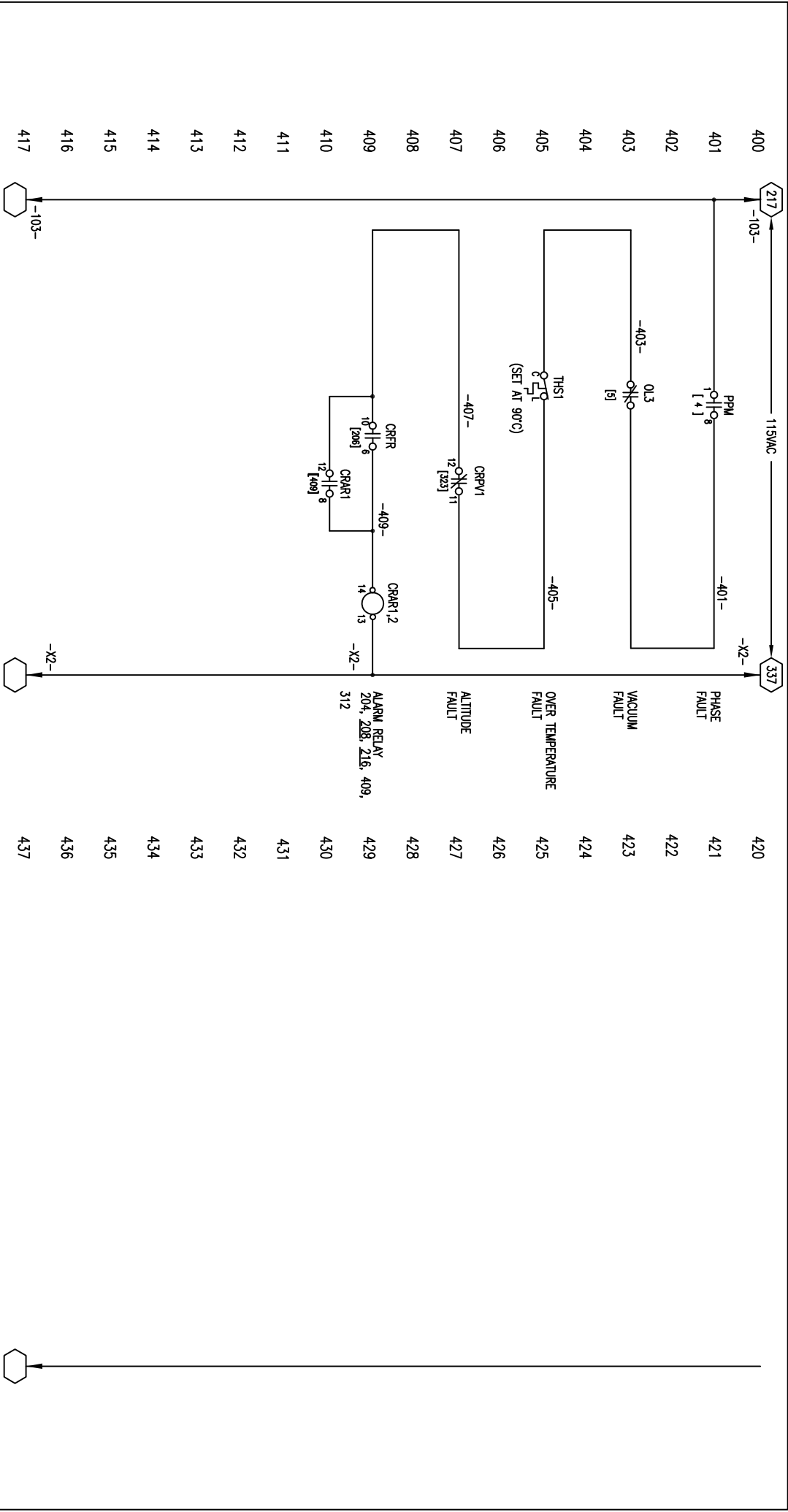


⚠ THERMALLY PROTECTED MOTOR
* RLA=MAXIMUM COMPRESSOR RATED LOAD AMPS FOR BRANCH SELECTION/ ACTUAL RUNNING AMPS WILL BE LESS

