

#### SERVICE PROGRAM

# Start-Up Thermal CRV DX and VRC Split (24x7)

Start-Up Thermal DX SPLIT (24x7) can be purchased within 6 months from the Equipment purchase date.

#### APPLICABLE TO THE FOLLOWING EQUIPMENT

Liebert® CRVTM (CR012; CR025 and their respective condenser units), LIEBERT® VRC Split (and their respective condenser units).

# APPLICABLE TO THE FOLLOWING SERVICE SKU

PS-THM-ST24X7-CRDX

PS-THM-ST24X7-VRSP

### PRE-REQUISITE TO PURCHASE THE SERVICE

IT Channel (i.e. Distributor and Reseller) needs to provide Vertiv with end Customer name, surname and e-mail address in order to be able to process the order and let Customer activate the service program purchased.

#### ONLINE REGISTRATION FOR VALIDITY

This Service Program must be registered in order to be valid. For registering it, please fill out the registration form found at the following address: <a href="https://www.vertiv.com/en-emea/support/register-your-product/registration/">https://www.vertiv.com/en-emea/support/register-your-product/registration/</a> within 30 days after receiving the confirmation certificate.

Follow all the registration steps until you are asked if you have purchased a Service Program, when asked tick yes and include the Service Program Code and Delivery Date as per the information received in the confirmation Certificate

#### SERVICE PROGRAM

Do you have a service program available?	YES	0	NO	
Service Program Code				Service Program Delivery Date

Please remember that, if not registered within 30 days after receiving the confirmation certificate, the Service will expire and will be considered as executed by Vertiv.

#### **SCOPE OF WORK**

Start-Up visit to be scheduled 7 days/week, 24 hours/day (excluding national holidays), provides:

- the installation checks, hardware and software settings, functional testing, and final report with all documentation.
- the configuration and connectivity test of the UPS to the Building Management System (if available) to be performed in the same day of the Start-Up visit.

Start-Up Includes parts and labour coverage for repair of manufacturing defects found during Start-Up.

Defects or damage resulting from installation are not covered.

The user will be debriefed on the present working mode of the unit and the basic operations to be performed on the unit. The specific Prerequisite subjects mentioned in the checklist below are the necessary requirements to perform all the activities included in the Scope of Work.

# **DETAILS OF SERVICES:**

The Start-Up visit will include the below-mentioned activities; a report will be handed over to End-Customer upon completion.

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# Start-Up Check List

#### **Installation and Pre-Power Checks**

- Lock-out and tag-out procedures.
- Check room conditions.
- Visual review of unit installation, refrigerant lines and check positioning of remote condenser unit(s).
- Water cooled condenser check (if applicable).
- · Condensate drain check.
- Humidifier drain check (if applicable).
- Check electric power supply lines.
- Set the addresses of the rack temperatures sensors and connect the electrical terminal to the unit (if applicable).
- Connect the electrical cables of the water leakage sensor to the unit.

### **Start-Up Operation**

- Ensure that mains power supply voltages are within tolerance
- Verify/Set software configuration settings.
- Verify/Set hardware configuration settings (where applicable).
- Remote condenser start-up.
- Unit start-up (with customer approval).
- Circuit/s refrigerant charge completion.
- Verify proper functionality of system components.
- Humidifier proper functionality checks (if applicable).
- Condensate pump check (if applicable).
- Electric heating check (if applicable).
- Supply and return air probes calibration.
- Automatic Transfer Switch test (if applicable).
- Verify proper functionality of the Special Feature Application (where applicable).

### **Prerequisites**

- The unit must be correctly positioned and levelled on its final working position. The equipment and the area must be clean from dirt and debris.
- Electrical and communication cabling must be completed and correctly secured.
- Power supply to the unit and at least 50% of the nominal thermal load of the equipment must be assured.
- Refrigeration circuits must be already pre-charged at 80% of the calculated value.
- Unit drainpipe must be connected to the building wastewater pipeline.
- Humidifier (if fitted) must be fed by tap water.
- Compressor crankcase heaters must have been preheated for at least 4 hours preceding start up.
- Leak detector and rack temperature sensors must be correctly installed (for what applicable).
- Operating conditions must be agreed and communicated by the customer in advance.
- ATS (automatic transfer switch) correctly connected (if present). Personnel to switch off mains readily available on site.

