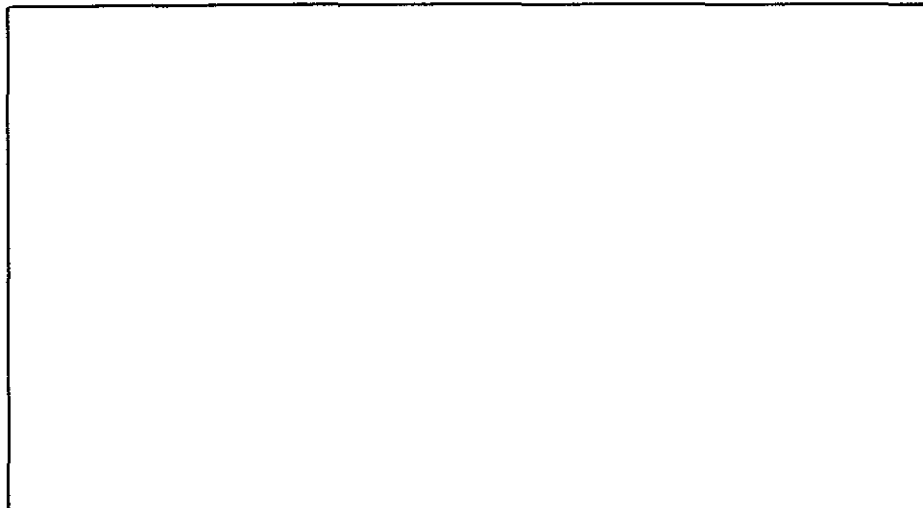




**38AH-4SB**

**38AH024-134**  
**AIR-COOLED**  
**CONDENSING UNITS**

- PERFORMANCE DATA**
- CERTIFIED DIMENSION PRINT**



|                               |             |                                                    |           |               |
|-------------------------------|-------------|----------------------------------------------------|-----------|---------------|
| Date:                         | Supersedes: | <b>38AH024-134 AIR-COOLED<br/>CONDENSING UNITS</b> | 38AH      | Rev :<br>-4SB |
| <b>JOB DATA</b>               |             | <b>LOCATION</b>                                    |           |               |
| BUYER                         |             | BUYER P O #                                        | CARRIER # |               |
| UNIT NUMBER                   |             | MODEL NUMBER                                       |           |               |
| PERFORMANCE DATA CERTIFIED BY |             |                                                    | DATE      |               |



These factory wired condensing units are easily connected by refrigerant lines and control wiring to matching Carrier air handlers or water coolers in various combinations to provide customized packages that cover a wide range of cooling requirements. Powerful, direct drive axial flow fans are mounted in a horizontal fan deck. Upward airflow of condenser fan allows heat of condenser to be carried away from the unit and minimizes the directional sound of the condenser fans in the surrounding area.

### STANDARD FEATURES

Standard one year unit warranty

*Dual independent refrigerant circuits*

Reciprocating, serviceable, semi-hermetic compressors with spring isolators, suction pressure actuated cylinder unloaders, thermal overload protection, and service valves

Standard units are UL and CSA certified

Oil pressure safety switches

High- and low-pressure safety switches

Condenser coils have internally enhanced copper tubes mechanically bonded to lanced sine wave aluminum fins. Copper fins available as factory installed option

Standard units have suction pressure unloaded on lead circuit. Unit sizes 094-134 have one unloader on each circuit

Compressors and outdoor fans use circuit breakers for over-current protection

Time Guard® feature prevents short cycling

Intermediate season head pressure control by fan cycling

Operation down to -20° F with Motormaster® III accessory

Weather Armor® cabinet of galvanized steel has a bonderized pre-painted baked enamel finish

Cabinet finish meets ASTM B-117 500-hour salt spray requirement

Crankcase heaters on all compressors

Hinged doors for control panel access

### PERFORMANCE DATA

|                                           |                                    |
|-------------------------------------------|------------------------------------|
| Cooling Capacity _____ Btuh               | Compressor Power Input _____ kW    |
| Ambient Air Temperature _____ °F          | Condenser Fan Power Input _____ kW |
| Saturated Suction Temperature _____ °F    | Standard Unit Capacity             |
| Saturated Condensing Temperature _____ °F | Steps _____ % _____ % _____ %      |
| Minimum Ambient Air Temperature ---       | _____ % _____ % _____ %            |
| Standard Unit _____ °F                    |                                    |

### ELECTRICAL DATA

Unit Power Supply \_\_\_\_\_ Volts \_\_\_\_\_ Ph \_\_\_\_\_ Hz

Minimum Circuit Amps \_\_\_\_\_ Maximum Fuse Amps \_\_\_\_\_

### FACTORY INSTALLED OPTIONS

- ☐ Variable Air Volume Package
- ☐ Copper/Copper Condenser Coil
- ☐ Single Circuit Manifolder Units (044-084 only)

### FIELD INSTALLED ACCESSORIES

- ☐ Condenser Coil Hail Guard Package (044-134)
- ☐ Gage Panel Package, Suction and Discharge Pressure
- ☐ Motormaster III, Low Ambient Head Pressure Control to -20° F Ambient
- ☐ Pressure Operated Unloader Package, adds a step of capacity reduction
- ☐ Electrically Operated Unloader Package, adds a step of capacity reduction
- ☐ Sound Reduction Kit; specially designed fan system of fan blades and fan outlet stacks (044-134)
- ☐ Compressor Section Grills; protect compressor and piping (044-134)
- ☐ Condenser Coil Grills; protect condenser coils from damage (044-134)
- ☐ Accessory Transformer Relay Package; permits remote control of unit with 2-stage 24 volt thermostat (Thermostat sold separately ) (044-134)
- ☐ ModuPanel™; a 10 step microprocessor for VAV application

