
COX

Research and Technology, Inc.

DUPLEX BLOWER
CONTROL PANEL
BROCKMAN BROTHERS

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

| | | |
|----------------------------------|------------|--|
| VOLTAGE | 120/240V | (480V, 277/480V, 240V, 120/240V, 208V, 120/208V) |
| PHASE/HZ | 1/60 | |
| NO. MOTORS | 2 | |
| HP | 5 | |
| FLA | 28 | |
| 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 | | |

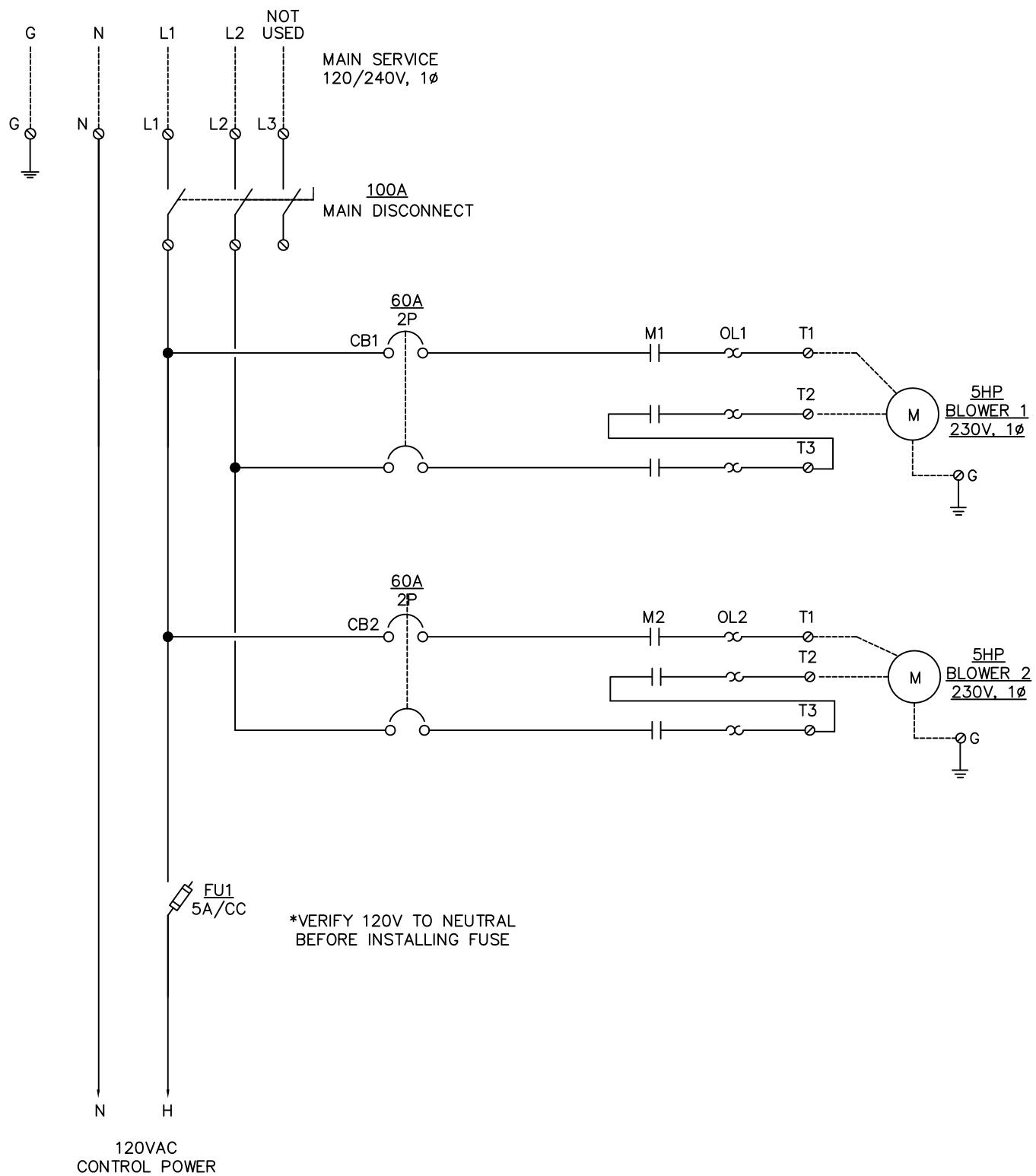
OPTIONS:

| | | |
|----------------------------------|-------|----------------------------|
| 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 | _____ | |