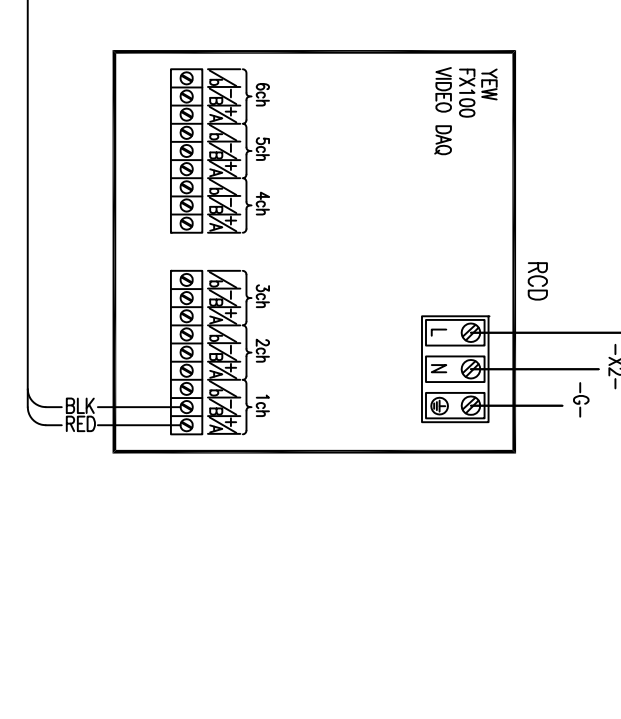
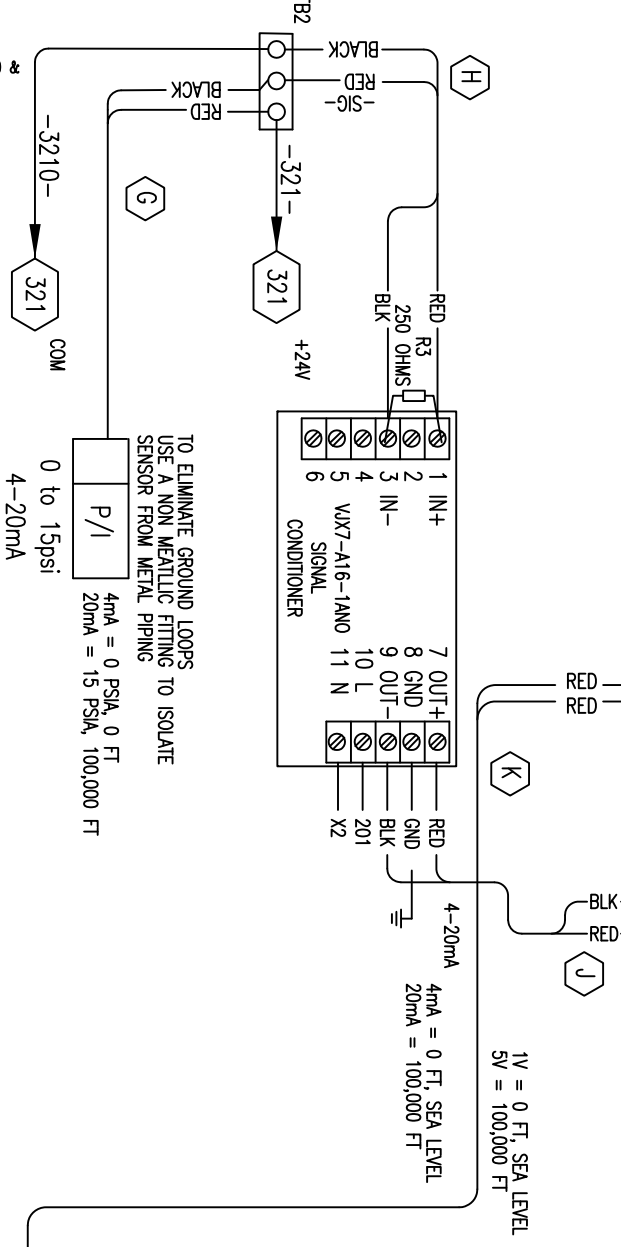
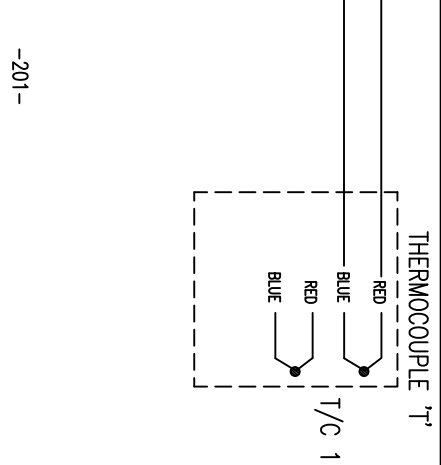
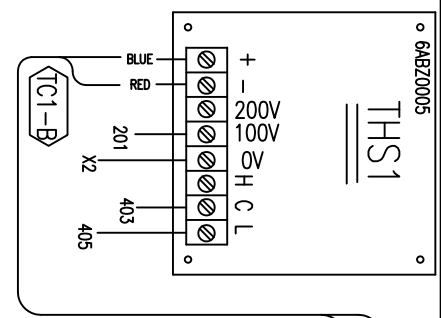
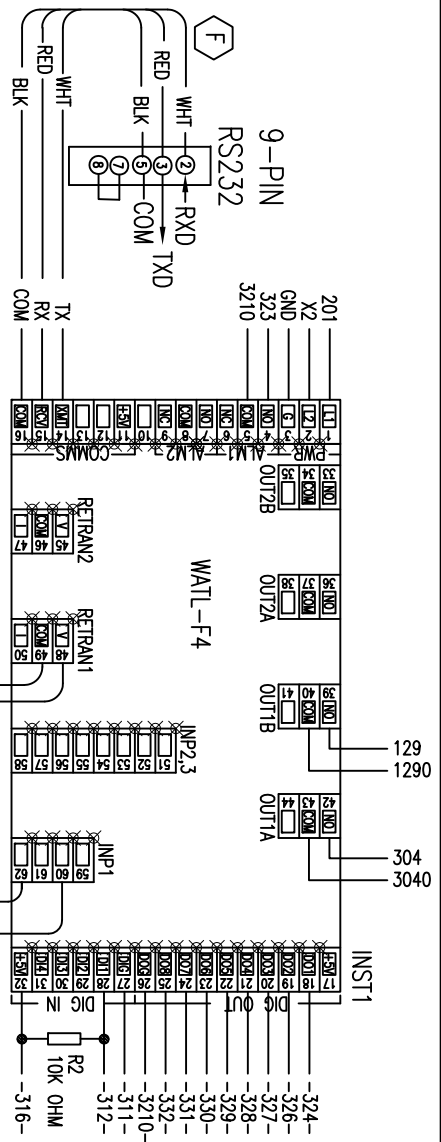


