
COX

Research and Technology, Inc.

DUPLEX BLOWER CONTROL PANEL

INDEPENDENCE HIGH SCHOOL

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

CP-2251

| | | |
|----------------------------------|------------|--|
| VOLTAGE | 120/208V | (480V, 277/480V, 240V, 120/240V, 208V, 120/208V) |
| PHASE/HZ | 3/60 | |
| NO. MOTORS | 2 | |
| HP | 5 | |
| FLA | 17.5 | |
| TYPE OF PUMP | Blower | (Self-Priming, Submersible) |
| MANUFACTURER | | |
| 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, 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: Bob Weible
TAG : Independence High School

SHIP TO:

| Drawing Title | PANEL DESCRIPTION | REFERENCE DRAWING | | NO. R.C. | REVISION-LOCATION | | ECN | DATE | BY |
|------------------|---|-------------------|------------------------|-------------|----------------------|-----------------------|-----|------|----|
| | | S/N | Sales Engineer C.C. | | Application Engineer | DRAWN BY C. RACHAL | | | |
| DATE 12/29/05 | Project Title DUPLEX BLOWER CONTROL PANEL | | | | | | | | |
| | | | | | | | | | |

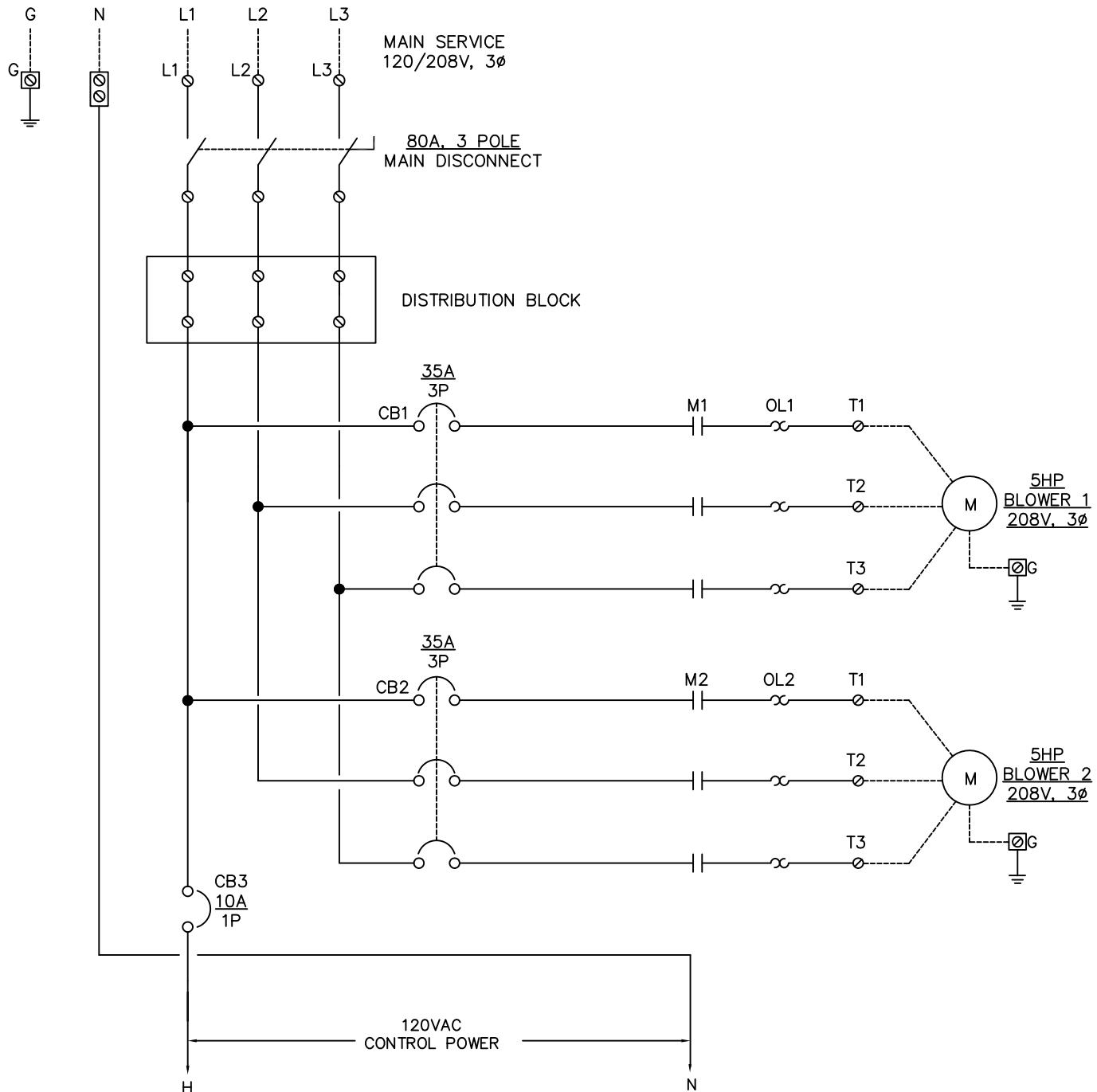

Research and Technology, Inc.

