

---

---

# COX

Research and Technology, Inc.

---

---

CONTROL PANEL HTCP  
HYDRO TANK  
MANY, LA

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


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

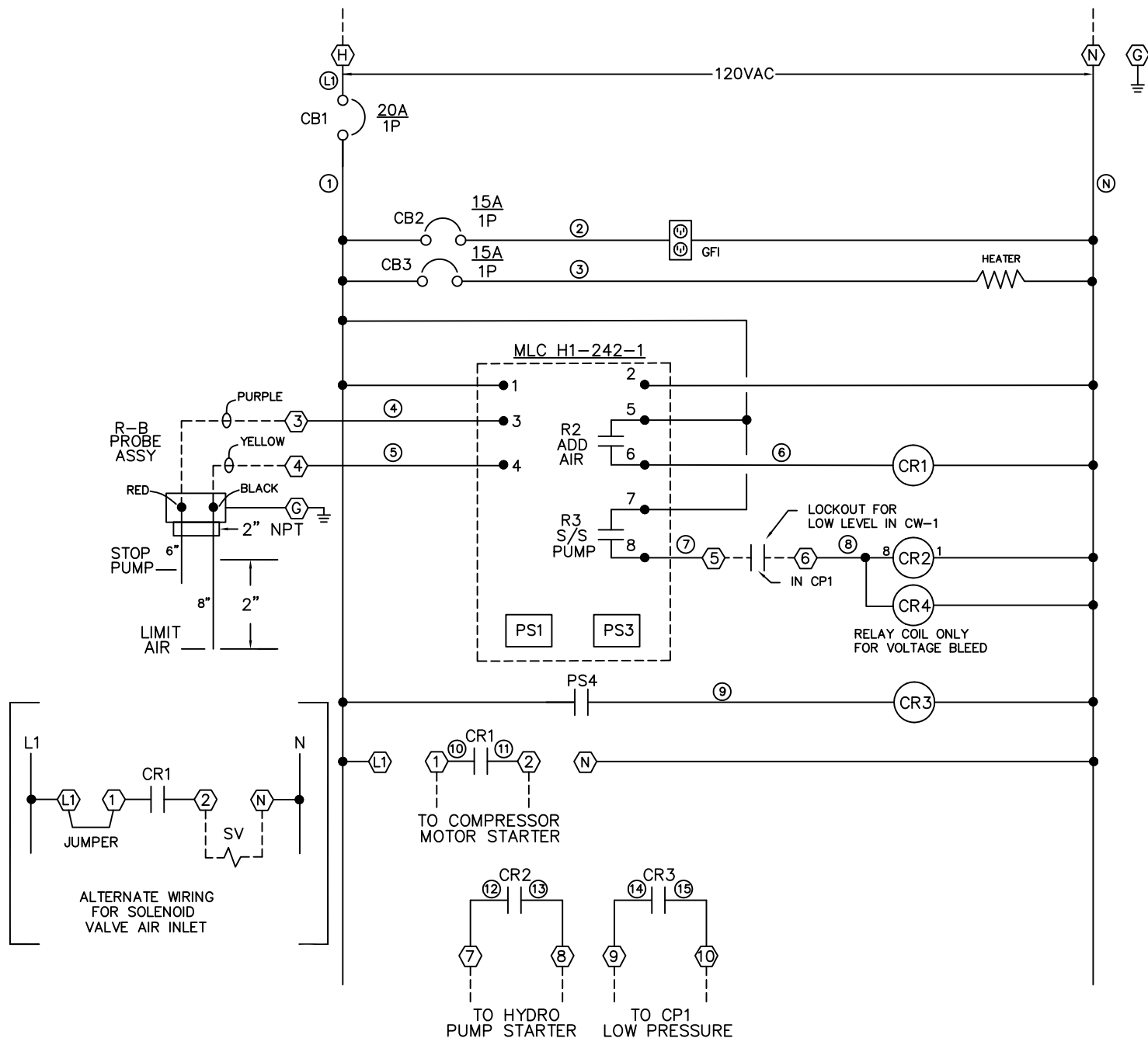
OPTIONS:

SEAL FAIL LIGHTS	_____	(Submersible Only)
SEAL FAIL RELAYS	_____	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	_____	(Submersible Only)
HT PUMP SHUTDOWN	_____	(Self-Primer, Submersible)
ALARM HORN	_____	
ALARM LIGHT	_____	
LIGHT PANEL MTD	_____	
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:	McInnis Brothers Construction, Inc.
TAG :	Many, LA
	Hydro Tank

SHIP TO:	_____
	_____
	_____

	Drawing Title						
	PANEL DESCRIPTION						
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
7/22/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED BY
	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
	CONTROL PANEL HTCP				Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1614
							SHEET NUMBER 1



USE AUX. AIR COMPRESSOR TO SET PRESSURE SWITCHES  
OBSERVE PRESSURE GAUGE IN PANEL

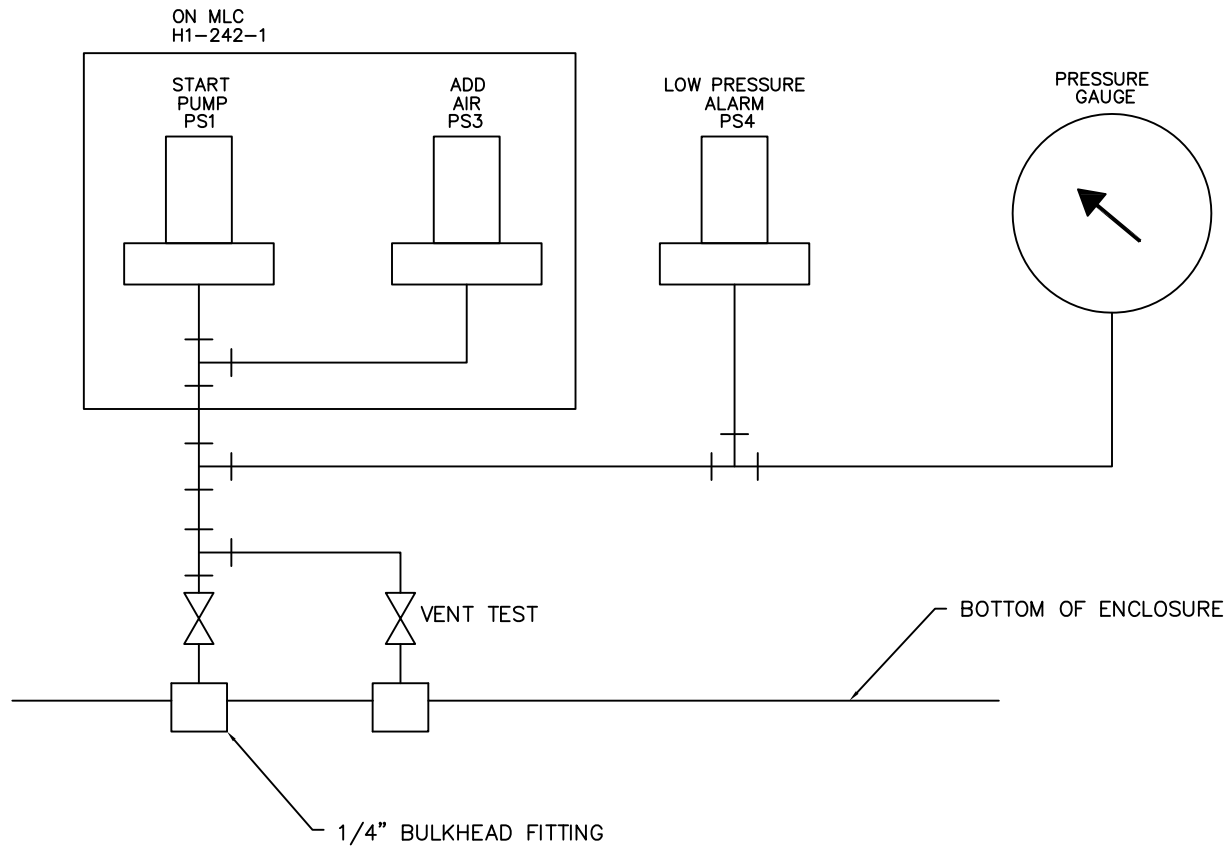
#### OPERATION:

1. PUMP STARTS AT PS1 SETTING.
2. PUMP STOPS WHEN WATER REACHES UPPER PROBE.
3. AIR IS ADDED AFTER PUMP STOPS IF PRESSURE IS LESS THAN PS3 SETTING.

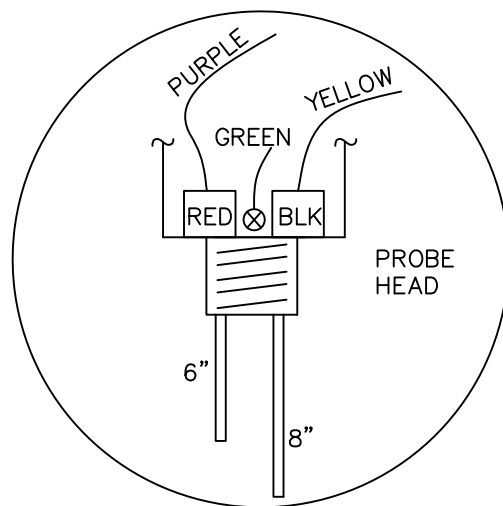
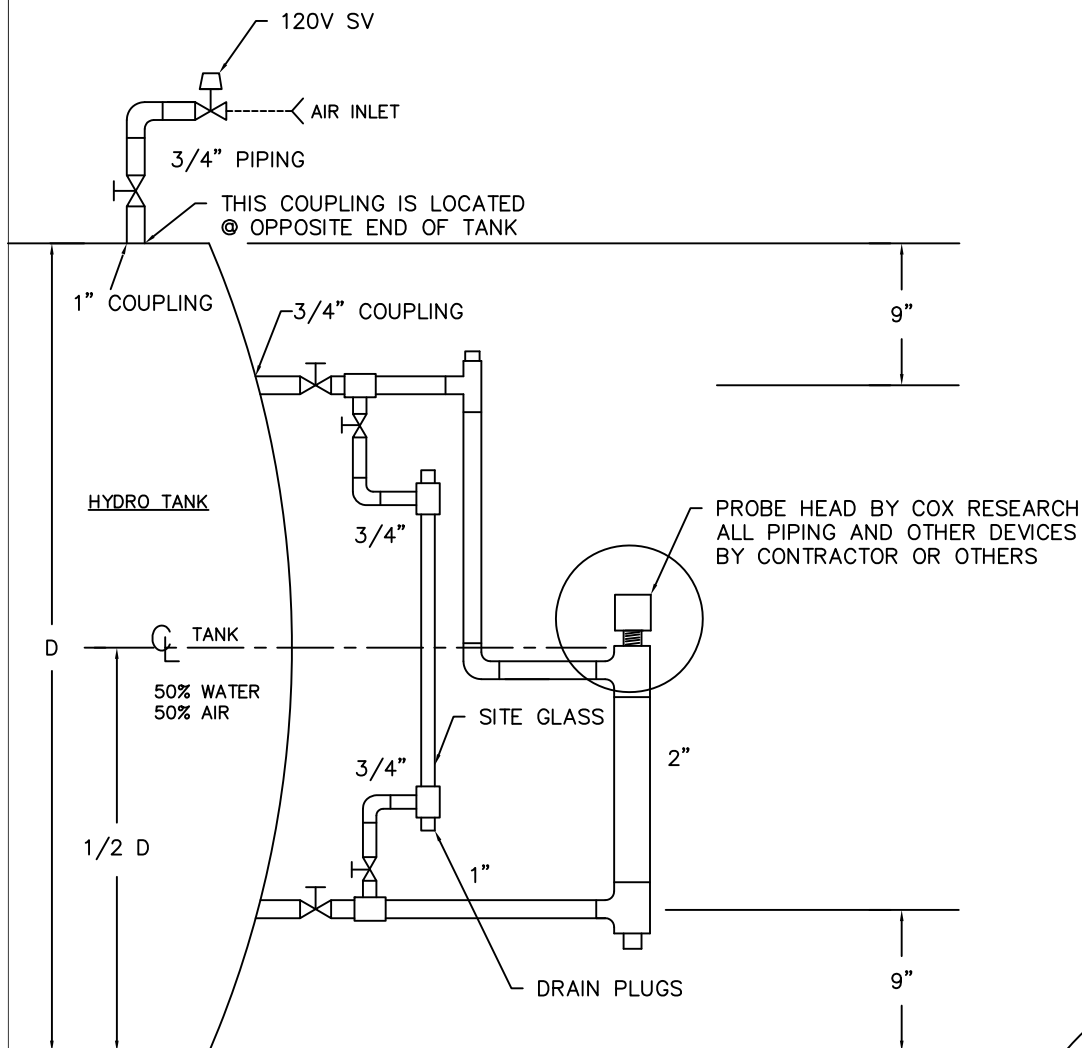
#### PRESSURE SWITCH SETTINGS