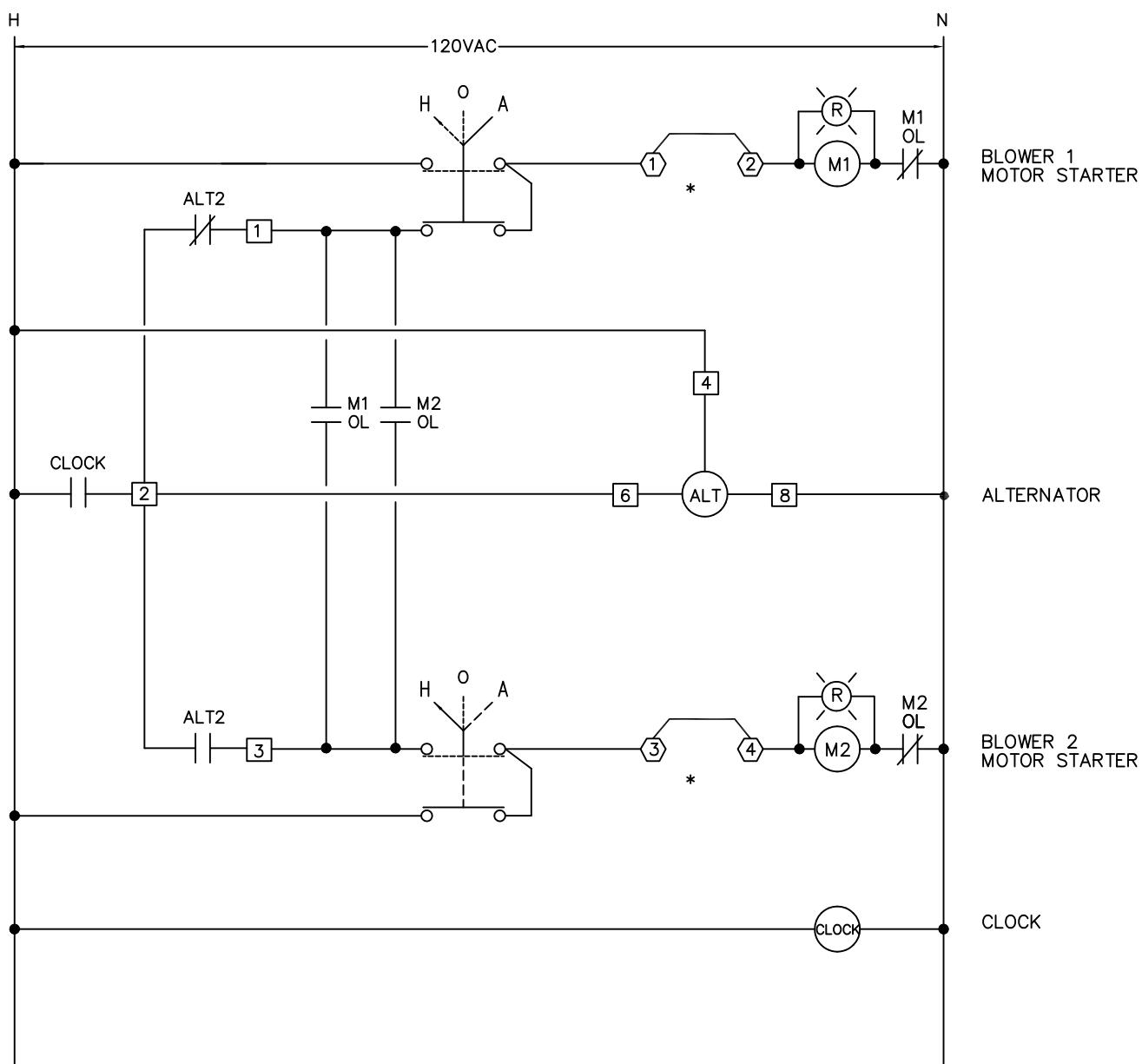
SOLD TO: Delta Environmental
TAG : Brockman Brothers