P.O. Box 77808
Baton Rouge, LA
70809

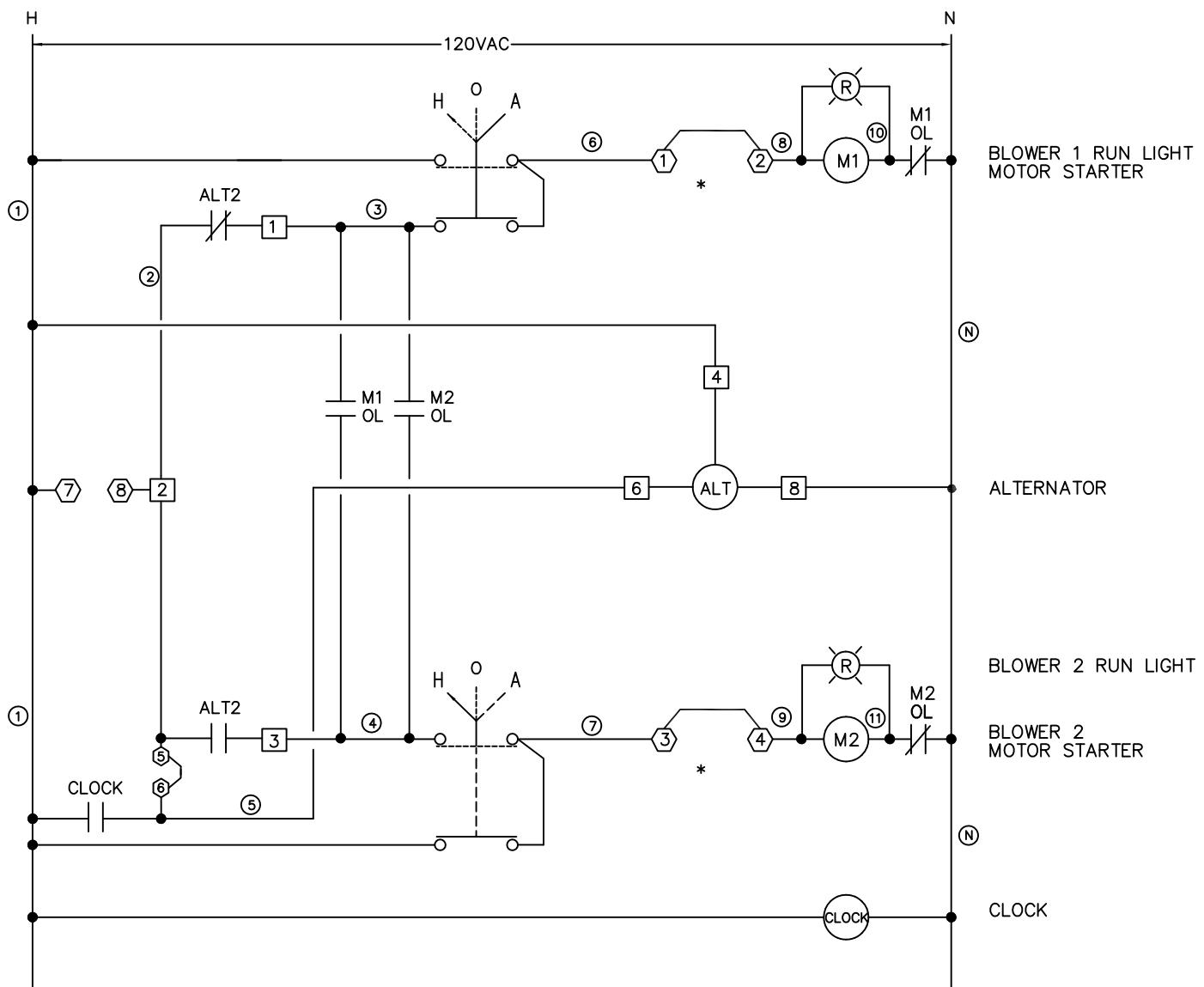
Ph. (225)756-3271
Fax (225)755-1030

PURCHASE ORDER NUMBER

DRAWING NUMBER CP-2251
SHEET NUMBER 1



| | | | | | | |
|------------------|--------------------------------|---|--|-----------------------|---------|----|
| | Drawing Title | | | | | |
| | POWER DIAGRAM | | | | | |
| | | | | | | |
| DATE 12/29/05 | REFERENCE DRAWING S/N | NO. Sales Engineer C.C. | REVISION-LOCATION DRAWN BY C. RACHAL | ECN | DATE | BY |
| | | | | | | |