TITLE: EFD 0603B 10-22-98 REV. 1.01		DRAWING NO. E-409380-P1		REVISION A				
DRAWING REVISION								
A: 12/17/08 MAR ADDED PPM								
espec ESPEC NORTH AMERICA, INC. 4141 Central Parkway Hudsonville, MI 49426								
					MATERIAL		TITLE:	
							DRAWN	DATE
							DRB	06/04/08
							DESIGNED	SCALE
DRB	1:1							
TOLERANCE	UNITS							
N/A	INCHES							

[illegible]



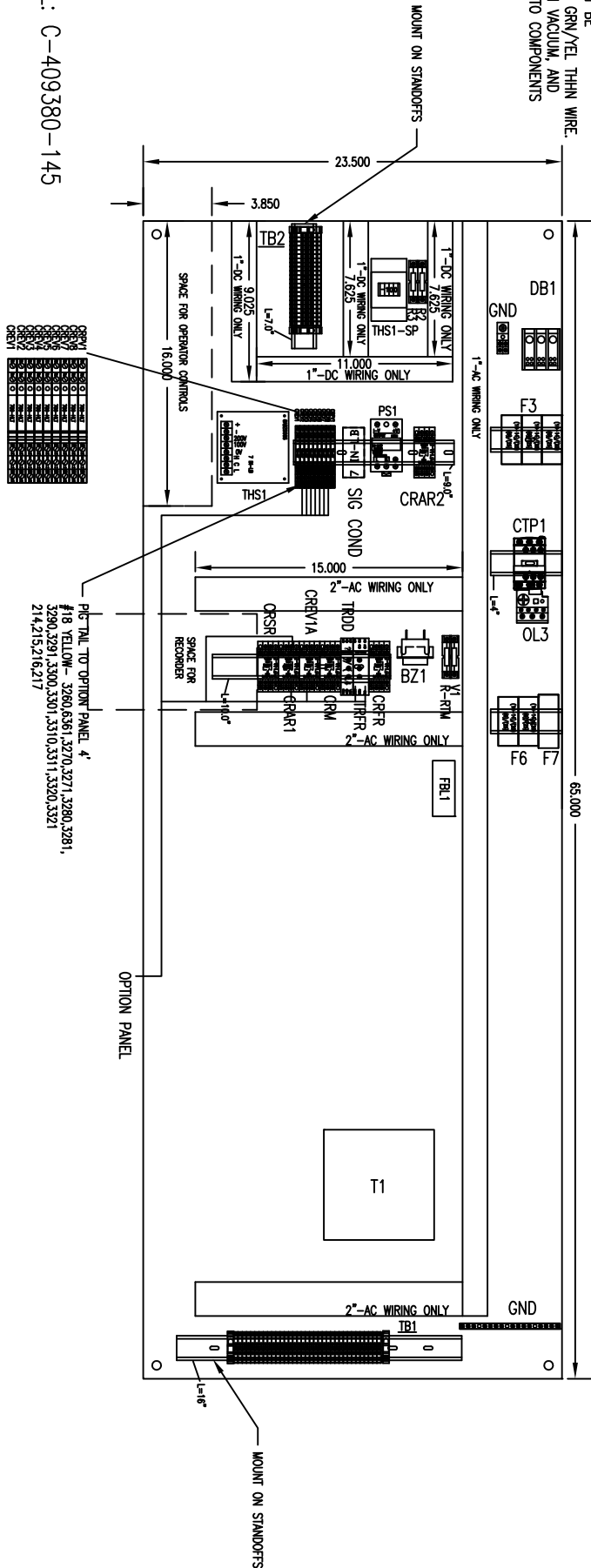
TITLE: EFD 0603B 10-22-98 REV. 1.01			
DRAWING REVISION			
A: 12/11/08 DRB ADD THS1 LINE 405			
B: 12/17/08 MAR ADD PPM LINE 401			
MATERIAL		DRAWN DRB	
		DATE 06/05/08	
		DESIGNED DRB	
		SCALE NA	
		TOLERANCE NA	
		UNITS NA	
TITLE:		MODEL NO.	
CONTROL SCHEMATIC		EY21	
DRAWING NO.		REVISION	
E-409380-04		B	



