



TRANE®

Confidential Service Bulletin

Mandatory Retrofit for Insulated Bearing and Brush Kit

For CenTraVac chillers with LiquiFlo2.0 drives and 7311 (small) size thrust bearings

Order Number: CTV-SVC24A-EN

DATE: April 2006

This confidential service bulletin provides special warranty policy and/or service expense compensation information for use by Trane warranty representatives.

NOTICE: Warnings and Cautions appear at appropriate sections throughout this literature. Read these carefully.

⚠ 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, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

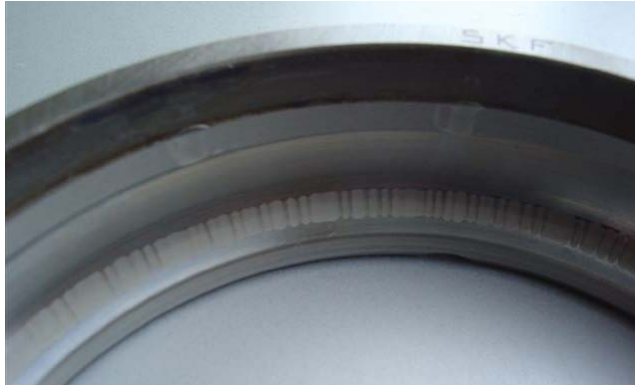
CAUTION: Indicates a situation that may result in equipment or property-damage only accidents.

Introduction

The purpose of this bulletin is to advise Trane Service Companies of a mandatory retrofit action for 3-stage CVHE & G chillers that meet ALL of the following criteria:

- The units are equipped with standard steel thrust bearings BRG01209.
- The units are factory equipped with the LiquiFlo 2.0 Adaptive Frequency Drive (drive model # AFDE....).

Figure 1. Photo of typical spark discharge damage in a bearing race



Problem

A situation may occur in LiquiFlo2.0 equipped units where the chiller motor experiences a shaft voltage. The shaft voltage created may seek a path to ground through the thrust bearings, resulting in damage to the thrust bearing.

Units Affected

Rockwell LiquiFlo2.0 Adaptive Frequency Drive equipped CVHE/G centrifugal chillers manufactured after November 1st, 2001 that use the small thrust bearing (7311) BRG01209. A list of all affected units is attached to this bulletin.

Discussion

For chillers affected, Trane has available to install an insulated bearing assembly, a new design grounding brush, and a bearing inspection cover that allows the fitting of the new design brush.

Corrective Actions

For an LiquiFlo2.0 equipped chiller with a standard steel thrust bearing BRG01209, with or without a brush kit: Order and install the insulated bearing assembly, new design brush, and (if needed) a new bearing inspection cover. See the parts ordering information below for details.

Parts Ordering Information

For affected units order an insulated bearing kit selected from Table 1

Table 1.

Original Bearing	Insulated Bearing
BRG01209	BRG01585*

* this bearing comes with a self locking locknut

For affected units that do not have a brush kit already installed, or that have an older design brush kit installed, order one new design brush selected from Table 2. To determine the motor frame size refer to the data plate that is attached to the chiller's motor housing, or breakdown the chiller model number using the parts identification systems.

Table 2.

Compressor Family (NTON)	Motor Frame Size	Brush Part #
CVHE320 & CVHE500	360, 400	BRU00428
(NTON 190, 210, 230, 240, 250, 270, 280, 300, 320, 330, 360, 370, 400, 420, 450, 500)	440E	BRU00429
CVHG565 (NTON 480, 565)	400	BRU00428

For affected units shipped prior to 9/24/2004, or that have the older design brush kit installed, order one replacement New Design Bearing Inspection Cover per Table 3.

Table 3.

Compressor Family (NTON)	Motor Frame Size	New Design Bearing Inspection Cover Part #
CVHE320 & CVHE500	360, 400	COV03609
(NTON 190, 210, 230, 240, 250, 270, 280, 300, 320, 330, 360, 370, 400, 420, 450, 500)	440E	COV03610
CVHG565 (NTON 480, 565)	400	COV03609
		10.51" (26.69cm) diameter
		13.43" (34.11cm) diameter
		10.51" (26.69cm) diameter

ROTOR BOLT

For affected units shipped prior to 9/24/2004 and that do not already have a rotor bolt installed, order and install one KIT12220. KIT12220 consists of the flat-headed rotor bolt, belleville washer, drill bits, and tap that are needed to provide the shaft with a flat running surface for the grounding brush.