| | Project Title | | | | | |
| | DUPLEX BLOWER CONTROL PANEL | COX Research and Technology, Inc. | P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030 | PURCHASE ORDER NUMBER | | |
| | | | | DRAWING NUMBER | CP-2251 | |
| | | | | SHEET NUMBER | | 2 |

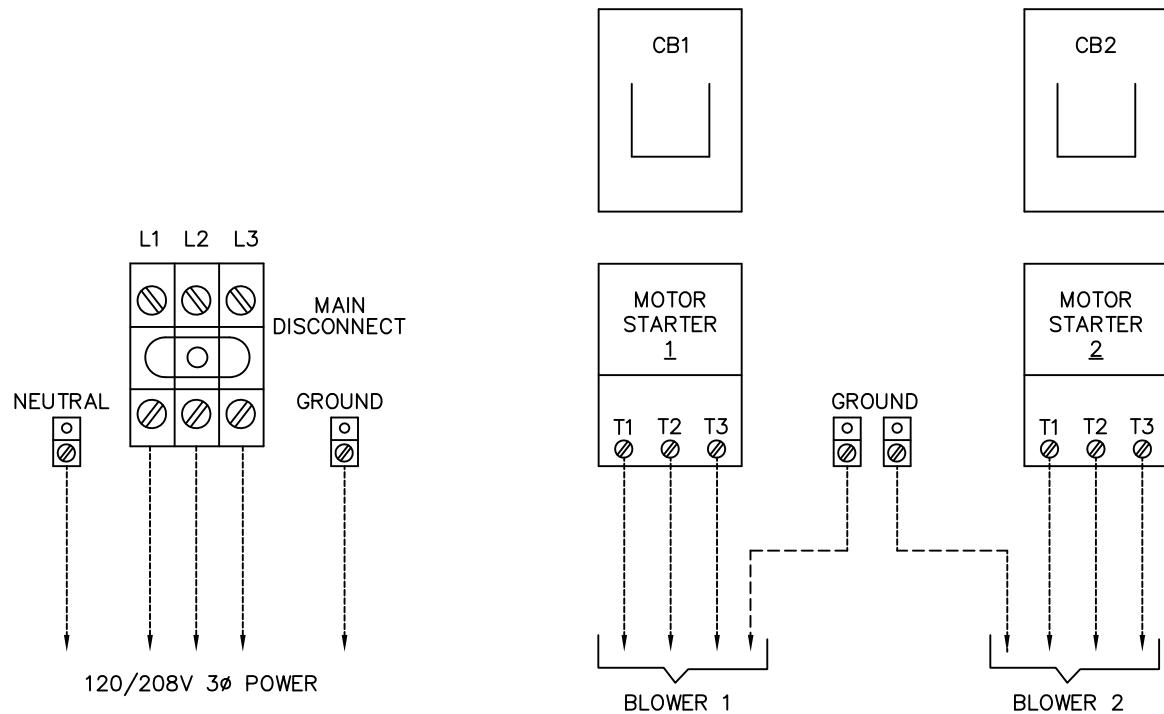


PANEL IS DESIGNED TO RUN AERATORS WITH A MINIMUM OF 15 MINUTES OF OFF TIME BETWEEN ALTERNATION. PINS PUSHED OUT ON CLOCK INDICATE RUN TIME. PINS PUSHED IN INDICATE OFF TIME. EACH PIN IS EQUAL TO 15 MINUTES.

