

Industrial & Commercial Heat Pumps

clausius
the heat pump specialists

Technology leader.

clausius.uk

Industrial & Commercial Builds

From large scale agricultural milk cooling plants to commercial offices and social housing schemes, our market leading products offer a wide operating range from -25°C to $+85^{\circ}\text{C}$ and a plant size of up to 1.5MW with full modulation.

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CLAUSIUS STRONG

- Clausius supported full design service for all build projects including retro-fit and new builds.
- Latest technology from leading suppliers with best in class application.
- Best economics and performance throughout the unrivalled product range.
- Monitoring and transparent logging of key performance indicators SPF/CoP/Power.
- Grid friendly product certification guarantees worry free grid application.
- Premium brand components from Honeywell, Copeland Scoll, Alfa Laval, Carell, Wilo and Danfoss for best performance and worry-free operation.

We provide design consultancy to achieve fully controllable heat pump installations using market leading technology.

Our heat pump solutions help commercial industries save with renewable energy.

Visit [Clausius.uk](https://www.clausius.uk) to view our Strong heat pump range.

Clausius heat pumps are designed and continuously developed by the leading European refrigeration expert Professor of Engineering José Fernández-Seara, at the University of Vigo in Spain.

The Clausius range is designed and manufactured by thermodynamic experts with over thirty years experience using the latest scientific research, engineering expertise and build quality that incorporates lead brand components.

Our production plant in Europe enables us to achieve highly efficient, premium quality heat pumps at a competitive price. All our heat pumps are MCS accredited and achieve an ErP A+++ rating. Our UK sales and service team are experts in heat pump technology and installation and offer a nationwide network to support installers and specifiers of domestic and commercial builds.

Rudolph Clausius (1822-1888) was a German physicist, specialising in thermodynamics. He is considered to be one of the first ecologists and predicted 'the future of humanity depends on being able to feed our industries and machines with the only contest of renewable energy'.

- Market leading ErPA+++ rating
- MCS certified
- Easy integration & monitoring



Clausius Strong

Quick Reference Guide

Innovative. Efficient. Reliable.

		H 7-50				HC 7-50				H 12-75				HC 12-75				H 7-100		HC 7-100		H 12-150		HC 12-150	
			PC	DS	PCDS		PC	DS	PCDS		PC	DS	PCDS		PC	DS	PCDS		DS		DS		DS		DS
Integrated Services	Heating	X				X				X				X				X		X		X		X	
	Active Cooling					X								X						X				X	
	Passive cooling		X		X		X		X		X		X		X		X								
	DHW			X	X			X	X			X	X			X	X		X			X		X	
External Applications Control	Circulating pumps control (0-10V)	X				X				X				X				X		X		X		X	
	DHW control	X				X				X				X				X		X		X		X	
	External passive cooling control	X		X		X		X		X		X		X		X		X		X		X		X	
	Pool control	X				X				X				X				X		X		X		X	
	Mixing groups control (5 x 0-10V)	X				X				X				X				X		X		X		X	
	Electrical heater control (3 x 3 kW)	X				X				X				X				X		X		X		X	
Power	Heating power (kW)	7-50				7-50				12-75				12-75				7-100		7-100		12-150		12-150	
	Active cooling power (kW)					9-56								14-78						9-112				14-78	
Efficiency	COP (2)	4.7				4.7				4.8				4.8				4.7		4.7		4.8		4.8	
	EER (3)					6.5								6.7						6.5				6.7	
Refrigerant	Type	R410A				R410A				R410A				R410A				R410A		R410A		R410A		R410A	
	Charge (kg)	3.8	4.0			3.8	4.0			4.8	4.8			4.8	4.8			4.7	4.7		8.2	8.5	8.2	8.5	
Dimensions	WxDxH	600x800x1140				600x800x1140				600x800x1140				600x800x1140				1140x787x1150		1140x787x1150		1140x787x1150		1140x787x1150	
Weight	(kg)	240	276	256	292	251	287	267	303	258	294	274	310	269	305	295	321	430	435	446	451	485	490	501	506
Sound Level	dB 4	52				52				55				55				65		65		80		80	
Power Supply		14A/400V				14A/400V				24A/400V				24A/400V				24A/400V		24A/400V		24A/400V		24A/400V	

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