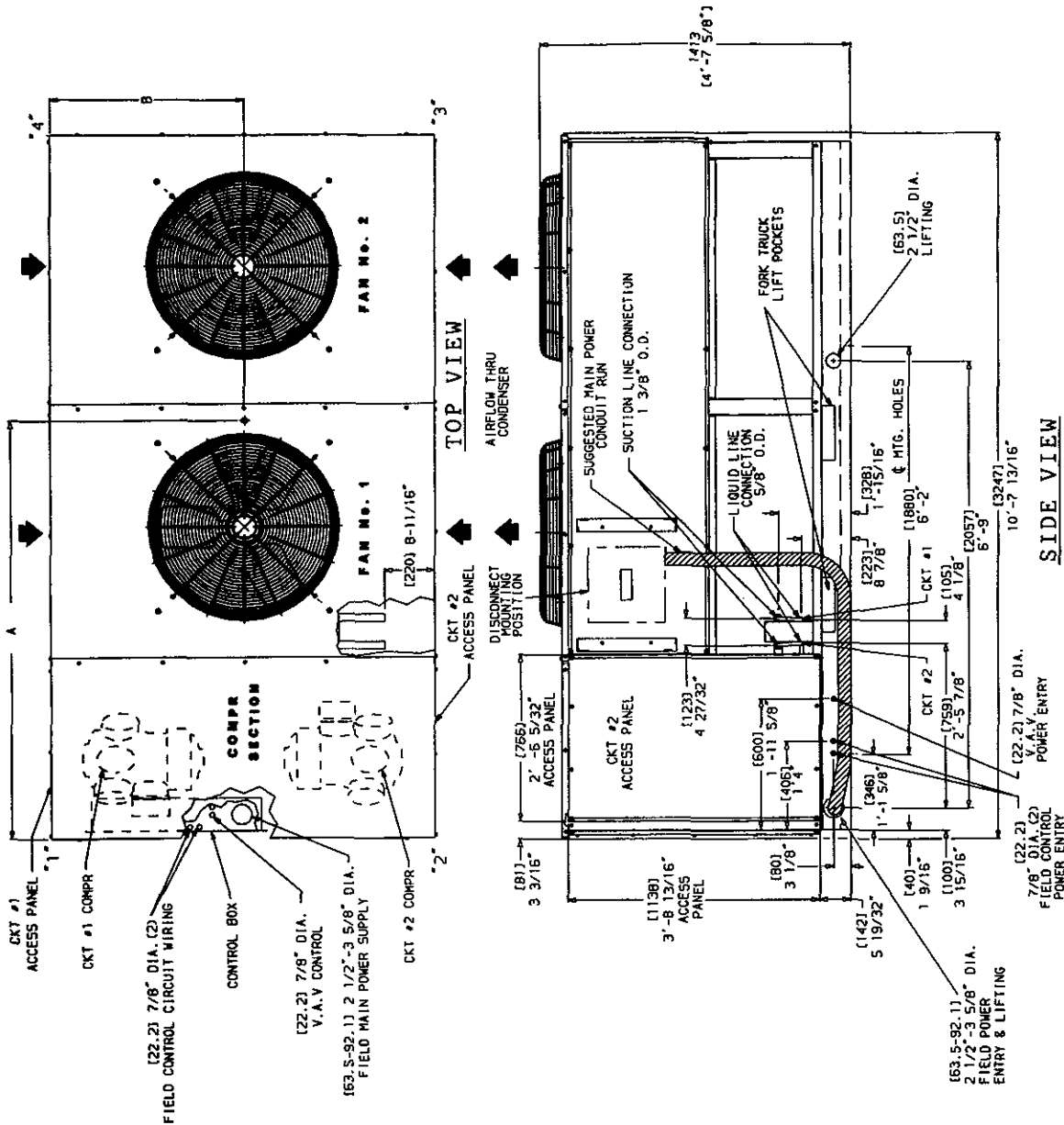
# CERTIFIED DIMENSION PRINT

- NOTES:
- There must be 4 ft [1220 mm] for service and for unrestricted airflow on all sides of unit.
  - There must be minimum 8 ft [2440 mm] clear air space above unit.
  - C in the package number indicates copper coils.
  - Dimensions in [ ] are in millimeters.
  - The approximate operating weight of the unit is:

| UNIT     | CORNER WEIGHT<br>lb[kg] |                  |                  |                  | CENTER OF GRAVITY |                  | TOTAL<br>UNIT<br>WEIGHT |
|----------|-------------------------|------------------|------------------|------------------|-------------------|------------------|-------------------------|
|          | "1"                     | "2"              | "3"              | "4"              | A Dim.            | B Dim.           |                         |
| 38AH024  | 631.6<br>[286.5]        | 577.6<br>[262.0] | 263.1<br>[119.3] | 287.7<br>[130.5] | 40.0<br>[1016.0]  | 32.75<br>[831.9] | 1760<br>[798.3]         |
| 38AH024C | 666.5<br>[302.3]        | 609.5<br>[276.5] | 309.0<br>[140.2] | 337.9<br>[153.3] | 43.0<br>[1092.2]  | 32.75<br>[831.9] | 1923<br>[872.3]         |

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P.O. BOX 4000  
BRIDGEVILLE, PA 15005  
13201

