

Installation Instructions

Part No. 30HX-900---011

Part No. 30HX-900---001

SAFETY CONSIDERATIONS

Installation of this accessory can be hazardous due to electrical components and equipment location (such as a ceiling or elevated structure). Only trained, qualified installers and service mechanics should install and service this equipment.

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

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



ELECTRIC SHOCK HAZARD

To avoid the possibility of electrical shock, open and tag all disconnects before installing this equipment.

INTRODUCTION

The Sound Reduction Enclosure is designed to muffle compressor noise the 30HXA,HXC076-271 Screw Compressor Liquid Chillers.

There are two different Sound Reduction Enclosure kits:

1. Part No. 30HX-900---011 contains all the parts required to cover any 30HXA, HXC076-106 chiller.
2. Part No. 30HX-900---001 contains all the parts required to enclose any 30HXA,HXC116-271 chiller.

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.

Table 1 lists the contents of the kit for 30HX076-106 chillers (Part No. 30HX-900---011). Item numbers 1-15 in Table 1 correspond to item numbers 1-15 in Fig. 1.

Table 2 lists the contents of the kit for 30HX116-271 chillers (Part No. 30HX-900---001). Items numbers 2-15 in Table 2 correspond to item numbers 2-15 in Fig. 2.

NOTE: This kit (Part No. 30HX-900---001) does not include the 36-in. top panel. In addition, since this kit accommodates larger chillers, it includes additional part quantities for Items 2, 3, 4, 8, and 21.

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

ASSEMBLY ENCLOSURE AND CHILLERS

- Left, Right, Front, Rear — Viewed facing the chiller control box.
- Top — Top of chiller frame (top of compressor control box).

PANELS

- Top Panel — Panel installed above the chiller.
- Left End-Panels — Two notched panels; one is installed at each end of the chiller.
- Right End-Panels — Two notched panels; one is installed at each end of the chiller.
- Side Panel — Panel installed at the front or rear of the chiller.
- Control Access Panel — Panel installed over the control panel area of the chiller.
- Filler Panel — Installed at the ends of the enclosure, if needed, to cover openings formed by the notched end panels.

INSTALLATION

NOTE: All panels are pre-drilled to accept the screws that come in the accessory package. When joining panels, use the screws supplied with the accessory kit. Assemble panels with flanged end toward the top of the assembly.

