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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		

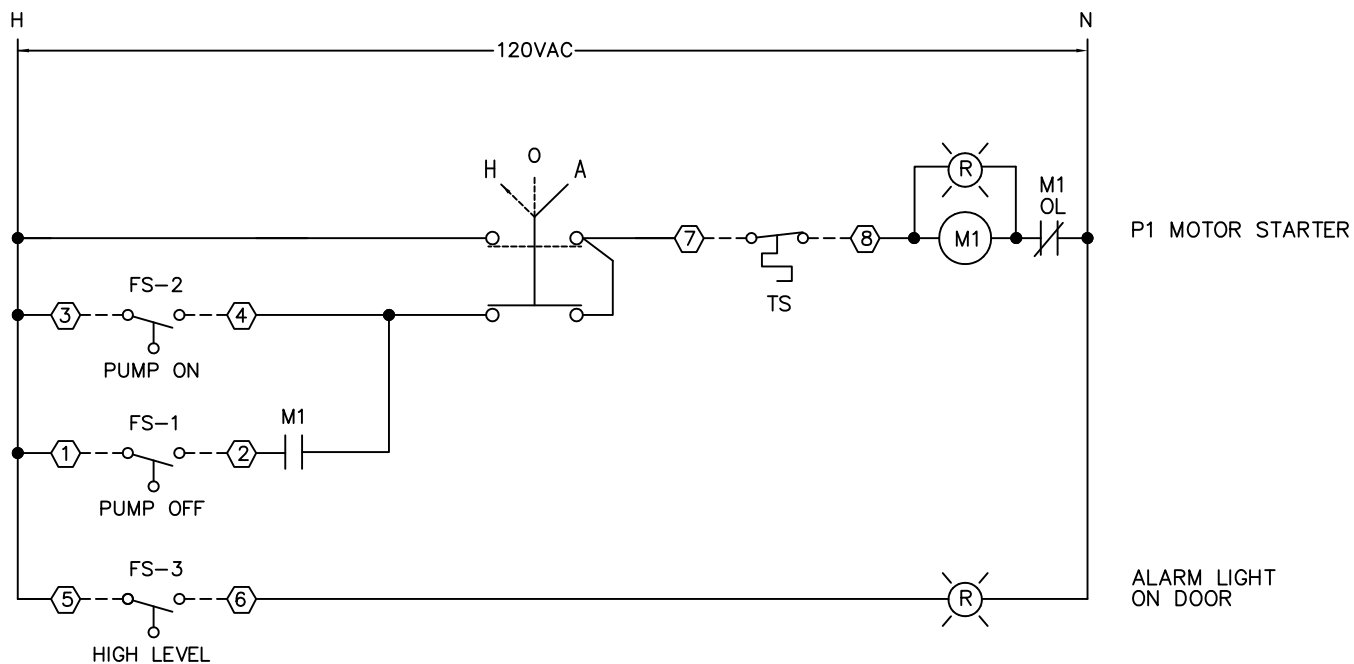
SOLD TO: CFEF

TAG :

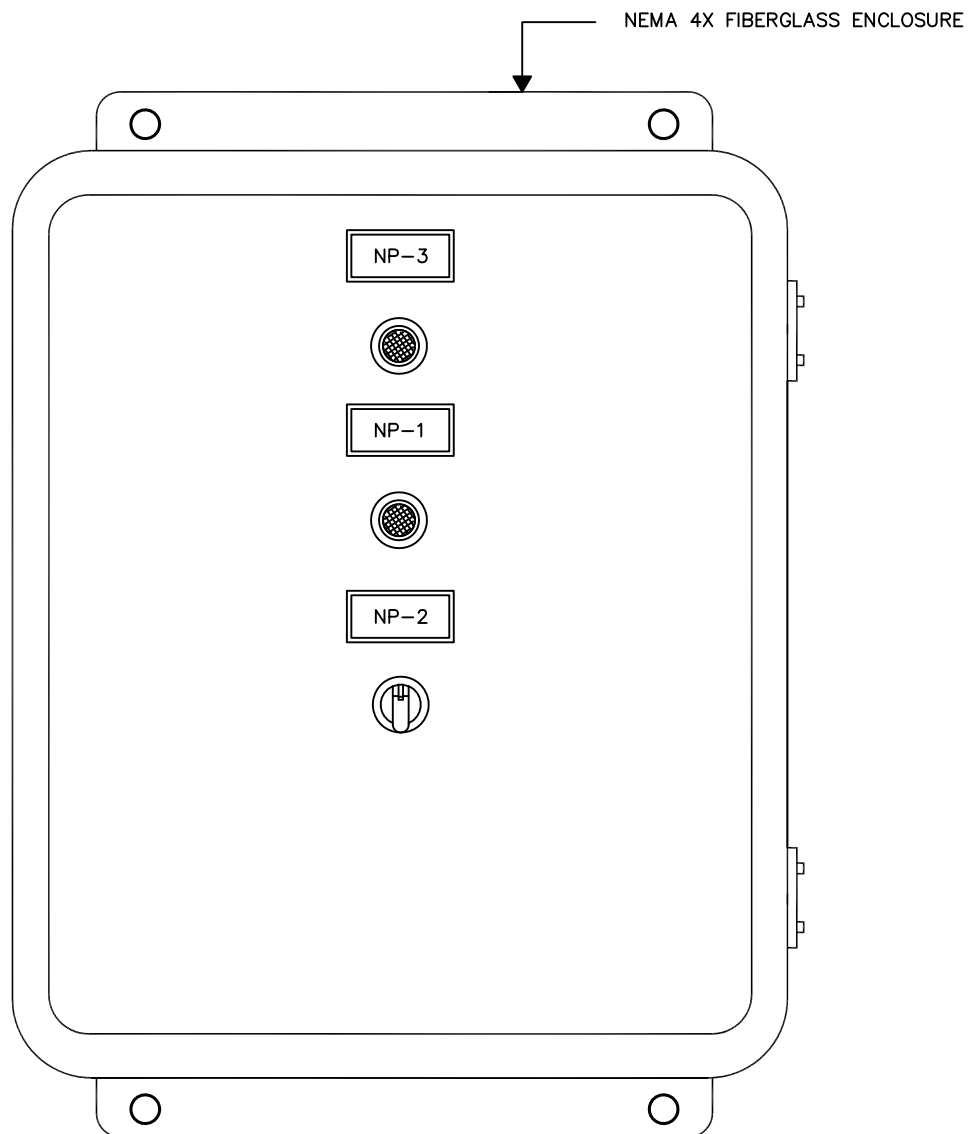
SHIP TO:

	Drawing Title							
	PANEL DESCRIPTION							
DATE 11/20/03			REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title	<div style="text-align: center;"> <b>COX</b>  Research and Technology, Inc. </div>			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 1			





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



VIEW OF FRONT OF PANEL

**NOTE:**

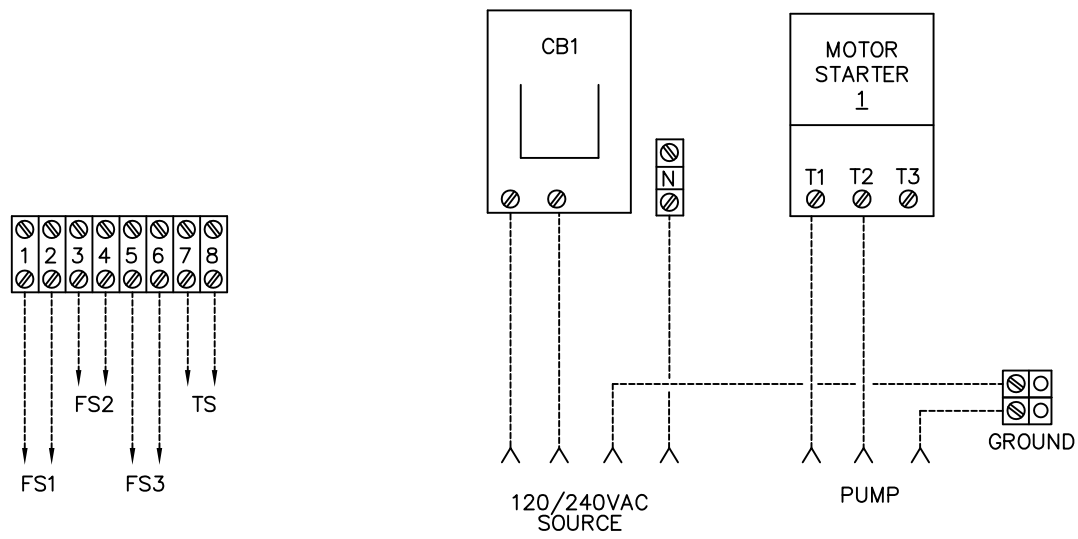
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.  
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE  
PANEL TO PREVENT ENTRY OF GASSES.

NAMEPLATE SCHEDULE

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

	Drawing Title  <div>ENCLOSURE</div>									
DATE 11/20/03			REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
			S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN		APPROVED		
						BY C. RACHAL		BY	DATE	
	Project Title		<div><div>COX</div><div>Research and Technology, Inc.</div></div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER		
	DRAWING NUMBER									
	CP-1699									
	SHEET NUMBER									
	SIMPLEX 1 PHASE CONTROL PANEL							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		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
11/20/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE
	Project Title	<div>COX</div> Research and Technology, Inc.			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 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						
	<h2 style="margin: 0;">BILL OF MATERIALS</h2>						
DATE 11/20/03		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED BY
	Project Title	<div style="border-top: 3px double black; border-bottom: 3px double black; padding: 5px;"> <h1 style="margin: 0;">COX</h1> <p style="margin: 0;">Research and Technology, Inc.</p> </div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER <div style="text-align: right;">CP-1699</div> SHEET NUMBER <div style="text-align: right;">6</div>
	SIMPLEX 1 PHASE CONTROL PANEL						