



**EUROKLIMAT®**

Cooling System Solutions

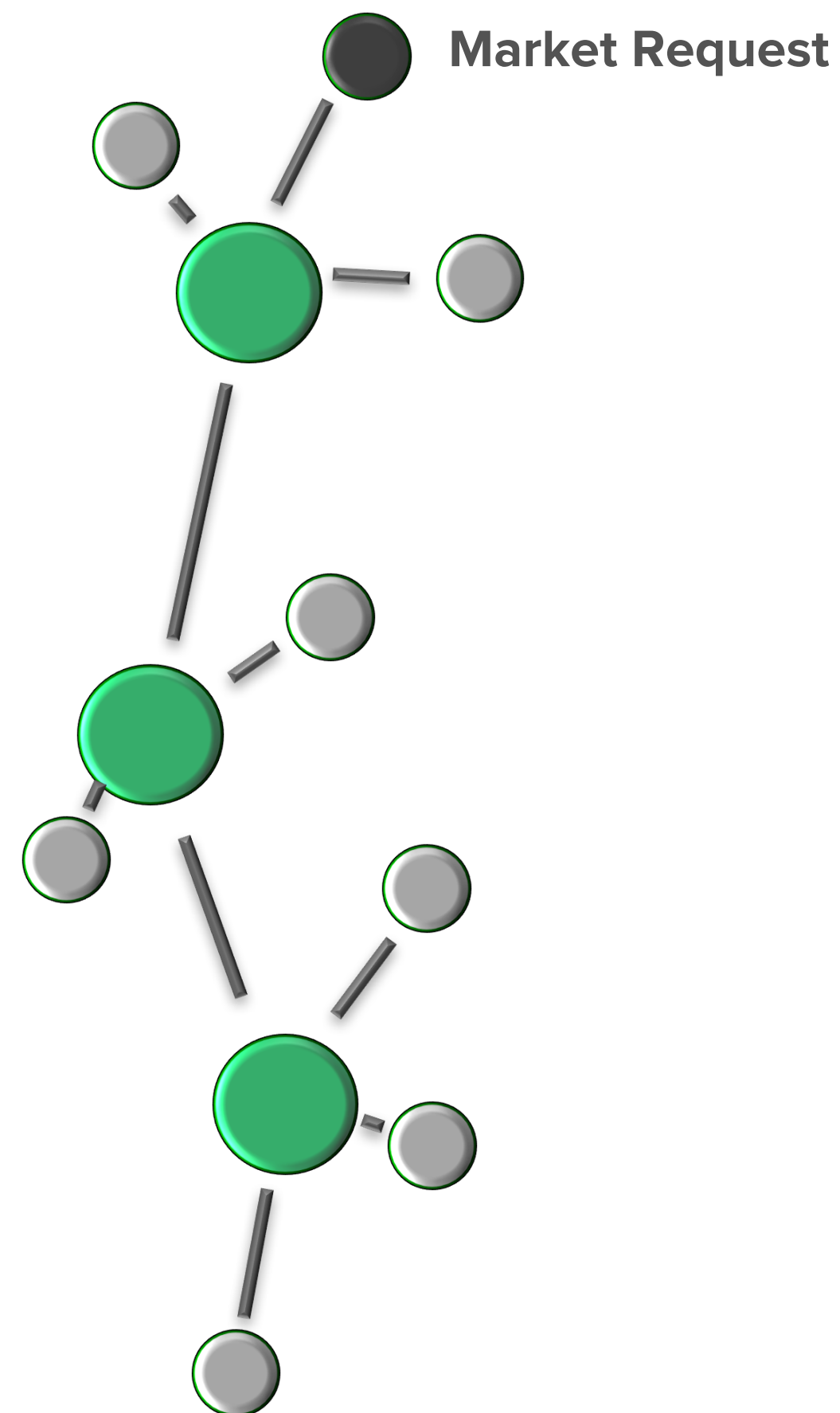
**Propane chillers specialist**



**EUROKLIMAT<sup>®</sup>**  
Cooling System Solutions

R290 Fluid Chillers Providing Air  
Conditioning for a Cash & Carry  
Warehouse in Padua, Italy





## Customer Request

Refrigerant: **R290**

Application: **Air Conditioning - Cash&Carry store**

Cooling Capacity: **500 kW**

Installation: **Outdoor**

## Why R290 chillers?

Company Policy:

