



Statement of Work

InfraStruXure® InRow SC Assembly & Start-Up

Installation Service

Service

1.0 Executive Summary

The InfraStruXure® InRow SC Assembly & Start-Up Service provides customers with Schneider Electric Critical Power and Cooling Services (CPCS) certified service personnel on site to ensure proper assembly, installation and operation of air conditioning equipment. This service is a key part of a complete deployment of InfraStruXure® InRow SC in data centers, server rooms and wiring closets. It may be applied to modular, high density air conditioning or other Schneider Electric CPCS cooling applications.

1.1 ASSEMBLY

Assembly involves unpacking, assembling and placing the equipment in its final location. This service provides the customer with the assurance that the cooling solution has been installed according to Schneider Electric CPCS standards and specifications.

1.2 START-UP

Once the equipment has been placed in its definitive location, Schneider Electric CPCS factory-trained service personnel will energize and check the functionality of the equipment in all modes of operation and conduct various tests to obtain internal power supply voltage readings, temperature, pressure and other critical checks. This service is part of a complete suite of installation project services offered by Schneider Electric CPCS.

2.0 Features & Benefits

Features	Benefits
Provides qualified and approved service personnel	Assurance of proper Installation which helps ensure proper unit operation and capacities.
Comprehensive Assembly and Start-Up	Assurance that the cooling solution will be performing to specifications for optimum availability
Train customer support staff on basic operation of the equipment	Provides the customer with operation and maintenance knowledge.
Scheduling and delivery coordination	Avoidance of possible delays caused by scheduling and delivery conflicts.
Service available 5X8	A flexible service program to meet customers varying business operations requirements.
Customer specific site documentation	Records the baseline operational data of the system.
Supplies all necessary labor and materials	Schneider Electric CPCS trained and certified professionals ensure your system is assembled & started up to manufacturer's specifications and all work is done in a professional and orderly manner.

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3.0 Details of Service

InRow SC Assembly & Start-up service requires two Schneider Electric CPCS field service (FSE) personnel on-site for approximately 3 hours. The Start-Up service is contingent upon the system being installed using the installation supplies shipped with the unit with no modifications to the unit or site connections for power, condenser air inlet and outlet or condensate removal.

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

Assembly	
Activities	Description
Positioning	When configured with an InfraStruXure® solution that includes assembly services, Schneider Electric CPCS will position the equipment in its final location.
Assembly	Schneider Electric CPCS will attach to adjacent components and connect power and control connections provided with the solution.
	Schneider Electric CPCS will perform condenser ducting and condensate removal based on customer's specific locations using the connections provided with the equipment.

Pre-Start Inspection	
Activities	Description
Environmental Requirements	Schneider Electric CPCS will check the InfraStruXure® InRow SC installation to ensure there are no signs of damage.
	Schneider Electric CPCS will check that the environment is suitable for operation.
	Schneider Electric CPCS will ensure that there will be sufficient clearance around the system for air flow and service.
Installation Check	Schneider Electric CPCS will confirm the unit is properly grounded and electrical supply is installed per specifications.
	Schneider Electric CPCS will ensure temperature control strategy being used is proper for application.
	Schneider Electric CPCS will ensure that the sensors are properly mounted.

Start-Up	
Activities	Description
Electrical Checks	Schneider Electric CPCS will check all internal power supply voltages.
	Schneider Electric CPCS will check customer building management system interface and remote shut down interface.
Refrigeration System Checks	Schneider Electric CPCS will measure and record temperatures and pressures of refrigeration circuit.
	Schneider Electric CPCS will verify specific operation of refrigeration components; TXV valve, hot-gas bypass valve and compressor.
Condensate Checks	Schneider Electric CPCS will confirm condensate pump operation and flow to field installed drain
	Schneider Electric CPCS will validate condenser air flow to drop ceiling adapter
Configure System	Schneider Electric CPCS will verify fan speed controls match the system configuration
	Schneider Electric CPCS will configure the system with the appropriate temperature set points and thresholds.
	Schneider Electric CPCS will set up unit identification information, passwords and service intervals for air filters and fan run hours at the unit display interface.
	Schneider Electric CPCS will configure network settings for InfraStruXure® Manager and/or customer management system interface.
	Schneider Electric CPCS will set up unit configuration to match application of equipment.
Final Inspection	Schneider Electric CPCS will ensure the system is clean and free of debris.
	Schneider Electric CPCS will ensure the events log is clear and all wires, bolts and panels are properly secured.
Operating Instructions	Schneider Electric CPCS will provide operating instructions to owner's personnel.

4.0 Assumptions

The successful performance of the tasks defined in the 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 by Schneider Electric CPCS and the customer.
- Schneider Electric CPCS will provide the customer with authorized service personnel to assemble & start up the InfraStruXure® InRow SC solution.

- 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 CPCS technical specifications.
- If the customer's Building Management System (BMS) is not available during Start-Up Schneider Electric CPCS will not be able to:
 - Validate network address information.
 - Integrate BMS monitoring of the InfraStruXure® InRow SC.
 - Additional charges may apply.
- If the customer is not present during start-up Schneider Electric CPCS will not be able to:
 - Train them on basic system operation
 - Show them how to change set points and clear alarms
 - Show them what needs to be maintained in the unit for proper operation.
 - If Schneider Electric CPCS has to come back to provide customer training after Start-up then additional charges will apply.

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

- Equipment rigging and inside delivery.
- Mounting of the equipment to other Non-APC by Schneider Electric Racks or using mounting brackets other than what is factory supplied with the equipment.
- Installation of condenser ducting other than the recommended Drop Ceiling installation using the components shipped with the equipment.
- Installation of condensate drain to any connection that does not allow the use of the shipped condensate tubing and or exceeds the capabilities of the factory supplied condensate pump.
- Control wiring for Building Management System, User interface Inputs or Outputs, Network wiring to the customers LAN.
- Start-Up of third party components.
- Shipping expenses.
- Building Management System integration (Optional)
- Any specialized testing or commissioning services.
- Site Coordination Services.
- Project Management.

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 Assembly & Start-Up service.
- Ensure installation is 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 network cable to the BMS system if optional ModBus installation selected.
- Provide a named resource for scheduling the service.
- Notify Schneider Electric CPCS service personnel of any security clearance requirements prior to arrival on site.
- Provide a point of contact during time of service.
- Provide a point of contact at the completion of service to sign off on completed work.
- Provide the name of the project manager (if applicable).
- 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 with specifications to 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 installation will be on-site and performed at the ship to location of the equipment unless informed of a new location by the customer in a 48-hour period before start up service is to be done.

6.3 COMPLETION CRITERIA

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

1. Schneider Electric CPCS completes all the tasks described in Section 4.0 of this Statement of Work (SOW).
2. This service and Statement of Work (SOW) are terminated for other reasons, within the Schneider Electric CPCS Customer Agreement.

7.0 Pricing

Pricing is available for standard APC by Schneider Electric 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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