



30GX080-350, 30GXN,R080-528 Accessory Sound Reduction/Hail Guard Wind Baffle Hoods

Installation Instructions

See Table 1 for Part Numbers

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SAFETY CONSIDERATIONS

When installing this accessory, observe precautions in the literature and on any labels attached to the equipment, and all other safety precautions that may apply.

- Follow all safety codes.
- Wear safety glasses and work gloves.
- Use care in handling and installing this accessory.

| | |
|--|---|
| | <p>ELECTRIC SHOCK HAZARD</p> <p>To avoid the possibility of electrical shock, open and tag all disconnects before installing this equipment.</p> |
|--|---|

INTRODUCTION

Table 1 lists the part numbers. Table 2 lists the usage for the accessory kits. Table 3 lists the end kit contents. The end kit is used with sound reduction applications only. Table 4 lists the side kit contents. The side kit is used in sound reduction, hail guard, and wind baffle applications.

Table 1 — Part Numbers

| PART NO. 30GX-900--- | DESCRIPTION |
|-------------------------|--|
| 015 | 30GX080-350, 30GXN,R080-350 End |
| 016 | 30GX080-105, 30GXN,R080, 090* Side |
| 017 | 30GX106-125, 30GXN,R083, 093-115, 125, 135* Side |
| 018 | 30GX136, 150, 160, 30GXN,R118, 128, 138, 150, 160* Side |
| 019 | 30GX151, 161, 175, 30GXN,R153, 174, 175, 204, 205, 225* Side; 30GX205, 225 Cooler Side |
| 020 | 30GX176; 30GXN,R163, 178, 249, 250, 264* Side; 30GX206, 226, 250 Cooler Side |
| 028 | 30GX205, 225 Oil Separator Side |
| 029 | 30GX206, 226, 250 Oil Separator Side |
| 030 | 30GX251, 265 Cooler Side; 30GXN,R208, 228* Side |
| 031 | 30GX251, 265 Oil Separator Side |
| 039 | 30GX281-350 Cooler Side; 30GXN,R253, 268-350* Side |
| 040 | 30GX281-350 Oil Separator Side |

*And associated modular sizes (see Table 5 for Duplex Combinations).

The 30GX sound reduction hood is designed to muffle compressor noise, protect against hail, and provide wind baffling (when used with the low ambient Motormaster® control accessory). The enclosure kits contain all of the parts and hardware necessary to assemble this accessory. For hail guard protection, only the vertical coil side of the unit requires hoods to be installed. Wind baffling requires hoods on both sides, but not on the ends of the unit. For sound reduction, the unit should have hoods installed on the end and both sides.

Check each item for shipping damage. If any damage is found, file a claim with the shipping agent immediately. If any item is missing or if any part does not assemble properly, notify your Carrier distributor.

Nomenclature — In these instructions, descriptions of units and locations of panels are identified as follows:

UNIT

- Cooler Side — Viewed facing the cooler/compressor side of the unit.
- Oil Separator Side — Viewed facing the oil separator side of the unit.
- Control Box/Power End — Viewed facing the control box end on 30GX, 30GXN,R080-178, and the power box end on 30GX, 30GXN,R204-350.
- Header End — Viewed facing the header end of the unit opposite of the control/power box end of the unit.

PANELS

- Support Bracket — Used to support side panels, except on corner posts.
- Side Panel — Triangular panel installed on the unit.
- Top Panel — Panel installed on top of the side panels.

Table 2 — Accessory Hood Usage

| UNIT | Quantity of) 30GX-900--- | | |
|--|----------------------------|----------------------|--------------------------|
| | For Hail Guard Only, Order | For Wind Baffle, Add | For Sound Reduction, Add |
| 30GX080-105 30GXN,R080, 090 | (1) 016 | (1) 016 | (1) 015 |
| 30GX106-125 30GXN,R083, 093-115, 125, 135 | (1) 017 | (1) 017 | (1) 015 |
| 30GX136,150,160 30GXN,R118, 128, 138, 150, 160 | (1) 018 | (1) 018 | (1) 015 |
| 30GX151,161,175 30GXN,R153, 174, 175, 204, 205, 225 | (1) 019 | (1) 019 | (1) 015 |
| 30GX176 30GXN,R163, 178, 249, 250, 264 | (1) 020 | (1) 020 | (1) 015 |
| 30GX205,225 | (1) 028 | (1) 019 | (1) 015 |
| 30GX206,226,250 | (1) 029 | (1) 020 | (1) 015 |
| 30GX251,265 | (1) 031 | (1) 030 | (1) 015 |
| 30GX281,350 | (1) 040 | (1) 039 | (1) 015 |
| 30GXN,R253, 268-350 | (1) 039 | (1) 039 | (1) 015 |
| 30GXN,R208, 228 | (1) 030 | (1) 030 | (1) 015 |

Table 3 — End Kit Contents

| ACCESSORY KIT PART NO. | DESCRIPTION | QTY | ITEM PART NO. |
|------------------------|---------------------|-----|---------------|
| 30GX-900---015 | Top Panel (76-in.) | 2 | 30GX501122 |
| | Side Panel | 4 | 30GX501118 |
| | Screw | 36 | AL48AM307 |
| | Seal Strip (76-in.) | 1 | QR09-19 |

