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# COX

Research and Technology, Inc.

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## SIMPLEX PUMP CONTROL PANEL

Cox Research and Technology, Inc.  
14697 S. Harrells Ferry Road  
Baton Rouge, LA. 70816  
(225) 756-3271 Fax (225) 755-1030

CP-1699

VOLTAGE	230V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	1/60	
NO. MOTORS	1	
HP	1	
FLA	10	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	ABS	
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Fiberglass	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Floats	(Floats, Bubbler, Other)
CAPACITORS		(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

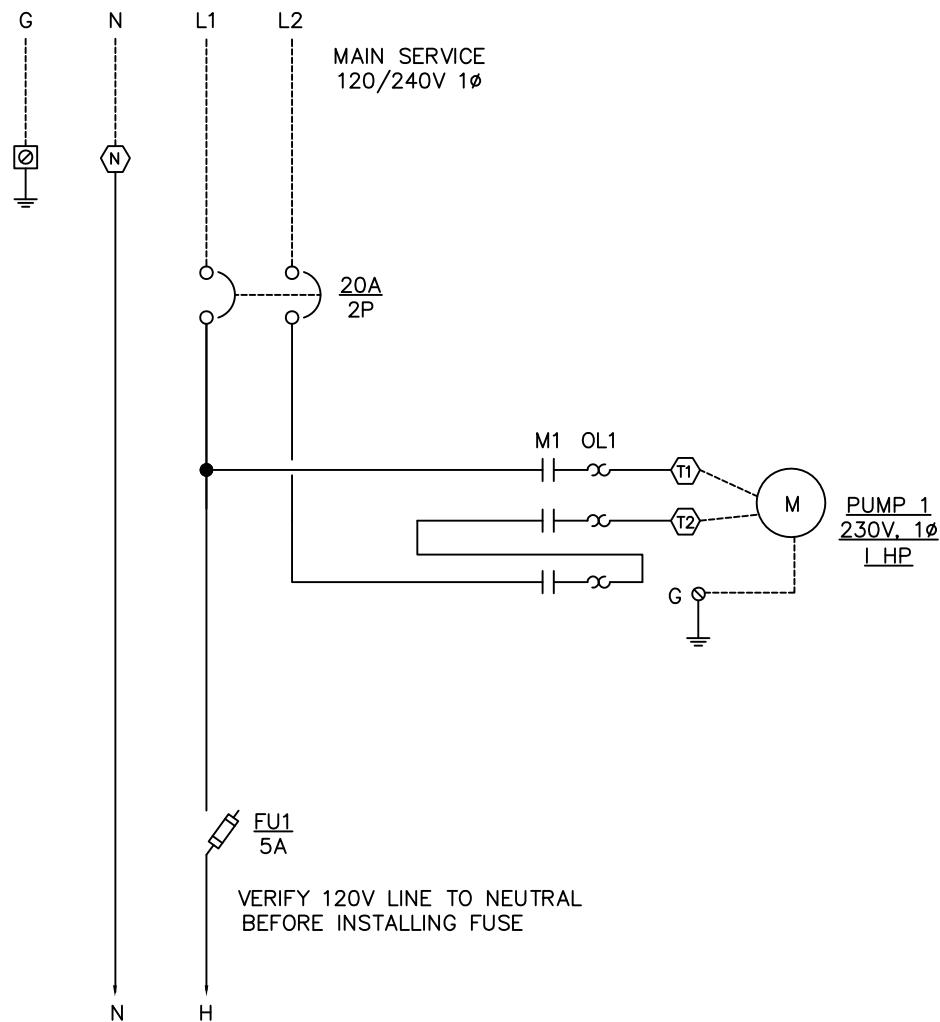
OPTIONS:

SEAL FAIL LIGHTS		(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN	X INGRAM	
ALARM LIGHT	X	
LIGHT PANEL MTD	X ON DOOR	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER		
ELAPSED TIME METER		
PHASE MONITOR		
NEMA RATED STARTERS		
GROUND FAULT RECPT.		
GREEN RUN LIGHTS VS. RED		
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET		
ECONOMY VERSION		

