



CenTraVac®
Annual Inspection Check List and Report:

Compressor Motor

- Motor Continuity check
 Good Open
- Check and tighten motor terminals
- Meg Motor
 Phase 1 Phase 2 Phase 3
- Check nameplate rating
 Amps

Starter

- Check condition of starter contacts
 Good Fair Replace

Oil Sump

- Change oil
 If oil analysis, refer to program procedure
- Gallons (9) required
- Refrigerant/Oil pump motor ground check
 Good Open
- Check motor terminal
- Change oil filter

Condenser

- Visually inspect for scaling in tubes;
 not findings and make recommendations

Control Circuits

- Low refrigerant temperature sensor check
 ___°F set point ___°F trip point (ice water)
- Leaving Evaporator water temperature
 sensor check-out
 ___°F set point ___°F trip point (ice water)
- Condenser High Pressure Switch check-out
 ___psig set point
 ___psig trip point
- Check Net Oil Pressure
- Check adjustment and operation of inlet
 guide vane actuator stepper motor
 (Note: each machine is unique and must have
 the full open position number of steps input.)

Leak Test Chiller

- Refrigerant and oil analysis for acid content
- Sample refrigerant and oil for laboratory
 analysis (attach a copy of analysis to next
 monthly inspection report)

Purge Unit

- Review the purge operation maintenance
 manual and follow maintenance and/or
 inspection items identified.

Comments:

Recommendations:

CenTraVac®
Checksheet and Request for Serviceman

To: _____ Trane Service Company

S.O. No.: _____ Serial No: _____

Job/Project Name: _____

The following items are being installed and will be completed by: _____

1. CenTraVac

In place and piped. Do not insulate CenTraVac or adjacent piping. The contractor is responsible for any foreign material left in the unit. _____

2. Piping

Chilled water piping connected to:
CenTraVac _____
Air handling units _____
Pumps _____

Condenser and heat recovery condenser (as applicable) piping connected to:
CenTraVac _____
Pumps _____
Cooling tower _____
Heating loop _____

Make-up water connected to cooling tower _____
Water supply connected to filling system _____
Systems filled _____
Pumps run, air bled from system _____
Strainers cleaned _____

3. Flow Balancing Valves Installed

Leaving chilled water _____
Leaving condenser water _____
Heat recovery condenser leaving water _____

4. Wiring

Compressor motor starter has been furnished by or approved by Trane La Crosse, WI _____
Power available _____
Interconnecting wiring, starter to control panel _____
External interlock (flow switches, water pump aux., etc.) _____

Motors connected on:

CenTraVac* _____
Chilled water pump _____
Cooling tower fan rotation checked _____
Condenser water pump _____
Heat recovery condenser water pump (as applicable) _____
Power available for Service tools 115 VAC _____
All controls installed and connected _____
All magnetic starters installed and connected _____

*Note: Do not make final connections to compressor motor until request by Trane Service representative.

5. Testing

Dry nitrogen available for pressure testing _____
Trace gas amounts of Refrigerant-22 available for leak testing, if necessary _____

6. Refrigerant On Job Site _____

7. Gauges, Thermometers and Air Vents

Installed on both sides of evaporator _____
Installed on both sides of condenser and heat recover condenser (as applicable) _____

8. Systems Can Be Operated Under Load Conditions _____

9. Electrical, Control Man and Contractor's Representative Are Available to Evacuate, Charge and Test the CenTraVac under Serviceman's Supervision _____

In accordance with your quotation and our purchase order number

We will therefore require your serviceman on the job by**

This is to certify that the CenTraVac(s) has been properly and completely installed and the applicable items listed above have been completely

** Advance notification is required to allow scheduling of the start-up as close to the requested ate as possible.



Compliance to ASHRAE Standard 15

- Yes No 1. Is this an outdoor installation? If yes, skip to "Owner Awareness of Safe Refrigerant Handling Procedures."
- Yes No 2. Does the equipment room have a refrigerant monitor/sensor capable of monitoring and alarming within the acceptable exposure level (AEL) of the refrigerant?
- Yes No 3. Does the equipment room have an audible or visual alarm (other than the light on the monitor) which is controlled by the monitor?
- Yes No 4. Does the equipment room have mechanical ventilation? *
- Yes No 5. Is a self-contained breathing apparatus required by local building code? If no, go to question 7.
- Yes No 6. Is a self-contained breathing apparatus available in close proximity of the equipment room?
- Yes No 7. Are the purge discharge and the rupture disk piped to the outdoors?

