



Installation Instructions

Field Installed Louvers and Coil Protection

RTAC

Model Number: RTAC

This document applies to service offering application only.

SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

October 2023

SO-SVN050A-EN

TRANE
TECHNOLOGIES



Introduction

Read this manual thoroughly before operating or servicing this unit.

Warnings, Cautions, and Notices

Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:

- WARNING** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- CAUTION** Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.
- NOTICE** Indicates a situation that could result in equipment or property-damage only accidents.

Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants.

Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

WARNING

Proper Field Wiring and Grounding Required!

Failure to follow code could result in death or serious injury. All field wiring **MUST** be performed by qualified personnel. Improperly installed and grounded field wiring poses **FIRE** and **ELECTROCUTION** hazards. To avoid these hazards, you **MUST** follow requirements for field wiring installation and grounding as described in **NEC** and your local/state/national electrical codes.

WARNING

Personal Protective Equipment (PPE) Required!

Failure to wear proper PPE for the job being undertaken could result in death or serious injury. Technicians, in order to protect themselves from potential electrical, mechanical, and chemical hazards, **MUST** follow precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- Before installing/servicing this unit, technicians **MUST** put on all PPE required for the work being undertaken (Examples; cut resistant gloves/sleeves, butyl gloves, safety glasses, hard hat/bump cap, fall protection, electrical PPE and arc flash clothing). **ALWAYS** refer to appropriate Safety Data Sheets (SDS) and OSHA guidelines for proper PPE.
- When working with or around hazardous chemicals, **ALWAYS** refer to the appropriate SDS and OSHA/GHS (Global Harmonized System of Classification and Labeling of Chemicals) guidelines for information on allowable personal exposure levels, proper respiratory protection and handling instructions.
- If there is a risk of energized electrical contact, arc, or flash, technicians **MUST** put on all PPE in accordance with OSHA, NFPA 70E, or other country-specific requirements for arc flash protection, **PRIOR** to servicing the unit. **NEVER PERFORM ANY SWITCHING, DISCONNECTING, OR VOLTAGE TESTING WITHOUT PROPER ELECTRICAL PPE AND ARC FLASH CLOTHING. ENSURE ELECTRICAL METERS AND EQUIPMENT ARE PROPERLY RATED FOR INTENDED VOLTAGE.**

⚠ WARNING**Follow EHS Policies!**

Failure to follow instructions below could result in death or serious injury.

- All Trane personnel must follow the company's Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.
- Non-Trane personnel should always follow local regulations.

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Revision History

Document updated to reflect Service Offering number.

Installation

⚠ WARNING

Hazardous Voltage!

Failure to disconnect power before servicing could result in death or serious injury. Disconnect all electric power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized. Verify that no power is present with a voltmeter.

Half Louver or Coil Protection

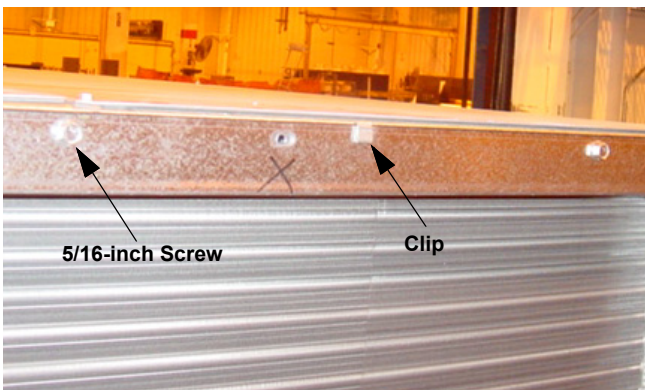
- Starting at the rear of the unit, install fender clips (Figure 1) along the top edge of the coil box. Use 3 clips per panel.

Important: *The panels at the rear of the unit must be installed first. If the panels are not installed back to front fit up problems will occur.*

Figure 1. Clips



Figure 2. Clips installed



- Hang panel from fender clips and secure at the bottom with two 5/16-inch screws.

Figure 3. Hanging upper panel



- Repeat until all panels are installed.

Full Louver

- Install top louvers (coil protection) as per previous instructions.
- Locate 0.281-inch dia holes on the side of the unit base. Attach the bottom panel support with 5/16-inch thread forming screws.

Figure 4. Bottom panel support



- On 2 compressor units only: Install 2 vertical channels at back end of unit using (12) 5/16-inch thread forming screws. See drawing for location and part numbers.
- On 2 compressor units only: Install back 3 panels using (2) 5/16-inch thread forming screws. See drawing for location and part numbers.
- Position bottom panel. Align holes in top and bottom panels and secure the panels with two 5/16-inch screws.

