



## 1.0 Executive Summary

Schneider Electric Critical Power and Cooling Service (CPCS) Start-Up Service is a key part of a complete deployment of the InRow ACRD 300mm cooling equipment in Data Centers, Server Rooms and Wiring Closets. This service provides the certified Schneider Electric CPCS service engineers needed to verify proper installation of the equipment per Schneider Electric CPCS installation documentation. Energize and check the functionality of the product in all modes of operation. This service provides the customer with the assurance that the InRow ACRD 300mm InRow Cooling Solution has been started up according to Schneider Electric CPCS standards and specifications.

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## 2.0 Features & Benefits

Features	Benefits
Start-up Service Provided 5x8 Or 7x24 Scheduling	A flexible service program to meet customers varying business operations requirements.
Provide Qualified And Approved Service Personnel	Frees customer resources to concentrate on core business activities.
Proper installation Verification	Guarantees correct installation and operation of the system.
Upgrade From Standard Parts Warranty	With the purchase of the InRow ACRD 300mm Start-up service the standard Warranty is increased from 1 <sup>st</sup> year parts to 1 <sup>st</sup> year parts & labor.
Train Customer Support Staff On Basic Operation Of The Equipment	Provides the customer with enhanced operation and maintenance Knowledge.

## 3.0 Details of Service – Pre Start-up

The specific activities of this service are listed below. For each item, Schneider Electric CPCS will perform the work described and create and maintain a project summary document that contains the key data and information. This document will be printed and will be provided to the customer.

Pre-Start up Inspection	
Activities	Description
System/Environmental & Service Requirements Inspection	Schneider Electric CPCS will check the InRow ACRD 300mm installation to ensure There are no signs of damage and that the environment is suitable for operation and there will be sufficient clearance around the system for service.
Installation Check	Schneider Electric CPCS will confirm the InRow ACRD 300mm is properly grounded and electrical supply Is installed per specifications. Perform a thorough check of all field installed piping, isolation valves, customer controls and monitoring.

<b>Start Up Service</b>	
Activities	Description
<b>Electrical Checks</b>	Schneider Electric CPCS will verify proper operation of blowers, compressors, condenser/dry cooler fans. Record voltages for main and control and record amperage draws for all components of the system supplied by Schneider Electric CPCS.
<b>System Operation</b>	Schneider Electric CPCS will record refrigeration circuit temperatures and pressures and verification of proper charge.
	Schneider Electric CPCS will ensure all modes of unit operation and function of internal components.
	Schneider Electric CPCS will verify operation of "OHE" (Out Door Heat Exchangers: Air Cooled Condensers/Dry Coolers)
<b>System Set-Up</b>	Schneider Electric CPCS will set-up optimum set-points for selected Cooling configurations
	Schneider Electric CPCS Will configure the redundant group control if it applies and set-up the alarm thresholds based on customer recommendations or best practices.
	Schneider Electric CPCS will set-up the OHE (Outdoor Heat Exchanger) for proper operation based on equipment application.
<b>Verify Ancillary Components</b>	Schneider Electric CPCS will verify operation of factory supplied ancillary devices like Water Detection devices.
<b>Equipment Training</b>	Schneider Electric CPCS will train the customer/support staff on basic operation and control settings.
<b>Documentation</b>	Schneider Electric CPCS will submit the completed site form to the customer.

### 4.0 Assumptions

The successful performance of the tasks defined in this statement of work (SOW) is based on the following key assumptions, which are agreed to by Schneider Electric CPCS.

- The scheduled on site work time will be discussed and approved between Schneider Electric CPCS and The customer.
- Schneider Electric CPCS will provide the customer with authorized service personnel to start up the InRow ACRD 300mm cooling solution.
- Installation Checklist must be completed and returned to Schneider Electric CPCS prior to scheduling Start-up services.
- Start-up service is a requirement to qualify for extended compressor warranties and On-Site service entitlements.
- Customer needs to purchase one contract per unit.
- Unit must be installed/maintained in an environment that adheres to manufacturer specifications and recommendations.
- Schneider Electric CPCS will provide the customer with a Start-Up site form indicating that the Cooling Solution was properly energized and the functionality of the system was checked in All modes of operation to ensure compliance with all Schneider Electric CPCS technical specifications.
- Non-standard products purchased through Schneider Electric CPCS will require a customized Statement Of Work (SOW).