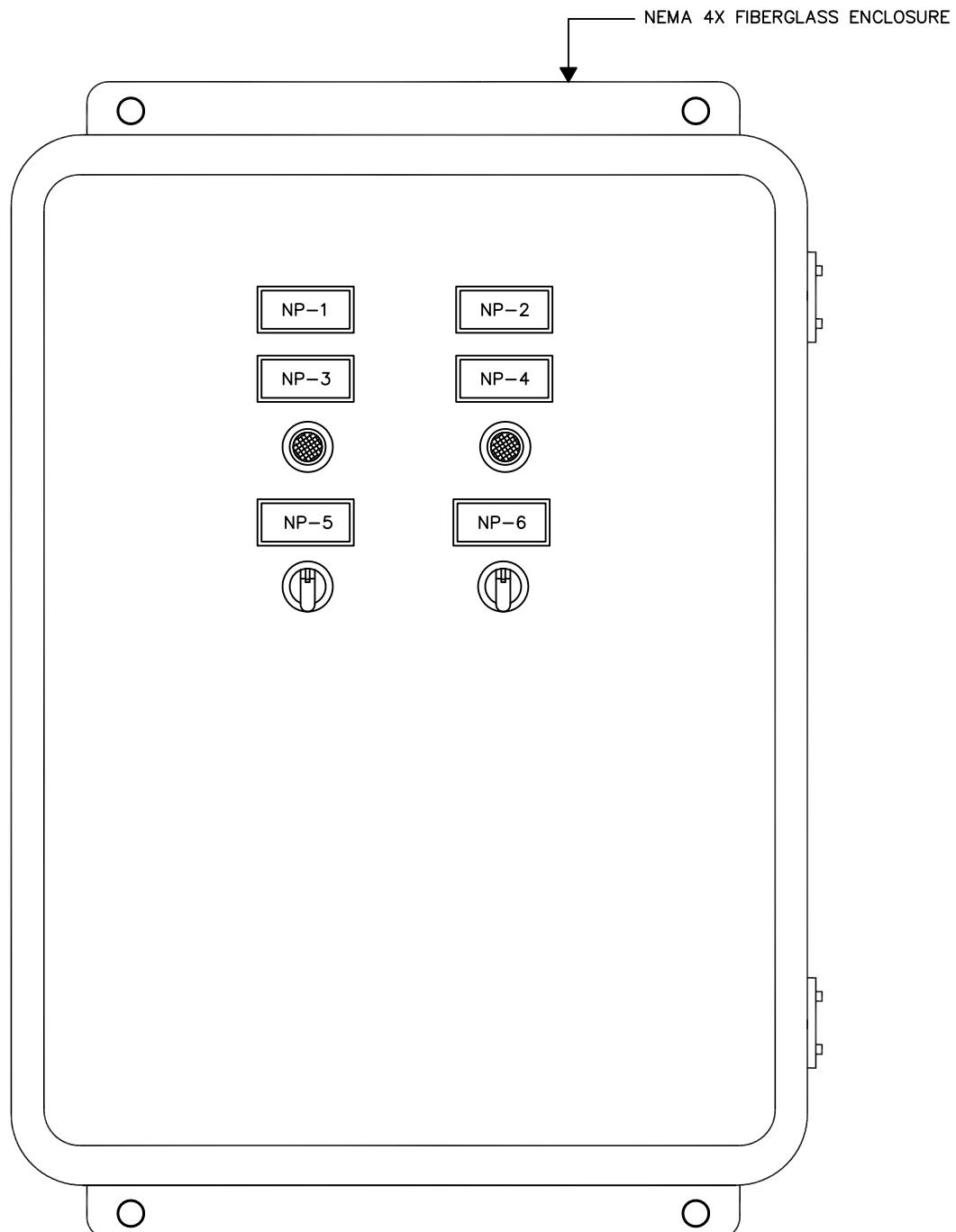
IF NO OFF TIME IS REQUIRED BETWEEN ALTERNATION, REMOVE JUMPER FROM TERMINALS ⑤ AND ⑥. PLACE JUMPER ACROSS TERMINALS ⑦ AND ⑧. NOW AERATORS WILL RUN CONTINUOUSLY. SET 1 PIN IN AT THE TIME YOU WISH THE AERATORS TO ALTERNATE. ALL REMAINING PINS SHOULD BE PUSHED OUT.

* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

| | | | | | | | | | | |
|---|---|-------------------------------|--|-----------------------|---|------|----|----------|--|--|
| | Drawing Title | | | | | | | | | |
| | CONTROL DIAGRAM | | | | | | | | | |
| DATE 12/29/05 | REFERENCE DRAWING S/N | NO. Sales Engineer C.C. | REVISION-LOCATION Application Engineer R.C. | DRAWN BY C. RACHAL | ECN | DATE | BY | APPROVED | | |
| Project Title DUPLEX BLOWER CONTROL PANEL | COX Research and Technology, Inc. | | P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030 | | PURCHASE ORDER NUMBER DRAWING NUMBER CP-2251 SHEET NUMBER 3 | | | | | |



| | | | | | | |
|---|---|-------------------------------|---|--|---|----|
| | Drawing Title | | | | | |
| | EXTERNAL CONNECTIONS | | | | | |
| DATE 12/29/05 | REFERENCE DRAWING S/N | NO. Sales Engineer C.C. | REVISION-LOCATION Application Engineer R.C. | ECN DRAWN BY C. RACHAL | DATE APPROVED BY DATE | BY |
| Project Title DUPLEX BLOWER CONTROL PANEL | COX Research and Technology, Inc. | | | P.O. Box 77808 Baton Rouge, LA 70809 | PURCHASE ORDER NUMBER DRAWING NUMBER CP-2251 SHEET NUMBER 4 | |
| | | | | Ph. (225)756-3271 Fax (225)755-1030 | | |



VIEW OF FRONT COVER

NAMEPLATE SCHEDULE

| | |
|------|----------|
| NP-1 | BLOWER 1 |
| NP-2 | BLOWER 2 |
| NP-3 | RUN |
| NP-4 | RUN |
| NP-5 | HOA |
| NP-6 | HOA |

NOTE:

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

| | Drawing Title ENCLOSURE | | | | | | | |
|------------------|---|---|------------------------------|-----------------------|--|---------------------------|-----|------|
| | | REFERENCE DRAWING | | NO. | REVISION-LOCATION | | ECN | DATE |
| DATE 12/29/05 | S/N | Sales Engineer C.C. | Application Engineer R.C. | DRAWN BY C. RACHAL | APPROVED BY | DATE | BY | |
| | Project Title DUPLEX BLOWER CONTROL PANEL | <u>COX</u> Research and Technology, Inc. <u>COX</u> | | | P.O. Box 77808 Baton Rouge, LA 70809 | PURCHASE ORDER NUMBER | | |
| | | | | | Ph. (225)756-3271 Fax (225)755-1030 | DRAWING NUMBER CP-2251 | | |
| | | | | | | SHEET NUMBER 5 | | |

BILL OF MATERIAL

| ITEM | QTY | MANUFACTURER | PART NO. | DESCRIPTION |
|------|-----|--------------|--------------|---------------------|
| 1 | 1 | STAHLIN | RJ1614HPL | ENCLOSURE |
| 2 | 1 | STAHLIN | BP1614AL | BACKPLATE |
| 3 | 2 | ABB | A26-30-10-84 | STARTER |
| 4 | 2 | ABB | TA25DU19 | O.L. (13-19A) |
| 5 | 2 | SQUARE D | QOU335 | CIRCUIT BREAKER 1,2 |
| 6 | 2 | ACI | JR22P3M20B | H.O.A. SWITCH |
| 7 | 1 | TIMEMARK | 261DT120 | ALTERNATING RELAY |
| 8 | 1 | GRASSLIN | FM/1 STUZH-L | TIMER |
| 9 | 2 | ACI | JR22FR | RED PILOT LIGHT |
| 10 | 1 | ABB | OT63E3 | DISCONNECT SWITCH |
| 11 | 1 | MARATHON | 1323580 | DISTRIBUTION BLOCK |
| 12 | 1 | SQUARE D | QOU110 | CIRCUIT BREAKER 3 |

| | | | | | | | |
|------------------|--------------------------------|----------------|-------------------------------|-------------------|--|---------------------------|---------|
| | Drawing Title | | | | | | |
| | BILL OF MATERIALS | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| DATE 12/29/05 | 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 | | COX | | P.O. Box 77808 Baton Rouge, LA 70809 | PURCHASE ORDER NUMBER | |
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| | | | | | | SHEET NUMBER 6 | |