SHIP TO: Delta Environmental - Denham Springs, LA

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|-----------------|--------------------------------|---|----------------|----------------------|--|---------------------------|------|
| | Drawing Title | | | | | | |
| | PANEL DESCRIPTION | | | | | | |
| | | REFERENCE DRAWING | NO. | REVISION-LOCATION | ECN | DATE | BY |
| DATE 3/27/03 | | S/N | Sales Engineer | Application Engineer | DRAWN | APPROVED | |
| | | | C.C. | R.C. | BY CTR | BY | DATE |
| | Project Title | <u>COX</u> Research and Technology, Inc. | | | P.O. Box 77808 Baton Rouge, LA 70809 | PURCHASE ORDER NUMBER | |
| | DUPLEX BLOWER CONTROL PANEL | | | | Ph. (225)756-3271 Fax (225)756-1030 | DRAWING NUMBER CP-1545 | |
| | | | | | | SHEET NUMBER 1 | |

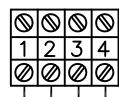
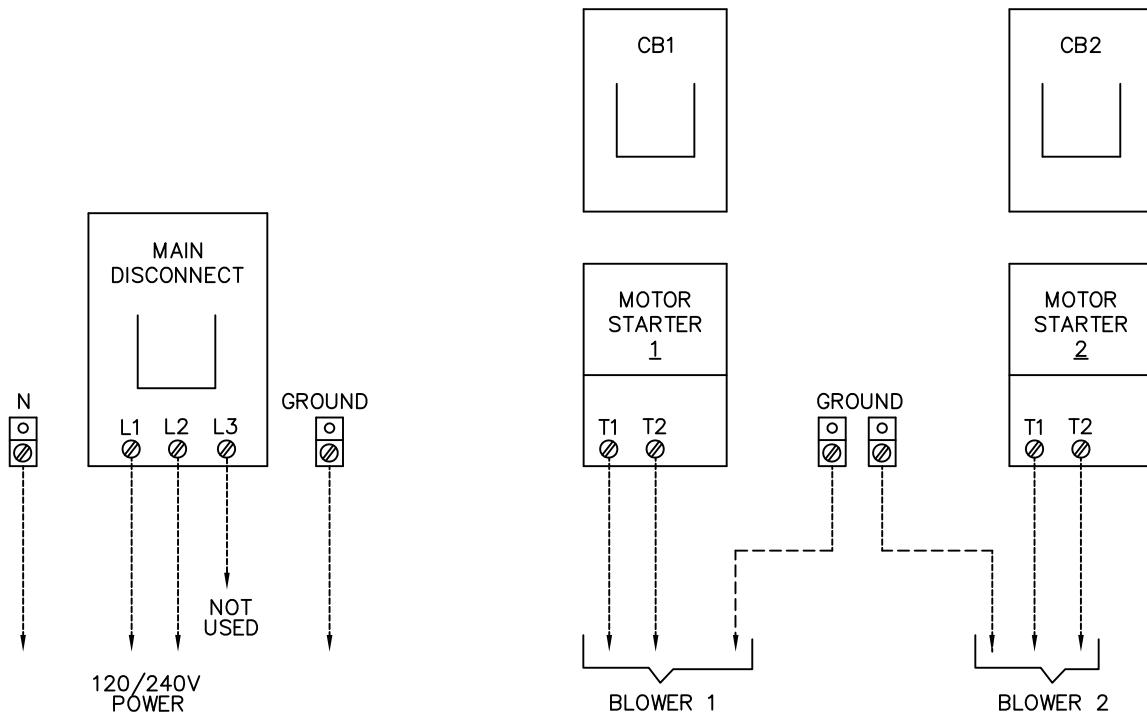


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|-----------------|---|---|--|---|----------------------------|
| | Drawing Title POWER DIAGRAM | | | | |
| | | REFERENCE DRAWING S/N | NO. Sales Engineer C.C. | REVISION-LOCATION DRAWN BY CTR | ECN APPROVED BY DATE |
| DATE 3/27/03 | | Application Engineer R.C. | | | |
| | 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)756-1030 | PURCHASE ORDER NUMBER DRAWING NUMBER CP-1545 SHEET NUMBER 2 | |