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# CERTIFIED DIMENSION PRINT



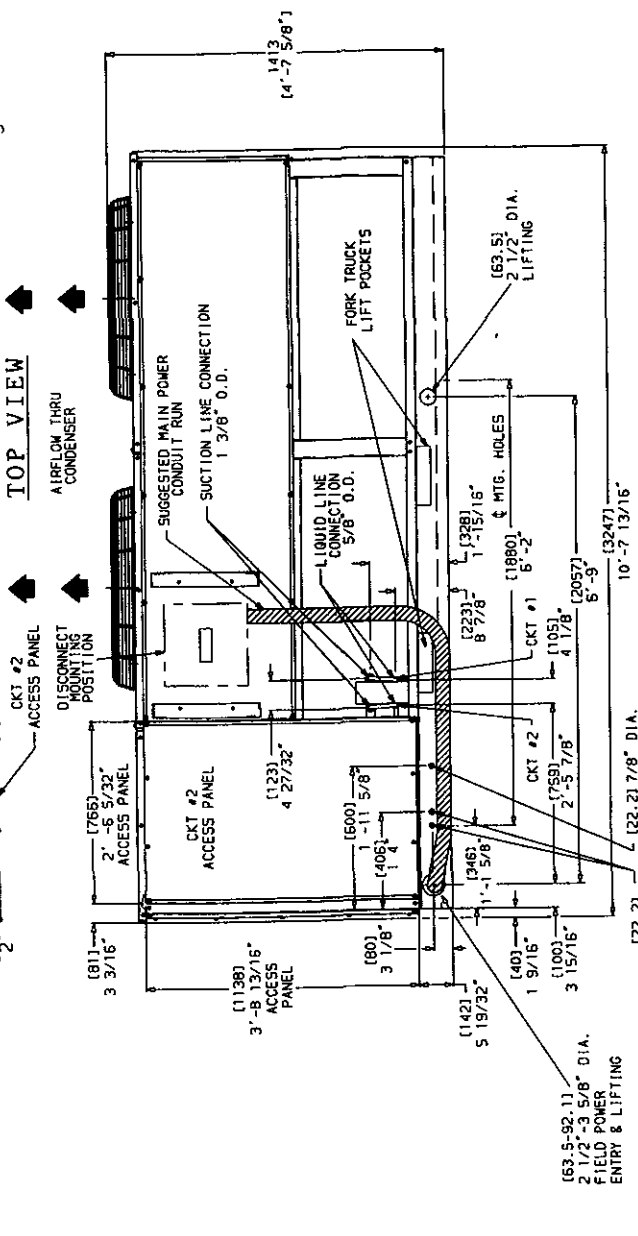
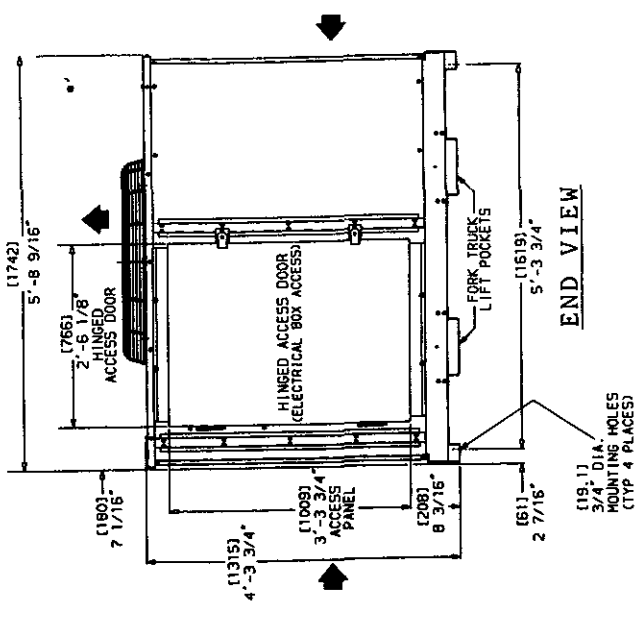
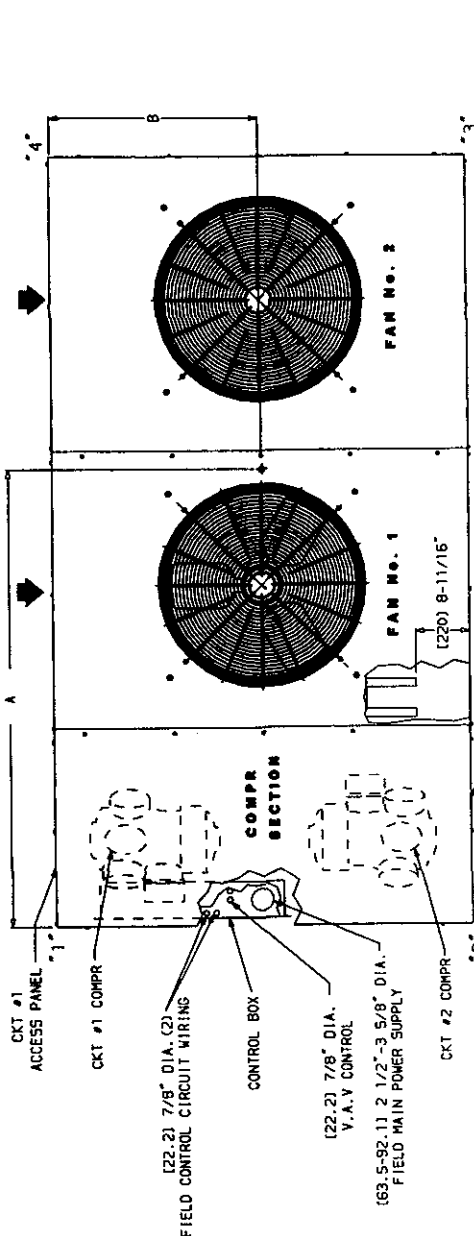
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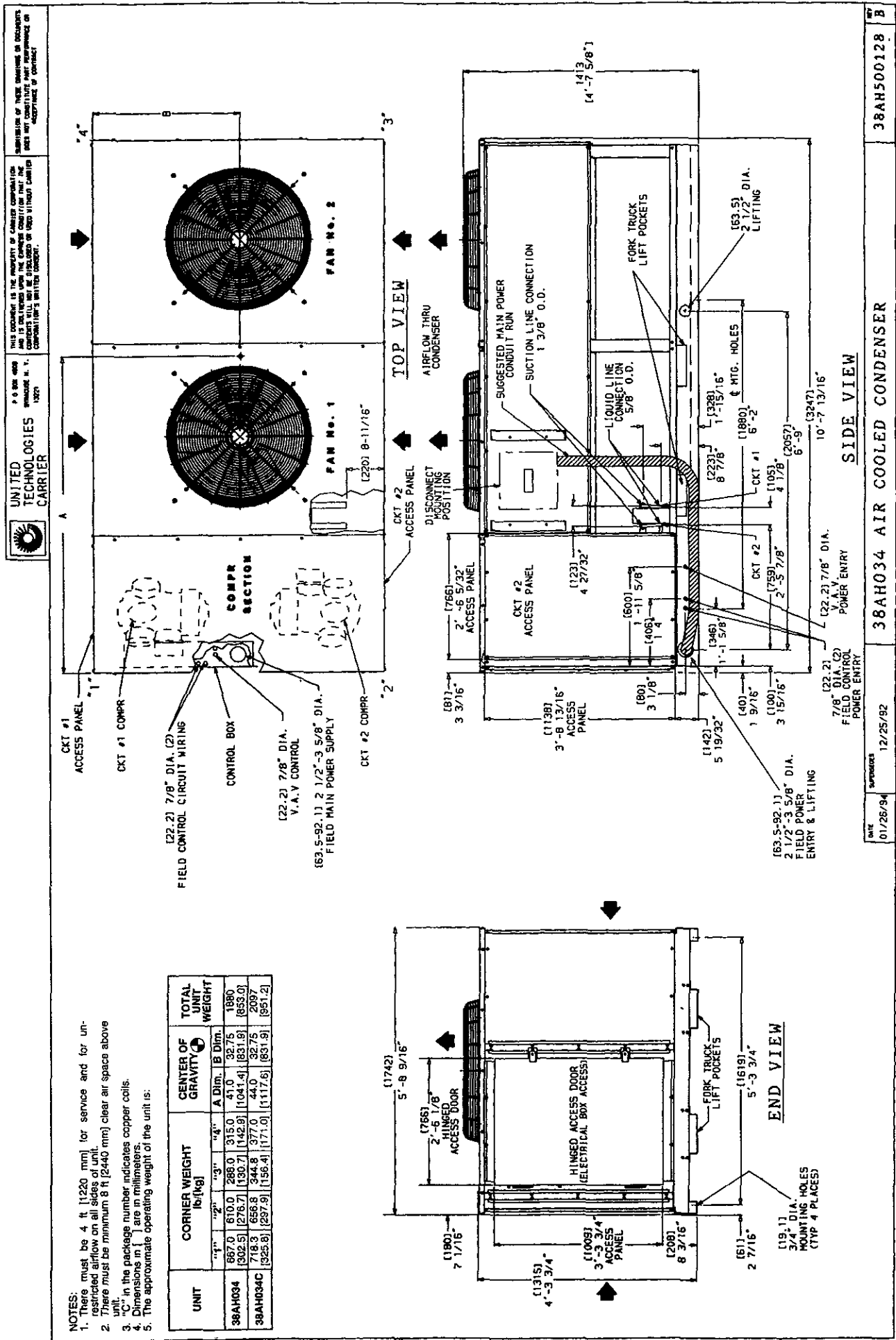
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- NOTES:
- There must be 4 ft (1220 mm) for service and for un- restricted airflow on all sides of unit.
  - There must be minimum [2440 mm] 8 ft clear air space above unit.
  - "C" in the package number indicates copper coils.
  - Dimensions in [ ] are in millimeters.
  - The approximate operating weight of the unit is:

| UNIT     | CORNER WEIGHT<br>lb/[kg] |                  |                  |                  | CENTER OF GRAVITY<br>A Dim. B Dim. | TOTAL UNIT WEIGHT |
|----------|--------------------------|------------------|------------------|------------------|------------------------------------|-------------------|
|          | "1"                      | "2"              | "3"              | "4"              |                                    |                   |
| 38AH028  | 658.7<br>[298.8]         | 602.4<br>[273.3] | 267.0<br>[121.1] | 291.9<br>[132.4] | 39.25<br>[831.9]                   | 1820<br>[825.6]   |
| 38AH028C | 693.0<br>[314.3]         | 633.8<br>[287.5] | 313.0<br>[142.0] | 342.2<br>[155.2] | 42.25<br>[1073.2]                  | 1982<br>[899.0]   |