AFD equipped chillers shipped after 9/24/2004 should already be equipped with a drilled and tapped motor shaft and with a grounding bolt. Do not order KIT12220 if the affected chiller shipped after 9/24/2004.

The rotor shaft grounding system consists of the flat headed bolt that must be installed into the motor shaft, and a brush assembly that mounts through the new style bearing inspection cover.

Refer to the instructions below for the installation of the rotor shaft grounding bolt, or refer to the instructions for the bolt installation that were provided in PART-SVN79A-EN.

Note: The installer may find that some units already have a 7/16-20 hole tapped into the shaft, and/or that a flat headed bolt may already be installed into the motor shaft. If this is found it is not necessary to follow the full instructions for drilling and tapping the shaft or installing the bolt.

Instructions

- Remove the thrust bearing inspection cover, if the thrust bearings are to be changed at this time follow the applicable instructions for thrust bearing removal as detailed in service bulletin CVHE-SB-33C. Instructions for installing the new self locking locknut are found in service bulletin CTV-SVB19A-EN.

Note: Drilling and tapping of the motor shaft for the grounding system can be done with the thrust bearings and bearing bracket installed, but great care must be taken to prevent contamination of the thrust bearings. It is highly recommended, but not required, that the drilling and tapping be accomplished with the thrust bearings removed.



CAUTION

Thrust Bearing Damage!

Extreme care must be taken when drilling and tapping the motor shaft with the thrust bearings and bearing bracket installed. Failure to follow this recommendation may lead to contamination and damage of the thrust bearings.

- Follow all warnings and cautions as stated in bulletin CVHE-SB-33C.
- Use paper or plastic sheeting and tape to seal the bearing and motor cavity. Use the tape to seal the shaft to the sheeting, and the sheeting to the motor housing. This is done to keep the motor and housing CLEAN!
- Use the 1/4" drill bit provided in KIT12220 and carefully drill the center of the motor shaft, using the existing shaft center dimple and hole as a guide. Keep the drill bit well lubricated and drill to a depth of 2.0" to 2.2" from the end of the shaft. Drill straight into the shaft.
- Use the 25/64" drill bit provided in KIT12220 and carefully enlarge the 1/4" hole drilled in the step above. Keep the drill bit well lubricated and drill to a depth of 2.0" to 2.2" from the end of the shaft. Drill straight into the shaft.
- Flush any remaining chips or debris from the drilled hole.
- Use the 7/16-20 LH tap provided in KIT12220 and carefully tap the 25/64" hole that was drilled in the end of the motor shaft. Note the tap is LEFT- HAND. Keep the tap well lubricated and clean. Tap the hole in small steps, reversing the tap often to keep it clean. Tap to a minimum of 1.75" depth from the end of the shaft.
- Flush any remaining chips or debris from the drilled and tapped hole.
- Properly place the belleville washer onto the rotor grounding bolt provided in KIT12220. Note that the washer MUST be placed such that the concave side of the washer will be towards the motor shaft. The washer, when properly collapsed, will provide spring tension to the bolt. See Figure 1. You may install a small amount of Loctite 271 to the threads of the bolt.
- Install the rotor grounding bolt and washer onto the end of the motor shaft using a 1-1/8" socket. Note that the bolt has left-hand threads. Hold the shaft and tighten the bolt to 55-65 lb.-ft. The belleville washer should be evenly centered during tightening and fully compressed after tightening is complete.
- Carefully collect any debris and remove the sheeting and tape from the shaft and housing. Visually inspect the motor and remove any debris found.
- If not already done, re-install the inner bearing cap and install the new insulated thrust bearings onto the shaft. Follow the standard SKF mounting instructions for heating and pressing the bearings as provided in service bulletin CVHE-SB-33C. Install the bearing tab washer and locknut. Tighten and secure the locknut using the instructions in service bulletin CVHE-SB-33C.
- Continue to use CVHE-SB-33C to position the inner seal, re-install the motor bearing bracket, and re-install the bearing retaining ring and bolts. Use CTV-SB-66F for guidance on the use of Loctite.
- If required, prepare the new inspection cover for installation onto the chiller. Transfer the bearing temperature sensor well (or plug, if the chiller is not equipped with bearing temp sensors) from the original bearing inspection cover to the new bearing inspection cover.
- Properly install the new bearing inspection cover onto the chiller.
- To install the new brush into the inspection cover, first remove the plug (if present) from the center fitting of the cover, then clean the threads. The threads and o-ring of the new style brush should be lubricated with Trane compressor oil OIL00022. The brush can then be inserted into the cover and tightened to a final maximum torque of 150 lb.-ft.
- Reassemble the bearing oil supply and return lines. Also reference service bulletins CTV-SVB11C-EN (oil orifice size), CVHE-SB-33C (thrust bearing installation