Table 4 — Side Kit Contents

| ACCESSORY KIT PART NO. | UNIT SIZE 30GX (30GXN,R)* | DESCRIPTION | QTY | ITEM PART NO. |
|------------------------|--|---------------------|-----|---------------|
| 30GX-900---016 | 080-105 (080, 090) | Top Panel | 6 | 30GX501124 |
| | | Side Panel | 12 | 30GX501118 |
| | | Support Bracket | 1 | 30GX501117 |
| | | Screw | 112 | AL48AM307 |
| | | Seal Strip (46-in.) | 2 | QR09-19 |
| 30GX-900---017 | 106-125 (083, 093-115, 125, 135) | Top Panel | 6 | 30GX501123 |
| | | Side Panel | 12 | 30GX501118 |
| | | Support Bracket | 1 | 30GX501117 |
| | | Screw | 112 | AL48AM307 |
| | | Seal Strip (55-in.) | 2 | QR09-19 |
| 30GX-900---018 | 136, 150, 160 (118, 128, 138, 150, 160) | Top Panel | 6 | 30GX501123 |
| | | Top Panel | 3 | 30GX501125 |
| | | Side Panel | 18 | 30GX501118 |
| | | Support Bracket | 2 | 30GX501117 |
| | | Screw | 170 | AL48AM307 |
| | | Seal Strip (55-in.) | 2 | QR09-19 |
| 30GX-900---019 | 151, 161, 175, 205, 225 (153, 174, 175, 204, 205, 225) | Seal Strip (32-in.) | 1 | QR09-19 |
| | | Top Panel | 6 | 30GX501123 |
| | | Top Panel | 6 | 30GX501124 |
| | | Side Panel | 24 | 30GX501118 |
| | | Support Bracket | 3 | 30GX501117 |
| | | Screw | 228 | AL48AM307 |
| 30GX-900---020 | 176, 206, 226, 250 (163, 178, 249, 250, 264) | Seal Strip (55-in.) | 2 | QR09-19 |
| | | Seal Strip (46-in.) | 2 | QR09-19 |
| | | Top Panel | 3 | 30GX501119 |
| | | Top Panel | 3 | 30GX501123 |
| | | Top Panel | 9 | 30GX501124 |
| | | Side Panel | 30 | 30GX501118 |
| | | Support Bracket | 4 | 30GX501117 |
| | | Screw | 286 | AL48AM307 |
| | | Seal Strip (55-in.) | 1 | QR09-19 |
| 30GX-900---028 | 205, 225 | Seal Strip (46-in.) | 3 | QR09-19 |
| | | Seal Strip (41-in.) | 1 | QR09-19 |
| | | Top Panel | 3 | 30GX501124 |
| | | Top Panel | 3 | 30GX502171 |
| | | Top Panel | 3 | 30GX502172 |
| | | Side Panel | 18 | 30GX501118 |
| | | Support Bracket | 3 | 30GX501117 |
| | | Screw | 174 | AL48AM307 |
| 30GX-900---029 | 206, 226, 250 | Seal Strip (46-in.) | 1 | QR09-19 |
| | | Seal Strip (58-in.) | 1 | QR09-19 |
| | | Seal Strip (74-in.) | 1 | QR09-19 |
| | | Top Panel | 6 | 30GX501124 |
| | | Top Panel | 6 | 30GX502171 |
| | | Top Panel | 3 | 30GX502173 |
| | | Side Panel | 24 | 30GX501118 |
| | | Support Bracket | 4 | 30GX501117 |
| 30GX-900---030 | 251, 265 (208, 228) | Screw | 232 | AL48AM307 |
| | | Seal Strip (46-in.) | 2 | QR09-19 |
| | | Seal Strip (44-in.) | 1 | QR09-19 |
| | | Seal Strip (74-in.) | 1 | QR09-19 |
| | | Top Panel | 12 | 30GX502172 |
| | | Top Panel | 3 | 30GX502174 |
| | | Side Panel | 30 | 30GX501118 |
| 30GX-900---031 | 251, 265 | Support Bracket | 4 | 30GX501117 |
| | | Screw | 286 | AL48AM307 |
| | | Seal Strip (37-in.) | 1 | QR09-19 |
| | | Seal Strip (58-in.) | 4 | QR09-19 |
| | | Top Panel | 12 | 30GX501124 |
| | | Top Panel | 3 | 30GX502172 |
| | | Side Panel | 30 | 30GX501118 |
| 30GX-900---031 | 251, 265 | Support Bracket | 5 | 30GX501117 |
| | | Screw | 290 | AL48AM307 |
| | | Seal Strip (46-in.) | 4 | QR09-19 |
| | | Seal Strip (58-in.) | 1 | QR09-19 |

Table 4 — Side Kit Contents (cont)

| ACCESSORY KIT PART NO. | UNIT SIZE 30GX (30GXN,R)* | DESCRIPTION | QTY | ITEM PART NO. |
|------------------------|------------------------------|---------------------|---------|---------------|
| 30GX-900---039 | 281-350 (253, 268-350) | Top Panel | 6 | 30GX502172 |
| | | Top Panel | 6 | 30GX502171 |
| | | Top Panel | 3 | 30GX501119 |
| | | Side Panel | 30 | 30GX501118 |
| | | Support Bracket | 4 | 30GX501117 |
| | | Screw | 286 | AL48AM307 |
| | | Seal Strip (58-in.) | 2 | QR09-19 |
| | | Seal Strip (74-in.) | 2 | QR09-19 |
| | | Seal Strip (41-in.) | 1 | QR09-19 |
| | | 30GX-900---040 | 281-350 | Top Panel |
| Top Panel | 3 | | | 30GX502173 |
| Side Panel | 36 | | | 30GX501118 |
| Support Bracket | 6 | | | 30GX501117 |
| Screw | 312 | | | AL48AM307 |
| Seal Strip (46-in.) | 5 | | | QR09-19 |
| Seal Strip (44-in.) | 1 | | | QR09-19 |

*And associated modular units (see Table 5 for Duplex Combinations).

INSTALLATION

NOTE: The unit has the necessary holes pre-drilled to accept the screws that come in the accessory package. The exception is the attachment for the top of the vertical support bracket. Holes must be drilled into the top edge of the unit at the correct location to accept the screws that secure the bracket. Correct location and orientation of the vertical support brackets is necessary in order to install this accessory. The support bracket must be vertical for the panels to fit properly. When installing this accessory, use the screws supplied with the accessory kit. Figures 1 and 2 detail the location and orientation of the supports. Use the screws provided with this kit for installation. Proper installation of the vertical support brackets is the first and most important step of this process. When the panels are properly mounted, the insulated side of each panel will face inward, toward the unit.

NOTE: When properly installed, the insulated side of each panel faces the unit.

30GXN,R220-528 duplex chillers are shipped as two independent units (see Table 5 for duplex unit designations). The chiller is to be rigged and placed according to the rigging instructions for each individual module.

Step 1 — Cooler and Oil Separator Side Assembly

- Join 3 side panels to the corner posts on the control/power box end of the unit using the screws supplied in the accessory package. See Fig. 3 and 4 and unit assembly (Fig. 5A-5L). The insulated sides of the panels should face inward. Repeat this procedure for the header end of the unit.
- Install the vertical support bracket(s) to the middle section(s) of the unit using the screws supplied in the accessory package. Holes have been pre-drilled in the base rail of the unit to accept screws where needed. However, holes must be drilled in the necessary unit location(s) for the top of the support bracket. To ensure proper fit, be sure that the support bracket is vertical. Repeat this procedure when additional support brackets are needed.
- Join 6 side panels to each support bracket using the screws supplied in the accessory package. The insulation should face away from the center of the support bracket.
- After all the side panels have been secured to the unit, partially drive 5 screws into the outside of each side panel along its longest edge. Be sure not to fully tighten these

screws until the top panels have been properly secured into place.

- Attach the seal strip to the top flange of each top panel that will be used along the top edge of the unit as shown in Fig. 6. Install the seal strip to the flange facing the unit. This seal strip will protect the insulation in the panels from moisture.
- Locate the keyways along each top panel. Install the top panels onto the side panels by sliding the keyways over the partially installed screws described in Step 1d. Slide the top panels toward the unit to lock the top panel into place and tighten the screws. These keyways allow for easy removal when maintenance becomes necessary.