# CERTIFIED DIMENSION PRINT





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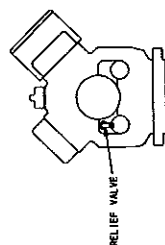
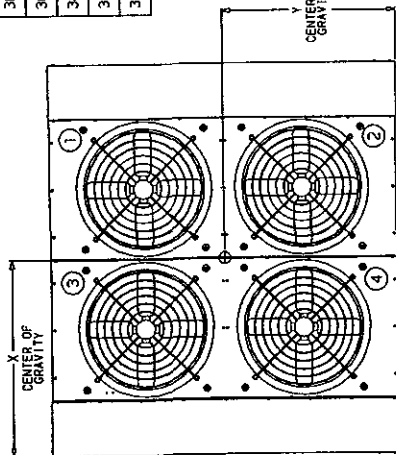
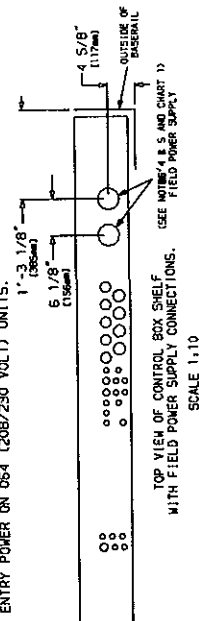
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27161

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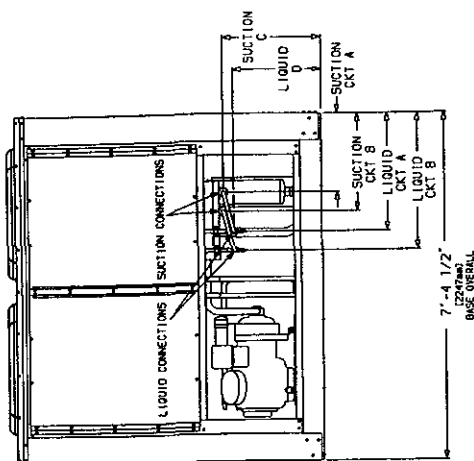
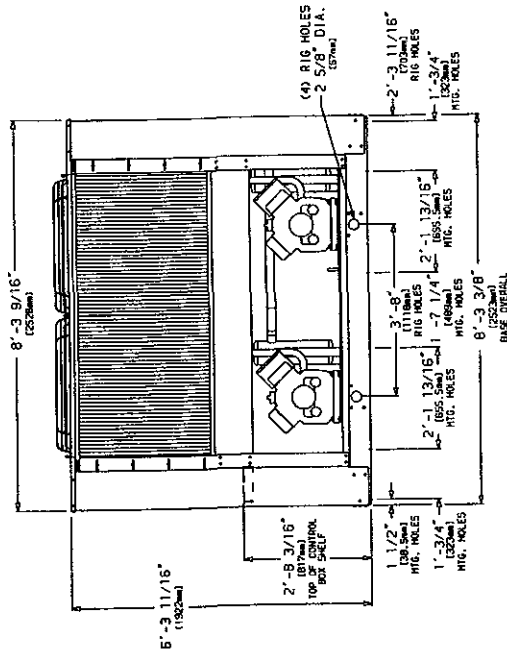
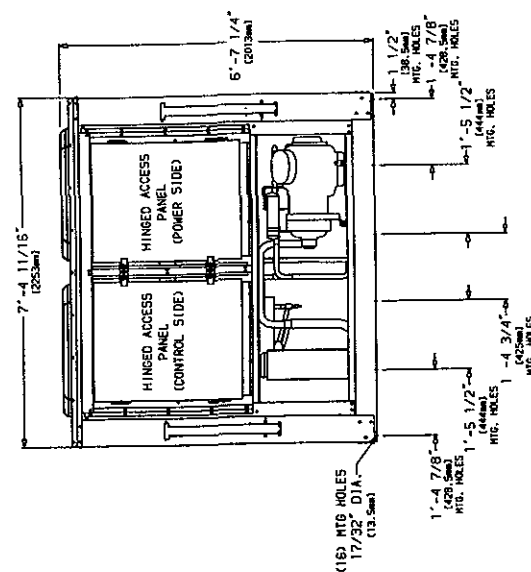
1. THE APPROXIMATE OPERATING WEIGHT OF THE UNIT IS:  
38AH-044--C 3259 LBS. (1478 KG.)  
38AH-044--C 3547 LBS. (1609 KG.)  
38AH-054--C 3309 LBS. (1501 KG.)  
38AH-054--C 3597 LBS. (1632 KG.)  
38AH-064--C 3565 LBS. (1617 KG.)  
38AH-064--C 3958 LBS. (1813 KG.)
2. UNIT MUST HAVE CLEARANCES FOR AIR FLOW AS FOLLOWS:  
TOP - DO NOT RESTRICT IN ANY WAY  
SIDES - 5 FT (1524mm)
3. MOUNTING HOLES MAY BE USED TO MOUNT UNIT TO CONCRETE  
PAD. THEY ARE NOT RECOMMENDED FOR MOUNTING UNIT TO  
SPRING ISOLATORS. IF SPRING ISOLATORS ARE USED, A PERIMETER  
SUPPORT CHANNEL BETWEEN THE UNIT AND THE ISOLATORS IS  
RECOMMENDED.
4. (2) 2.00" DIA HOLES ARE RECOMMENDED FOR PARALLEL  
CONDUCTORS ON 044 (230 VOLT) AND ON 044 AND 054  
(208/230 VOLT) UNITS.
5. (1) 3/8" DIA HOLE IS RECOMMENDED FOR SINGLE  
ENTRY POWER ON 064 (208/230 VOLT) UNITS.