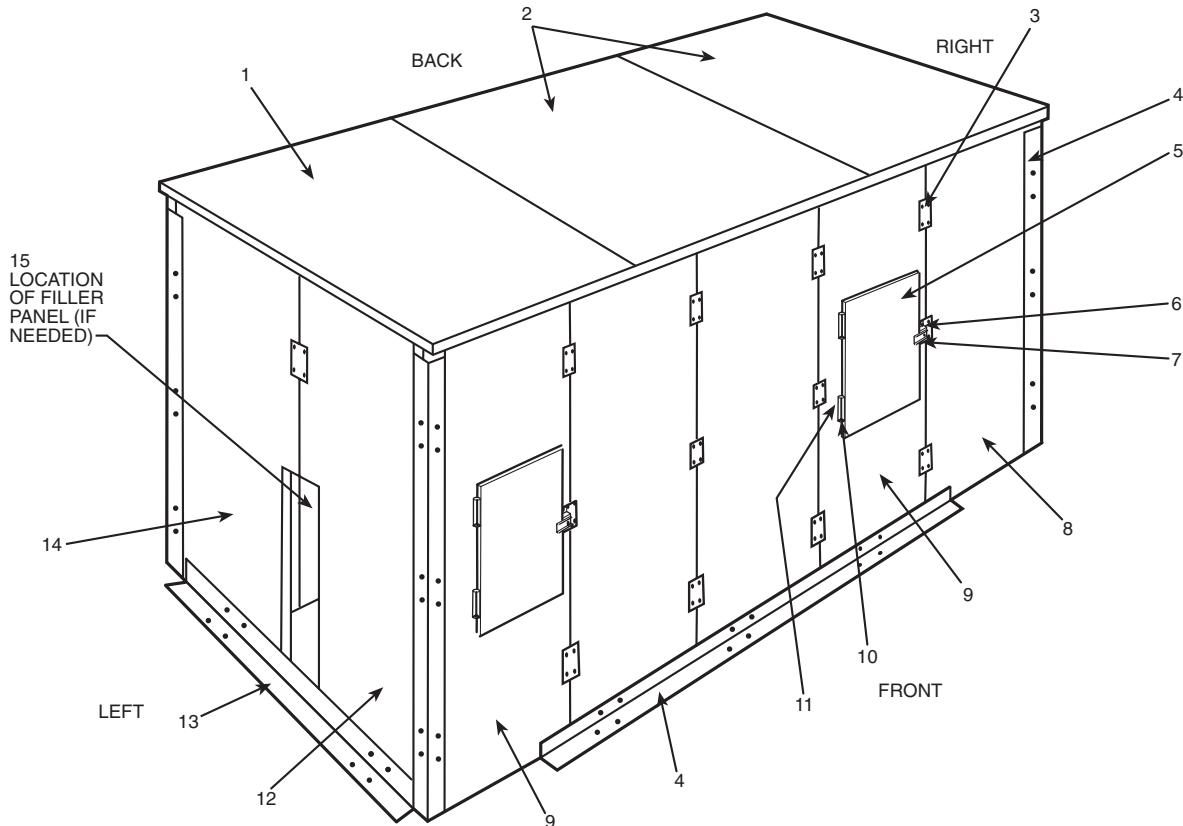
NOTE: When properly installed, the insulated side of each panel faces the unit.

Step 1 — Right End Assembly

- a. Join one left end-panel (Item 14) and one right end-panel (Item 12) using a panel connector (Item 3) and the screws (Item 21) supplied in the accessory package.
- b. Join a long support L-bracket (Item 4) to the outer edge of each of the 2 end panels, using the screws (Item 21) provided in the kit.
- c. Attach side panels (Item 8) to the free sides of the long support L-brackets to form a U-shaped assembly.
- d. Making sure that the flanged ends of the side panels are up, slide the U-shaped assembly over the chiller water piping (if any) and position it temporarily around the right end of the chiller.

Step 2 — Control Access Panels, Top and Side Panels

- a. Position the control access panel (Item 9) in front of the chiller so that the chiller control area is readily accessible through the control access panel opening. Position the other control access panel in front of the chiller to provide easy access to the non-fused disconnect handle(s). Make sure that the flanged end of the panels are at the top of the assembly.
- b. If necessary, shift the location of the right end enclosure assembly to meet the control access panel. Join the control access panel to the side panel (Item 8) using 3 panel connectors (Item 3) and the screws (Item 21) provided.



NOTE: See Table 1, Items 1-15 for callouts.

**Fig. 1 — Assembled Sound Enclosure Accessory (Part No. 30HX-900---011)
For Chiller Models 30HXA, HXC076-106**

**Table 1 — Contents: Sound Reduction
Enclosure Kit
(Part No. 30HX-900---011)**

ITEM NO.	DESCRIPTION	NO. REQUIRED	PART NO.
1	Top Panel (36-in.)	1	30HX400639
2	Top Panel (42-in.)	2	30HX400507
3	Panel Connector	26	30HX500504
4	Long Support L-Bracket	6	30HX500501
5	Access Door	2	30HX400511
6	Latch Bracket	2	30HX500503
7	Door Latch	2	50DJ404793
8	Side Panel	8	30HX400508
9	Control Access Panel	2	30HX400509
10	Hinge Pin	4	KA99AA001
11	Door Hinge	8	50DJ504652
12	Right End-Panel	2	30HX400510
13	Short Support L-Bracket	2	30HX500506
14	Left End-Panel	2	30HX400512
15	Filler Panel	1	30HX400653
16	1/4-in. —20 Cage Nut	2	AT96AB170
17	1/4-in. —20 x 3/4-in. Hex Head Bolt	2	AA06BS168
18	Plate Washer	2	AU02AB171
19	3/16-in. Pop Rivet	8	AV83AA312
20	No. 10AB—16 x 1/2-in. Screw	8	AL79AU216
21	1/4—14 x 5/8-in. Self-Tapping Screw	206	AL48AM307

NOTE: For the 30HXA, HXC076-106 model chillers, there will be a total of 3 top panels: two 42-in. panels (Item 2) and one 36-in. panel (Item 1). See Fig. 1.