Table 5 — 30GXN,GXR Duplex Combinations

| SIZE 30GXN,GXR | MODULE A | MODULE B |
|---------------------|----------|----------|
| 220 (50 Hz only) | 125 | 090 |
| 240 (50 Hz only) | 125 | 115 |
| 275 (50 Hz only) | 135 | 135 |
| 283 (60 Hz & 50 Hz) | 153 | 138 |
| 300 (50 Hz only) | 160 | 135 |
| 303 (60 Hz & 50 Hz) | 163 | 138 |
| 320 (50 Hz only) | 160 | 160 |
| 328 (60 Hz & 50 Hz) | 178 | 153 |
| 345 (50 Hz only) | 175 | 175 |
| 353 (60 Hz & 50 Hz) | 178 | 178 |
| 365 (50 Hz only) | 250 | 135 |
| 370 (60 Hz only) | 225 | 150 |
| 373 (60 Hz & 50 Hz) | 253 | 138 |
| 390 (60 Hz only) | 264 | 135 |
| 393 (60 Hz & 50 Hz) | 253 | 153 |
| 395 (50 Hz only) | 264 | 135 |
| 410 (50 Hz only) | 225 | 205 |
| 415 (60 Hz only) | 264 | 160 |
| 418 (60 Hz & 50 Hz) | 268 | 153 |
| 440 (50 Hz only) | 225 | 225 |
| 450 (60 Hz only) | 225 | 225 |
| 453 (60 Hz & 50 Hz) | 228 | 228 |
| 470 (50 Hz only) | 250 | 225 |
| 475 (60 Hz only) | 249 | 225 |
| 478 (60 Hz & 50 Hz) | 253 | 228 |
| 495 (50 Hz only) | 250 | 250 |
| 500 (60 Hz only) | 249 | 249 |
| 503 (60 Hz & 50 Hz) | 253 | 253 |
| 520 (50 Hz only) | 264 | 264 |
| 525 (60 Hz only) | 264 | 264 |
| 528 (60 Hz & 50 Hz) | 268 | 268 |

Step 2 — Header End Assembly

- a. Join 2 side panels to each corner post on the header end of the unit using the screws supplied in the accessory package. See Fig. 4 and 5A-5L. The insulated sides of the panels should face inward.
- b. After all the side panels have been secured to the unit, partially drive 5 screws into the outside of each side panel along its longest edge. Be sure not to fully tighten these screws until the top panels have been properly secured into place.
- c. Attach the seal strip to the top flange of the top panel that will be used along the top edge of the unit as shown in

- Fig. 6. Install the seal strip to the flange facing the unit. This seal strip will protect the insulation in the panels from moisture.
- d. Locate the keyways along each top panel. Install the top panels onto the side panels by sliding the keyways over the partially installed screws described in Step 2b. Slide the top panels toward the unit to lock the top panel into place and tighten the screws. These keyways allow for easy removal when maintenance becomes necessary.

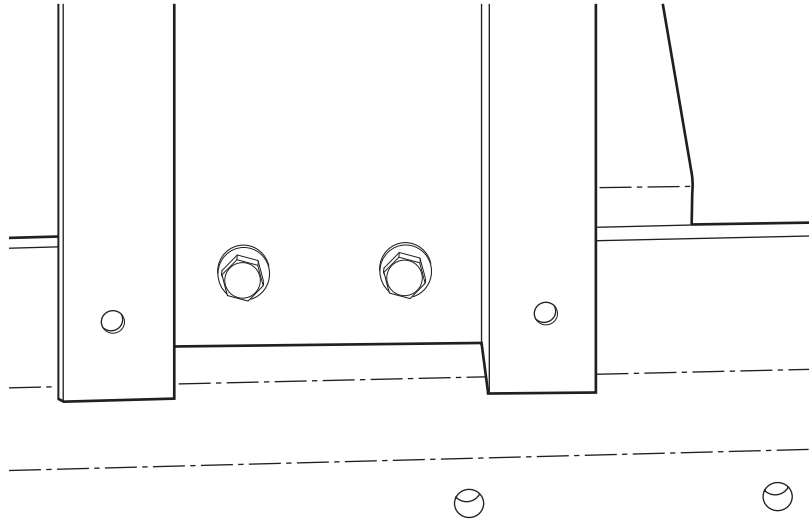


Fig. 1 — Typical Mounting of Vertical Support to Unit Base Rail

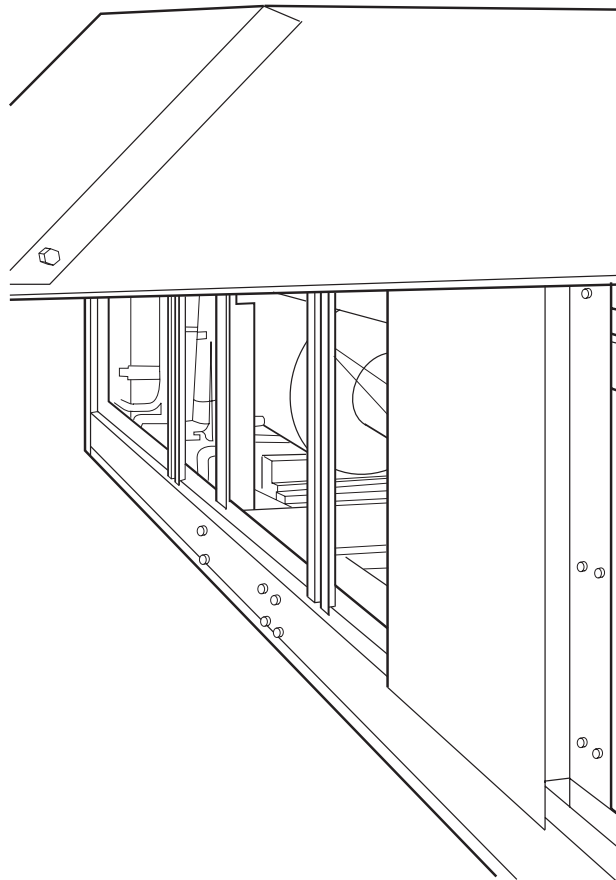
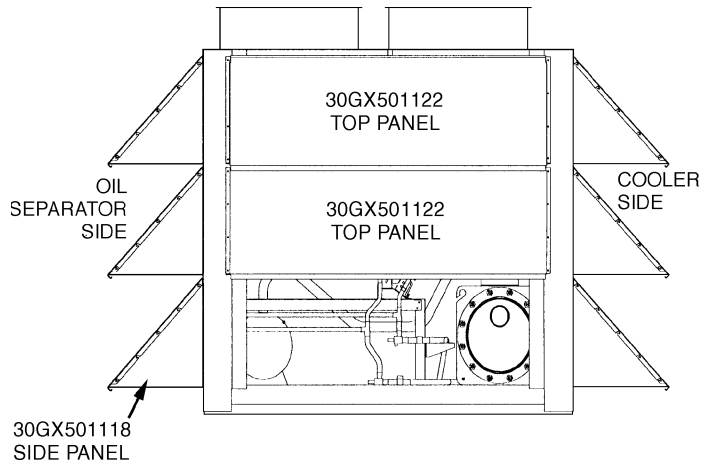
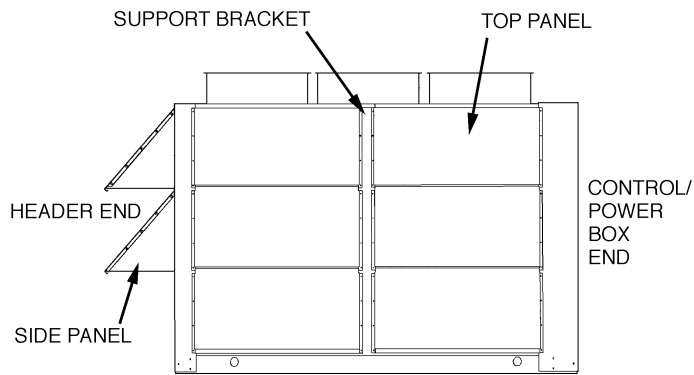