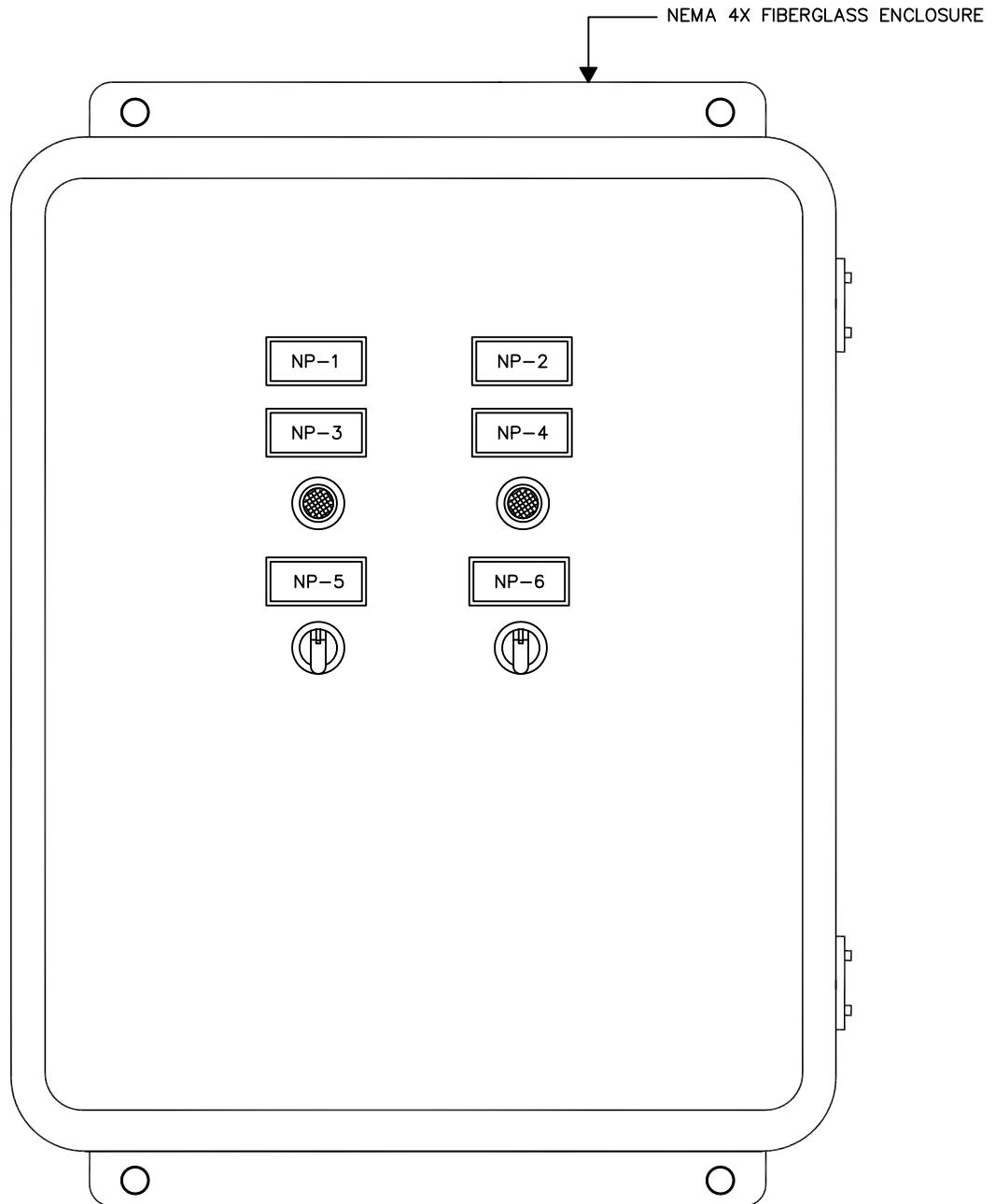
* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

| | | | | | | |
|---|--------------------------------------|-------------------------------|---|--|---|----|
| | Drawing Title CONTROL DIAGRAM | | | | | |
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| | | | | | | |
| DATE 3/27/03 | REFERENCE DRAWING S/N | NO. Sales Engineer C.C. | REVISION-LOCATION Application Engineer R.C. | ECN DRAWN BY CTR | DATE APPROVED BY 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)756-1030 | PURCHASE ORDER NUMBER DRAWING NUMBER CP-1545 SHEET NUMBER 3 | |