* The mechanical ventilation consists of two flow requirements i.e., a two-speed fan where the high speed is sized by the formula $Cfm = 100 \times \text{the square root of the pounds of refrigerant of the largest chiller}$, and low speed is 0.5 Cfm per square foot of the equipment room space. (This requirement is for chillers located within the building which is the most common.)

Owner Awareness Of Safe Refrigerant Handling Procedures

- Yes No 1. Has the owner been fully instructed on the proper use of refrigerant 123?
- Yes No 2. Was the owner given a copy of the MSDS for HCFC-123?
- Yes No 3. Was the owner given a copy of "Refrigerant Handling Guidelines"?

Additional time required to complete the start-up and adjustment due to incompleteness of the installation will be invoiced at prevailing rates.

Serial Number _____
 Serial Number _____
 Serial Number _____
 Serial Number _____
 Serial Number _____

Checklist Completed By: _____

Signed: _____

Dated: _____

Notice To Trane Service Agency:

A copy of this completed form must be submitted to the CenTraVac Technical Service Department in La Crosse, WI, prior to the actual start-up date.



CenTraVac Commissions Checklist

Job Name _____ Location _____
 Model # _____ Serial # _____
 Sales Order # _____ Start-up Date _____

Note: The Unit Installation, Operation and Maintenance Manuals including Warning and Cautions, Applicable Service Alerts and Bulletins, Submittals, and Design Specifications must be used in conjunction with this checklist.

I. PRECOMMISSIONING PROCEDURES

A. Obtain Installation Check Sheet

This must be prepared by installer for a particular unit, verifying the unit is ready for commissioning.

B. Obtain Design (order) Specification Data

This indicates the design criteria of the particular unit. A unit cannot be properly commissioned unless this data is known. It is the responsibility of the selling office to furnish this data.

C. Obtain Wiring Diagrams

The "as-wired" electrical diagram should be compatible with the recommended Trane submittals and diagrams. Are customer added external/remote control circuits compatible?

Yes No

D. General Installation Observations

1. Is there any apparent shipping or rigging damage? Yes No

2. Record the unit pressure upon receipt: _____ psig. If there is no pressure, a leak test will have to be done before the unit can be evacuated and charged.

3. Is the water piping correctly installed?

Flow Switches	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Pressure Gauges	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Isolations Valves	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Flow Balancing Valves	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Thermometer Wells	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Vent Cocks and Drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No

4. Have proper clearances around the unit been maintained per submittal and/or Installation?

Are there Manual guidelines available
 Yes No

5. Is power wiring of adequate ampacity and correct voltage?

Yes No

6. Is the unit base acceptable, level, and is the unit on isolators (rubber as supplied by Trane or spring type)?

Yes No

7. Have the low voltage circuits been properly isolated from the higher voltage control and power circuits?

Yes No

E. Comments _____



II. COMMISSIONING PROCEDURES

A. Pre-start Operations

1. Holding Charge

- _____psig. Must be positive pressure or leak test must be done.

2. Before relieving the holding charge, calibrate the H.P.C. high-pressure control

This is a check of pressure to the H.P.C. as well as calibration of the control.

Disconnect and cap the flare. Calibrate H.P.C. and reconnect flare.

- Relieve the holding charge

3. Megohm the Motor (500 volt Meggar)

- Compressor motor Megohms - refer to temp/resistance chart for acceptable values. Remove surge suppressors before Megging. Never Meg test with the unit in a vacuum.

T1 to Earth _____ T4 to Earth _____ T1 to T2 _____ T1 to T4 _____

T2 to Earth _____ T5 to Earth _____ T1 to T3 _____ T2 to T5 _____

T3 to Earth _____ T6 to Earth _____ T2 to T3 _____ T3 to T6 _____

4. Evacuation

Connect the vacuum pump to start evacuation. Use a 2-stage pump with at least 5 CFM capacity.

Connect to the evaporator-charging valve with a hose no smaller than 3/4 inch ID.

a. For the IT Cutler-Hammer Solid State Starter it is necessary to shut off all power to the unit prior to evacuating the chiller. The IT starter has terminals 4, 5, & 6 hot when the unit is off. Failure to shut off power to the chiller, with the vacuum pump hook up, will cause a motor failure.