**F-Gas Exit Program**

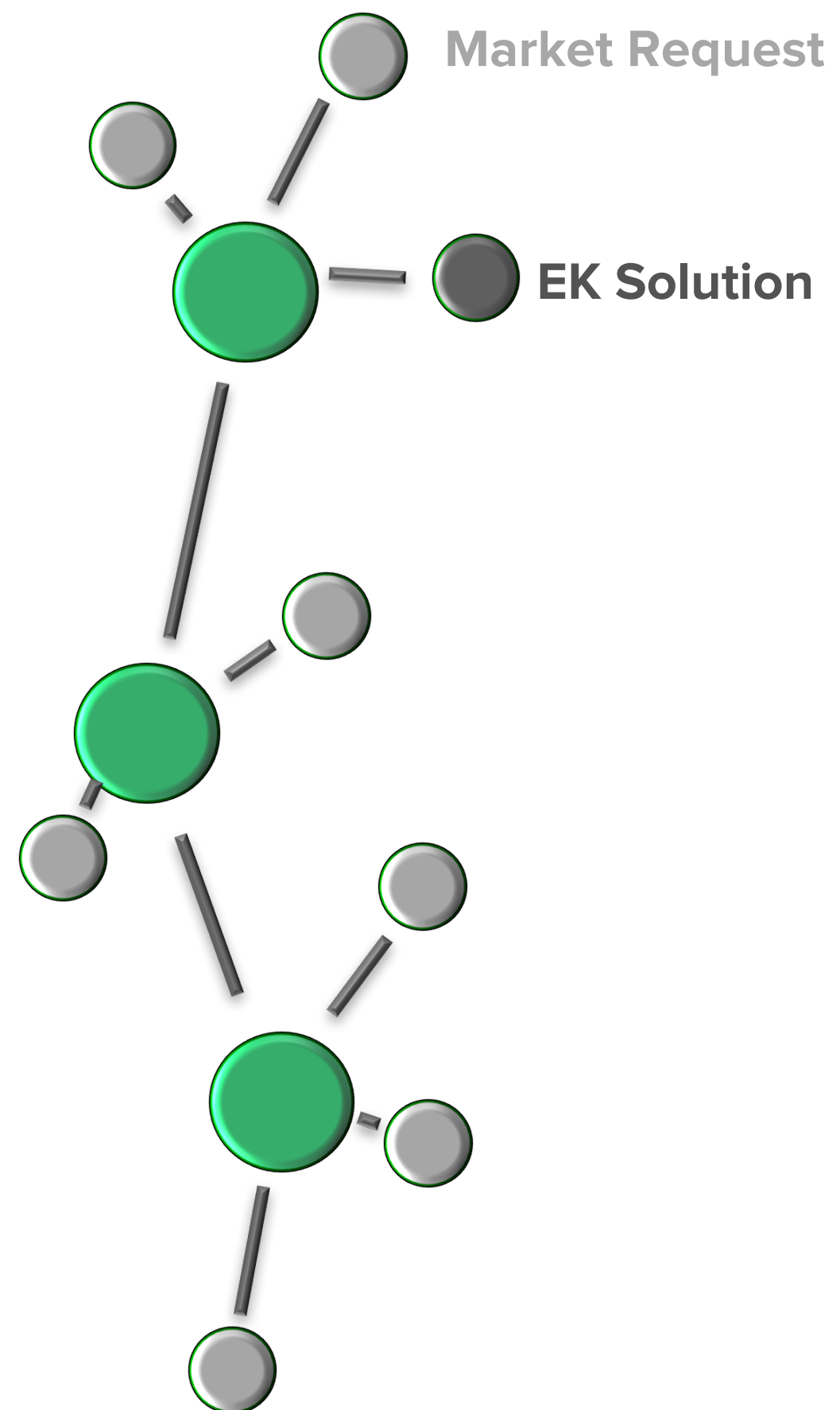
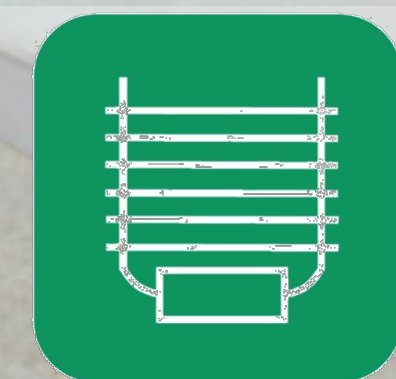
## EK solution? **RKO.E 1402**

Quantity: **2**

Tot. Cooling capacity : **510 kW**

# EK Solution?

## RKO.E 1402



# Safety?

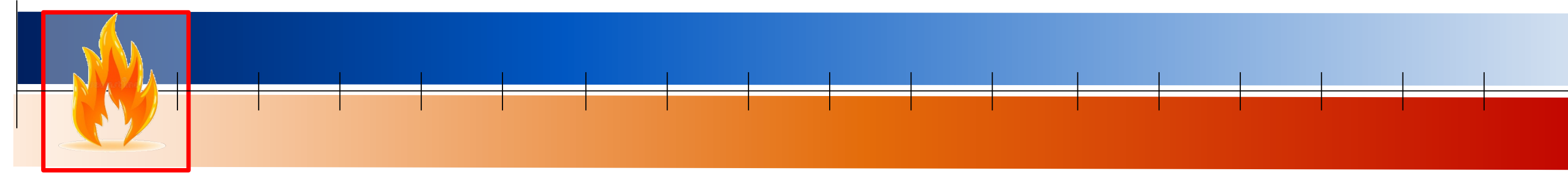
