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Chillventa Specialist Forums 2024 Chillventa Fachforen 2024

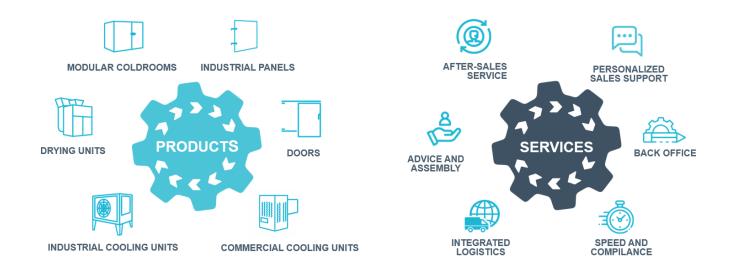
The F-GAS opportunity

CONNECTING EXPERTS.

Pablo Rodriguez – Head of Engineering

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360 solution





of experience in the industry.



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100%

Made in Europe



Turnover in 2023



Professionals

More than 50% of the sales in Export Markets





Berriatua - Bizkaia (Spain)



We are a cooperative of the Mondragon Corporation



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Objective

Reduce ozone layer pollution



Minimise global warming



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GWP < 150 GWP < 2025 Split units From 1 January 2025 Split units From 1 January 2030

According to F-GAS and based on our equipment typology

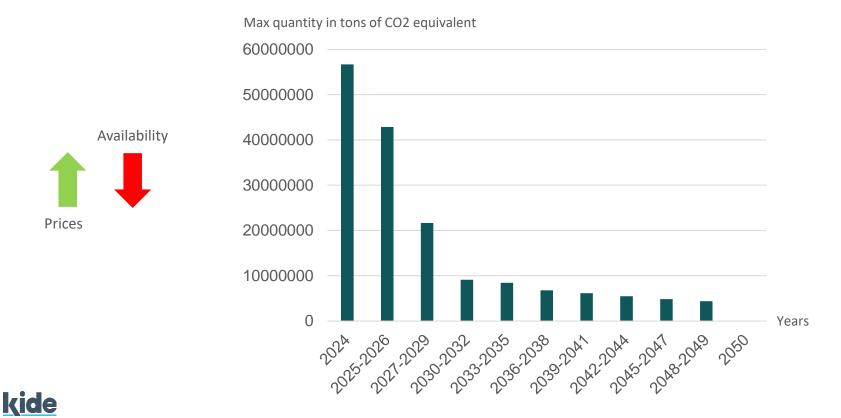






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Reduction in quotas



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Focusing in our partners



• Range of monoblock and split units available to work with R-455A and R-454C refrigerants.



• Range of monoblock units with R290, air and water condensed (up to 500 grams).





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To carry out this development we have had to take into account the following considerations:





Performing theoretical calculations and purchasing components.



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To carry out this development we have had to take into account the following considerations:



MODEL	COMPRESSOR	Gas	LOAD	EXT T ^a	Condenser air output Tª	INT T ^a	Evaporator air output Tª	Discharge T ^a	High pressure	Low pressure	Rec. Tool	Rec. Total	DT cond.	Consumption	Watts heat	Chamber volume
EMB1006M1G	AJ4510P-FZ	R-455A	0.9Kg	8°C	24.8°C	1.3ºC	-3.4°C	73.4ºC	27.2ºC/13.6B	-9.1/2.51B	8.8 K	9 K		3.2 A	1200 W	6 m³
				22.7ºC	29.3ºC	0.6ºC	-3.9°C	81.1ºC	35.8ºC/16.9B	-10.8ºC/2.3B	8.9 K	9.8 K	13.1 K	3.3 A	1100 W	
				32°C	38.8°C	1ºC	-3.3°C	90.6°C	44.5°C/20.7B	-8.5°C/2.6B	7.5 K	9 K	12.5 K	3.6 A	700 W	
				42.2ºC	48.5°C	1.1ºC	-2.4°C	103.4ºC	54.1ºC/25.6B	-7.8°C/2.7B	7.1 K	9.1 K	11.9 K	3.9 A	600 W	



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To carry out this development we have had to take into account the following considerations:



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Range of units ready to work GWP < 150

- Monoblock and split units available to work with R-455A and R-454C refrigerants, air and water condensed. Drying units are also available for hams, sausages and cheeses.
 - High temperature (+12/15°C): 1.2kW up to 90kW
 - Chiller (-5/+10°C): 1.1kW up to 81kW
 - Freezer (-15/-25°C): 0.85kW up to 71kW



- Monoblock units with R290, wall and ceiling, air and water condensed. Glycol chillers are also available.
 - Chiller (-5/+10°C): 0.65kW up to 2.8kW
 - Freezer (-15/-25°C): 0.45kW up to 2.1kW



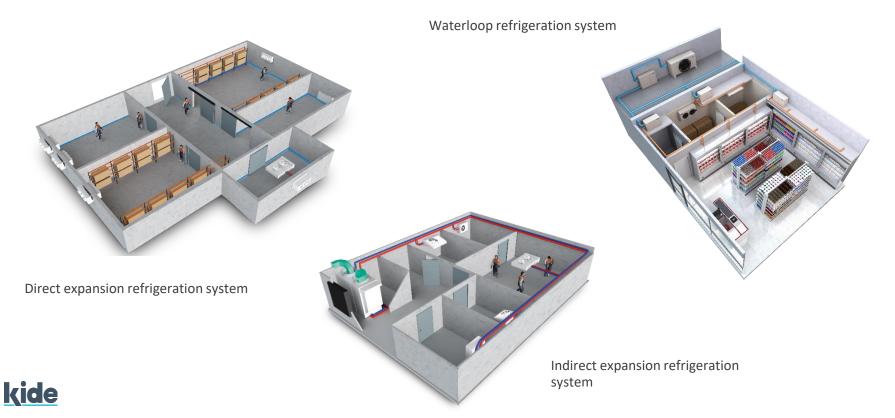






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Sustainable solutions



Case stories Worldwide

kide

- Industrial Freezing units with A2L Leading poultry industry in Lugo (Spain)
- Glycol chiller and waterloop system with R290 Airline catering company in Copenhague
- Glycol chiller with R290 Main Hospital in Madrid (Spain)
- A2L Refrigeration system Central kitchen for Norwegian airlines in Oslo (Norway)

The F-GAS opportunity











Hospital Universitario 12 de Octubre







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CONNECTING EXPERTS. Thank you very much!

Pablo Rodriguez – Head of Engineering