CONTROL BOX  
END



RELIEF VALVES LOCATED ON  
THE COMPRESSORS ARE EQUIPPED  
WITH A 3/8" SAE FLARE FOR  
FIELD CONNECTION  
SCALE 1:8

| UNIT          | VOLTAGE       | HZ | DIAMETER | QTY |
|---------------|---------------|----|----------|-----|
| 044           | 230           | 50 | 3/8"     | 1   |
| 044, 054      | 208/230       | 60 | 3/8"     | 1   |
| 064           | 208/230       | 60 | 2 1/2"   | 2   |
| 044, 054, 064 | 460, 575, 380 | 60 | 2 1/2"   | 1   |
| 044, 054      | 346, 380/415  | 50 | 3/8"     | 1   |
| 064           | 346, 380/415  | 50 | 3/8"     | 1   |



DATE  
1/4/93

SUPPLEMENT

38AH044,054,064 CONDENSING UNITS

38AK500886

MTG. HOLES

MTG. HOLES

MTG. HOLES

MTG. HOLES

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P O BOX 4800  
YERMOUSE W. Y.

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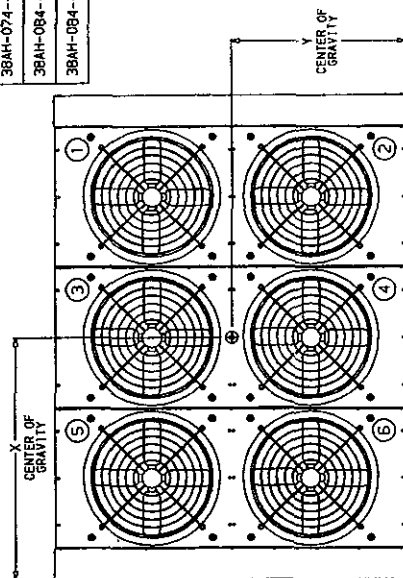
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CONTROL BOX

1' - 3 1/8" (136mm)  
6 1/8" (152mm)  
4 5/8" (117mm)  
OUTSIDE BASELINE  
TOP VIEW OF CONTROL BOX SHELF  
(SEE NOTES 4 & 5 AND CHART 1)

[illegible]

THIRSDAY 25th  
(19125m)



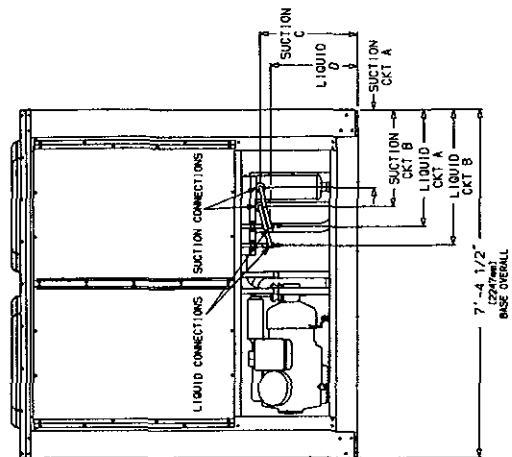
RELIEF VALVES LOCATED ON THE COMPRESSORS ARE EQUIPPED WITH A 3/8" SAE FLARE FOR FIELD CONNECTION

| UNIT        | DIMENSION X             | DIMENSION Y              | DIMENSION Z              |
|-------------|-------------------------|--------------------------|--------------------------|
| 38AH-074--- | 3'-3 1/8"<br>(933mm)    | 4'-8 13/16"<br>(1,144mm) | 4'-8 13/16"<br>(1,144mm) |
| 38AH-074--C | 3'-3 5/8"<br>(1,005mm)  | 4'-8 1/8"<br>(1,142mm)   | 4'-8 1/8"<br>(1,142mm)   |
| 38AH-084--- | 3'-3"<br>(914mm)        | 4'-8 1/8"<br>(1,142mm)   | 4'-8 1/8"<br>(1,142mm)   |
| 38AH-084--C | 3'-3 1/16"<br>(1,008mm) | 4'-8 1/8"<br>(1,142mm)   | 4'-8 1/8"<br>(1,142mm)   |

### CHART 1: FIELD POWER SUPPLY CONNECTIONS

| UNIT     | VOLTAGE      | HZ | DIAMETER           | QTY |
|----------|--------------|----|--------------------|-----|
| 074      | 208/230      | 60 | 2 1/2"<br>(63.5mm) | 2   |
| 094      | 208/230      | 60 | 3 5/8"<br>(92.0mm) | 2   |
| 074      | 480          | 60 | 2 1/2"<br>(63.5mm) | 1   |
| 084      | 480          | 60 | 3 5/8"<br>(92.0mm) | 1   |
| 074, 084 | 575          | 60 | 2 1/2"<br>(63.5mm) | 1   |
| 074, 084 | 380          | 60 | 3 5/8"<br>(92.0mm) | 1   |
| 074, 084 | 346, 380/415 | 50 | 3 5/8"<br>(92.0mm) | 1   |

|               |            | DUAL CKT   | SINGLE CKT |
|---------------|------------|------------|------------|
| SUCTON        | 2 1/8" DIA | 2 1/8" DIA | 2 5/8" DIA |
| CONNECTION(S) | [54mm]     | [54mm]     | [67mm]     |
| LQID          | 7/8" DIA   | 7/8" DIA   | 1 1/8" DIA |
| CONNECTION(S) | [22mm]     | [22mm]     | [29mm]     |
| SUCTON        | 2 1/16"    | 2 1/16"    | 1 10 5/16" |
|               | [627mm]    | [627mm]    | [1557mm]   |
| LQID          | 1 1/8" DIA | 1 1/8" DIA | 1 10 5/16" |
|               | [581mm]    | [581mm]    | [1557mm]   |
| SUCTON        | 1 7 13/16" | 1 7 13/16" | 2 5/8"     |
| CKT A)        | [503mm]    | [503mm]    | [632mm]    |
| SUCTON        | 2 5/8"     | 2 5/8"     | -          |
| CKT B)        | [626mm]    | [626mm]    | -          |
| LQID          | 2 5/8" DIA | 2 5/8" DIA | 2 10 5/8"  |
| CONNECTION(S) | [266mm]    | [266mm]    | [679mm]    |
| LQID          | 2 10 5/8"  | 2 10 5/8"  |            |
| CONNECTION(S) | [681mm]    | [681mm]    |            |



**[2247mm]  
BASE OVERALL**

UNITED  
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P O BOX 4808  
 PHARMACEUTICALS N. Y.  
 10021

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1. THE APPROXIMATE OPERATING HEIGHT OF THE UNIT IS:  
3BAH-054--- → 5084 LBS. (2308 KG.)  
3BAH-054--- → 5813 LBS. (2637 KG.)