Classification according to EN Standards

Higher Flammability  
Lower Flammability  
No Flame Propagation

A3	B3
A2	B2
A2L	B2L
A1	B1

Lower Toxicity    Higher Toxicity

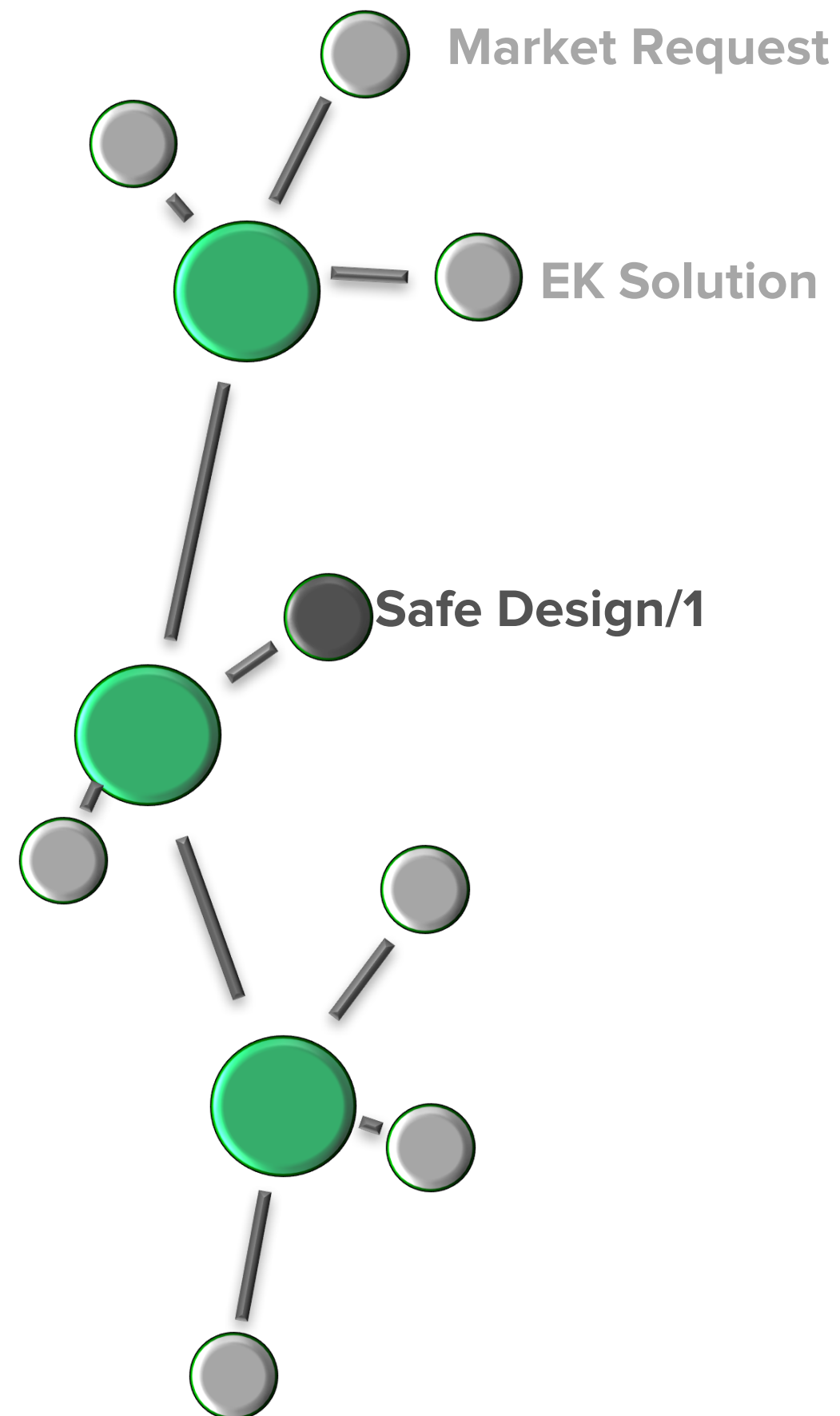
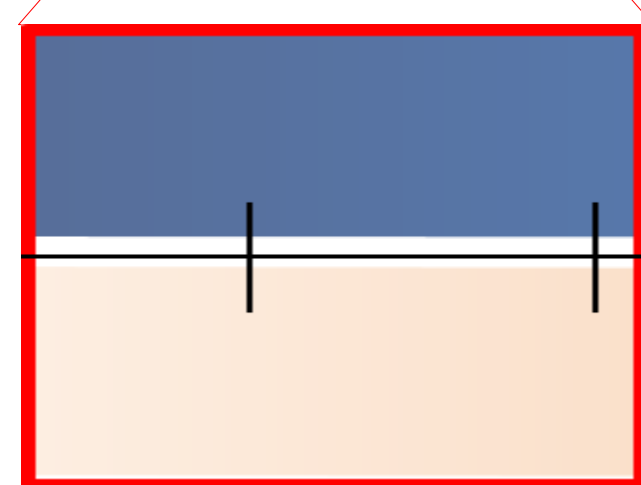
100%  
AIR