- c. Install a side panel (Item 8) at the rear of the chiller, directly opposite the control access panel. Using the screws and panel connectors provided, screw this side panel to the adjacent side panel of the U-shaped assembly built in Step 1.
- For the 30HXA,HXC116-271 model chillers, there will be a total of four 42-in. top panels (Item 2). See Fig. 2.
- d. Place a 42-in. top panel (Item 2) on top of the assembly constructed in Steps 1 and 2. Align one end of the top panel with the end panels (Items 12 and 14). Align the screw holes in the top panel with the holes in the top flanges of the side panels (Item 8).
- e. Screw the top panel to the side panels using the screws (Item 21) provided.
- f. Attach 2 additional side panels (Item 8) to the front of the enclosure, making sure the flanged ends of the panels are at the top of the assembly.
- g. Attach 2 additional side panels (Item 8) to the rear of the enclosure in the same manner as Step 2f.
- h. Place a second 42-in. top panel (Item 2) on top of the side panels. The second top panel will abut the first one.
- i. Align the screw holes in the second top panel with the screw holes in the side panel flanges and secure the top panel with the screws (Item 21) provided.
- j. 30HXA,HXC116-271 model chillers only (Fig. 2):
 - 1) Attach an additional side panel (Item 8) and control access panel (Item 9) to the front of the enclosure (see Fig. 2) and 2 additional side panels to the rear of the enclosure as described in Steps 2f and 2g.
 - 2) Place a third 42-in. top panel (Item 2) on the top of the assembly and attach as described in Steps 2h and 3f.

k. All chiller models:

- 1) Attach an additional side panel (Item 8) to the rear of the enclosure and the remaining control access panel (Item 9) to the front of the enclosure. See Fig. 1 and 2 as described in Steps 2f and 2g.
- 30HXA,HXC116-271 model chillers only (Fig. 2): Attach the remaining 2 side panels (Item 8) to the enclosure, one to the front of the assembly and one at the rear of the assembly, using the panel connectors and screws provided. The flanged ends of the side panels should be at the top of the assembly.
- 2) Position the remaining top panel (Item 1, 36-in. panel for chiller models 30HXA,HXC075-106; Item 2, 42-in. panel for chiller models 30HXA,HXC116-271) over the assembly. Align and screw this top panel to the side panel flanges using the screws provided.

Step 3 — Left End Assembly

- a. Join the remaining left end-panel (Item 14) and right end-panel (Item 12) together, using one panel connector and the screws provided.

- b. Attach a long support L-bracket (Item 4) to each free edge of the joined end-panels, using the screws provided.
- c. Slide the left end assembly over the chiller water piping (if any) on the left side of the chiller. Make sure the insulated sides of the panels face the chiller.
- d. Secure the long support L-brackets of these end panels to the side panels at the left end of the enclosure assembly using the screws provided.