Figure 5. Aligning top and bottom panel



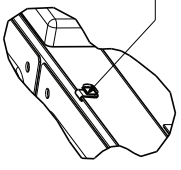
Figure 6. Top and bottom panels installed



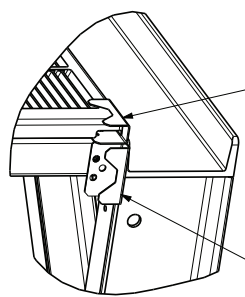
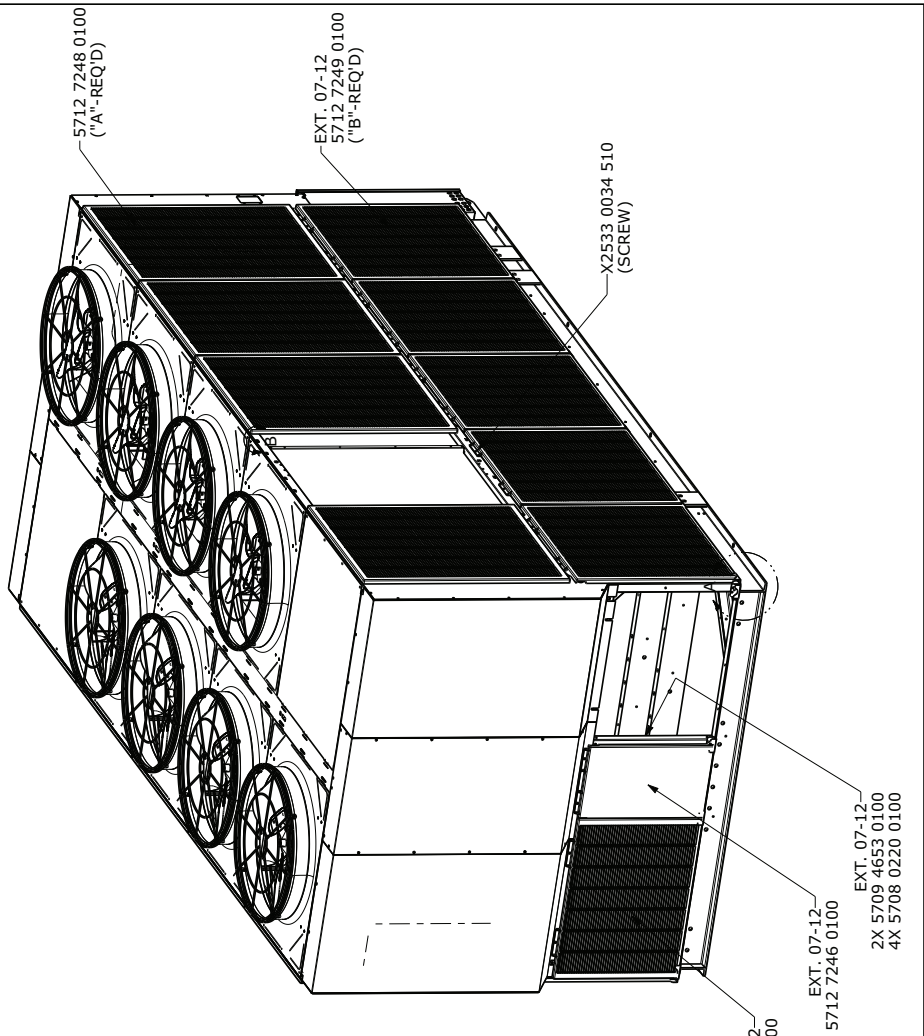
6. Repeat until all panels are installed.

Note: See drawings below for additional information.

<p>UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS.</p> <p>X, ± FINISH ✓ X.X ± X.XX ±</p> <p>ANGLES = ∠ HOLE DIA = ∅ CONFORMS TO ASME Y14.5M-1994.</p>	<p>TRANE</p> <p>THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED WITHOUT THE WRITTEN CONSENT OF TRANE.</p> <p>DRAWN BY: S. MORRIS</p> <p>DO NOT SCALE PRINT</p> <p>THIRD ANGLE PROJECTION</p>	<p>REV SHEET 1 OF 1</p> <p>57120632</p> <p>LOUVERED PANEL INSTALLATION</p> <p>MEDIUM AIR COOLED RTAC</p>
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VIEW B