2. TOP MUST HAVE CLEARANCE FOR AIR FLOW AS FOLLOWS:  
UNIT - DO NOT REST CLEARANCE IN ANY WAY  
ENDS - 5 FT. (1524mm)  
SIDES - 6 FT. (1829mm)

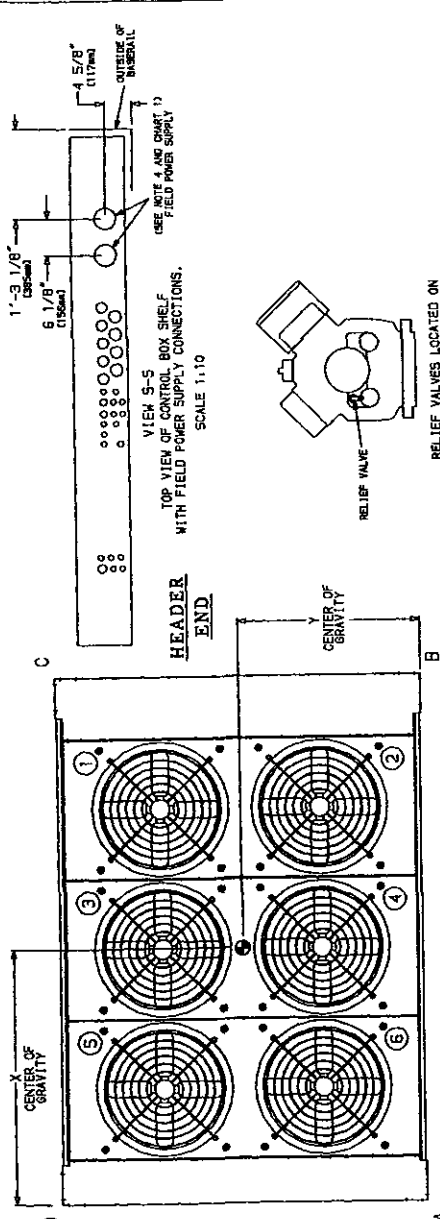
3. MOUNTING HOLES MAY BE USED TO MOUNT UNIT TO CONCRETE PAD. THEY ARE NOT RECOMMENDED FOR MOUNTING UNIT TO SPRING ISOLATORS. IF SPRING ISOLATORS ARE USED, A PROTECTIVE SUPPORT CHANNEL BETWEEN THE UNIT AND THE ISOLATORS IS RECOMMENDED.

4. C2 3 5/8" DIA HOLES ARE RECOMMENDED FOR PARALLEL CONDUCTORS ON 208/230V UNITS.

| UNIT         | DIMENSION X DIMENSION Y | OPERATING CORNER WEIGHTS |           |          |                    |
|--------------|-------------------------|--------------------------|-----------|----------|--------------------|
|              |                         | A                        | B         | C        | D                  |
| 38AH-994---- | 5'-6"<br>[1676mm]       | 1114 LBS. 2192 LBS.      | 1182 LBS. | 801 LBS. | 1505 KG. [536 KG.] |
| 38AH-994--C  | 5'-6"<br>[1676mm]       | 1273 LBS. 2594 LBS.      | 1350 LBS. | 886 LBS. | 1279 KG. [350 KG.] |
| 38AH-994--C  | 5'-6"<br>[1676mm]       | 1577 KG. 3116 KG.        | 1512 KG.  | 1311 KG. |                    |

## CHART 1: FIELD POWER SUPPLY CONNECTIONS

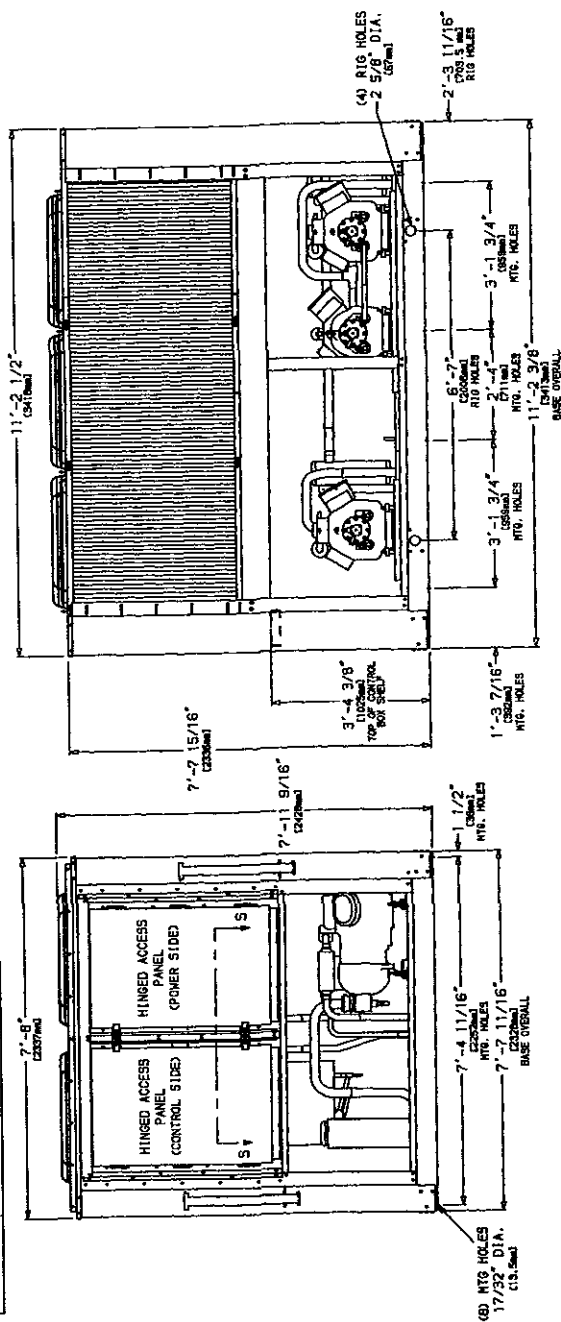
| UNIT | VOLTAGE       | HZ | DIAMETER          | QTY. |
|------|---------------|----|-------------------|------|
| 094  | 208/230       | 50 | 3 5/8<br>[92.0mm] | 2    |
| 094  | 460, 575, 380 | 50 | 3 5/8<br>[92.0mm] | 1    |
| 094  | 346, 380/415  | 50 | 3 5/8<br>[92.0mm] | 1    |