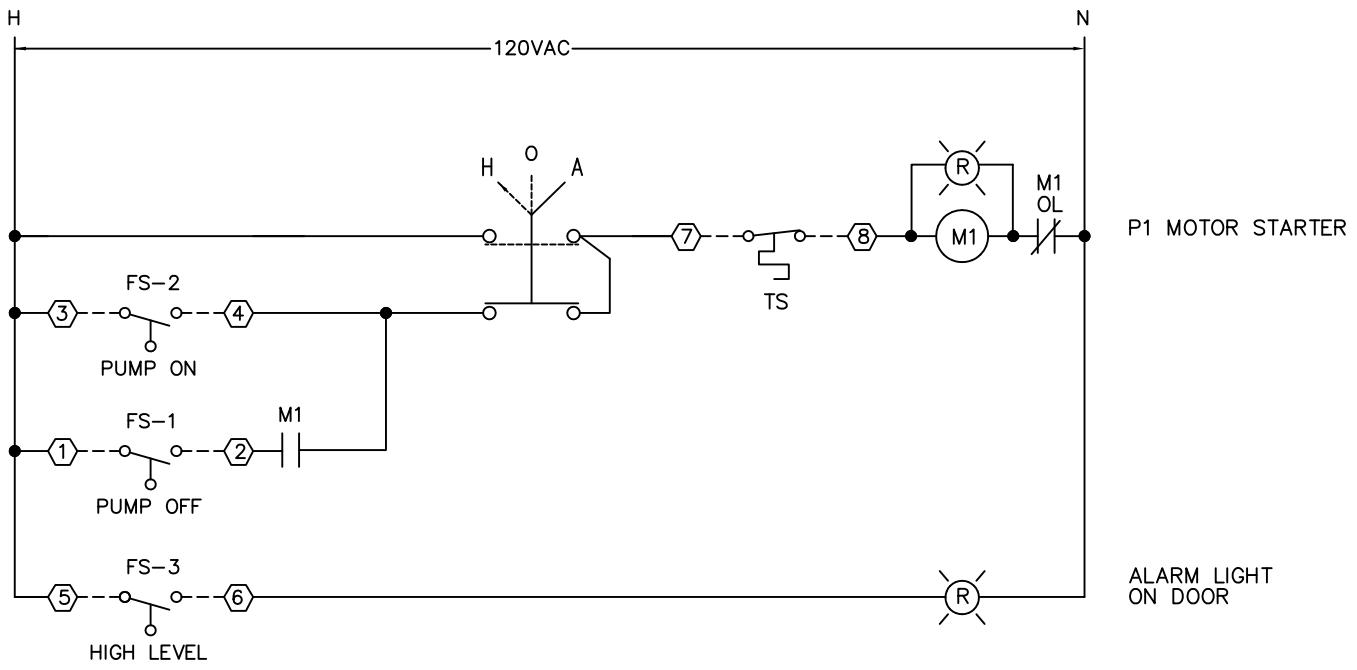
SOLD TO: CFEE  
 TAG : \_\_\_\_\_  
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SHIP TO:  
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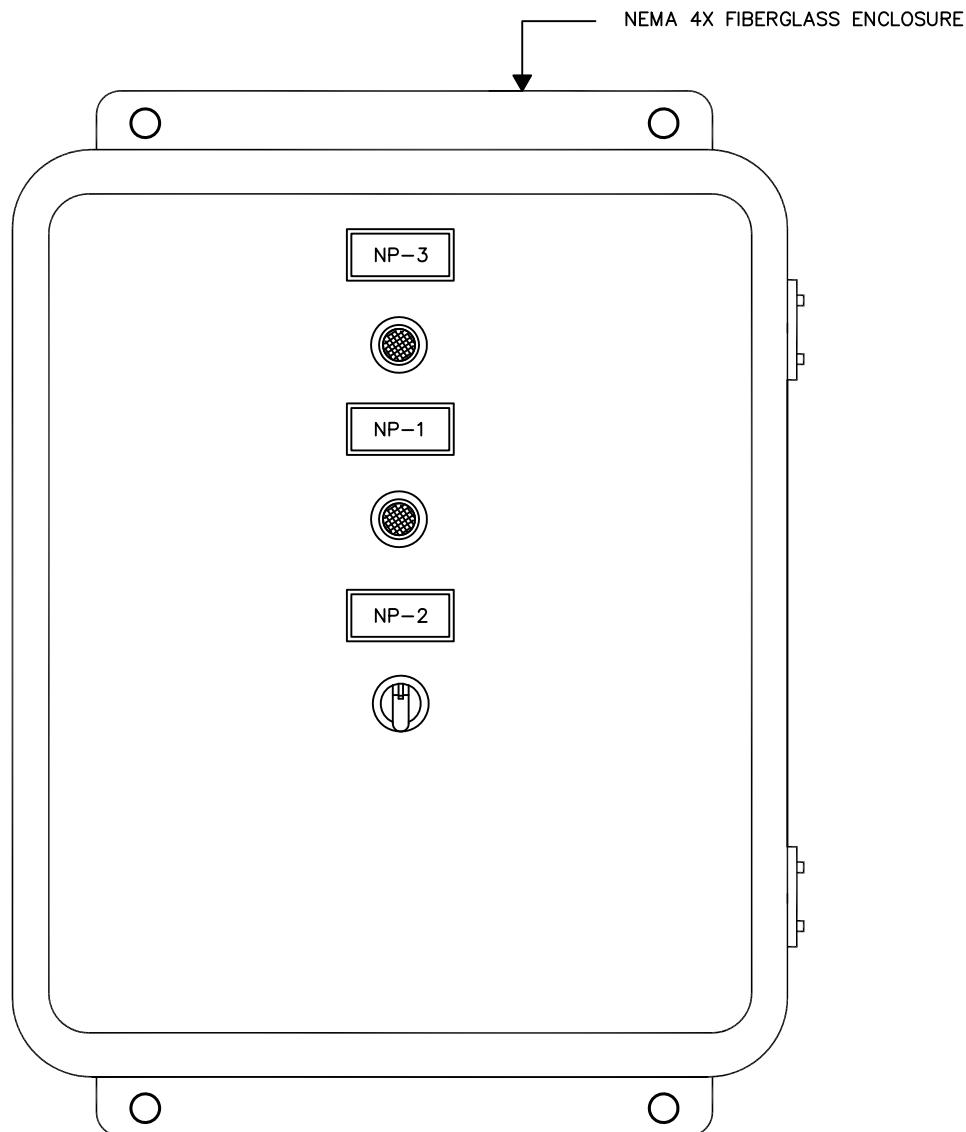
	Drawing Title							
	PANEL DESCRIPTION							
			REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN
S/N	Sales Engineer	Application Engineer	DRAWN		BY C. RACHAL	BY	APPROVED	DATE
	C.C.	R.C.	BY					BY DATE
DATE 11/20/03	Project Title  SIMPLEX 1 PHASE CONTROL PANEL	<hr/> <b>COX</b> <hr/> Research and Technology, Inc. <hr/>		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER		
						DRAWING NUMBER		
						CP-1699		
						SHEET NUMBER		
						1		