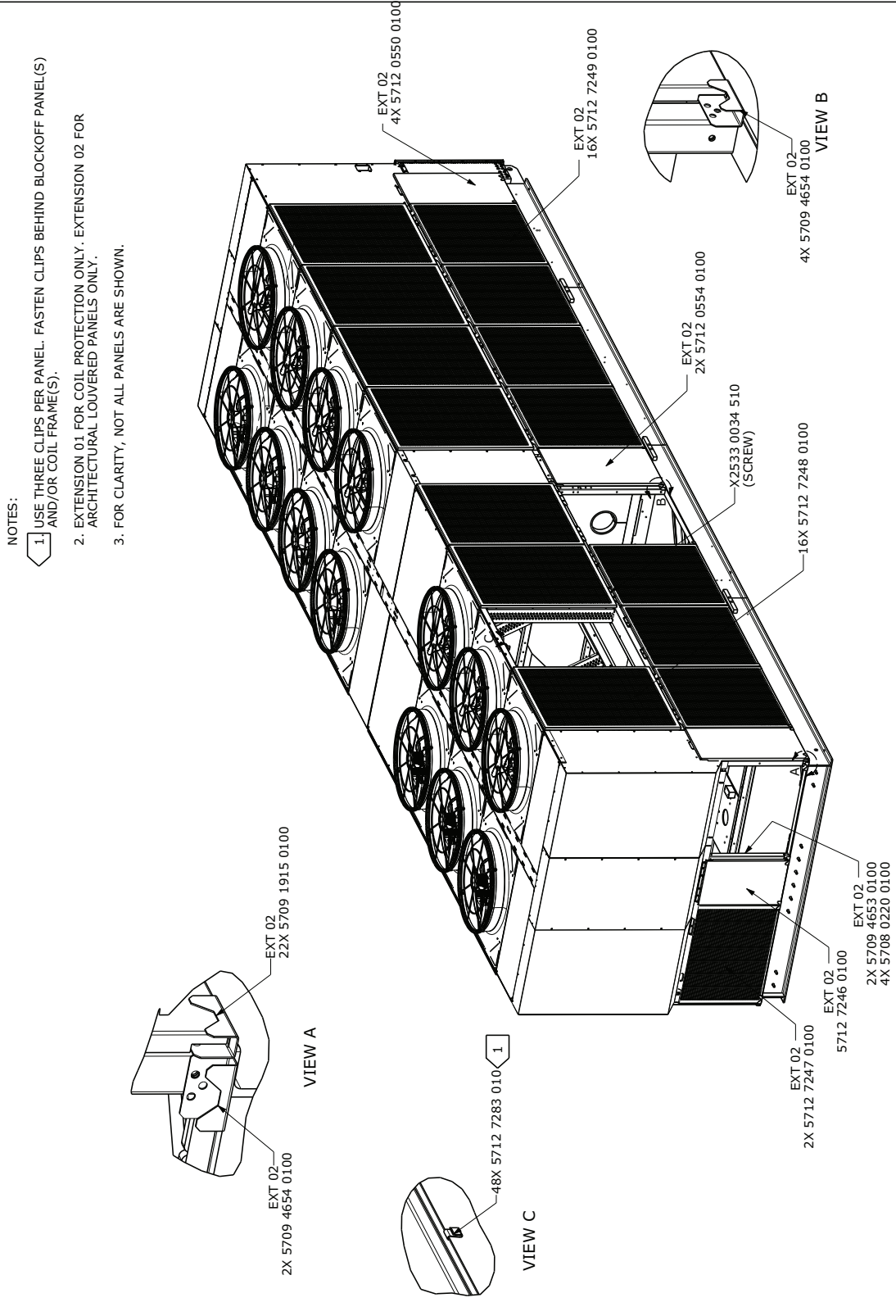
VIEW A

EXT.	UNIT SIZE	QUANTITY			CLIP "D"
		UPPER "A"	LOWER "B"	CHANNEL "C"	
01	140 STD	8			24
02	155 STD	10			30
03	185 STD; 155 HIGH	11			33
04	200 STD; 170 HIGH	12			36
05	225 STD; 185 HIGH	13			39
06	250 STD; 200 HIGH	14			42
07	140 STD	8	10	12	24
08	155 STD	10	10	12	30
09	185 STD; 155 HIGH	11	12	14	33
10	200 STD; 170 HIGH	12	12	14	36
11	225 STD; 185 HIGH	13	14	16	39
12	250 STD; 200 HIGH	14	14	16	42

- NOTE:
1. USE THREE CLIPS PER PANEL. FASTEN CLIPS BEHIND COIL FRAME.
 2. EXTENSION 01-06 FOR COIL PROTECTION ONLY. EXTENSION 07-12 FOR ARCHITECTURAL LOUVERED PANELS ONLY.