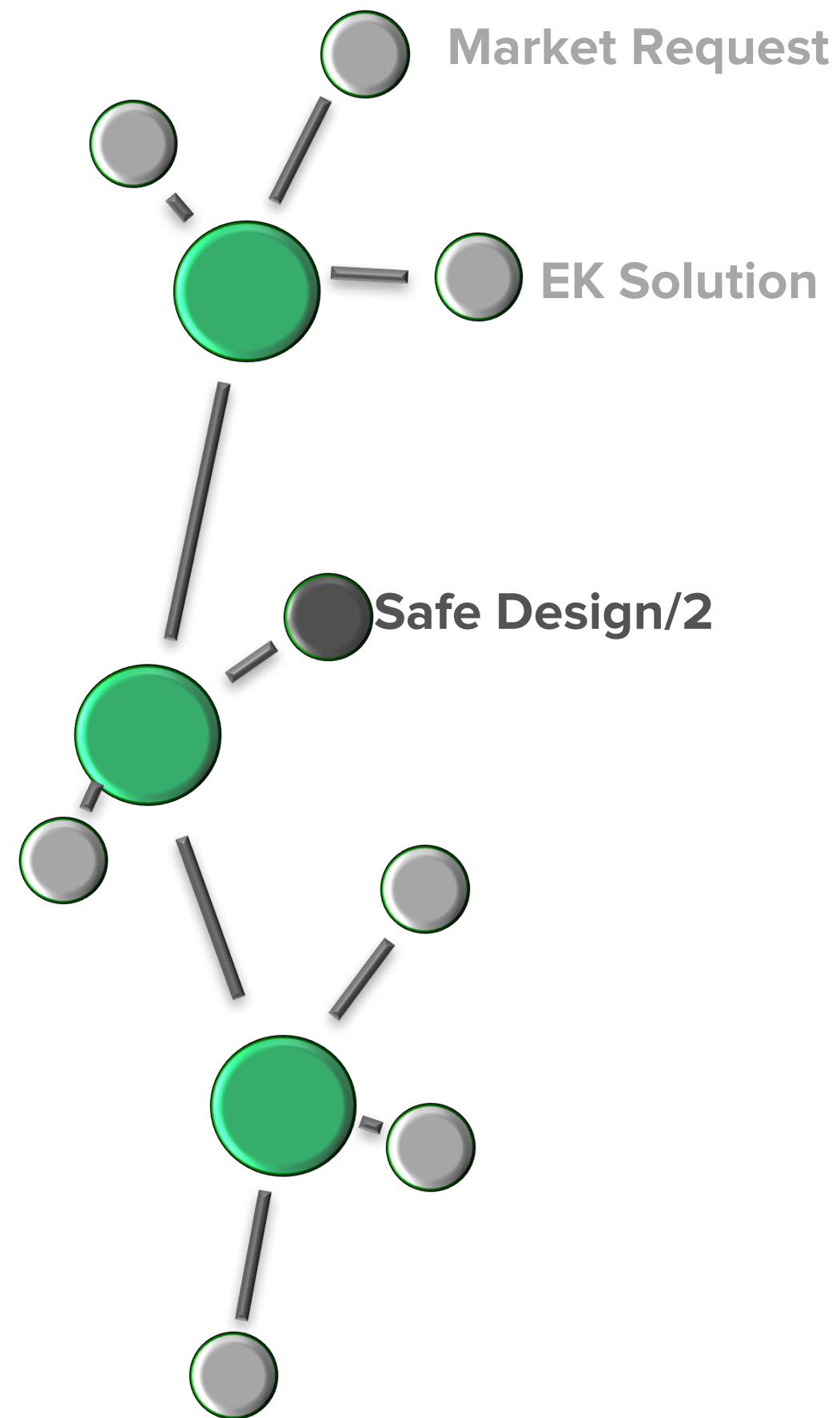
100%  
C<sub>3</sub>H<sub>8</sub>

LFL:  
1.7%

UFL:  
10.8%

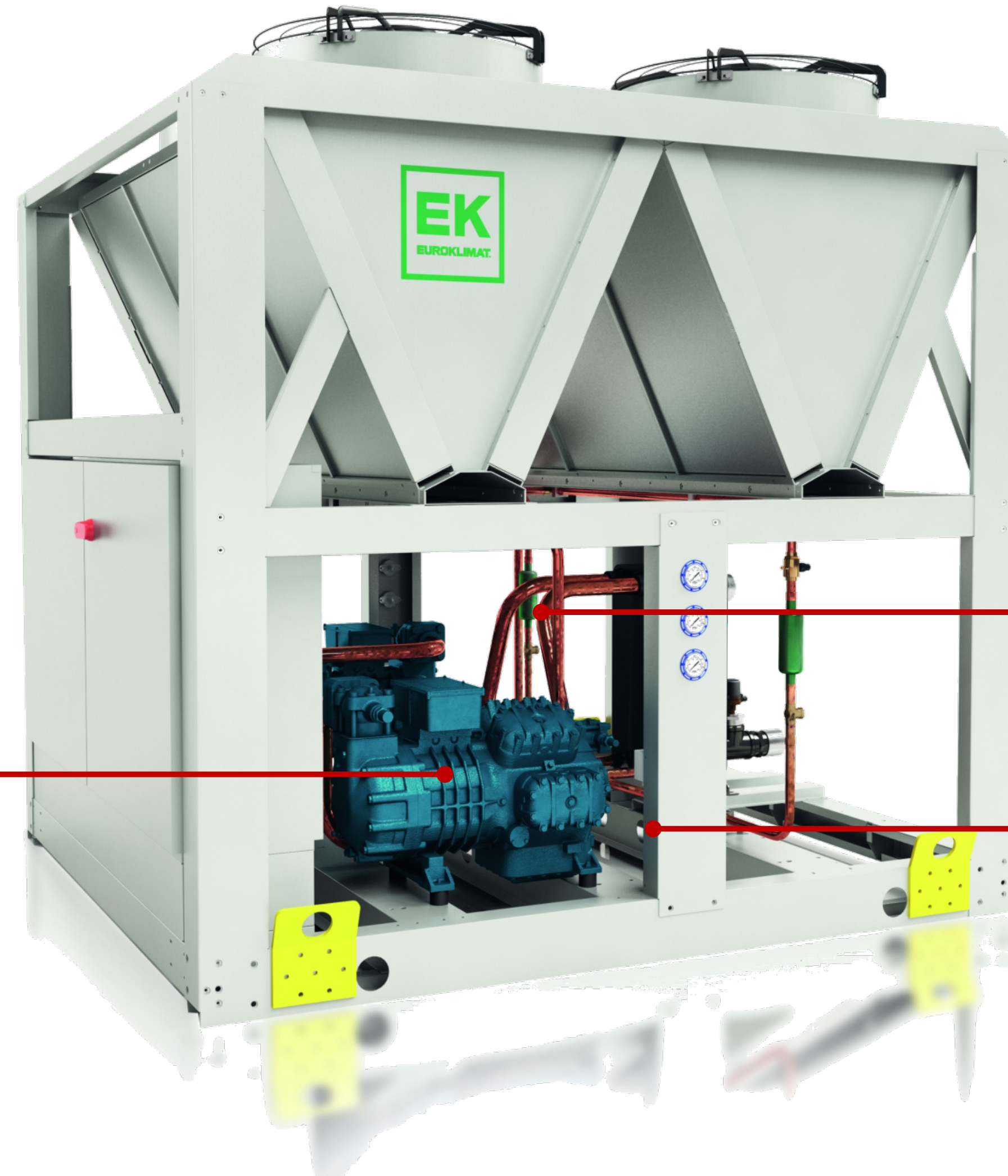


# Safety? Yes!



ATEX  
compressors

II 3 G Ex c IIB T3



ATEX  
Pressure Switches



Gas detector