RELIEF VALVE

RELIEF VALVES LOCATED ON COMPRESSORS A2 AND B1 ARE EQUIPPED WITH A 3/8" SAE FLARE FOR FIELD CONNECTION

SCALE 1:8



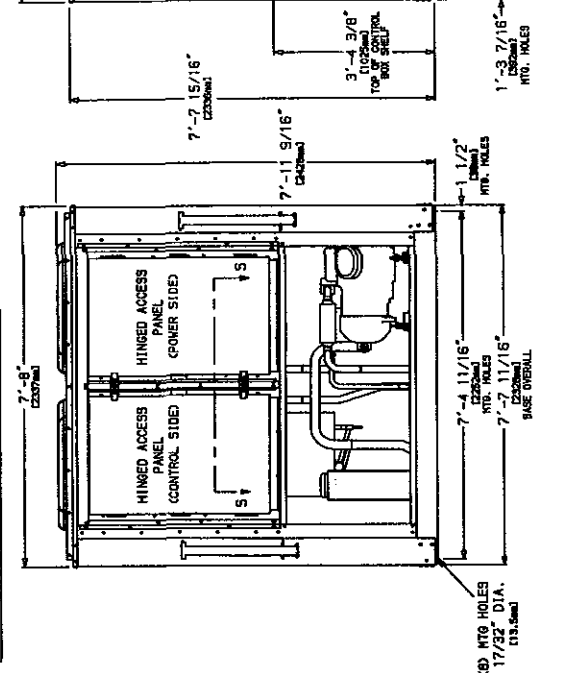
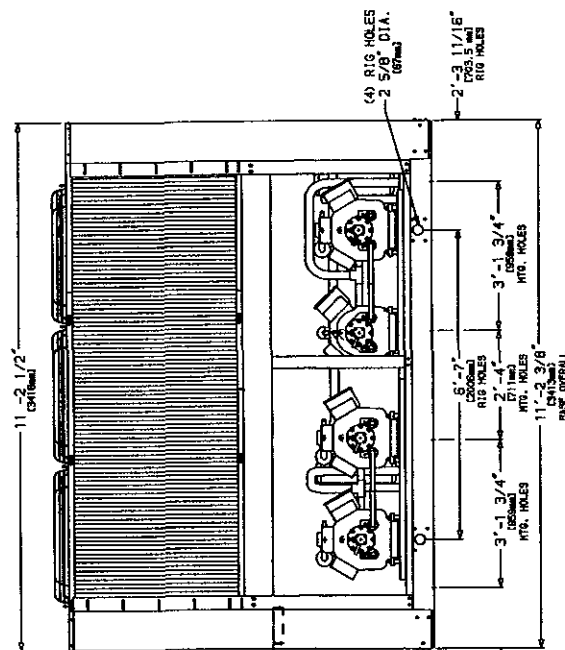
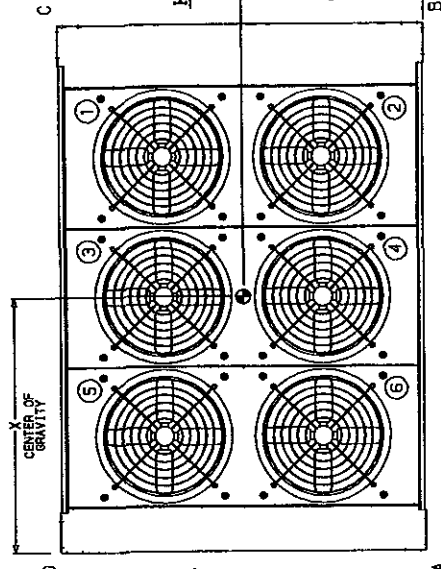
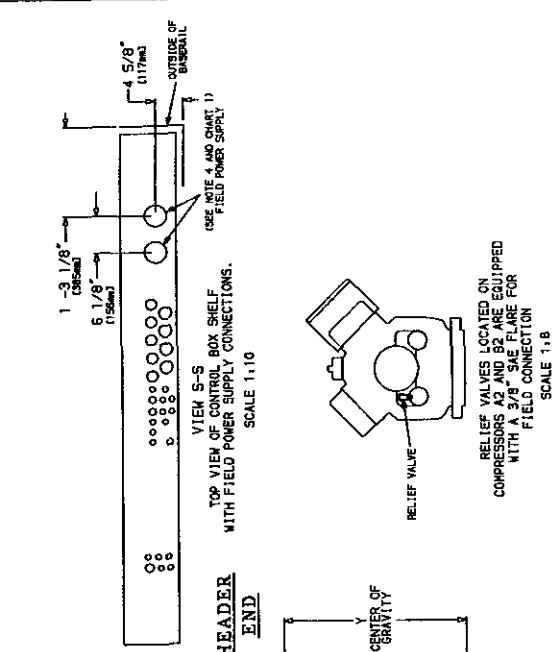
|          |            |
|----------|------------|
| DATE     | SUPERVISOR |
| 05/24/93 |            |

38AH094 CONDENSING UNIT

38AK501153

P O BOX 4800  
HARRISBURG N. Y.  
13221

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RELIEF VALVES LOCATED ON  
PRESSORS A2 AND B2 ARE EQUIPPED  
WITH A 3/8" SAE FLARE FOR  
FIELD CONNECTION  
SCALE 1:8

**NOTES:**

1. THE APPROXIMATE OPERATING HEIGHT OF THE UNIT IS:  
384M-104--- → 5435 LBS. [2455 KG.]  
384M-104--- → 6160 LBS. [2798 KG.]
2. UNIT MUST HAVE CLEARANCES FOR AIR FLOW AS FOLLOWS:  
TOP - DO NOT RESTRICT IN ANY WAY  
ENDS - 5 FT. [1524mm]  
SIDES - 6 FT. [1829mm]
3. MOUNTING HOLES MAY BE USED TO MOUNT UNIT TO CONCRETE PAD. ISOLATORS ARE NOT RECOMMENDED FOR MOUNTING UNIT TO PERIMETER SPRING ISOLATORS. IF SPRING ISOLATORS ARE USED, THE SUPPORT CHANNEL BETWEEN THE UNIT AND THE ISOLATORS IS RECOMMENDED.
4. 3 5/8" DIA HOLES ARE RECOMMENDED FOR PARALLEL CONDUCTORS ON 208/230V UNITS.

| UNIT        | DIMENSION X DIMENSION Y | OPERATING CORNER WEIGHTS |             |           |           |
|-------------|-------------------------|--------------------------|-------------|-----------|-----------|
|             |                         | A                        | B           | C         | D         |
| 39AH-104--- | 2'-8 1/2"               | 1240 LBS.                | 2138 LBS.   | 1302 LBS. | 755 LBS.  |
|             | (1500mm)                | (582 KG.)                | (970 KG.)   | (591 KG.) | (343 KG.) |
| 39AH-104-C  | 2'-8 1/2"               | 1405 LBS.                | 2423 LBS.   | 1476 LBS. | 855 LBS.  |
|             | (1500mm)                | (637 KG.)                | (11059 KG.) | (670 KG.) | (388 KG.) |

### CHART 1: FIELD POWER SUPPLY CONNECTIONS

| UNIT | VOLTAGE       | HZ | DIAMETER          | QTY. |
|------|---------------|----|-------------------|------|
| 104  | 208/230       | 50 | 3 5/8<br>(92.0mm) | 2    |
| 104  | 460, 575, 380 | 60 | 3 5/8<br>(92.0mm) | 1    |
| 104  | 346, 380/415  | 50 | 3 5/8<br>(92.0mm) | 1    |