# BMS connectivity test Check List (if applicable)

# **BMS** connectivity test

- Connect communication cables.
- Set the parameters of the unit.
- Perform a connectivity test with the BMS.

# **Prerequisites**

- The selected communication method has to be made available in terms of cables, connection lines, addresses routings and access permissions.
- Communication must be available and correct addresses and routings made available.
- Additional communication and alarm test are excluded.

### Data collection and de-briefing Check List

# Data collection and de-briefing

- Leave the unit in standard working conditions as per customer request.
- Collect the installation data to monitor the working conditions of the equipment.
- Prepare the start-up report for the user.
- Debrief the user on the task delivered and the status of the system.

# **ASSUMPTIONS & CLARIFICATIONS**

- Start-up expenses incurred due to delays beyond the control of Vertiv will be charged.
- Additional activities not part of this scope of work can be added and quoted separately.

### **END-CUSTOMER DUTIES**

Customer shall provide:

- Complete access to Site and to the Equipment for the purpose of Start Up services.
- Safe working environment including, where appropriate, safety induction procedures.

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- A point of contact during time of service.
- A point of contact for receipt of units and components.
- The Equipment shall be already installed in line with manufacturer recommendations.
- Isolation of any water-based fire suppression systems for the duration of site works.

Start Up visit must be requested at least 10 business days in advance of need by contacting the Vertiv™ Customer Service Center at the Toll-free telephone number (where available) 00 800 11554499.

• If for any reason the work cannot be performed during scheduled time, notify Vertiv service personnel 48-hours prior to scheduled event.

Service may require shutdown of load to ensure electrical connection integrity.

Attending staff are not expected to work completely alone, it is expected that site staff will regularly monitor and understand the condition of attending staff if they are attending site as a single engineer.

If Asbestos is present in the building related to the work area of the Equipment and planned works, the attending operatives must be briefed on this by the site staff.

#### **EXCLUSIONS**

Parts and Labour coverage for repair and replacement does not extend to any loss or damage due to misuse, accident, abuse, neglect, normal wear and tear, negligence (other than Vendor's), unauthorized modification or alteration, use beyond rated capacity, failure to report a known fault or malfunction in a timely manner, unsuitable power sources or environmental conditions, improper installation, repair, handling, maintenance or application or any other cause not due to the Vendor.

### **ABORTIVE VISITS**

Abortive visits to the Site resulting from inadequate notice, false, unjustified, unauthorized calls, inaccurate instructions, inaccessibility of the Site, unavailability of the Equipment to perform the activities as per the Scope of Work, shall be charged at 50% of the contract value.

### **SUBCONTRACTOR**

The Seller reserves the right to subcontract Services to others.

# **TERMS AND CONDITIONS**

The provision of the Services described in this Scope of Work is subject to terms and conditions of sales as better indicated at <a href="https://www.vertiv.com/en-emea/about/terms--conditions-of-sale/">https://www.vertiv.com/en-emea/about/terms--conditions-of-sale/</a> (Vertiv Standard Terms and Conditions). End-Customers may be asked to provide proof of the date of purchase.

By registering the Service in the manner described above, End-Customer confirms to have read Vertiv Standard Terms and Conditions and accepts the same without limitation.

Vertiv Standard Terms and Conditions and any other terms comprised herein apply (i) exclusively between Vertiv and the third party which directly bought the Service; and (ii) to those Services purchased by the End-Customer as better defined above. For the avoidance of doubt, Services obtained from any Vertiv Reseller are governed solely by the agreement between the End-Customer and the Vertiv Reseller. Such agreement may provide terms that are the same as the Vertiv Standard Terms and Conditions, in any case Vertiv shall be responsible within the limits and to the extent defined in the Vertiv Standard Terms and Conditions. Please contact your Vertiv Reseller for additional information on the Services described in this Scope of Work and on related Vertiv Terms and Conditions.

All documentation, imaging or other information provided to the End-Customer or gathered at the End-Customer site shall remain Vertiv sole propriety.

Vertiv reserves the right to change the Vertiv Standard Terms and Conditions at any time. In such a case the End-Customer will be properly notified, but any such change shall not apply to Services purchased by the End-Customer prior to the date of such change.

### **PRIVACY NOTICE**

Vertiv Privacy Policy available at: Privacy Policy.