# ...what about installation?

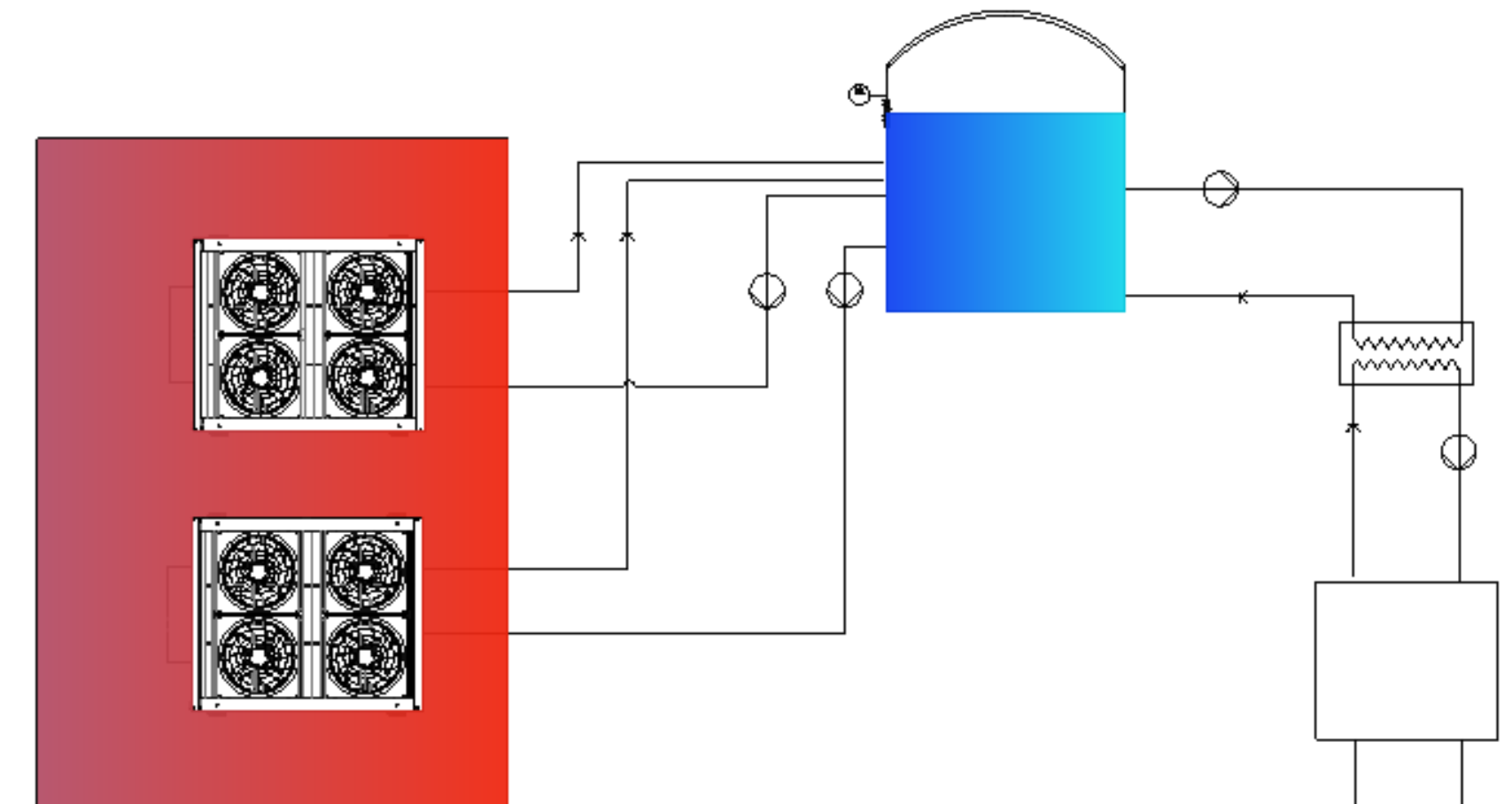
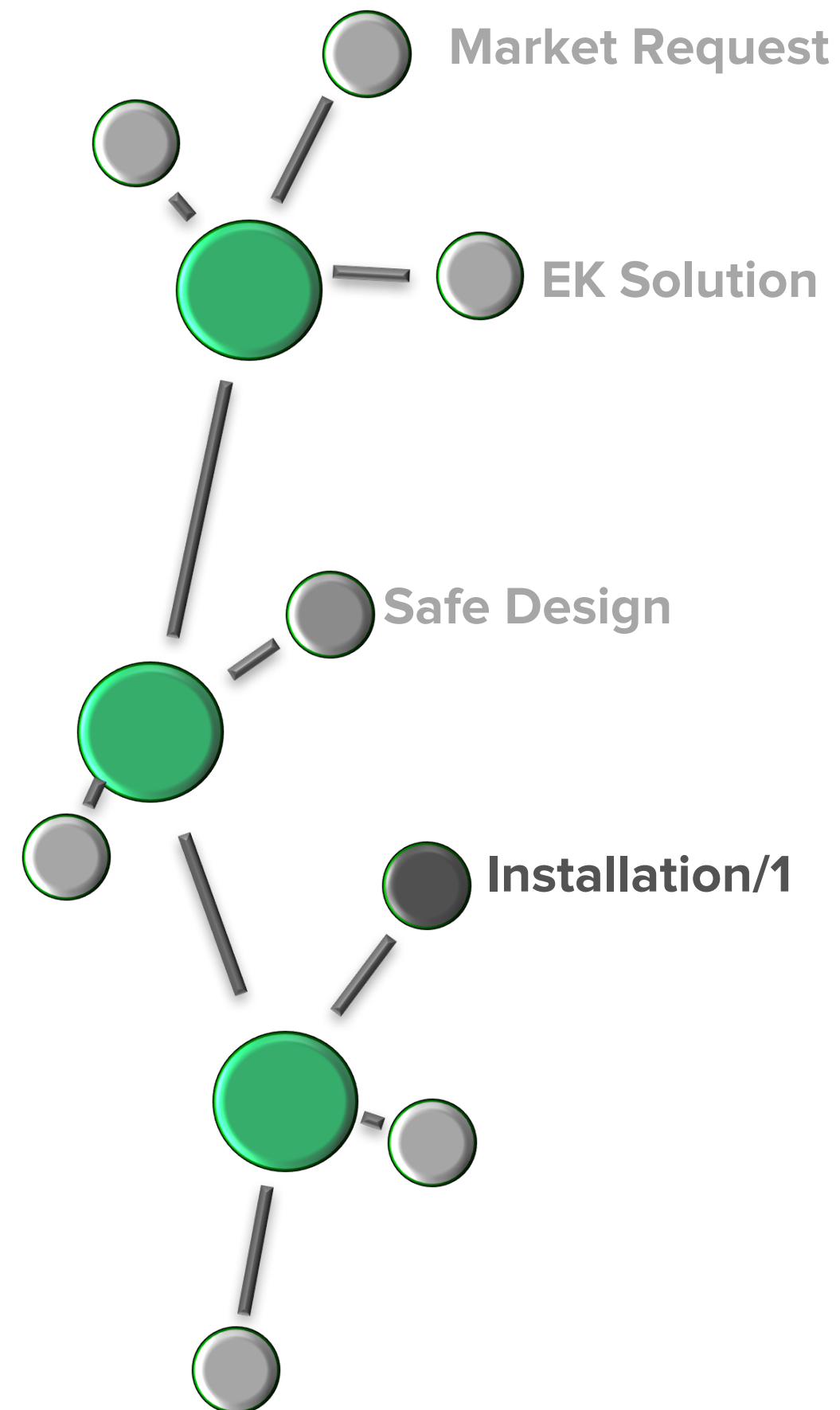
Installation area evaluation according to:

European Standard EN 378:2016

- Indirect system
- Charge x circuit: 10 Kg

National Regulation (Fire Department)