# CERTIFIED DIMENSION PRINT



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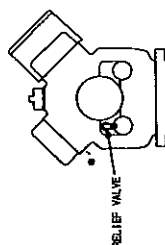
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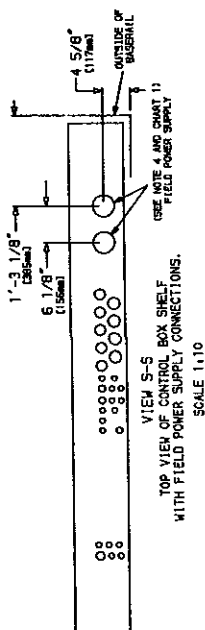
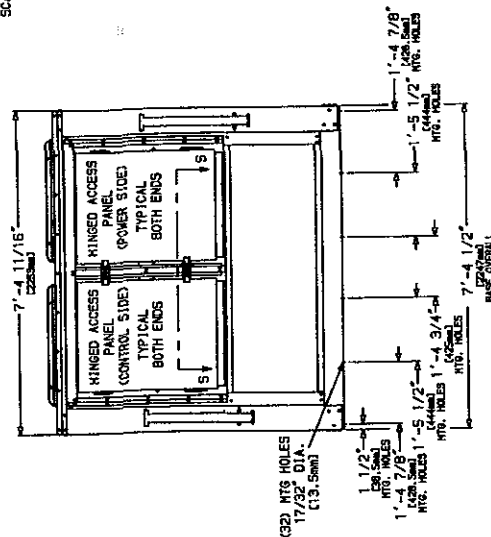
6. SUCTION AND LIQUID CONNECTIONS MAY  
EXIT ON EITHER SIDE OF THE UNIT
7. FIELD POWER SUPPLY CONNECTIONS  
ARE REQUIRED FOR EACH MODULE.

1. THE APPROXIMATE OPERATING WEIGHT OF THE UNIT IS:  
38AH-124A-C 7260 LBS. (3293 KG.)  
38AH-124B-C 8126 LBS. (3686 KG.)
2. UNIT MUST HAVE CLEARANCES FOR AIR FLOW AS FOLLOWS:  
TOP - DO NOT RESTRICT IN ANY WAY  
SIDES - 6 FT. (1829mm)
3. MOUNTING HOLES MAY BE USED TO MOUNT UNIT TO CONCRETE  
PAD. THEY ARE NOT RECOMMENDED FOR MOUNTING UNIT TO  
SPRING ISOLATORS. IF SPRING ISOLATORS ARE USED, A  
PERIMETER SUPPORT CHANNEL BETWEEN THE ASSEMBLED UNIT  
AND THE ISOLATORS IS RECOMMENDED. DO NOT SUPPORT  
EACH MODULE SEPARATELY
4. (1) 3 5/8" DIA. HOLE IS RECOMMENDED FOR SINGLE POWER  
ENTRY INTO EACH MODULE (124A & 124B) OF THE  
UNIT.
5. EACH MODULE IS TO BE RIGGED INTO POSITION  
SEPARATELY. THIS UNIT IS NOT TO BE RIGGED  
AFTER MODULES HAVE BEEN CONNECTED TOGETHER.

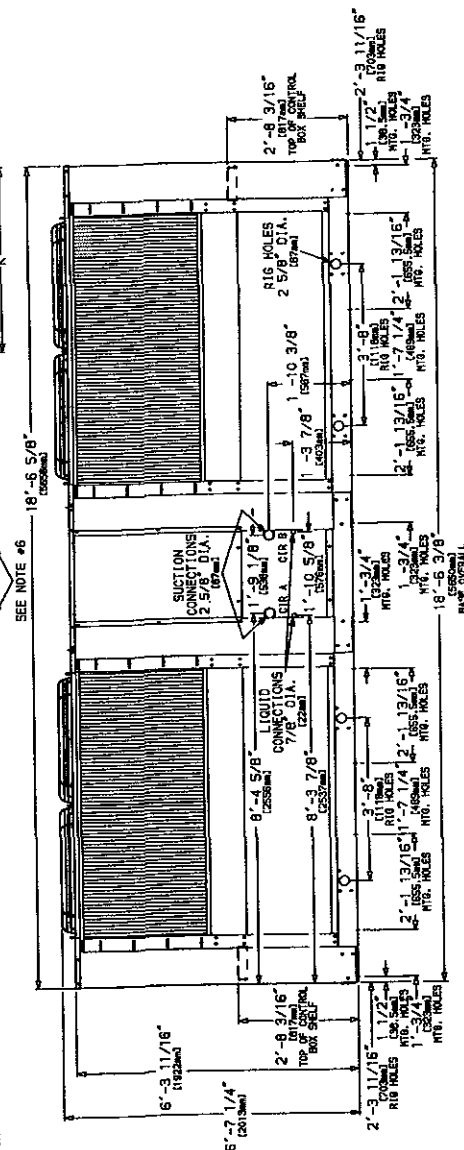
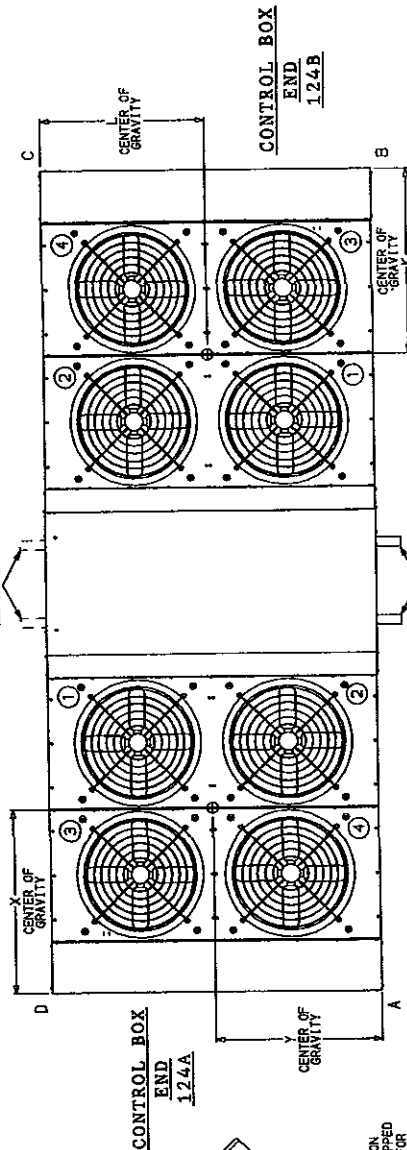
| MODULE    | VOLTAGE       | H2 DIAMETER | QTY. |
|-----------|---------------|-------------|------|
| 38AH-124A | 208/230       | 2 1/2"      | 2    |
| 38AH-124A | 460, 575, 360 | 2 1/2"      | 1    |
| 38AH-124A | 346, 360/415  | 3 5/8"      | 1    |
| 38AH-124B | 208/230       | 2 1/2"      | 2    |
| 38AH-124B | 460, 575, 360 | 2 1/2"      | 1    |
| 38AH-124B | 346, 360/415  | 3 5/8"      | 1    |



RELIEF VALVES LOCATED ON  
THE COMPRESSORS ARE EQUIPPED  
WITH A 3/8" SAE FLARE FOR  
FIELD CONNECTION  
SCALE 1:8



SEE NOTE #6



DATE 06/11/93

38AH124 CONDENSING UNIT

38AK501157

**BASE OVERALL**