Fig. 2 — Vertical Supports Mounted to Unit

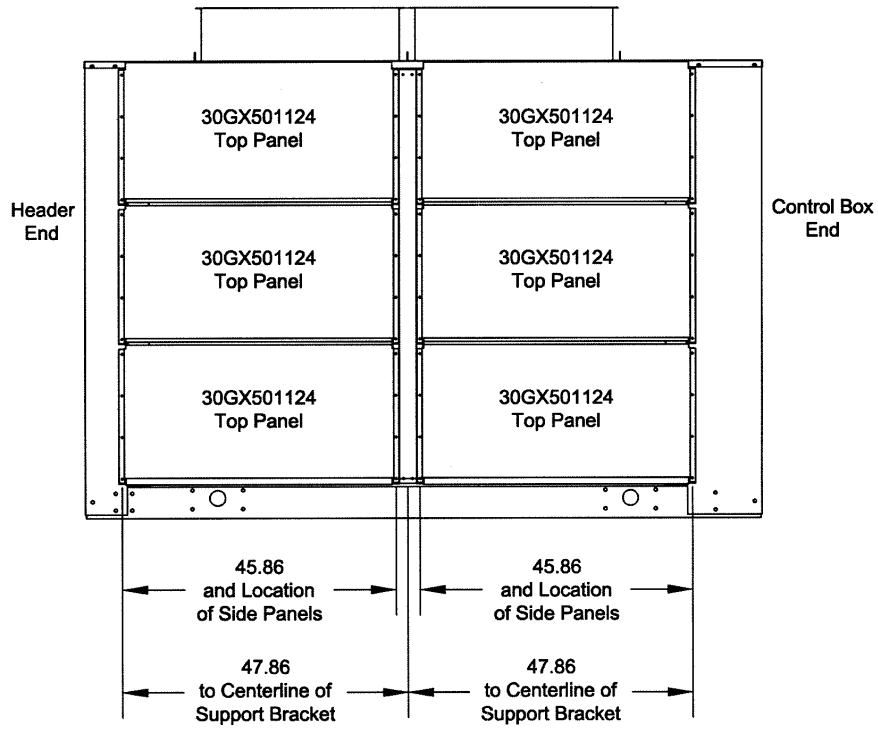


**Fig. 3 — End View
(30GX, 30GXN, R080-150, 160 Shown)**



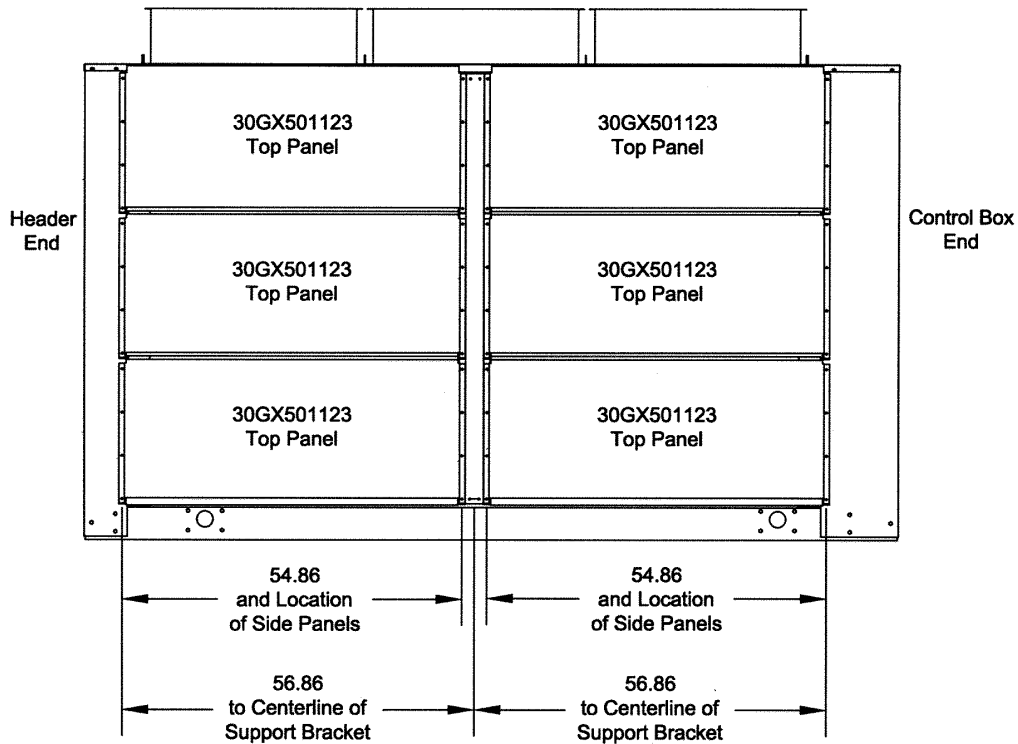
**Fig. 4 — Side View
(30GX106-125, 30GXN, R083, 093-115, 125, 135 Shown)**