procedures), and CTV-SB-66F (o-ring and flange sealants).
Pressurize and leak test the chiller.

Figure 2. Rotor grounding bolt and washer



Figure 3. New Design Grounding Brush



Figure 4. Original Bearing Inspection Cover without brush fitting or brush.



Figure 5. New design Bearing Inspection Cover with brush fitting, but without the brush installed. This cover is standard on LiquiFlo2.0 equipped chillers since 9/24/2004.



Figure 6. New design Bearing Inspection Cover with new design Grounding Brush installed.





Material Disposition

Scrap original parts that are being replaced under this bulletin.

Labor Authorization

- Up to 2 hours will be allowed to install the new design brush kit.
- Standard hours will be allowed to install the thrust bearing.
- Standard hours will be allowed for refrigerant removal and reinstallation.
- 3 hours travel per job

Expiration Date

This service bulletin expires **March 31, 2007**.

Units Affected Attached List

Sales Order	Sales Office	UnitSerial	JobName	Location	Ship Date	StartDate
61Y897A	Taiwan	L04K04654	ADM COCOA	SEATTLE WA	11/05/2004	
62B643B	Indonesia	L04L04925	CIPLA BADDI ORDER ENTRY	GARDEN CITY GA	11/19/2004	
75A433A	Japan	L03K07425	NATIONAL CENTER FOR CHILD H& D	SEATTLE WA	11/26/2003	
75A578A	Japan	L04H03784	YOTSUBA DAIRY WARRANTY CLAIM	CHICAGO IL	09/14/2004	
75A578B	Japan	L04H03785	YOTSUBA DAIRY WARRANTY CLAIM	CHICAGO IL	09/14/2004	
75A660A	Japan	L05E02301	KYOCERA KOKUBU	SEATTLE WA	05/20/2005	
78D264A	Australia	L03D03971	33 CHARLOTTE ST	SEATTLE WA	04/23/2003	
78D264B	Australia	L03D03977	33 CHARLOTTE ST	SEATTLE WA	04/23/2003	
95D553A	Mexico	L04G03188	LAS MISIONES MALL - FINAL	EL PASO TX	08/17/2004	
95D553B	Mexico	L04G03189	LAS MISIONES MALL - FINAL	EL PASO TX	08/17/2004	
95D553C	Mexico	L04G03190	LAS MISIONES MALL - FINAL	EL PASO TX	08/18/2004	
A1A325B	Boston	L03C03640	NH HEALTH & HUMAN SERVICES --WRITEUP1	LOUDON NH	04/07/2003	09/24/2003
A1A622A	Boston	L03D04622	WBC CHILLERS ORDER	SMITHFIELD RI	05/21/2003	06/25/2003
A1E586A	Boston	L05A00197	ROCHESTER ELECTRONICS, NEWBURYPORT MA	GOFFSTOWN NH	01/26/2005	06/20/2005
A1M183B	Boston	L02H13464	CHESHIRE MEDICAL CENTER - MECHANICAL	GOFFSTOWN NH	08/19/2002	03/15/2003
A1N680A	Boston	L03A00007	COMMAIR/ FIDELITY 300 & 400 PURITAN WAY	AVON MA	01/20/2003	04/18/2003