REMOVE JUMPERS & INSTALL
LOCKOUT DEVICES IF REQUIRED

| | | | | | | | |
|-----------------|---|--------------------------------------|--|---------------------------|----------------|--------------|--|
| | Drawing Title | | | | | | |
| | EXTERNAL CONNECTIONS | | | | | | |
| DATE 3/27/03 | REFERENCE DRAWING S/N | NO. Sales Engineer C.C. | REVISION-LOCATION Application Engineer R.C. | ECN | DATE | BY | |
| | | | DRAWN BY CTR | | APPROVED BY | DATE DATE | |
| | 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)756-1030 | PURCHASE ORDER NUMBER | | | |
| | | | | DRAWING NUMBER CP-1545 | | | |
| | | | | SHEET NUMBER 4 | | | |



VIEW OF FRONT OF ENCLOSURE

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.

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|-----------------|--------------------------------|--|--|---------------------------|----------|----|
| | Drawing Title | | | | | |
| | ENCLOSURE | | | | | |
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| | | | | | | |
| DATE 3/27/03 | REFERENCE DRAWING S/N | NO. C.C. | REVISION-LOCATION DRAWN BY CTR | ECN | DATE | BY |
| | Sales Engineer | Application Engineer R.C. | | | APPROVED | |
| | | | | | | |
| | Project Title | <hr/> <hr/> COX <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/> | P.O. Box 77808 Baton Rouge, LA 70809 | PURCHASE ORDER NUMBER | | |
| | DUPLEX BLOWER CONTROL PANEL | | Ph. (225)756-3271 Fax (225)756-1030 | DRAWING NUMBER CP-1545 | | |
| | | | | SHEET NUMBER 5 | | |

BILL OF MATERIAL

| ITEM | QTY | MANUFACTURER | PART NO. | DESCRIPTION |
|------|-----|--------------|--------------|---------------------|
| 1 | 1 | VYNCKIER | VJ1614HWPL | ENCLOSURE |
| 2 | 1 | VYNCKIER | BP1614AL | BACKPLATE |
| 3 | 2 | ABB | A30-30-10-84 | STARTER |
| 4 | 2 | ABB | TA25DU32 | O.L. (24-32A) |
| 5 | 2 | SQUARE D | QOU260 | CIRCUIT BREAKER 1,2 |
| 6 | 1 | ABB | OT100E3 | DISC. SWITCH |
| 7 | 2 | ACI | JR22P3M20B | H.O.A. SWITCH |
| 8 | 2 | ACI | JR22FR | RED PILOT LIGHTS |
| 9 | 1 | TIMEMARK | 261DT120 | ALTERNATING RELAY |
| 10 | 1 | BUSSMAN | LP-CC-5 | FUSE 5.0A |
| 11 | 1 | GRASSLIN | FM/1 STUZH-L | TIMER |
| 12 | 1 | MARATHON | 6SC30A-1I | FUSE HOLDER |

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|-----------------|--------------------------------|----------------|-------------------------------|-------------------|--------|---------------------------|---------|
| | Drawing Title | | | | | | |
| | BILL OF MATERIALS | | | | | | |
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| | | | | | | | |
| DATE 3/27/03 | REFERENCE DRAWING | | NO. | REVISION-LOCATION | | ECN | DATE BY |
| | S/N | Sales Engineer | Application Engineer | DRAWN | | APPROVED | |
| | | | C.C. | R.C. | BY CTR | BY DATE | |
| | Project Title | | COX | | | PURCHASE ORDER NUMBER | |
| | DUPLEX BLOWER CONTROL PANEL | | Research and Technology, Inc. | | | DRAWING NUMBER CP-1545 | |
| | | | | | | SHEET NUMBER 6 | |
| | | | | | | | |