→



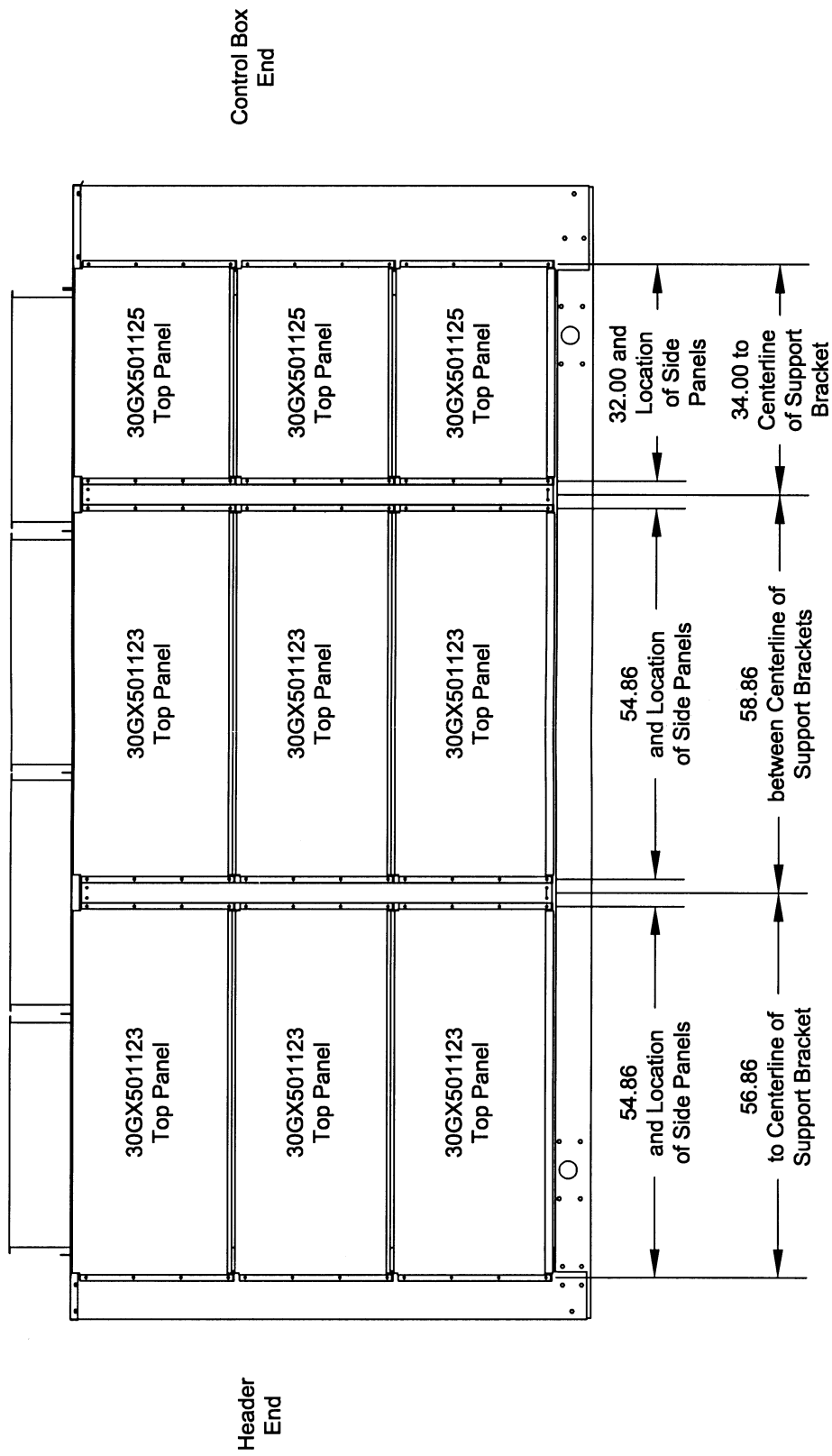
NOTE: All dimensions are in inches.

→ **Fig. 5A — Unit Assembly, 30GX080-105, 30GXN,R080, 090 Both Sides**



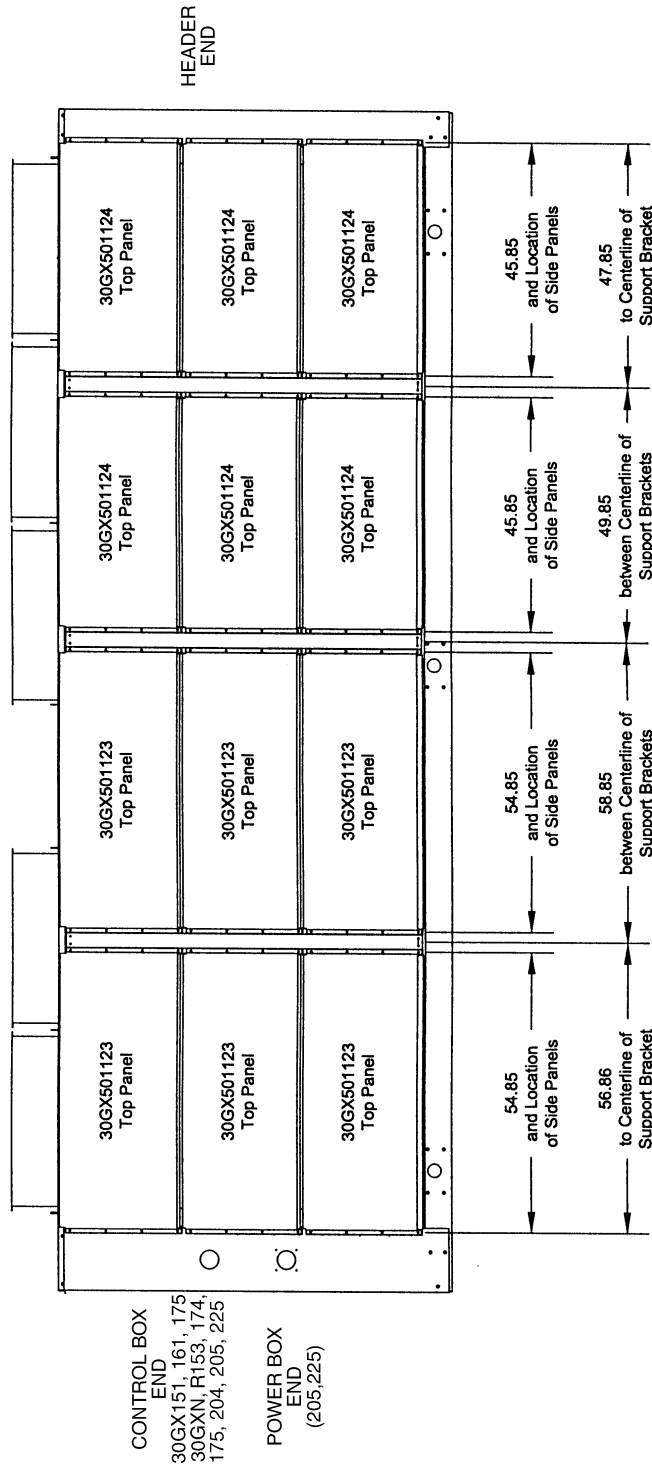
NOTE: All dimensions are in inches.

→ **Fig. 5B — Unit Assembly, 30GX106-125, 30GXN,R083, 093-115, 125, 135 Both Sides**