Sales Order	Sales Office	UnitSerial	JobName	Location	Ship Date	StartDate
A2E117A	Portland, ME	L05C01367	CENTRAL MAINE MEDICAL CENTER CHILLER REPLACE	AUBURN ME	03/31/2005	
A3A680A	Springfield, MA	L02H15110	STCC - TECHNOLOGY PARK	SPRINGFIELD MA	09/13/2002	10/22/2002
A3A680B	Springfield, MA	L02H15111	STCC - TECHNOLOGY PARK	SPRINGFIELD MA	09/13/2002	12/06/2002
A3B988A	Springfield, MA	L05B00875	UMASS PERFORMANCE CONTRACT - THOMPSON CHILLER	AMHERST MA	02/28/2005	06/01/2005
A3B991A	Springfield, MA	L05B00881	UNIVERSITY OF MASSACHUSETTS JCI PERF CONTRACT	AMHERST MA	02/28/2005	05/02/2005
A5H425A	Providence	L04B00609	NEW BEDFORD VOTECH CH-2	NEW BEDFORD MA	02/26/2004	04/01/2004
A5I352C	Providence	L05C01312	GILLETTE -CHILLER	FALL RIVER MA	03/25/2005	05/10/2005
B1J389A	New Haven	L04F02791	UNILEVER - 75 MERRIT CHILLER	CHESHIRE CT	07/14/2004	08/14/2004
B2U024A	Hartford	L04A00091	MERRITT TOWERS AT 801 MAIN ST NORWALK (SUBMITTALS)	PLAINVILLE CT	01/26/2004	07/26/2004
B2U024B	Hartford	L04A00093	MERRITT TOWERS AT 801 MAIN ST NORWALK (SUBMITTALS)	PLAINVILLE CT	01/26/2004	04/26/2004
B2V526A	Hartford	L05B00739	LEGO - COMPASS HOUSE CENTRIFUGAL CHILLER	PLAINVILLE CT	02/23/2005	05/31/2005
B3W367A	New York	L04K04778	FORDHAM UNIVERSITY CENTRAL PLANT	FARMINGDALE NY	11/18/2004	04/12/2005
B3W367B	New York	L04L04914	FORDHAM UNIVERSITY CENTRAL PLANT	FARMINGDALE NY	11/18/2004	03/23/2005
B6Q989A	North Jersey	L03F05774	RUTGERS - HALE CENTER IMPROVEMENTS	PISCATAWAY NJ	07/21/2003	04/20/2004
B6V452A	North Jersey	L04J04369	WEST ESSEX HIGH SCHOOL	FAIRFIELD NJ	10/25/2004	
B6V452B	North Jersey	L04K04526	WEST ESSEX HIGH SCHOOL	FAIRFIELD NJ	10/25/2004	
B6Z237A	North Jersey	L03D04242	RUTGER'S STUDENT CENTER	MAHWAH NJ	04/29/2003	04/30/2003
C1H701A	Albany	L04F02987	EAST CAMPUS CANCER RESEARCH CENTER- CHILLER PLANT	RENSSELAER NY	07/26/2004	06/02/2005
C1H701B	Albany	L04F03012	EAST CAMPUS CANCER RESEARCH CENTER- CHILLER PLANT	RENSSELAER NY	07/28/2004	01/28/2005
C1H701C	Albany	L04G03098	EAST CAMPUS CANCER RESEARCH CENTER- CHILLER PLANT	RENSSELAER NY	07/28/2004	05/17/2005
C1I273A	Albany	L04L05256	TACONIC DDSO BOILER PLANT	WASSAIC NY	12/13/2004	04/18/2005