5. Condenser

- Isolation and flow valves installed
- Calibrated thermometers and pressure gauges installed in/out condenser on machine side of any valve or elbow.
- If condenser pump controlled by UCP, is field wiring correct and complete?
- Condenser pump(s) run, system and strainers properly cleaned and/or flushed.
- Condenser water strainer in close proximity to entering connection of condenser.
- Previsions installed to properly maintain water treatment additives.
- Initial water treatment added to system
- Flow or differential pressure switch installed and where possible, wired in series with auxiliary of pump motor starter. Verify correct operation of flow proving circuit.
- Condenser water flow balance.

PSID design _____ PSID actual _____

GPM design _____ GPM actual _____

6. Evaporator

- _____psig. Must be positive pressure or leak test must be done.
- Calibrated thermometers and pressure gauges installed in/out of evaporator on machine side of any valve or elbow.
- If evaporator pump controlled by UCP, is field wiring correct and complete?

- Evaporator pump(s) run 24 hrs. System and strainers properly cleaned and/or flushed.
- Evaporator water strainer in close proximity to entering connection of evaporator.
- Provisions installed to properly maintain water treatment additives.
- Initial water treatment added to system.
- Flow or differential pressure switch installed and where possible, wired in series with auxiliary of pump motor starter. Verify correct operation of flow proving circuit.
- Evaporator water flow balanced.

PSID design _____ PSID actual _____
 GPM design _____ GPM actual _____

7. Electrical and Controls

a. Motor Starter Panel

- All terminals tightened.
- Wiring free from abrasion, kinks, and sharp corners.
- Contactors and relays have freedom of movement.
- All contacts are free of corrosion or dirt. Panel is free of dust, debris etc.
- Check the ratio of the current transformers. Record the part numbers on the start-up log.
- Use only twisted shielded pair for the IPC circuit between the starter and the UCP on remote starters. Recommended wire is Belden 8760, 18 AWG. Polarity is critical.
- The low voltage IPC link (___30 volts) must be in separate conduit from the 115-volt wiring.
- IPC link routing within the starter panel must stay a minimum of 6 inches from higher voltages.
- Remote starter to UCP connections are complete and comply with Trane requirements. Verify oil pump interlock circuit to 1A7J2-4 and J2-2.
- Check the correctness of the power connections from the starter to the motor.
- Check the wiring to the starter for size, voltage and correct phase rotation (A-L1, B-L2, & C-L3)
- Check the equal phase representation in each power-wiring conduit.

b. Control Panel

- All terminals tightened.
- Wiring free from abrasion, kinks, and sharp corners.
- Low voltage wires are isolated from high voltage wires.
- Panel is free of dust, debris etc.
- "Power Up" the control panel. (Non-AFD Starters)
 1. Starter disconnect locked open.
 2. Fuse 2F4 must be removed from the starter.
 3. Connect auxiliary 115VAC-power cord to Terminals 1X1-5(L1) and 1X1-17(L2) in the starter panel. MAKE SURE OF THE POLARITY. THE 'HOT' SIDE MUST BE CONNECTED TO TERMINAL 1X1-5(L1) AND THE 'NEUTRAL' SIDE DO 1X1-17(L2).
 4. Plug in cord to 115VAC-power source. Control panel is now energized.
- Record the configuration and setpoints of the CH530 control system, using Service Tool.
- Using the unit nameplate data and the order specification, double check and reset, if required, the settings of RLA & STMS, using Service Tool.

If Evaporator and condenser water pumps are controlled by the UCP, use the DynaView (or Service Tool) manual override menu to manually start and test the control of the pumps.