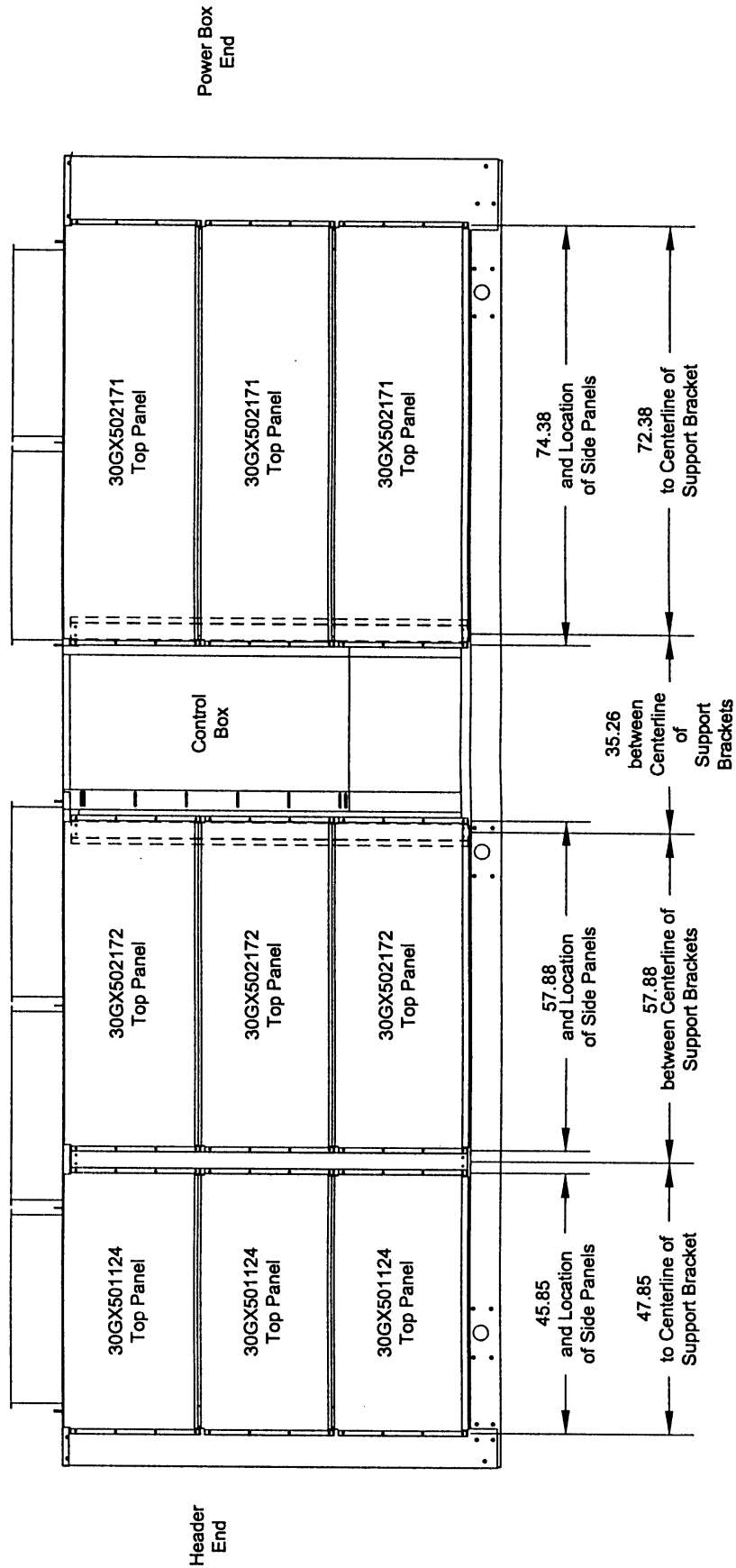
NOTE: All dimensions are in inches.

Fig. 5C — Unit Assembly, 30GX136, 150, 160, 30GXN, R118, 128, 138, 150, 160 Both Sides



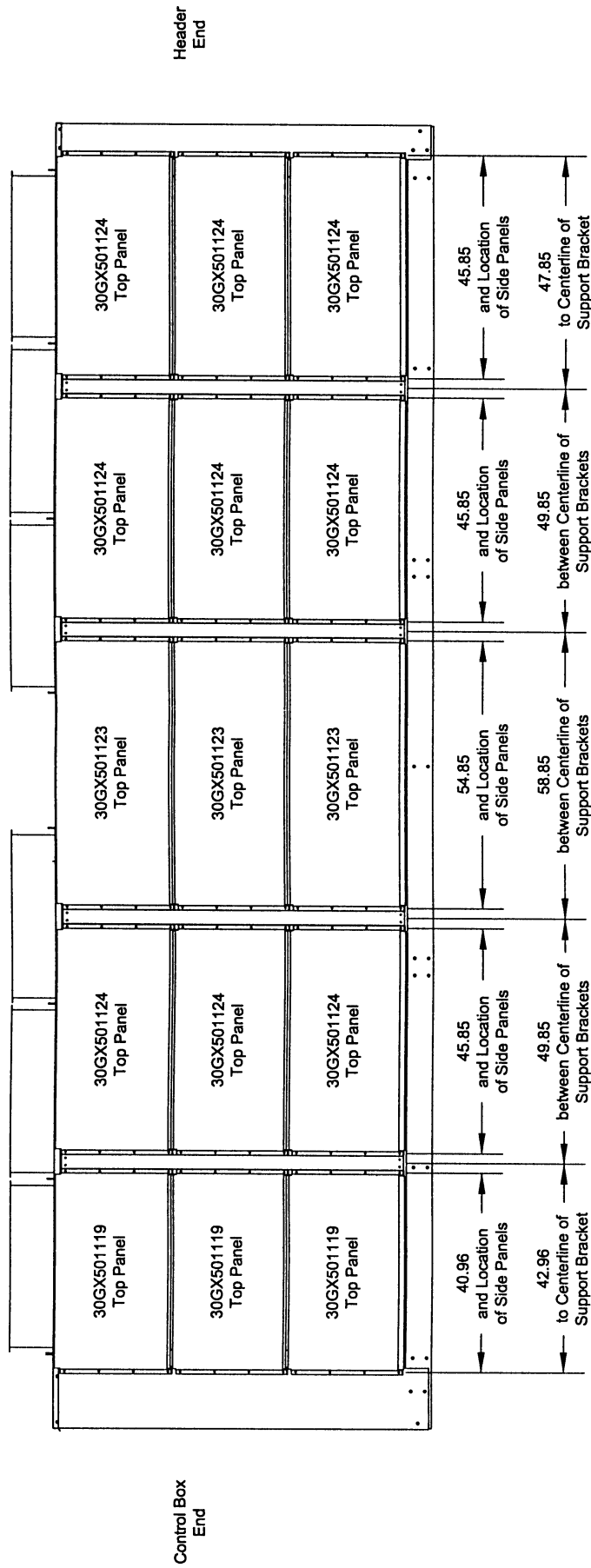
NOTE: All dimensions are in inches.

Fig. 5D — Unit Assembly, 30GX151, 161, 175, 30GXN, R153, 174, 175, 204, 205, 225 Both Sides; 30GX205, 225 Cooler Side Only



NOTE: All dimensions are in inches.

