



 Reznor ready for the ErP Directive - ErP fact sheet

**“The impact of Ecodesign cannot be emphasized enough”.**

Wim Ros  
Sales Manager Benelux  
Nortek Global HVAC





## Introduction

The first of January 2018, a significant phase in the implementation of EU Directive 2015/1188 will come into effect. The so-called Ecodesign directive has significant consequences for manufacturers, distributors and installers of heating equipment.

“The impact of Ecodesign cannot be emphasized enough” states Wim Ros, Sales Manager Benelux for Nortek Global HVAC. “These guidelines introduce strict norms for energy related products. From 2018, any product that does not comply with these requirements, may no longer be marketed and sold within the EU.

Essentially, all affected products need to comply with either Lot 20 or Lot 21, plus the motor efficiency ErP regulation. Requirements will apply to both new installations and replacements of existing systems. An impact that cannot be ignored.

Reznor products, manufactured by Nortek Global HVAC, are also affected by the new Directive. This is why Nortek has prepared this fact sheet that summarizes the new requirements, the affected products, the consequences and the timing of the Ecodesign Directive.

“Since the Directive was announced, Nortek has worked tirelessly to offer customers heating and cooling systems that not only comply with the requirements, but that also limit costs and inconveniences for the customer as much as possible,” Wim Ros continues. “What’s more, our experts are ready to advise distributors, installers and users about the Directive.”

## What is the ErP Directive?

The Ecodesign regulation 2015/1188 and the implementing Directive 2009/125/EC constitute the EU policy that aims to improve the energy efficiency and other environmental performance criteria of energy-related products (ErP).

The Ecodesign directive tightens the energy specifications appliances need to meet and phases out inefficient appliances. It is part of the EU’s 2020 goals, which aim to reduce greenhouse gas emissions by 20% and energy consumption by 20%. Specifically, the goal of the directive is to save more than 4.1 billion GJ in energy and 233 million tonnes in CO<sub>2</sub> emissions by 2025.

## How does it affect construction & installation professionals ?

- / Divided into product families or “lots,” the regulation defines minimum energy efficiency and environmental values for different heating technologies with significant energy saving potential.
- / Any product that does not comply with the requirements cannot be marketed and sold within the EU.
- / The new standards apply to both new installations and replacements of existing systems.

## Which products are covered ?

### Lot 20: radiant

- / gas fired overhead radiant tube heaters
- / gas fired luminous plaque heaters

### Lot 21: warm air

- / warm air heaters using gaseous or liquid fuels
- / air handling units (AHUs)
- / heating and cooling coils with human comfort as their primary purpose
- / not covered by this lot: air curtains

### Lot 6: ventilation

- / includes any appliance that operates on full or partial fresh air
- / residential units/RVU (airflow < 250 m<sup>3</sup>/h)
- / non-residential units/NRVU (airflow > 1000 m<sup>3</sup>/h)
  - uni-directional ventilation units (single fan)
  - bi-directional ventilation units (two or more fans)
- / Not covered by this lot:
  - ventilation units with an electric power less than 30W per air stream or axial/centrifugal fans only equipped with a housing.
  - ventilation units designed specifically to work in cases of emergency, units used in a potentially explosive atmosphere, and units designed to move air to extreme temperatures i.e. above 100°C or below -40°C.
  - AHUs that provide heating/cooling and operate on 100% return air. They fall into Lot 21.

**Lot 6: ventilation**



**ErP requirements explained**

**Lot 20: radiant**

- / minimum seasonal efficiency, which combines radiant efficiency, thermal efficiency and electrical power consumption, of 74%.
- / NO<sub>x</sub> emissions not exceeding 200mg/kWh input based on gross calorific value

**Lot 21: warm air**

- / minimum seasonal efficiency of 72% (calculated from air flow temperature rise, thermal efficiency and electrical power consumption)
- / NO<sub>x</sub> emissions not more than 100mg/kWh input

**Lot 6: ventilation**

- / units must meet internal specific fan power (SFP) levels and feature high efficiency fans that have the ability to be speed-controlled.
- / bi-directional units must be fitted with a high efficiency heat recovery system - HRS plate heat exchanger or thermal wheel. Heat recovery performance must be minimum 67% in 2016 and 73% in 2018.
- / the implementation of SFP will, in most cases lead to an increase in the physical size of AHUs.

**When does it go into effect?**

**Lot 20: radiant**

1/1/2018

**Lot 21: warm air**

Tier 1:

- / Minimum seasonal efficiency of 72%: 1/1/2018
- / Maximum NO<sub>x</sub> levels <= 100mg/kWh input: 1/9/2018

Tier 2:

- / Minimum seasonal efficiency of 78%: 2021
- / Maximum NO<sub>x</sub> emission <=70mg/kWh input: 2021

**Lot 6: ventilation**

in effect since 1/1/2016. More stringent on 1/1/2018

**Product literature**

Gas fired radiant heaters and some other commercial heating appliances are excluded from mandatory energy labelling under Regulation 2015/1186 as they are directly planned and purchased by HVAC professionals.

However, product literature and manufacturer web sites must indicate the seasonal efficiency and NO<sub>x</sub> emissions for each product or system.



Example of the documentation that must be supplied

**ErP ready product range**

Nortek experts are ready to advise distributors, installers and users about our ErP ready product range.

Nortek offers Reznor unit heaters, Reznor ventilation units and Gaz Industrie radiants ready for ErP.



**REZNOR®**

RHeco condensing unit heater



**REZNOR®**

PREEVA air handling units



**Gaz Industrie**

BTH2R high efficiency radiant heaters

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