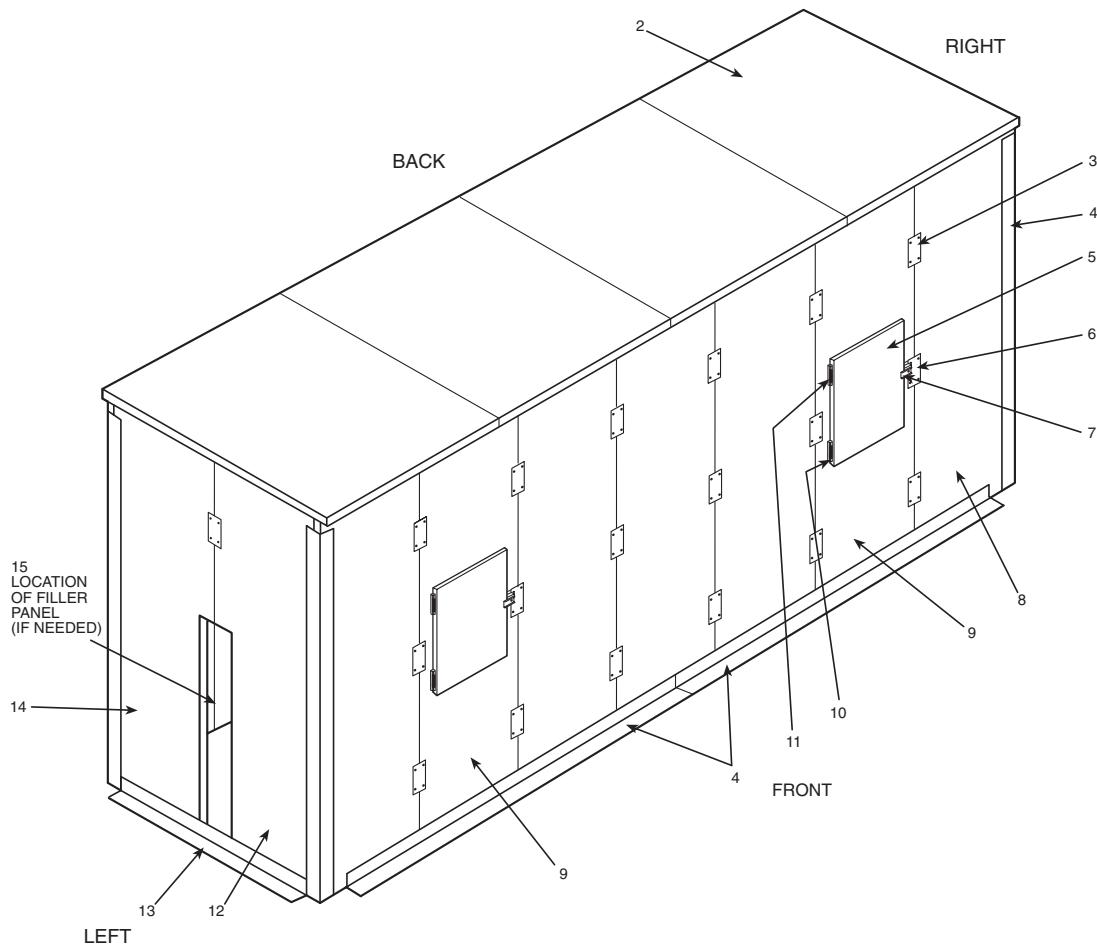
Step 4 — Filler Panel

— Attach the filler panel (Item 15) directly to the end panel using the screws provided (Item 21). The filler panel is used to cover an opening not used for water piping or electrical connections.

- a. On chillers where there is only one water connection at one end (which may be located on either the right end or left end of the chiller), trim the filler panel to fit the opening and screw it to the end-panel assembly to cover the opening.
- b. On chillers where there are no water connections at one end, use an entire filler panel to cover the notched opening in the end-panel assembly. Use the screws provided in the kit (Item 21).