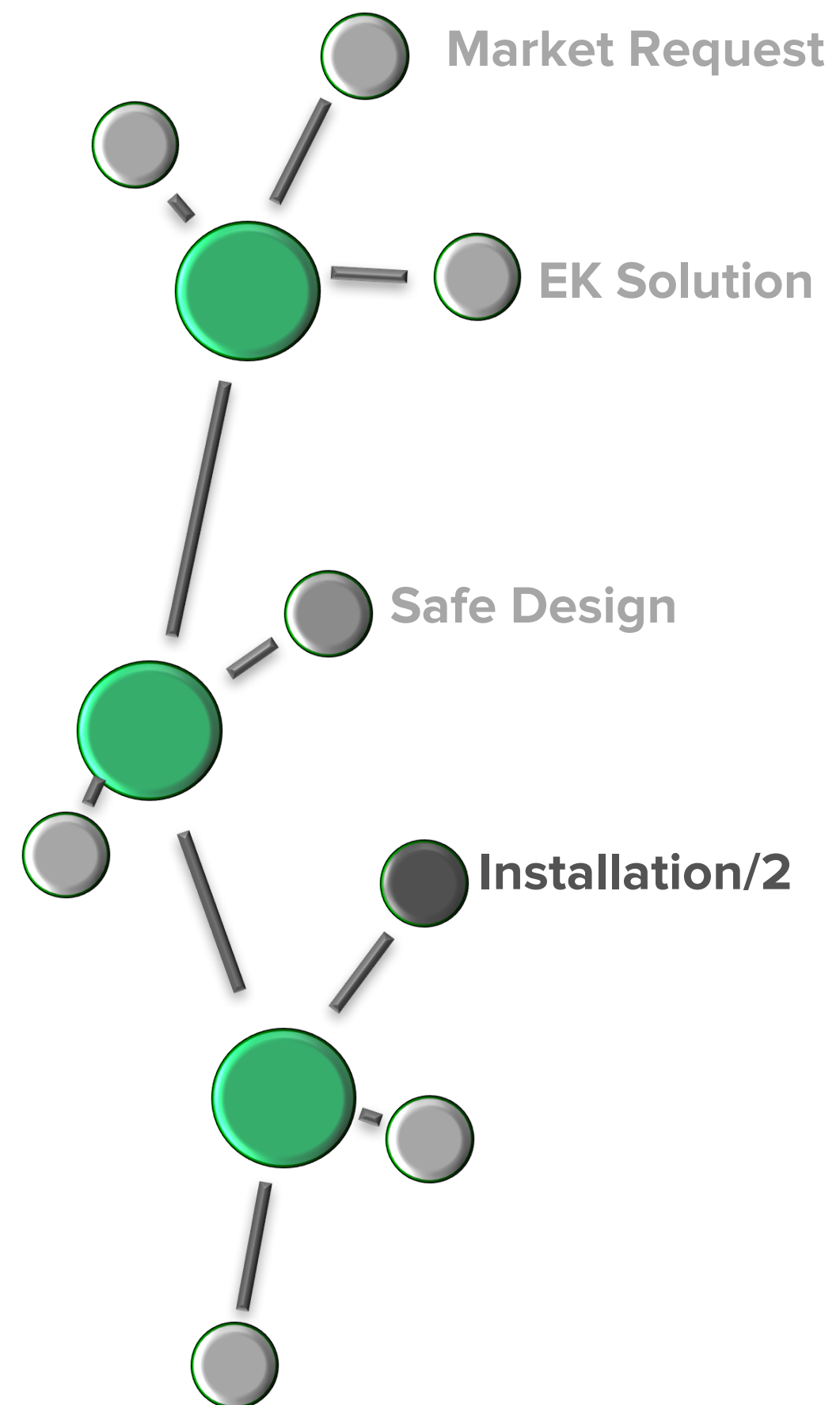
- Risk Assessment



Installation area:  
Open air

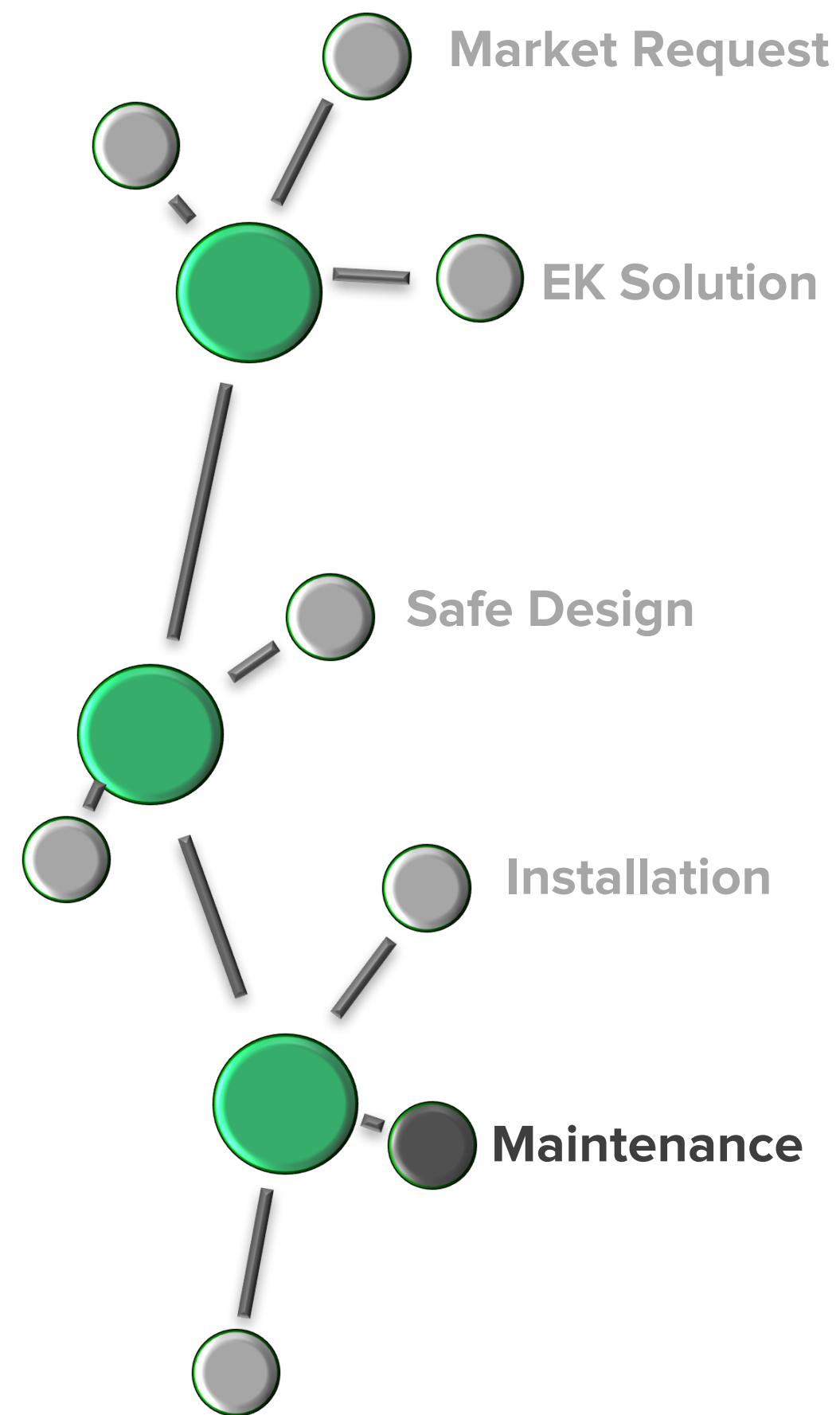
Access:  
authorized

Access:  
authorized





# How to ensure proper maintenance?



Specialized Technicians