	Drawing Title					
	POWER DIAGRAM					
DATE 11/20/03	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
		C.C.	R.C.	BY C. RACHAL	BY	DATE
	Project Title	<hr/> <hr/> <hr/> <b>COX</b> Research and Technology, Inc. <hr/> <hr/>			PURCHASE ORDER NUMBER	
	SIMPLEX 1 PHASE CONTROL PANEL				DRAWING NUMBER CP-1699	
					SHEET NUMBER 2	



	Drawing Title  CONTROL DIAGRAM						
DATE 11/20/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN APPROVED BY	DATE DATE
	Project Title  SIMPLEX 1 PHASE CONTROL PANEL		<hr/> <hr/> <b>COX</b> <hr/> <hr/> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
				Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1699		
					SHEET NUMBER 3		



VIEW OF FRONT OF PANEL

NOTE:

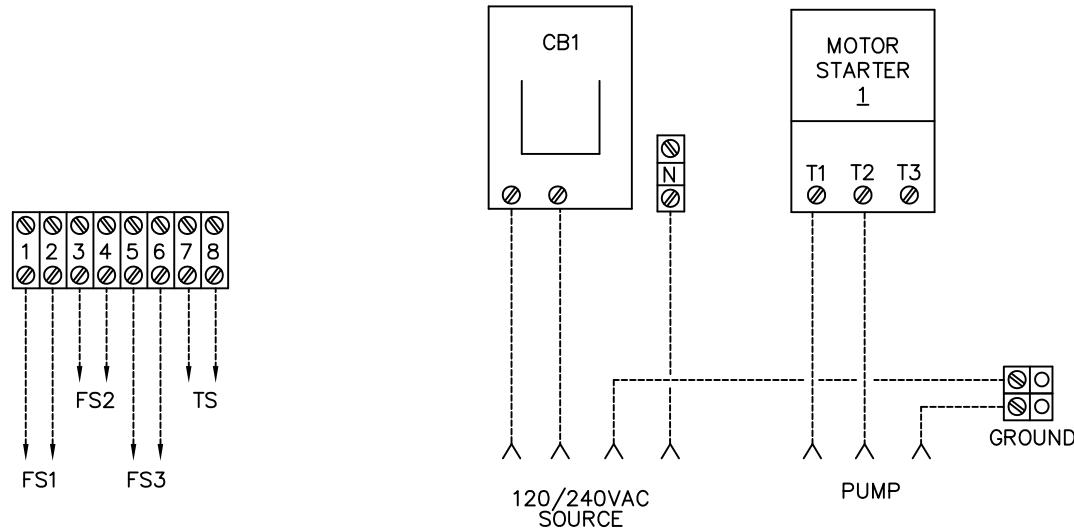
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.  
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE  
PANEL TO PREVENT ENTRY OF GASSES.

NAMEPLATE SCHEDULE

NP-1	RUN
NP-2	HAND OFF AUTO
NP-3	HIGH LEVEL

	Drawing Title					
	ENCLOSURE					
DATE 11/20/03	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY
	Sales Engineer	Application Engineer R.C.			APPROVED	
				BY	DATE	
	Project Title	<hr/> <hr/> <b>COX</b> <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/>		P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	SIMPLEX 1 PHASE CONTROL PANEL			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1699	
					SHEET NUMBER 4	

FS1 - FLOAT SWITCH 1  
 PUMP OFF  
 FS2 - FLOAT SWITCH 2  
 PUMP ON  
 FS3 - FLOAT SWITCH 3  
 HIGH LEVEL ALARM  
 TS - TEMPERATURE SWITCH



	Drawing Title					
	EXTERNAL CONNECTIONS					
DATE 11/20/03	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE	BY
Project Title SIMPLEX 1 PHASE CONTROL PANEL	<b>COX</b> Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
				Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1699	
					SHEET NUMBER 5	

## BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	VYNCKIER	VJ1412HPL	ENCLOSURE
1a	1	VYNCKIER	BP1412AL	BACKPLATE
2	1	ABB	A16-30-10-84	MOTOR STARTER
3	1	ABB	TA25DU11	O.L. RELAY (7.5-11A)
4	1	SQUARE D	QOU220	CIRCUIT BREAKER
5	2	ACI	JR22FR	RED PIOLT LIGHT
6	1	ACI	JR22P3M20B	HOA SWITCH
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	Drawing Title						
	<b>BILL OF MATERIALS</b>						
DATE 11/20/03	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	
	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED		
		C.C.	R.C.	BY C. RACHAL	BY	DATE	
	Project Title	<hr/> <b>COX</b> <hr/> Research and Technology, Inc. <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	SIMPLEX 1 PHASE CONTROL PANEL				Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1699	
						SHEET NUMBER 6	