Step 5 — Bottom Support

- a. Attach a short support L-bracket (Item 13) to the bottom of the end-panel assembly on the left side of the enclosure. Align the holes in the short L-bracket with the holes at the bottoms of the end panels. Secure with screws provided in the kit.
- b. Attach the remaining short support L-bracket to the bottom of the end-panel assembly on the right side of the enclosure as described in Step 5a.
- c. For 30HXA,HXC076-106 model chillers (Fig. 1):
 - 1) Attach a long support L-bracket (Item 4) to the bottom front of the sound enclosure assembly. Center the support bracket along the front of the enclosure assembly and screw the bracket to the side panels using the self-tapping screws (Item 21) provided in the kit.
 - 2) Attach another long support L-bracket to the bottom rear of the enclosure as described in above paragraph.
- d. For 30HXA,HXC116-271 model chillers (Fig. 2):
 - 1) Attach 2 long support L-brackets (Item 4) to the bottom front of the sound enclosure assembly. Center both support brackets along the front of the enclosure assembly (see Fig. 2) and screw the brackets to the side panels using the self-tapping screws (Item 21) provided in the kit.
 - 2) Attach 2 more long support L-brackets to the bottom rear of the sound enclosure assembly as described in above paragraph.



NOTE: See Table 2, Items 2-15 for callouts.

**Fig. 2 — Assembled Sound Enclosure Accessory (Part No. 30HX-900---001)
For Chiller Models 30HXA,HXC116-271**

**Table 2 — Contents: Sound Reduction
Enclosure Kit
(Part No. 30HX-900---001)**

ITEM NO.	DESCRIPTION	NO. REQUIRED	PART NO.
2	Top Panel (42-in.)	4	30HX400507
3	Panel Connector	38	30HX500504
4	Long Support L-Bracket	8	30HX500501
5	Access Door	2	30HX400511
6	Latch Bracket	2	30HX500503
7	Door Latch	2	50DJ404793
8	Side Panel	12	30HX400508
9	Control Access Panel	2	30HX400509
10	Hinge Pin	4	KA99AA001
11	Door Hinge	8	50DJ504652
12	Right End-Panel	2	30HX400510
13	Short Support L-Bracket	2	30HX500506
14	Left End-Panel	2	30HX400512
15	Filler Panel	1	30HX400653
16	1/4-in. — 20 Cage Nut	2	AT96AB170
17	1/4-in. — 20 x 3/4-in. Hex Head Bolt	2	AA06BS168
18	Plate Washer	2	AU02AB171
19	3/16-in. Pop Rivet	8	AV83AA312
20	No. 10AB—16 x 1/2-in. Screw	8	AL79AU216
21	1/4—14 x 5/8-in. Self-Tapping Screw	274	AL48AM307

Step 6 — Control Access Door(s) and Door Hardware (Fig. 3)

- a. Attach the latch brackets (Item 6) to the control access panels (Item 9). Align the 2 round holes in the latch bracket with the 2 holes to the right of the access panel opening. Secure the bracket to the panel using 2 of the self-tapping screws (Item 21) provided.
- b. Attach 2 door hinges (Item 11) to each control access panel. Align the two holes in each hinge with the holes to the left of the panel opening. Join the hinges to the panel using four no. 10AB—16 x 1 $\frac{1}{2}$ -in. screws (Item 20) provided in the kit.
- c. Attach the remaining 2 door hinges to the sides of each control access doors (Item 5). Align the holes in each hinge with the holes in the access door. Secure the hinges using four $\frac{3}{16}$ -in. pop rivets (Item 19).
- d. Place the access doors over both panel openings and join the panel hinges to the door hinges using 2 hinge pins (Item 10) included in the kit.

- e. For each door, attach the door latch (Item 7) to the latch bracket. Align the hole in the door latch with the square opening in the latch bracket. The long portion of the latch extends over the access door.
- f. For each door, place a hex head bolt (Item 17) through the plate washer (Item 18), the door latch, and the latch bracket. Secure this assembly (using a $\frac{1}{4}$ -in.—20 cage nut [Item 16]) to the back side of the latch bracket.
- g. The access door may be opened by loosening the hex head bolt and rotating the door latch away from the door. The door may be secured by rotating the door latch over the door and then tightening the hex head bolt.

Step 7 — Additional Insulation

For the sound enclosure to be fully effective, cover all openings with insulation. Use the supplied filler panel (Item 15) to cover the exposed opening at the end of the enclosure. See Step 4.

After the sound enclosure has been completely assembled, fill in any openings around water piping and electrical connections using additional insulating material.

