



Statement of Work

InRow ACRD 300mm Cooling Start-up Service



Installation Service

Service

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 CPCS service engineers needed to verify proper installation of the equipment per 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 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 st year parts to 1 st 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, 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	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	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.

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

- The scheduled on site work time will be discussed and approved between CPCS and The customer.
- 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 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.
- 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 CPCS technical specifications.
- Non-standard products purchased through 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 CPCS sales representative for more details.

5.0 Scope of Responsibility

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

5.1 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 CPCS and/or customer issues
- Provide a signed copy of the 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 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 CPCS for the customer including the schedule, location and successful completion criteria.

6.1 SCHEDULE

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

6.3 COMPLETION CRITERIA

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

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

7.0 Pricing

Pricing is available for standard APC and MGE Model numbers and standard scope of work. Engineer to Order products and deviations from the standard scope of work will be quoted on a per project Basis. Contact Sales for prices.

8.0 Terms and Conditions

APC standard Terms and Conditions apply.

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