- Check the setting of the oil pressure-regulating valve.
 1. Use the DynaView manual override of the UCP to manually start the oil pump.
 2. Proceed to the Compressor Report menu and observe the Differential Oil Pressure
 3. Adjust the oil pressure-regulating valve to maintain 18 to 22 psid. The oil pressure-regulating valve may require adjustment as the unit is started.
 4. This procedure also checks to ensure correct sensing of oil pressure. The Oil Pressure Cutout setting is adjustable within via the CH530 Service Tool.
 5. Return Oil Pump control to 'Auto' from within the DynaView.
- Check vane operator and vanes (Service Tool).
 1. Use the Service Tool manual override menu to manually override the vane control.
 2. Enter targets from 0% to 100% and observe vane operation. At minimum and maximum travel the operator should not exert any force on the vane assembly, adjust as required.
 3. Vane movement is smooth to open/close.
 4. Vane movement is reported back to the UCP.
 5. Return Vane control to 'Auto'.
- Dry run the starter (Service Tool).
 1. Make sure the starter disconnect is safety locked open.
 2. Use the Service Tool menu of the UCP to initiate the Starter Dry Run.
 3. Observe correct operation of starter contactors.
 4. Observe correct operation of transition complete signal (if required).
 5. Disable Starter Dry Run when complete.
- Remove Power
- Disconnect and remove temporary power cord.

B. Preparation for Start-up.

1. Evacuation and charging

- Evacuation leak test. When vacuum has been drawn down to 500 microns to 1000 microns, secure the vacuum pump. Wait for 12 hours for a valid vacuum leak test. If the rise in vacuum is less than 500 microns per 12 hours start-up may proceed.
- Charge refrigerant. **MAKE SURE THE CHILLED WATER IS FLOWING THROUGH THE EVAPORATOR.** Charge the prescribed amount of refrigerant through the liquid charging valve at the liquid inlet to the evaporator. Check that all drums contain a full amount of refrigerant. Amount charged _____ lbs and kg.

2. Electrical

- Disconnect all temporary power cords, replace all fuses, connect motor leads, make final electrical inspection.
- Power up the motor starter. Check for control voltage at control panel terminals 1X1-1 and 1X1-17. _____ Volts
- Check current to the oil sump heater. _____ Amperes
- As the oil heats up, finish any operations not yet completed in preparation for starting the unit.

C. Chiller Start-up
1. Make all preliminary checks.

- Oil temp, oil level, chilled water flow, chilled water load available (cooling units on) etc.

2. Start the unit

- If the phase rotation of the electrical power has not been positively confirmed, the actual rotation of the motor must be checked. Observe the rotation of the motor shaft through the sight glass on the end of the motor at the moment of start-up. Rotation must be **CLOCKWISE**. If the phase sequence is incorrect, confirmed by observation of the Phase Reversal diagnostic on the UCP, then the incoming power leads to the stator must be adjusted by authorized personnel.
- As the unit starts and runs, observe closely all operating conditions.
- Adjust the oil pressure regulator if necessary to 18 to 22 psi net.
- In the DynaView Purge Settings menu of the UCP, place the Purge Operating Mode to 'on' to allow the removal of non-condensables. It may also be necessary to disable the Purge Pumpout Limit timer found in the Purge Settings menu.
- After the unit has the system down to design leaving chilled water temp and is under control, and the purge is no longer relieving non-condensables, begin taking the start-up test log. Log the unit a minimum of 3 times at 15-minute intervals.
- In the DynaView Purge Settings menu of the UCP, return the purge-operating mode to 'Adaptive'.
- Restart the chiller and carefully observed the starting and loading sequence.

3. Instructions to the Chiller Operator.

- Instructions for starting, operating, and shutting down.
- Instructions for logging the unit.
- Instructions for periodic maintenance.

D. After 2 weeks of operation (Interantion Units Only)

1. Remove the water box covers on both the evaporator and condenser. Mechanically brush clean all the tubes. This is to assure there is no debris blocking any of the tubes. A piece of debris partially blocking a tube may cause that tube to fail prematurely.
2. Replace the oil filter with the spare oil filter included in the control panel at time of shipment.

E. Comments and/or Recommendations:

Service Technician
Signature
Date



STARTUP Chiller Report - Water Cooled CenTraVac With CH530 Controller

Job Name _____	Serial # _____
Job Location _____	Model # _____
Sales Order # _____	Ship Date _____
Elevation _____	Start Date _____

DATE: _____

Starter Data:

Manufacturer	_____
Type	_____
Vendor ID#	_____
Model #	_____
Volts 7 Hz	_____
Amps	_____

Current

Transformers

Primary	X _____
Primary	X _____
Primary	X _____
Secondary (if present)	X _____
Secondary (if present)	X _____
Secondary (if present)	X _____

Motor Data:

Manufacturer	_____
Type & Frame	_____
Drawing#	_____
Serial#	_____

Nameplate Data

RLA	_____
KW	_____
Volts & Hz	_____

Machine Press

At Arrival	_____ PSIG
At Startup	_____ PSIG
Leak Test Vacuum	_____ Microns
Vac Rise Test	_____ Microns after _____ hours
Unit Refrigerant Charge	_____ lbs of R-_____
High Pressure Cutout	HPC (3S1) _____ Open HPC (3S1) _____ Close

Design Data

RLA	_____
KW	_____
Volts & Hz	_____
Evap Flow _____	Actual _____
Evap PD _____	_____
Cond Flow _____	_____
Cond PD _____	_____

Dyna View Display

Settings:

Date Format	_____
Date	_____
Time Format	_____
Time of Day	_____
Keypad/Display Lockout	_____
Display units	_____
Pressure Units	_____
Language	_____

Dyna View Purge Settings

Purge Operating Mode	_____
Daily Pumpout Limit	_____
Pumpout Limit Disable	_____
Purge Liquid Temp Inhibit	_____
Purge Liquid Temp Limit	_____
Purge Run Time	_____

Notes



**STARTUP Chiller Report - Water Cooled CenTraVac
With CH530 Controller**

Dyna View Reports	Log 1	Log 2	Log 3
Evaporator			
Entering			
Leaving			
Saturated			
Refrig Press			
Approach			
Flow Sw status			
Condenser			
Entering			
Leaving			
Saturated			
Refrig Press			
Approach			
Flow Sw status			
Compressor			
Starts			
Running Time			
Oil Tank Press			
Oil Dischrg. Press			
Oil Diff Press			
Oil Tank Temp			
IGV Position %			
IGV Steps			
Motor			
% RLA L1, L2, L3			
Amps L1, L2, L3			
Volts AB, BC, CA			
Power KW			
Load PF			
Winding #1 temp			
Winding #2 temp			
Winding #3 temp			
w/AFD only:			
AFD Freq			
AFD Speed			
AFD Transistor temp			
Purge			
Time Until Next Purge Run			
Daily Pumpout - 24 hrs.			
Avg. Daily Pumpout - 7 days			
Daily Pumpout Limit/Alarm			
Chiller On 7 days			
Pumpout Chiller On 7 days			
Pumpout Chiller Off 7 days			
Pumpout- Life			
Purge Rfgt Cprsr Suction Temp.			
Purge Liquid Temp.			
Carbon Tank Temp.			
Date:			
Technician:			
Owner:			



**STARTUP Chiller Report - Water Cooled CenTraVac
With CH530 Controller**

TECHVIEW SETTINGS RECORDS

	TechView: Configuration View	Record Setting		TechView: Configuration View	Record Setting
	UNIT TYPE		33	Comm 4 Tracer Interface	
1	Unit Type		34	Comm 5 Tracer Interface	
	CH530 Tab		35	ICS Address Comm 4	
2	Control Sequence		36	ICS Address Comm 5	
3	Unit Capacity		37	Purge Control	
4	Starter Type		38	Compressor Power Source	
5	Refrigerant Type		39	% RLA and Rfgr Press Analog Output	
6	Line Voltage Sensing		40	Rfgr Pressure Analog Output (TYPE)	
7	Free Cooling		41	Min Delta Rfgr Press Output Cal	
8	Hot Gas Bypass		42	Max Delta Rfgr Press Output Cal	
9	Second Condenser		43	Max Capacity Relay Filter Time	
10	Hot Water Control		44	Head Relief Relay Filter Time	
11	Outdoor Air Temp Sensor		45	Base Loading	
12	External Chilled Water Setpoint			TechView: Starter (non AFD)	
13	ECWS Minimum Temperature		46	Stop Delay Time (Contactor Interupt Failure)	
14	ECWS Maximum Temperature		47	Unit Line Voltage	
15	External Current Limit Setpoint		48	Voltage Transformer Ratio	
16	ECLS Minimum %RLA		49	Rated Load Amps	
17	ECLS Maximum %RLA		50	CT Meter Scale	
18	Ice Building		51	Current Unbalance Trip Point	
19	EHWS Minimum Temperature		52	Current Unbalance Grace Period	
20	EHWS Maximum Temperature		53	Maximum Acceleration Setting	
21	Refrigerant Monitor Type		54	Acceleration Time Out Action	
22	Condenser Pressure Sensor		55	Overload Type	
23	Evap. Diff. Wtr Press Sensing		56	Phase Reversed Protection Enable	
24	Cond. Diff. Wtr Press Sensing		57	Contactor Integrity Test	
25	Enhanced Oil Temp Protection		58	Phase Reversed Grace Period	
26	Discharge Temp Sensors		59	Surge Protection Enable	
27	Bearing Temp Sensors		60	Momentary Power Loss Protection	
28	High Pressure Cutout		61	Restart Inhibit Stop to Start Time	
29	Impeller Diameter		62	Surge Sensitivity	
30	IGV Actuators		63	Power Loss Reset Time	
31	Alarm, Limit Warning, Cprsr Run Relays				
32	Max Cap, Head Relief Request Purge Relays				