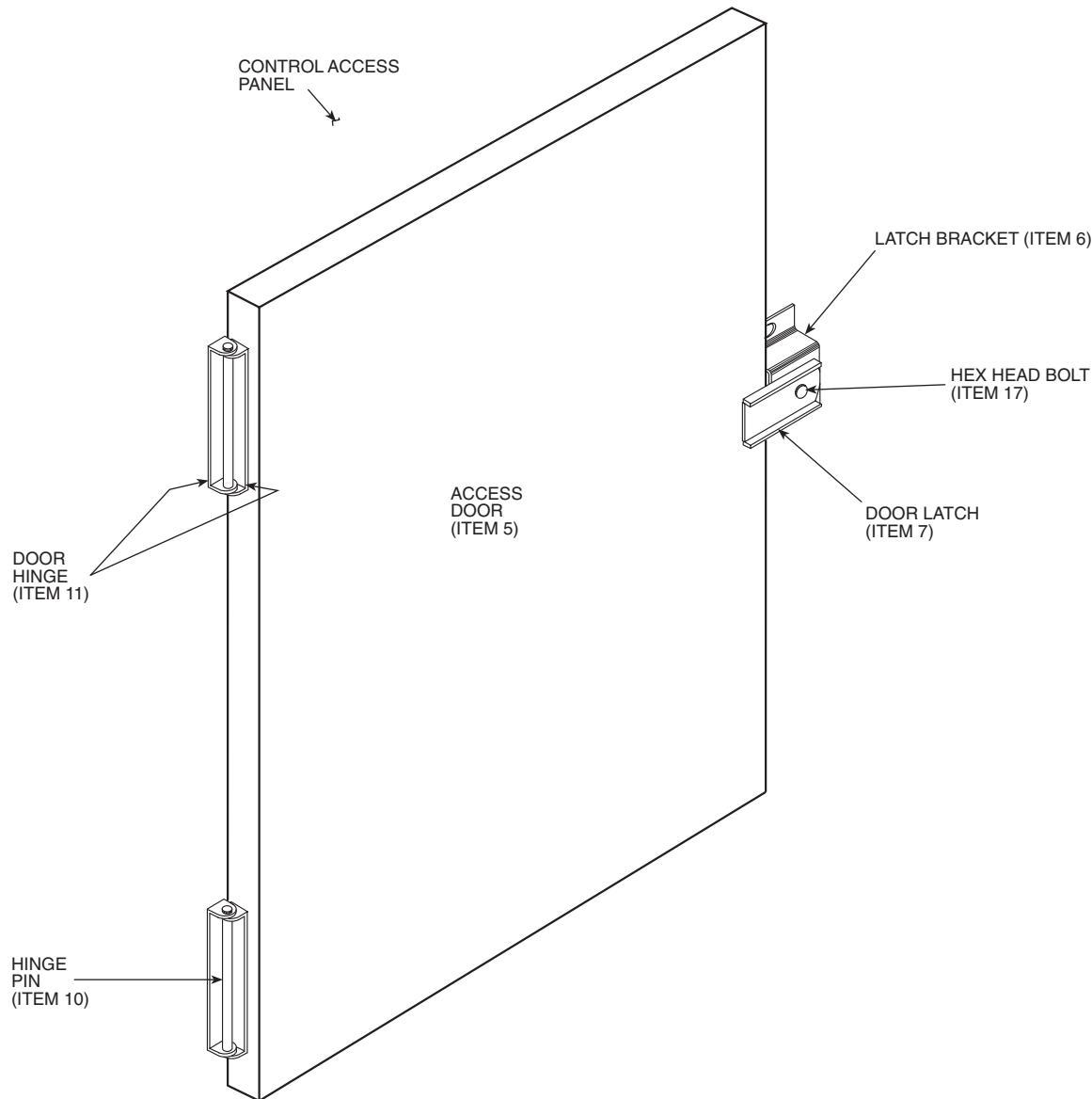


Fig. 3 — Control Panel Access Door and Door Hardware