- PS1 CLOSE @ 40PSI ↓ TO START PUMP
- PS3 OPEN @ 60PSI ↑ TO STOP AIR
- PS4 CLOSE @ 15PSI ↓ TO ALARM

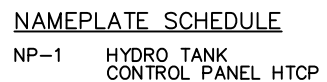
Drawing Title	CONTROL DIAGRAM					
DATE	7/22/03	Project Title	CONTROL PANEL HTCP			
REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN
S/N		Sales Engineer		Application Engineer		DATE
C.C.		R.C.		BY C. RACHAL		BY
DRAWN		APPROVED		PURCHASE ORDER NUMBER		
COX		Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809		DRAWING NUMBER
Ph. (225)756-3271 Fax (225)756-1030						CP-1614
						SHEET NUMBER
						2



	Drawing Title  
--	---



	Drawing Title								
DATE	HYDRO TANK PIPING	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
7/22/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED		
	Project Title					BY		DATE	PURCHASE ORDER NUMBER
	CONTROL PANEL HTCP	<div style="text-align: center;"> <b>COX</b>  Research and Technology, Inc. </div>				P.O. Box 77808 Baton Rouge, LA 70809		DRAWING NUMBER CP-1614	
						Ph. (225)756-3271 Fax (225)756-1030		SHEET NUMBER 4	



# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S242010N4X	ENCLOSURE
1a	1	EBE	A2420P	BACKPLATE
2	1	SQUARE D	QOU120	CB1
3	2	SQUARE D	QOU115	CB2,3
4	1	MLC	H1-242-1	CONTROLLER
5	1	MLC	R-B PROBE ASSY	BRONZE PROBE HEAD
6	1	TEEL	1D008	30W HEATER
7	3	OMRON	G2R2SAC120	CR1-3
8	1	SQUARE D	9012GR04	PRESSURE SWITCH PS4
9	1	AMTEK	836-C74	PRESSURE GAUGE
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

	Drawing Title						
	<h2 style="margin: 0;">BILL OF MATERIALS</h2>						
DATE 7/23/03		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE
	Project Title	<div style="border-top: 3px double black; border-bottom: 3px double black; padding: 5px 0;"> <h1 style="margin: 0;">COX</h1> </div> <div style="font-size: small; margin-top: 5px;">Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1614 SHEET NUMBER
	DUPLEX PUMP CONTROL PANEL						6