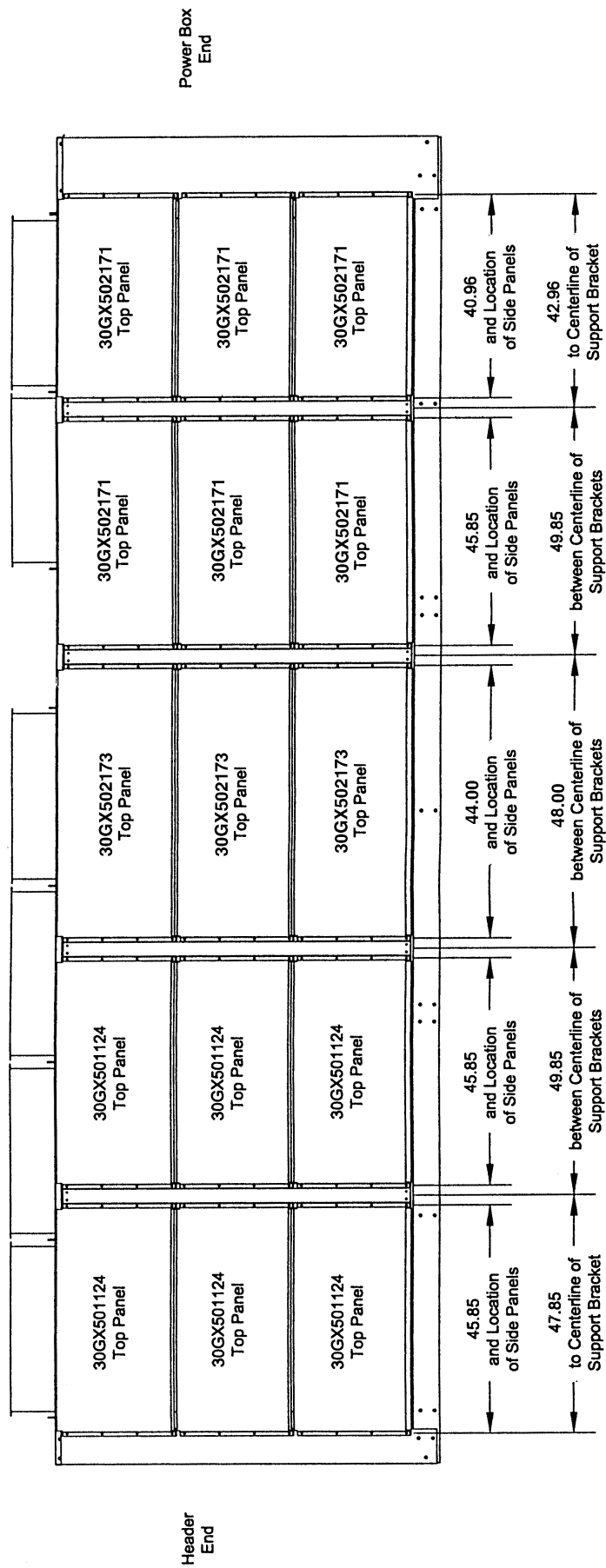
Fig. 5E — Unit Assembly, 30GX205, 225 Oil Separator Side Only



NOTE: All dimensions are in inches.

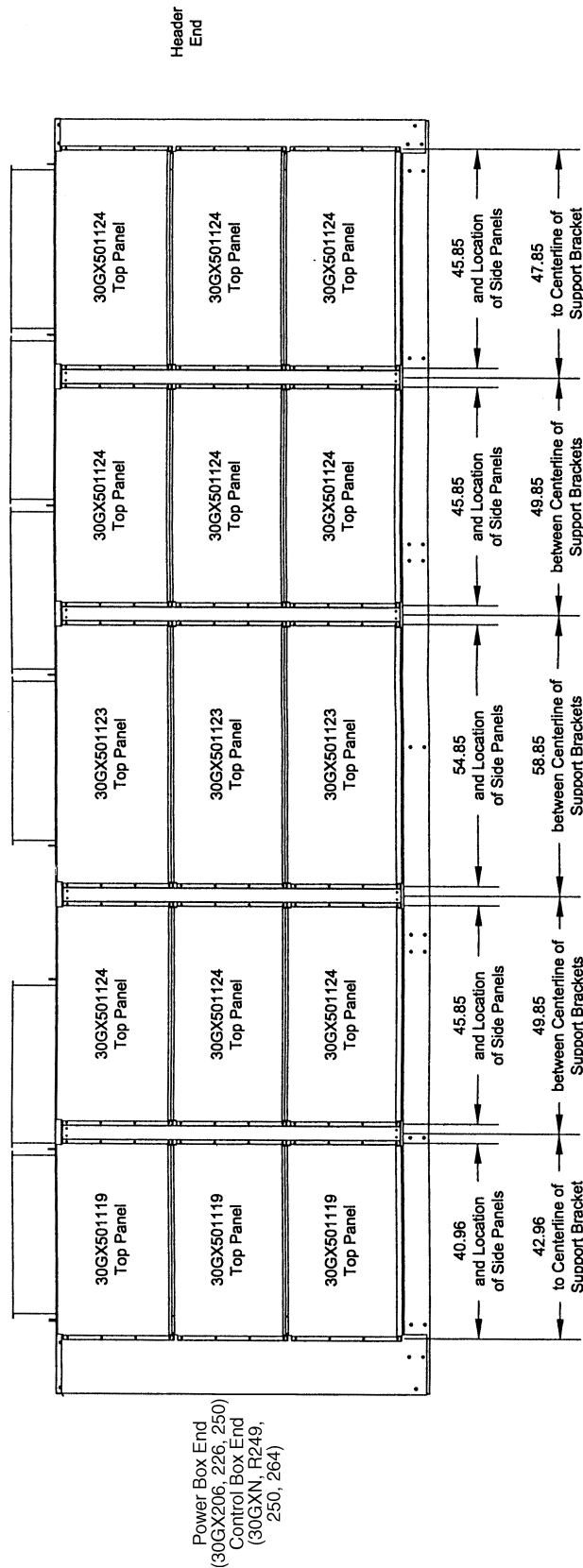
Fig. 5F — Unit Assembly, 30GX176; 30GXN,R163, 178 Both Sides





NOTE: All dimensions are in inches.

Fig. 5G — Unit Assembly, 30GX206, 226, 250 Oil Separator Side Only



NOTE: All dimensions are in inches.

Fig. 5H — Unit Assembly, 30GX206, 226, 250 Cooler Side Only, 30GXN,R249, 250, 264 Both Sides