**STARTUP Chiller Report - Water Cooled CenTraVac
With CH530 Controller**

SETPOINT VIEW: Chiller			
64	Front Panel Chilled Water Setpoint	101	Check Oil Filter Diagnostic
65	Front Panel Current Limit Setpoint	102	Check Oil Filter Setpoint
66	Front Panel Heating or Cooling Mode	103	Restart Inhibit Free Starts
67	Front Panel Hot Water Setpoint	104	Restart Inhibit Start to Start
68	Front Panel Base Loading Command	105	Restart Inhibit Diagnostic
69	Front Panel Base Load Setpoint	106	Time Permitted at Minimum Capacity
70	Front Panel Free Cooling Command	107	HGBP Mode, Vane Target Compressor
71	Front Panel Ice Building Command	108	Maximum HGBP Time
72	Front Panel Ice Termination Setpoint	109	High Discharge Temp Cutout
73	Ice To Normal Cooling Timer	110	Local Atmosphere Pressure
74	Differential to Start Setpoint	111	Minimum Capacity Limit
75	Differential to Stop Setpoint	112	Maximum Capacity Limit
76	Setpoint Source	113	Start Sequence Type
77	Power Up Start Delay		
78	Evaporator Pump Off Delay		SETPOINT VIEW: Feature Settings
79	Condenser Pump Off Delay	114	Evap Pump Control Type
80	Evaporator Design Delta Temp	115	Chilled Water Reset
81	Condenser Design Delta Temp	116	Return Reset Ratio
82	Evaporator Leaving Water Temp Cutout	117	Return Start Reset
83	Inlet Guide Vane Max Steps First Stage	118	Return Max Reset
84	Inlet Guide Vane Max Steps Second Stage	119	Outdoor Reset Ration
85	Low Refrigerant Temp Cutout	120	Outdoor Start Reset
86	Condenser Limit Setpoint	121	Outdoor Max Reset
87	Evaporator Water Flow 1	122	External Current Limit Setpoint Enable
88	Evaporator Pressure Drop 1	123	Ice Building Feature Enable
89	Evaporator Water Flow 2	124	Hot Gas Bypass Feature
90	Evaporator Pressure Drop 2	125	Hot Gas Bypass Maximum Timer Enable
91	Evaporator Fluid Specific Gravity	126	Hot Gas Bypass Maximum Timer Setpoint
92	Evaporator Fluid Specific Heat	127	Hot Gas Bypass Compressor Control Command
93	Evaporator Low Water Flow Warning Setpoint	128	Hot Gas Bypass Valve Travel Time
94	Condenser Water Flow 1	129	External Base Loading Enable
95	Condenser Pressure Drop 1	130	Capacity Control Softload Time
96	Condenser Water Flow 2	131	Current Limit Control Softload Time
97	Condenser Pressure Drop 2	132	Current Limit Softload Start Point
98	Oil Temp Control Setpoint	133	Phase Unbalance Protection
99	Low Oil Temp Inhibit (Enhanced disabled)	134	Over/Under Voltage
100	Low Differential Oil Pressure Cutout	135	Protection
		136	Control Algorithm Flow Compensation



Trane
A business of American Standard Companies
www.trane.com

For more information contact your local district office
or e-mail us at comfort@trane.com

Literature Order Number	CVHE-SVU01C-EN
File Number	SL-RF-CTV-CVHE-SVU01C-EN-1003
Supersedes	CVHE-SVU01B-EN 902
Stocking Location	Inland

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice.

Only qualified technicians should perform the installation and servicing of equipment referred to in this publication.