Activities and items **outside the scope** of Start-Up service:

- Equipment rigging and inside delivery or setting of the indoor unit and or Out Door Heat Exchanger (OHE).
- Providing main power or control wiring to the InRow ACRD 300mm equipment or OHE (Outdoor Heat Exchanger).
- Providing piping or insulation for Refrigeration, Condenser loop, Condensate removal.
- Providing refrigerant for charging.
- Building Management Systems (BMS) or customer interfaces wiring.
- Installation of factory supplied ancillary devices; Water Detectors, Remote temperature sensors used for unit control and Environmental Monitoring Units (EMU's) and their sensors.
- Filling condenser water loop with water, brine or glycol.
- Purging air from the condenser water loop.
- Leak testing field installed piping.
- Evacuation of refrigerant piping.
- Start-Up of third party components.
- Building Management System integration (Optional).
- Any specialized testing or commissioning services.
- Water balance test and report.
- Site Coordination Services.
- Project Management.
- Assembly Services.

These activities can be integrated into a customized Statement of Work (SOW) at the customer's request. Please contact your certified Schneider Electric CPCS sales representative for more details.

### 5.0 Scope of Responsibility

The items stated here are responsibilities of both Schneider Electric CPCS and the customer.

#### 5.1 SCHNEIDER ELECTRIC CPCS RESPONSIBILITIES

- Schedule certified engineers to perform service
- Manage and coordinate scheduling of Start-Up service
- Review installation confirm it was performed to manufacturer specifications
- Operate system in all modes of operation
- Perform basic operator training
- Identify and document open Schneider Electric CPCS and/or customer issues
- Provide a signed copy of the Schneider Electric CPCS Site Forms to the customer

#### 5.2 CUSTOMER RESPONSIBILITIES

- Identify dates and times when the Start-Up service can be conducted
- Provide completed installation checklist validated by the installing contractor
- Provide network cable wiring to the customers BMS system and or interface wiring with the InRow ACRD 300mm equipment and those customer supplied interfaces
- Provide a named resource for scheduling of the service
- Provide a representative of the installation company to discuss any issues with the installation of the equipment and or obstacles preventing start-up of the equipment
- Notify Schneider Electric CPCS engineers of any security clearance requirements prior to arrival on site
- Provide a point of contact at the completion of service to sign off on completed work
- Have the parties responsible for operation of the equipment present for basic operator Training

### 6.0 Project Work Details

The information stated here are the details of the project performed by Schneider Electric CPCS for the customer including the schedule, location and successful completion criteria.

#### 6.1 SCHEDULE

Actual set dates will be discussed and approved between Schneider Electric CPCS and the customer.

#### 6.2 LOCATION

The location of this InRow ACRD 300mm equipment service will be on-site. It will be discussed and approved by Schneider Electric CPCS and the customer.

#### 6.3 COMPLETION CRITERIA

Schneider Electric CPCS is expected to have finished its written duties when any of the following occurs:

1. Schneider Electric CPCS completes all tasks described in Section 3.0 of this SOW.
2. This service and SOW are terminated for other reasons, within the Schneider Electric CPCS Customer Agreement.

## 7.0 Terms and Conditions

Schneider Electric standard Terms and Conditions apply.

The information provided in this Scope of Work cannot be used or duplicated, in full or in part. Other uses for this document are prohibited without written consent by Schneider Electric.

All documentation, photographs, imaging or other information provided by the customer, or gathered at the customer site, will be for internal use only and used solely for the purpose of report generation, analysis and recommendations.

All services' conditions included in this document apply (i) only between Schneider Electric and that organization that bought the Services Solutions; and (ii) only to those products and services ordered by the Customer at the time that the Schneider Electric Services information is current. Schneider Electric may change the Schneider Electric Services Information at any time. The Customer will be notified of any change in the Schneider Electric Services Information in the manner stated in the then current product ordering and/or services solutions related agreement between Schneider Electric and the Customer, but any such change shall not apply to products or service ordered by the Customer prior to the date of such change.

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