Sales Order	Sales Office	UnitSerial	JobName	Location	Ship Date	StartDate
C11273B	Albany	L04L05267	TACONIC DDSO BOILER PLANT	WASSAIC NY	12/13/2004	03/22/2005
C3R328A	Buffalo	L03M08279	C352750 - CANISIUS HEALTH SCIENCE BLDG	BUFFALO NY	12/26/2003	06/07/2004
C4K673A	Rochester	L02K18038	PHELPS CLIFTON SPRINGS	CLIFTON SPRINGS NY	10/24/2002	11/03/2003
C4P055A	Rochester	L04C01526	STRONG MUSEUM CENTRAL PLANT	WEBSTER NY	04/14/2004	09/17/2004
CBC741A	Halifax, Nova Scotia	L04L05007	LAW COURTS CHILLER REPLACEMENT	HALIFAX NS	11/30/2004	01/15/2005
D1L640A	Harrisburg	L02F10950	BECTON DICKINSON - 39 LOVETON	YORK PA	07/19/2002	
D2N485B	Philadelphia	L03A00441	FIRST UNION - TYSON'S CORNER [COPY]	UPPER MARLBORO MD	01/22/2003	03/10/2003
D2P643A	Philadelphia	L03E05133	ASTRAZENECA - BUILDING 6A - CHILLERS [COPY]	WILMINGTON DE	12/23/2003	05/10/2004
D2P643B	Philadelphia	L03E05141	ASTRAZENECA - BUILDING 6A - CHILLERS [COPY]	WILMINGTON DE	12/23/2003	05/12/2004
D2S179A	Philadelphia	L04B00881	IAS CHILLER PLANT	PRINCETON NJ	03/11/2004	03/12/2004
E2U605C	Washington D.C.	L03G05840	N H D P	UPPER MARLBORO MD	07/23/2003	05/25/2004
E2Z424A	Washington D.C.	L04H03677	USPS - TRENTON - CHILLERS	SOUTH PLAINFIELD NJ	08/23/2004	01/16/2005
E2Z424B	Washington D.C.	L04H03679	USPS - TRENTON - CHILLERS	SOUTH PLAINFIELD NJ	08/23/2004	
E2Z424C	Washington D.C.	L04H03680	USPS - TRENTON - CHILLERS	SOUTH PLAINFIELD NJ	08/23/2004	
E7S484A	Charleston, WV	L02M22371	LAZARUS CHILLER - SMALL	BARBOURSVILLE WV	12/30/2002	03/12/2003
F1C071A	Charlotte	L02K19788	UNCC CHILLER CHANGES	PINEVILLE NC	11/13/2002	04/03/2003
F1C088A	Charlotte	L03C03638	CPCC CENTRAL CAMPUS - CENTRAL ENERGY FACILITY	FORT MILL SC	04/11/2003	07/30/2003
F1C213C	Charlotte	L03L08057	RUP2 @ UNCC	PINEVILLE NC	12/18/2003	03/21/2005
F4C238A	Raleigh	L04B00657	ECU WEST END DINING CHILLERS	GREENVILLE NC	03/15/2004	07/07/2004
F5D929A	Greenville	L03G06226	FORT EUSTIS - CENTRIFUGAL CHILLER	FORT EUSTIS VA	08/21/2003	01/04/2005
H3N064A	Orlando	L03D04434	SUMTER LANDING	THE VILLAGES FL	05/29/2003	07/11/2003
H3N064B	Orlando	L03D04436	SUMTER LANDING	THE VILLAGES FL	05/29/2003	07/11/2003
H3N064C	Orlando	L03D04582	SUMTER LANDING	THE VILLAGES FL	05/29/2003	02/16/2004
H3N420A	Orlando	L03F05460	US FEDERAL COURTHOUSE CHILLER #2 AND ASHRAE	ORLANDO FL	06/27/2003	08/28/2003