Appropriate instrumentation

Gas Detector Calibration

# In summary:

Safety ensured thanks to Special design of EK chillers



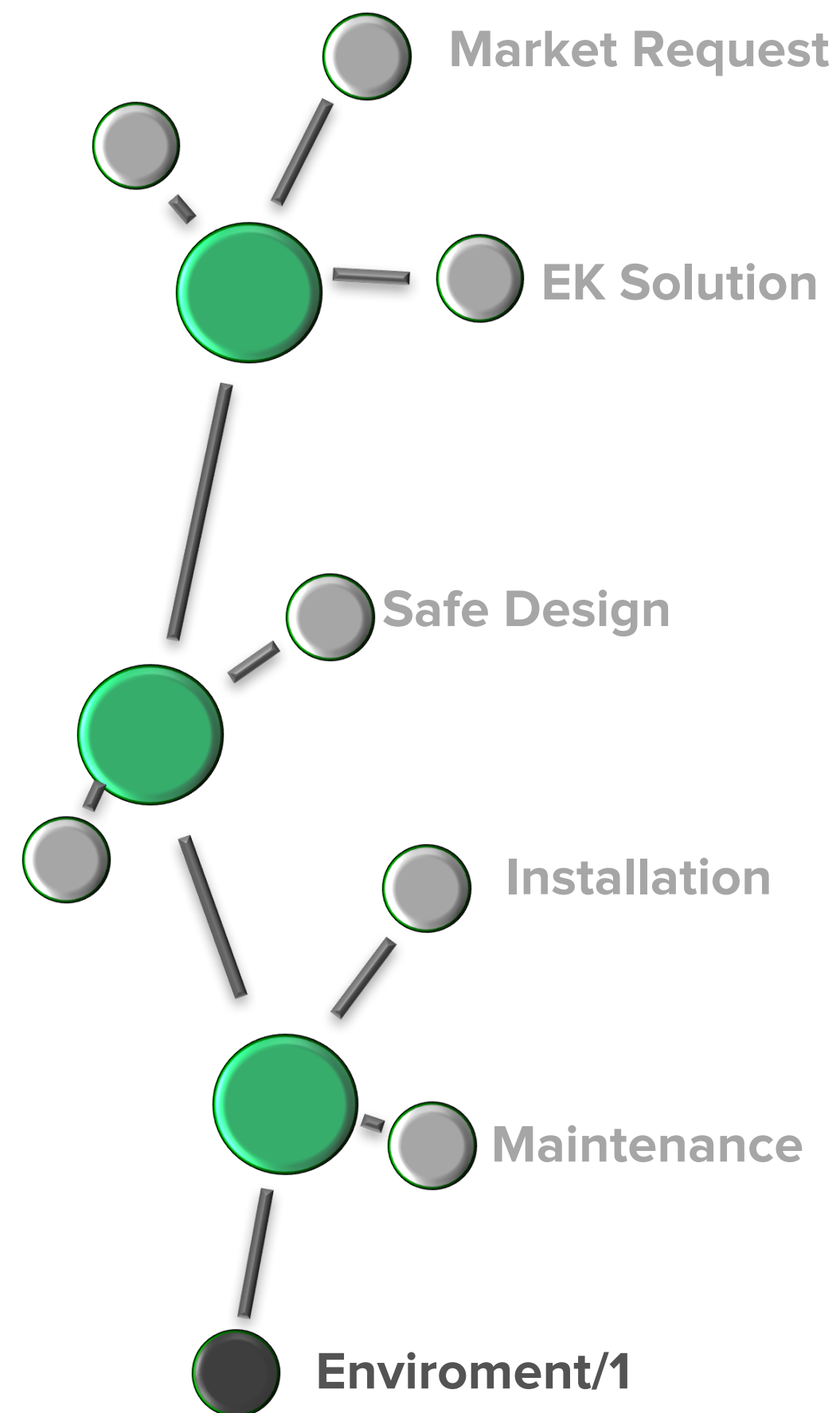
Correct Installation according to European and National Standard

