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High
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news

CAREL electronic controls suitable for hydrocarbon refrigerants.

Hydrocarbon refrigerants including **R600a** (isobutane), **R290** (propane), **R1150** (ethylene), **R1270** (propylene) are becoming the preferred alternative **in commercial and professional refrigeration market**, in order to provide **HFC-free equipment**.

Because of the **highly inflammability** of this category of refrigerant gasses, the electronic controls mounted on such kind of refrigeratrs must be **compliant to specific standards**, which can be different depending on the country where the equipment is placed in the market.

With the present communication we want to explain you that **our controls are already compliant with required standards** and to provide you **useful information and documents.**

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EUROPE

CE mark on electronic controls requires to be compliant with the **EN 60079-15**, as required by the standards EN 60335-2-40 and EN 60335-2-89, which are the standard norms related to "Safety" for "Household and similar electrical appliances".

Most of the CAREL models on **PJ easy** and **ir33+** ranges are **already compliant with the EN 60079-15**, as clearly indicated into the CAREL public documentation "**Declaration of Conformity**". Compliance is based on **tests performed** an the **electromechanical relays** used into the electronic controls.

Each range of CAREL models has a dedicated "**Declaration of Conformity**" that are continually maintained, as they change the models of relays used in electronic controls. Last available releases of "**Declaration of Conformity**" are the following and are enclosed to the present mailing:

Product range	Document
PJ easy	C614_PJEZ_05_atex.pdf
ir33+ **ir33**	C534-716_IR33_03_atex.pdf
ir33+ wide **easy wide**	C716_IR33+Wide_02_atex.pdf
Powercompact	C538_PB_01_atex.pdf

Actually, only models equipped with **30A relays** are **excluded by the "Declaration of Conformity"**, which are:

Product range	Excluded models
PJ easy	- easy split - PJ30A
ir33+ **ir33**	- ir33+ power - ir33 power
ir33+ wide **easy wide**	- ir33+ small wide - easy small wide
Powercompact	- Powercompact small - Powercompact small wide

Released documents

Document	Web site
CE Declarations of conformity	http://ksa.carel.com/group/declarations