



## Cold & Air conditioner

### ESP REGULATIONS

Your refrigeration systems are made up of various Pressure Equipment (ESP) liable to generate risks for the safety of people and property.

They are subject to regulations: Directive 2014/68/EU and the decree of November 20, 2017 and the Cahier Technique Professionnel (CTP) for the in-service monitoring of refrigeration systems.

These regulations apply to pressure equipment in refrigeration systems used in refrigeration, air conditioning and heat pumps.

Whether for your new systems or for the existing one, it is imperative to respect the regulations in force!

You are responsible for this equipment but faced with the complexity of the regulations, you need a professional to advise you and assist you in your obligations.

We're here to accompany you !

#### I) PRESSURE EQUIPMENT

Pressure Equipment (ESP) is likely to generate risks for the safety of people and property. They were therefore very early brought to be regulated.

Indeed, the energy contained in this equipment is very high and can, in the event of failure of the enclosure (shocks, corrosion, etc.), lead to the explosion of the device or the rupture of fragile elements (seals, etc.) with high-speed projections of fragments, shock waves and a sudden release of sometimes toxic or flammable gases or vapours, causing human and material damage in the vicinity

of the scene of the accident.

We offer you a complete solution, from the production of refrigeration unit(s) on your site for your new refrigeration systems according to the PED, to the in-service monitoring of your pressure equipment according to the provisions provided for in the Cahier Technique Professionnel (CTP) for pressurized refrigeration systems.

This solution allows you to control all the risks of your refrigeration systems.

Information notice DESP – CTP Picquette

#### II) THE PRESSURE EQUIPMENT DIRECTIVE (PED)

##### a) GUARANTEEING THE COMPLIANCE OF YOUR NEW REFRIGERATING SYSTEMS

The Pressure Equipment Directive (PED) concerns all your new refrigeration systems. We take care of supplying you with a CE assembly, as soon as you entrust us with the installation of the entire refrigeration system. Your system must consist of a complete, integrated and functional circuit.

##### b) WHY MARK YOUR REFRIGERATION SYSTEMS?

Picquette provides you with the guarantee of high protection for 10 years\* by ensuring the compliance of all your refrigeration systems with the essential safety requirements by delivering a CE-plated assembly.

**You will then be compliant with the regulations and covered by the Product Liability Directive. The CE marking will also allow you to better negotiate your contract with your insurer by promoting the CE marking and, in the event of an accident, the possibility of being compensated.**

**IN-SERVICE MONITORING OF YOUR REFRIGERATING SYSTEMS WITH THE PROFESSIONAL TECHNICAL BOOKLET 2020. (Compulsory from January 1, 2020)**

### III) SECURING THE OPERATION OF YOUR REFRIGERATING SYSTEMS IN SERVICE

Picquette accompanies you and carries out a complete follow-up, with:

Compilation of the operating file and identification of the refrigeration equipment subject to these regulations for your site.

The implementation of the inspection plan, the periodic checks (VI and/or IP) and the periodic requalification necessary to validate an operating cycle.

Etablissements Picquette brings you its expertise for complete control of risks and compliance with regulations.

The inspection plan is the keystone of the application of the CTP 2020, it defines the minimum monitoring actions to be carried out by taking up the characteristics of the system, the manufacturer's instructions, etc. The objective is to take into account all the parameters that contribute to the degradation of the systems to better understand the security risk and adapt the controls as well as possible.

#### THERE ARE THREE TYPES OF CONTROLS:

##### 1) The initial verification

Its purpose is to ensure that the equipment or refrigeration system has been installed in accordance with the requirements contained in the instruction manual(s) of the manufacturer(s) and that the provisions provided for by the CTP can be implemented. work.

The initial check also leads to checking the presence of the operating file and the following operations:

Verification of the identity of the containers and their correspondence with the file;

Visual verification of their status;

Verification of the ability to operate safety accessories;

Verification of the adequacy of the adjustment of the safety accessories with the admissible limits of the containers or of the assembly.

##### 2. Periodic inspection verifies that the equipment can be maintained in service.

###### She understands :

- A documentary check, a visual check of the visible external parts of the containers, of the external condition of the condenser(s), of the accessories under pressure, of the safety accessories with inspection of the surface condition of the insulated and non-insulated areas, absence of clogging of the condenser, control of incondensable gases.

- Any anomalies that compromise safety must be corrected without delay. The frequency of checks varies according to the categories of equipment per refrigeration system, it is 24 months (Cat IV) or 48 months (Cat II & III).

**Operations carried out under the responsibility of the operator by an authorized person, who must inform the operator of any anomalies observed.**

##### 3. Periodic requalification, for its part, covers both:

- Documentary verification, verification of the carrying out of the checks provided for in the inspection plan, verification of safety accessories

- It includes equipment inspection

- The verification of the associated safety accessories, with the installation of a new or repaired valve that dates back less than 6 months

- Verification of the setting of the safety pressure switches which dates back less than 12 months

- The control frequency for toxic or very toxic refrigerants (NH<sub>3</sub>, etc.) is once every 6 years and for other refrigerants (HFCs, CO<sub>2</sub>, etc.) once every 12 years.



**Operating equipment that is not periodically checked risks leading you into an irregular situation during unannounced inspections by the DREAL. (Article L171-8 and L173 indent 1 to 12 of the environment code).**

#### **IV) PICQUETTE SUPPORT, THE SOLUTION FOR YOUR PROFESSIONAL TECHNICAL NOTEBOOK**

We have chosen to guarantee the safety of refrigeration systems throughout their life cycle by informing you of your monitoring obligations with regard to the risks presented by your installations and by supporting you in bringing them into compliance.

**PICQUETTE OFFERS YOU A COMPLETE SOLUTION BY PROVIDING ALL ITS EXPERTISE AND SUPPORT FOR THE SAFETY OF ALL YOUR EQUIPMENT!**