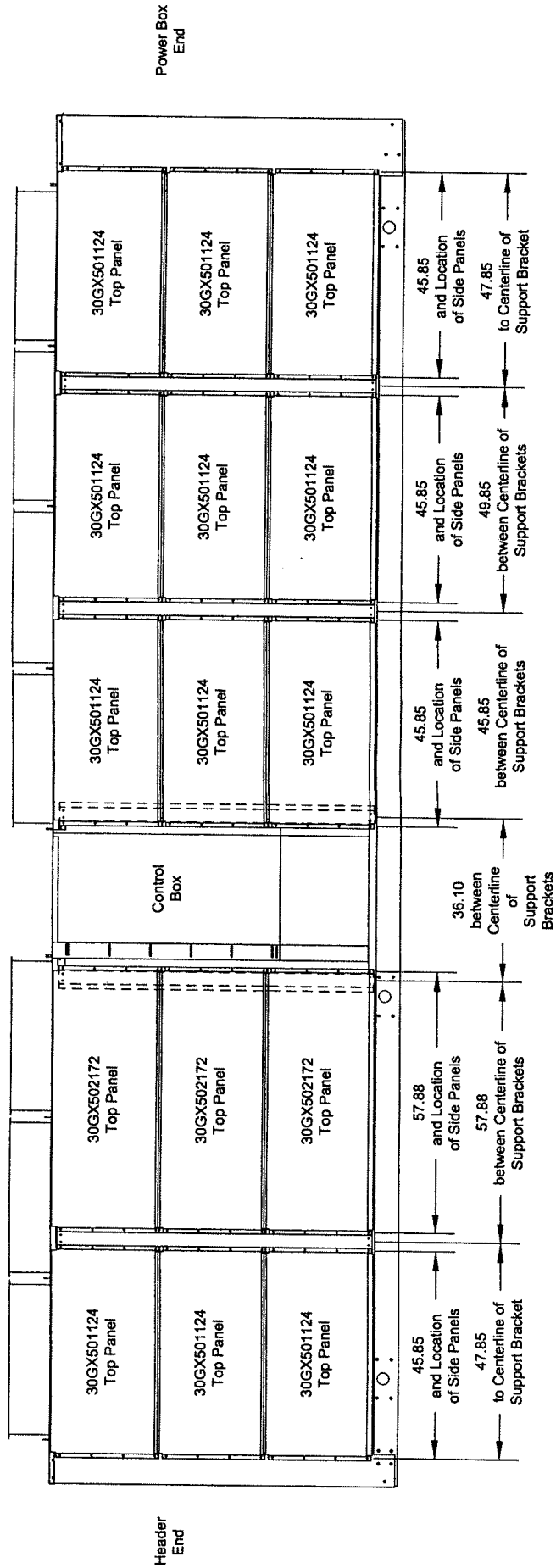
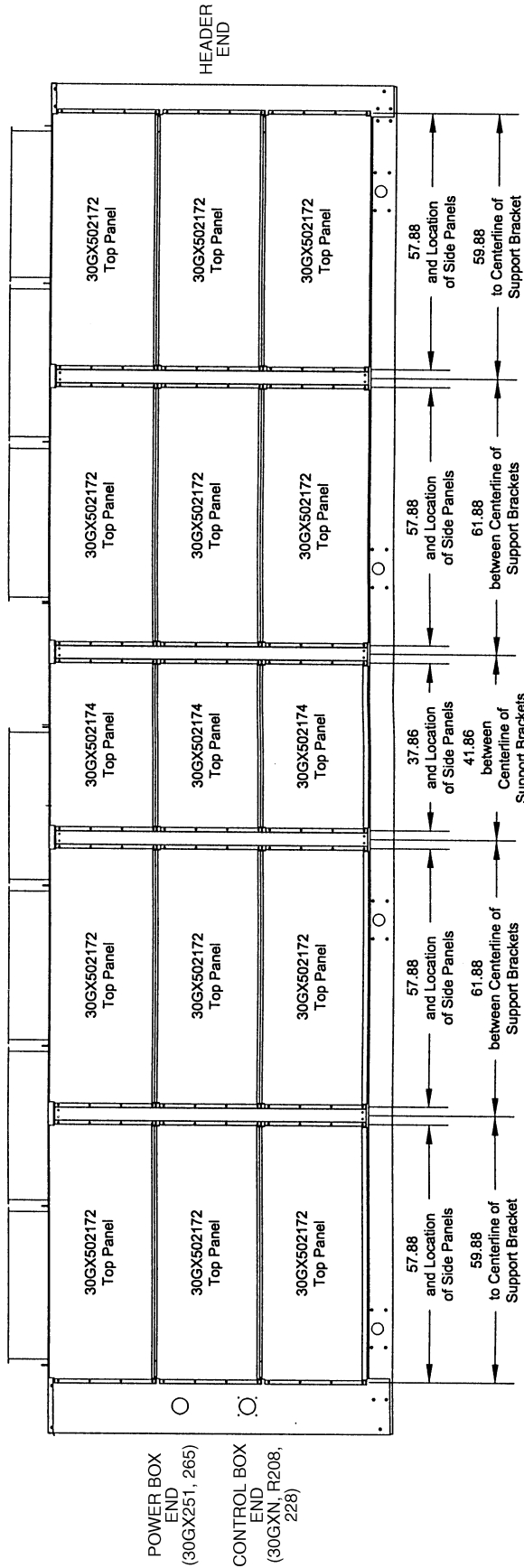


Fig. 5I — Unit Assembly, 30GX251,265 Oil Separator Side Only

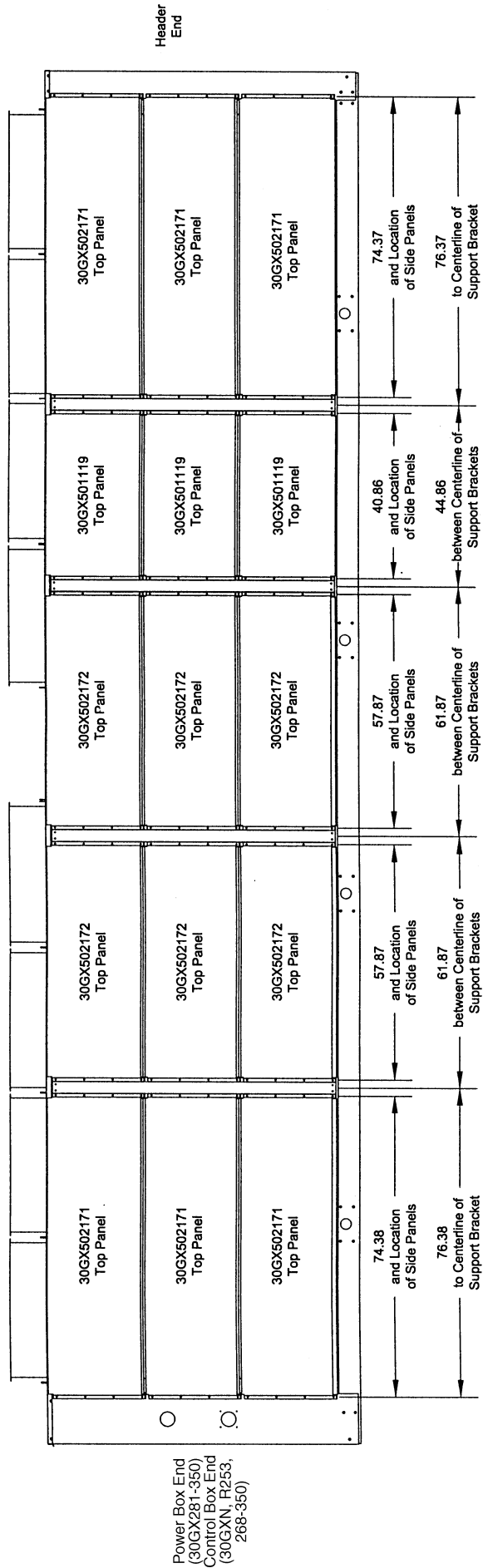
NOTE: All dimensions are in inches.



NOTE: All dimensions are in inches.

Fig. 5J — Unit Assembly, 30GX251, 265 Cooler Side Only and 30GXN, R208, 228 Both Sides





NOTE: All dimensions are in inches.

Fig. 5K — Unit Assembly, 30GX281-350 Cooler Side Only, 30GXN, R253, 268-350 Both Sides

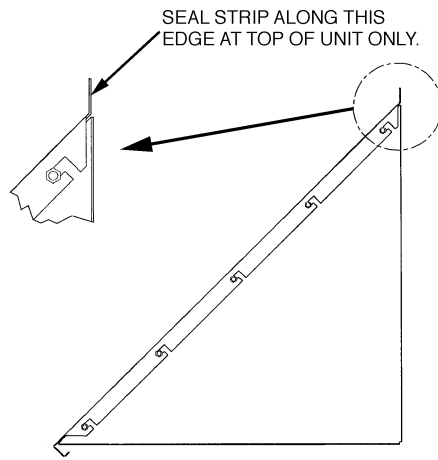


Fig. 6 — Side and Top Panel Configuration

