



## 1.0 Executive Summary

Schneider Electric Critical Power and Cooling Services (CPCS) refrigerant leakage detection service for cooling devices will provide certified service personnel to conduct leakage detection in the cooling installation, including InRow and InRoom devices, Chillers and condensers, and all accessible pipes and conducts.

This service is intended for users of refrigerant which are subject to the regulation #517/2014 of the European parliament and of the council, of 16 April 2014. This regulation specifies the number of visits of leak detection to be done according the amount of tonnes of CO<sub>2</sub> equivalent refrigerant present in the installation:

F-gas system content	Leak check frequency (NO leak detection system is installed)	Leak check frequency (With a leak detection system installed)
5 to 49.99 tonnes of CO <sub>2</sub> equivalent.	At least every 12 months	At least every 24 months
50 to 499.99 tonnes of CO <sub>2</sub> equivalent.	At least every 6 months	At least every 12 months
500 or more tonnes of CO <sub>2</sub> equivalent.	At least every 3 months	At least every 6 months

This service consists of a visit whereby a CPCS-certified technician performs a detailed inspection of the cooling installation to detect any leaks. The visit is performed during normal business hours.

## 2.0 Features & Benefits

Features	Benefits
<b>On-Site Certified Service Professionals</b>	Provides an on-site visit by certified CPCS Field Service Engineer(s), trained to safely inspect the cooling installation to detect a leak.
<b>Leakage Detection</b>	Complete inspection of all accessible parts of the cooling installation to check if leakage occurs, in order for the user to be in compliance with the regulation and avoid penalties.

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### 3.0 Details of Service

The refrigerant leakage detection service provides CPCS certified service personnel at the customer’s location on a pre-determined scheduled date. The following table lists the details of the service tasks provided with these visits.

Refrigerant Leakage Detection Service	
Activities	Description
<b>Leakage Detection</b>	Discovery of the installation, with all accessible piping and conducts
	Record various parameters (ambient temperature, refrigerant temperature, refrigerant pressure)
	Check all accessible piping using a direct leakage detection method
	If no leakage has been detected: report is written and given to the user
	If leakage has been detected: <ul style="list-style-type: none"> <li>• Report is written and given to the customer, with the mention that a leakage has been detected</li> <li>• Identification of the leakage position with a sticker</li> <li>• Eventually, the cooling system has to be stopped</li> <li>• If leakage is on a CPCS device and the device is maintained by a CPCS maintenance contract which includes parts, then the reparation is to be performed by CPCS</li> <li>• If leakage is on a CPCS device and the device is not maintained by a CPCS maintenance contract which includes parts, then the reparation can be performed by CPCS or by the customer’s installer,</li> <li>• If leakage is outside of any CPCS device, then the reparation can be performed by CPCS or by the customer’s installer,</li> <li>• After the reparation of the leakage, the cooling system has to be restarted either by CPCS or by the installer under CPCS control</li> </ul>

### 4.0 Assumptions

The successful performance of the tasks defined in the SOW is based on the following key assumptions, which are agreed to by CPCS.

- All scheduled services performed on-site by CPCS will be executed during the CPCS business hours. These hours are Monday through Friday from 8:00 A.M. to 5:00 P.M. weekly, local time. Exceptions are holidays.
- Geographical restrictions may apply. Please verify the service coverage and response time with your local APC by Schneider Electric office.
- Some aspects of the service definition presented in this document may vary by location. In the case of a conflict between the service definitions contained on this Statement of Work and the local service definitions the local service definitions will prevail. For more information, please refer to your Certified APC sales representative.

The following items are **not included in the scope** of this service:

- Repair of detected leakage on equipment not supplied by CPCS,
- Repair of detected leakage on any piping or conducts outside of the cooling unit,
- Support for third party equipment
- Any specialized testing or commissioning

## 5.0 Scope of Responsibility

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

### 5.1 CPCS RESPONSIBILITIES

- Meet the customer's service schedule date
- Perform all of the service tasks
- Submit Service report to the customer
- Ensure all action items are completed
- Inform and provide recommendations to the customer about any action items not included in the Scope of Work SOW
- Conform to local health and safety regulations

### 5.2 CUSTOMER RESPONSIBILITIES

- Provide dates and times when the scheduled work can be performed
- Facilitate site access for CPCS service personnel
- Notify CPCS service personnel of any security clearance requirements in advance of arrival
- Notify CPCS service personnel of any safety training and safety equipment requirements
- Provide an on-site point of contact
- Sign the completed Maintenance forms

## 6.0 Project Work Details

The information stated here are the details of the project performed by CPCS for the customer with specifications on date, time, and place.

### 6.1 SCHEDULE

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

### 6.2 LOCATION

The location of this project 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 the tasks described in Section 3 of this SOW.
2. This project and SOW are terminated for other reasons, within the CPCS Customer Agreement.

## 7.0 Terms and Conditions

APC standard Terms and Conditions apply.

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