EXT.	UNIT SIZE	Hz	
01	225 HIGH	60	<p>57120465</p> <p>LOUVERED PANEL INSTALLATION</p> <p>225T & 250T HIGH 60HZ RTAC</p>
02	250 HIGH	60	
02	225 HIGH	60	

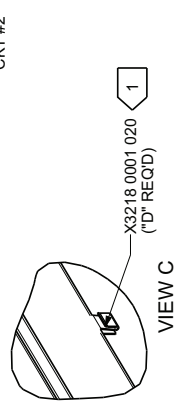
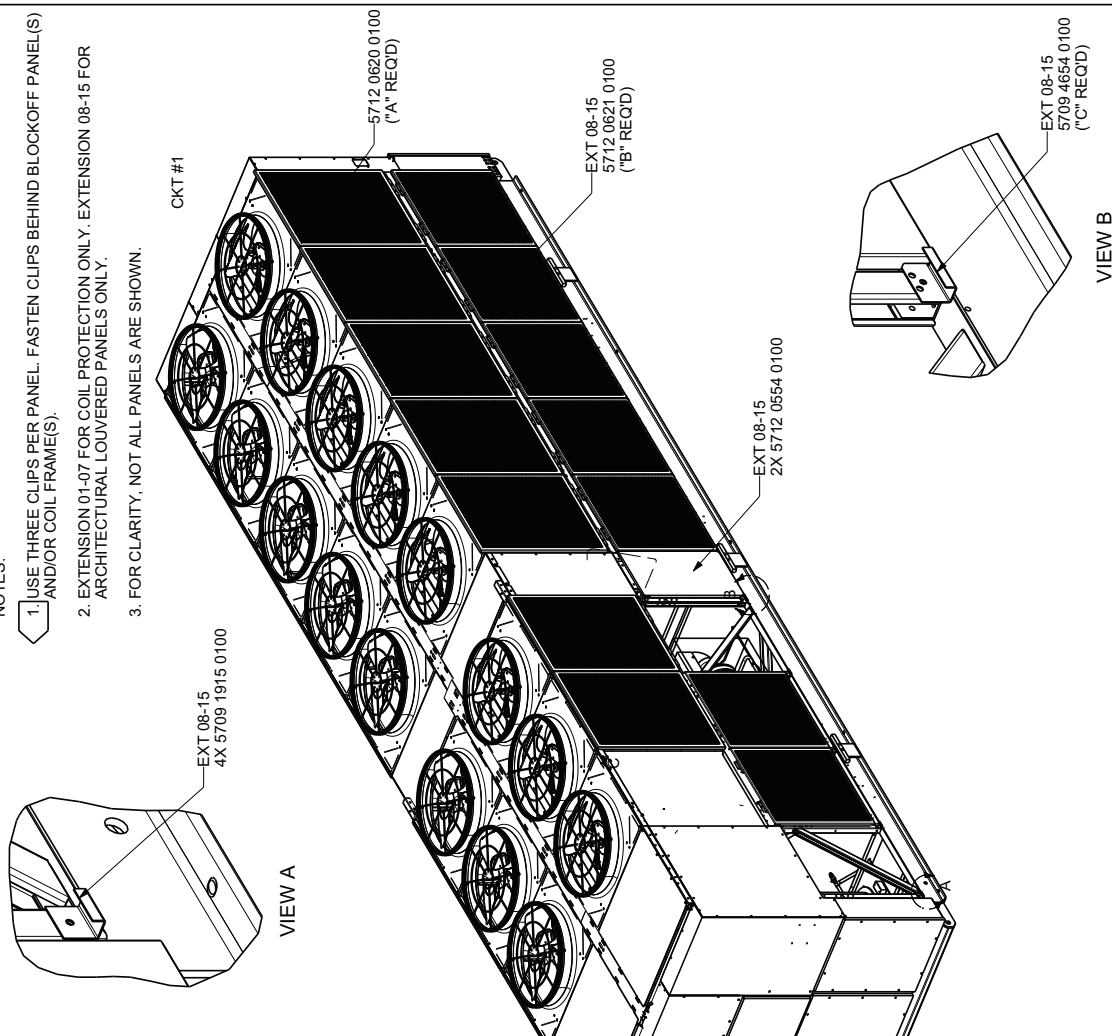
<p>UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MILLIMETERS. TOLERANCE:</p> <p>X, X.X, X.XX ±</p> <p>ANGLES = ± °</p> <p>HOLE DIA = +</p> <p>CONFORMS TO ASME Y14.5M-1994.</p>	<p style="text-align: center;">TRANE</p> <p style="font-size: small;">THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF TRANE</p> <p style="font-size: x-small;">DRAWN BY: GILBERTSON © TRANE DATE: 10-3-03</p> <p style="font-size: x-small;">DO NOT SCALE PRINT THIRD ANGLE PROJECTION</p>
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57124081 LOUVERED PANEL INSTALLATION LARGE AIR-COOLED RTAC	SHEET 1 OF 1 REV D
TRANE <small>THIS DRAWING IS PROPRIETARY. ALL DIMENSIONS AND PARTS LISTED ARE THE PROPERTY OF TRANE. NO PARTS OR DIMENSIONS MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN CONSENT OF TRANE.</small>	TRAME DATE: 10/14/03 THIRD ANGLE PROJECTION
DRAWN BY: C. METERS DO NOT SCALE PRINT	