Sales Order	Sales Office	UnitSerial	JobName	Location	Ship Date	StartDate
H3N867A	Orlando	L03H06409	US FEDERAL COURTHOUSE CHILLER #2 AND ASHRAE	ORLANDO FL	09/04/2003	10/06/2003
H4A799A	Miami	L05A00521	KEY WEST COURTHOUSE CHILLER REPLACEMENT	KEY WEST FL	02/10/2005	04/10/2005
H6F418B	West Palm Beach	L03H06549	STUART NEWS-SCRIPPS HOWARD 4/2/03	PORT SAINT LUCIE FL	08/29/2003	02/28/2004
K2E055A	Memphis	L03G05834	JACKSON STATE OFFICE BUILDING	JACKSON TN	07/23/2003	08/03/2004
L1A125A	Oklahoma City	L03G06158	OU CHILLED WATER PLANT 3	NORMAN OK	08/13/2003	03/05/2004
L1A125B	Oklahoma City	L03G06164	OU CHILLED WATER PLANT 3	NORMAN OK	08/13/2003	02/02/2004
L3R133A	Dallas	L05A00224	DIRECTORY BUILDING CHILLER ADDITION	IRVING TX	02/04/2005	03/18/2005
L3R268B	Dallas	L05B00771	RICHARDSON REGIONAL MEDICAL	IRVING TX	02/28/2005	05/02/2005
L5W363A	Lubbock	L02J16175	LUBBOCK COUNTY CHILLER REPLACEMENT	LUBBOCK TX	09/24/2002	12/19/2002
L6B870A	San Antonio	L02L20492	UVALDE MEMORIAL HOSPITAL	UVALDE TX	11/26/2002	07/28/2003
L6E371B	San Antonio	L03M08297	BAMC	FORT SAM HOUSTON TX	12/22/2003	03/16/2004
M1S421A	Detroit	L03M08425	UOFM WOLVERINE TOWER	SOUTHFIELD MI	01/30/2004	05/05/2004
M1S421B	Detroit	L03M08432	UOFM WOLVERINE TOWER	SOUTHFIELD MI	01/30/2004	04/08/2004
M1S924A	Detroit	L04A00301	UOFM BUHR BLDG - CHILLER REPLACEMENT	ANN ARBOR MI	02/10/2004	04/28/2004
M2A241A	Flint	L05D01983	OWOSSO MEMORIAL HOSPITAL - CARDIO/MRI/POWERHOUSE	OWOSSO MI	05/10/2005	
M5Q381A	Grand Rapids	L02F10513	CITY OF GRAND RAPIDS FINAL	GRAND RAPIDS MI	06/29/2002	07/24/2002
N3Q080A	Cleveland	L04L05264	CUYAHOGA COMMUNITY COLLEGE CORPORATE COLLEGE EAST	CLEVELAND OH	12/13/2004	05/11/2005
N3Q080B	Cleveland	L04L05270	CUYAHOGA COMMUNITY COLLEGE CORPORATE COLLEGE EAST	CLEVELAND OH	12/13/2004	05/03/2005
N4N760B	Columbus	L05A00030	MOTORIST MUTUAL 400T CHILLER	COLUMBUS OH	01/13/2005	04/20/2005
N6N336A	Toledo	L03D04426	DANA ASG TECH CENTER	MAUMEE OH	05/12/2003	07/12/2003
N6N336B	Toledo	L03D04428	DANA ASG TECH CENTER	MAUMEE OH	05/12/2003	07/12/2003
Q3S884A	St. Louis	L03D04077	LADUE CHILLERS	SAINT LOUIS MO	04/25/2003	08/20/2003
Q3T102A	St. Louis	L02K19790	USPS-TETERBORO, NJ	TETERBORO NJ	11/11/2002	04/17/2003



Sales Order	Sales Office	UnitSerial	JobName	Location	Ship Date	StartDate
Q3T102B	St. Louis	L02K19792	USPS-TETERBORO, NJ	TETERBORO NJ	11/11/2002	12/10/2002
Q3T102C	St. Louis	L02K19797	USPS-TETERBORO, NJ	TETERBORO NJ	11/12/2002	02/11/2003
R1F560A	Chicago	L03C03363	GLENVIEW STATE BANK	BROADVIEW IL	03/31/2003	05/19/2003
R1M382A	Chicago	L04D01778	AUSTIN - USPO EAGAN	NEW BRIGHTON MN	04/27/2004	05/25/2004
R1T786A	Chicago	L05E02393	STEVENSON HIGH SCHOOL 2005	LINCOLNSHIRE IL	05/27/2005	
R1T786B	Chicago	L05E02391	STEVENSON HIGH SCHOOL 2005	LINCOLNSHIRE IL	05/27/2005	
R1T786C	Chicago	L05E02397	STEVENSON HIGH SCHOOL 2005	LINCOLNSHIRE IL	05/27/2005	
T1S740A	Madison	L02M21853	MISSISSIPPI RIVER NATIONAL FINAL	DUBUQUE IA	12/20/2002	08/14/2003
T1S740B	Madison	L02M21859	MISSISSIPPI RIVER NATIONAL FINAL	DUBUQUE IA	12/20/2002	08/13/2003
T5P390A	Milwaukee	L04B00843	MILWAUKEE POLICE ADMINISTRATION BUILDING - GASAI	WEST MILWAUKEE WI	03/12/2004	05/14/2004
V3G843A	Phoenix	L05A00223	POINT SOUTH MOUNTAIN RESORT 10-04 PHIL	PHOENIX AZ	01/27/2005	03/10/2005
V5K130A	Denver	L02F10495	CRABB - BLDR COMMUNITY - CVHE	BOULDER CO	06/28/2002	06/04/2003
V5K130B	Denver	L02F10497	CRABB - BLDR COMMUNITY - CVHE	BOULDER CO	06/28/2002	06/04/2003
W1K853A	Honolulu	L02G12506	HILO MEDICAL CENTER CHILLER	SAN PEDRO CA	08/16/2002	01/30/2003
W1K964A	Honolulu	L02L21093	OUTRIGGER WAILEA	SAN PEDRO CA	12/12/2002	05/01/2003
W1L025A	Honolulu	L03A00435	KAMEHAMEHA SCHOOLS MAUI CAMPUS PHASE 3	LONG BEACH CA	01/22/2003	07/16/2003
W1L039A	Honolulu	L02M22778	PACIFIC GUARDIAN CENTER - 250 & 600 TON CHILLERS	SAN PEDRO CA	01/08/2003	03/07/2003
W1L328A	Honolulu	L03H06535	KAHALA NUI	SAN PEDRO CA	09/15/2003	08/20/2004
W1L645A	Honolulu	L04E02340	HAWAII CONVENTION CENTER -JOCKEY CHILLER	SAN PEDRO CA	05/28/2004	09/14/2004
W1L843A	Honolulu	L04L05029	MATOC 2 (MSTF/ISF)	LONG BEACH CA	12/21/2004	
W1L843B	Honolulu	L04L05039	MATOC 2 (MSTF/ISF)	LONG BEACH CA	12/21/2004	
W2D478A	Los Angeles	L02K19787	555 E. OCEAN	SANTA FE SPRINGS CA	11/08/2002	11/25/2002
W2E811B	Los Angeles	L04B00507	500 NEWPORT CENTER DRIVE - IRVINE CHILLERS	LONG BEACH CA	02/12/2004	07/11/2004
W2E951B	Los Angeles	L03H06541	HEALTHCARE CONSULTATION CENTER PH II - USC	LOS ANGELES CA	08/29/2003	02/17/2004