TITLE: EFD 0603B 10-22-98 REV. 1.01			
DRAWING REVISION			
A: 12/11/08 DRB THS1 C WAS 2300, L WAS 230			
SWPAP WIRES 129 & 304, 1290 & 3040			
MATERIAL		TITLE:	
DRAWN: DRB DESIGNED: DRB TOLERANCE: UNITS: INCHES		DATE: 06/13/08 SCALE: 1:1 MODEL NO.: EVT21	
ESPEC NORTH AMERICA, INC. 4141 Central Parkway Hudsonville, MI 49426		INSTRUMENTATION E-409380-05	
REVISION B			

MEG NOTE: AC AND DC WIRES MUST BE ROUTED SEPARATE AND IN APPROPRIATE AC OR DC PANEL CHANNELS AS SHOWN ON PANEL LAYOUT.

- NOTE:
1. ELEC BOX DOOR MUST BE GROUNDED USING A #14 GRN/YEL THHN WIRE.
 2. CONNECT WIRES FROM VACUUM, AND TRANSFORMER DIRECTLY TO COMPONENTS



ELECTRICAL PANEL: C-409380-145

TITLE: EFD 0603B 10-22-98 REV. 1.01							
DRAWING REVISION							
A: 10/29/08 DRB ADD 206 TO TB1							
B: 12/01/08 DRB SPACE FOR RECORDER WAS IN WRONG PLACE RELOCATE CRFR FROM BEHIND RECORDER							
C: 12/11/08 J.BURRESS ADDED GND LUG 5AAG0380 PER R.HOSLEY & NCM-9188.							
espec ESPEC NORTH AMERICA, INC. 4141 Central Parkway Hudsonville, MI 49426							
				MATERIAL		ELECTRICAL PANEL LAYOUT	
DRAWN		DATE		ELECTRICAL PANEL LAYOUT			
DRB		06/17/08					
DESIGNED		SCALE					
DRB		1:1					
TOLERANCE		UNITS		MODEL NO. EVT21			
		INCHES					
DRAWING NO.		E-409380-30		REVISION			
		1 OF 3		C			

espec
ESPEC NORTH AMERICA, INC.
4141 Central Parkway
Hudsonville, MI 49426

TB1 TERMINALS

	X1(3),X2(9),103(2)129,201(2),204,205,206,212,221,230,304, 1290,2040,2041,2080,2120,2300,3040,S(4)

TB2 TERMINALS

	311,312,321,316,323,324,326,327,328,329,330,331,332,3210,5

OPTION PANEL WIRES

	214,215,216,217,3260,3261,3270,3271,3280,3281,3290,3291,3300,3301,3310,3311,3320,3321,GND

TITLE: EFD 06038 10-22-98 REV. 1.01					
DRAWING REVISION					
 ESPEC NORTH AMERICA, INC. 4141 Central Parkway Hudsonville, MI 49426		MATERIAL		TITLE: ELECTRICAL PANEL LAYOUT 480V	
		DRAWN DRB	DATE 06/16/08	MODEL NO. EV21	
		DESIGNED DRB	SCALE 1:1		
		TOLERANCE	UNITS INCHES		
		DRAWING NO. E-409380-30 2 OF 3		REVISION C	

TITLE: EFD 0603B 10-22-98 REV. 1.01			
DRAWING REVISION			
A 12-8-08 T. EBELS ADDED VE901 B 12-11-08 T. EBELS UPDATED SCHEMATIC			