EXT.	UNIT SIZE	Hz	QUANTITY			CLIP "D"
			UPPER "A"	LOWER "B"	CHANNEL "C"	
01	250 STD	50	16			48
	250 HIGH	50				
	275 STD	50&60				
02	300 STD	50&60	18			54
03	275 HIGH	50&60	20			60
	350 STD	50&60				
04	300 HIGH	50&60	22			66
	375 STD	50				
05	350 HIGH	50&60	24			72
	400 STD	50&60				
06	375 HIGH	50	26			78
	450 STD	60				
07	400 HIGH	50&60	28			84
	450 HIGH	60				
	500 STD	60				
08	250 STD	50	16	18		48
	250 HIGH	50				
	275 STD	50&60				
09	300 STD	50&60	18	22		54
	275 HIGH	50&60	20	22		60
	350 STD	60				
11	350 STD	50	20	24		60
12	300 HIGH	50&60	22	24		66
	375 STD	50				
13	350 HIGH	50&60	24	24		72
	400 STD	50&60				
14	375 HIGH	50	26	28		78
	450 STD	60				
15	400 HIGH	50&60	28	28		84
	450 HIGH	60				
	500 STD	60				

- NOTES:**
- USE THREE CLIPS PER PANEL. FASTEN CLIPS BEHIND BLOCKOFF PANEL(S) AND/OR COIL FRAME(S).
 - EXTENSION 01-07 FOR COIL PROTECTION ONLY. EXTENSION 08-15 FOR ARCHITECTURAL LOUVERED PANELS ONLY.
 - FOR CLARITY, NOT ALL PANELS ARE SHOWN.





Parts List

Description	Unit	Kit Number	Part Number	Quantity
140 Std and High Eff 155, 170 Std Eff	Half Louvers	KIT12498	-	1
	Access Guards	n/a	GRD01188	6
			CMP00370	52
SCR01465	52			
170 High Eff 180, 200 Std Eff	Full Louvers	KIT12501	-	1
	Half Louvers	KIT12499	-	1
	Access Guards	n/a	GRD01188	6
CMP00370			58	
SCR01465	58			
180, 200 High Eff 225, 250 Std Eff	Full Louvers	KIT12502	-	1
	Half Louvers	KIT12500	-	1
	Access Guards	n/a	GRD01188	7
CMP00370			64	
SCR01465	64			
225, 250 High Eff	Full Louvers	KIT12503	-	1
	Half Louvers	KIT12504	-	1
	Access Guards	n/a	GRD01188	9
CMP00370			78	
SCR01465	78			
275 Std Eff 250 (50Hz)	Full Louvers	KIT12509	-	1
	Half Louvers	KIT12505	-	1
	Access Guards	n/a	GRD01188	7
CMP00370			66	
SCR01465	66			
275 High 300 Std 350 Std	Full Louvers	KIT12510	-	1
	Half Louvers	KIT12506	-	1
	Access Guards	n/a	GRD01188	10
CMP00370			78	
SCR01465	78			
350 H 300 High Eff 400 Std Eff 350 Std (50Hz) 375 Std Eff	Full Louvers	KIT12511	-	1
	Half Louvers	KIT12507	-	1
	Access Guards	n/a	GRD01188	10
CMP00370			84	
SCR01465	84			
375 High Eff 400 High Eff 500 Std Eff	Full Louvers	KIT12512	-	1
	Half Louvers	KIT12508	-	1
	Access Guards	n/a	GRD01188	12
CMP00370			96	
SCR01465	96			
Full Louvers	KIT12513	-	1	

Questions

Contact the Pueblo Technical Support Team with questions. To contact them, call (877) 788- 7263 (US and Canada) or (651) 407-4393 (International) and follow the menu options.



Notes

Trane - by Trane Technologies (NYSE: TT), a global climate innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane.com or tranetechnologies.com.

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