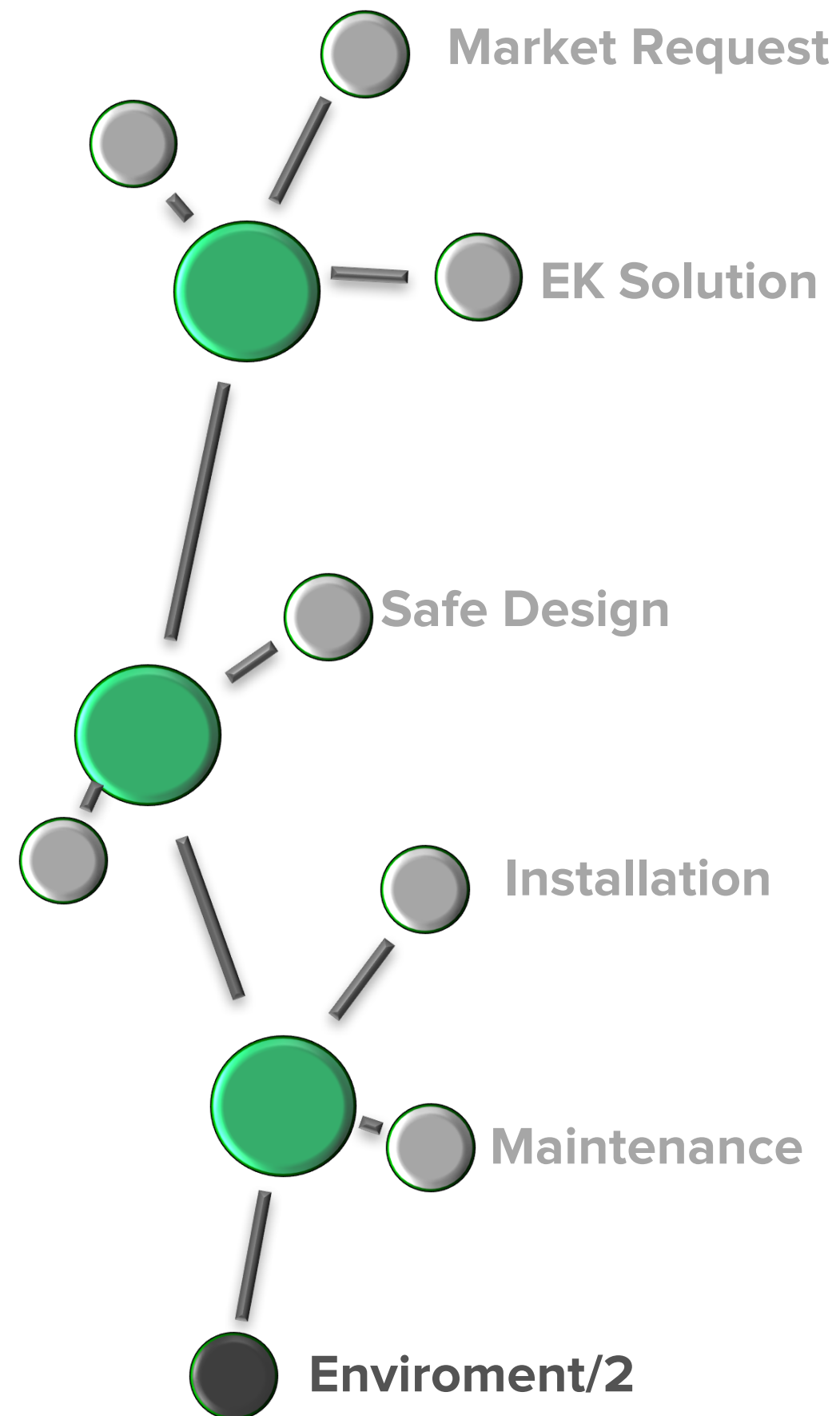


Proper maintenance thanks to extensive Know-how



## ... and what about the enviroment?





	<b>R290</b>	<b>VS</b>	<b>R410A</b>
<b>Cooling Capacity<sup>(1)</sup>:</b>	255 kW		253 kW
<b>Charge:</b>	10 kg x circuit		17 kg x circuit
<b>EER:</b>	2.98		2.86
<b>GWP:</b>	3		2088

<sup>(1)</sup> Reference conditions  
 Ambient air temperature: 35°C  
 Inlet water temperature: 12°C  
 Outlet water temperature: 7°C

Leakage rate: **3%**



<b>Direct CO<sub>2</sub> eq.</b>	<b>0,0036</b> ton.		<b>4,2595</b> ton.
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Direct Savings:  
**99,9%** ton. CO<sub>2</sub> eq.

## Euroklimat R290 Solutions

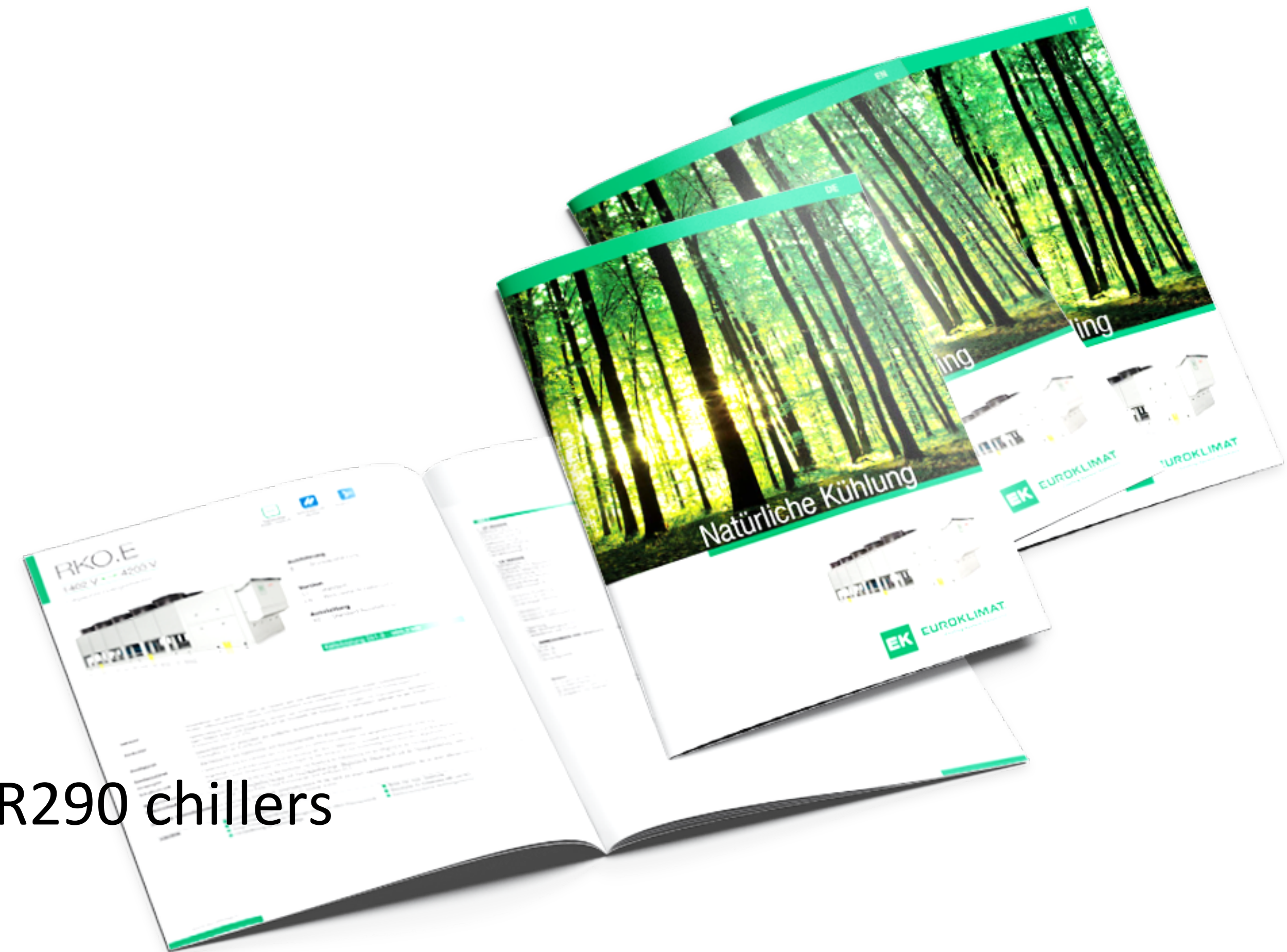
Cooling Capacity: **5 ↔ 1250 KW**

Application:

- **Process**
- **Comfort**
- **Medium Temp.**
- **Low Temp.**

- ✓ More than 10 years of experience in R290 chillers
- ✓ + 400 units installed in Europe

**... come visit our booth for more details!**





**EUROKLIMAT**  
Cooling System Solutions

Propane Chillers Specialist



**ATMO**  
sphere

**Thank you very much!**