Sales Order	Sales Office	UnitSerial	JobName	Location	Ship Date	StartDate
W2F426A	Los Angeles	L03J06825	LEISURE WORLD	LAGUNA BEACH CA	09/22/2003	11/19/2003
W2F426B	Los Angeles	L03J06826	LEISURE WORLD	LAGUNA BEACH CA	09/22/2003	11/18/2003
W2G579A	Los Angeles	L04D01803	LADWP: ECC	SUNLAND CA	04/30/2004	
W2G871A	Los Angeles	L04D01805	LADWP: ECC 2ND CHILLER	SUNLAND CA	05/03/2004	
W2H096A	Los Angeles	L04G03473	MARINERS CHURCH CENTRAL PLANT (W/ CONTROLS) ORDER	IRVINE CA	08/17/2004	02/17/2005
W2H096B	Los Angeles	L04G03559	MARINERS CHURCH CENTRAL PLANT (W/ CONTROLS) ORDER	IRVINE CA	08/17/2004	02/25/2005
W2K286A	Los Angeles	L05B00661	NEW OTANI HOTEL CHILLER REPLACEMENT	BLOOMINGTON CA	02/16/2005	03/26/2005
W2K491B	Los Angeles	L05A00362	RR DONNELLY	TORRANCE CA	01/31/2005	03/15/2005
W3A053A	San Diego	L02J17092	UNION BANK 530 "B" STREET CHILLER CHANGE OUT	LAKESIDE CA	10/18/2002	03/13/2003
W3W234A	San Diego	L03K07313	SDG&E 101 W ASH CHILLER REPLACEMENT	LAKESIDE CA	10/30/2003	04/30/2004
W4J054B	Las Vegas	L03G06187	FOLEY FEDERAL BUILDING - WETSIDE	LAS VEGAS NV	08/18/2003	06/22/2004
X6B938A	San Francisco	L03D04403	SANDIA NATIONAL LAB BLDG. 968	LIVERMORE CA	05/07/2003	06/05/2003
X6C070A	San Francisco	L03J06908	CHEVRONTEXACO CONCORD CH-2 CVHE500	PETALUMA CA	09/24/2003	03/15/2004
X6C454A	San Francisco	L05C01519	SANDIA BLDG 912 CVHE	LIVERMORE CA	04/11/2005	

Questions

For general questions contact the CTV Technical Service department in La Crosse at 608-787-3943 or e-mail at TechService@trane.com.



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