



# CLADE

## ASPEN RANGE //

50KW – 150KW Hydrocarbon AIR SOURCE HEAT PUMPS

August 2021 //



THE ASPEN //



# LOW CARBON HEATING TECHNOLOGY

Clade CO<sub>2</sub> heat pumps will reduce carbon emissions whilst maximising efficiency with existing cooling and heating systems. Our full-service offering makes heat pumps a simple and low risk way to improve your ESG and operational performance.





## BENEFITS OF THE CLADE ASPEN HC RANGE //

50-200 KW of heating capacity, single unit for easy installation



Integrated electrical control panel to work seamlessly alongside client selected BMS system.

All components are easily accessible for quick and effective maintenance.

Specialist compressors provide a greater operating temperature range and increased COP.

Weather proof housing and galvanised lifting frame for easy positioning on site





## PROVEN PERFORMANCE //



In 2019 Clade supplied a HC heat pump for the Trago Mills store in Devon, which at 12,500 square feet was one of Co-op's larger format stores in the portfolio.

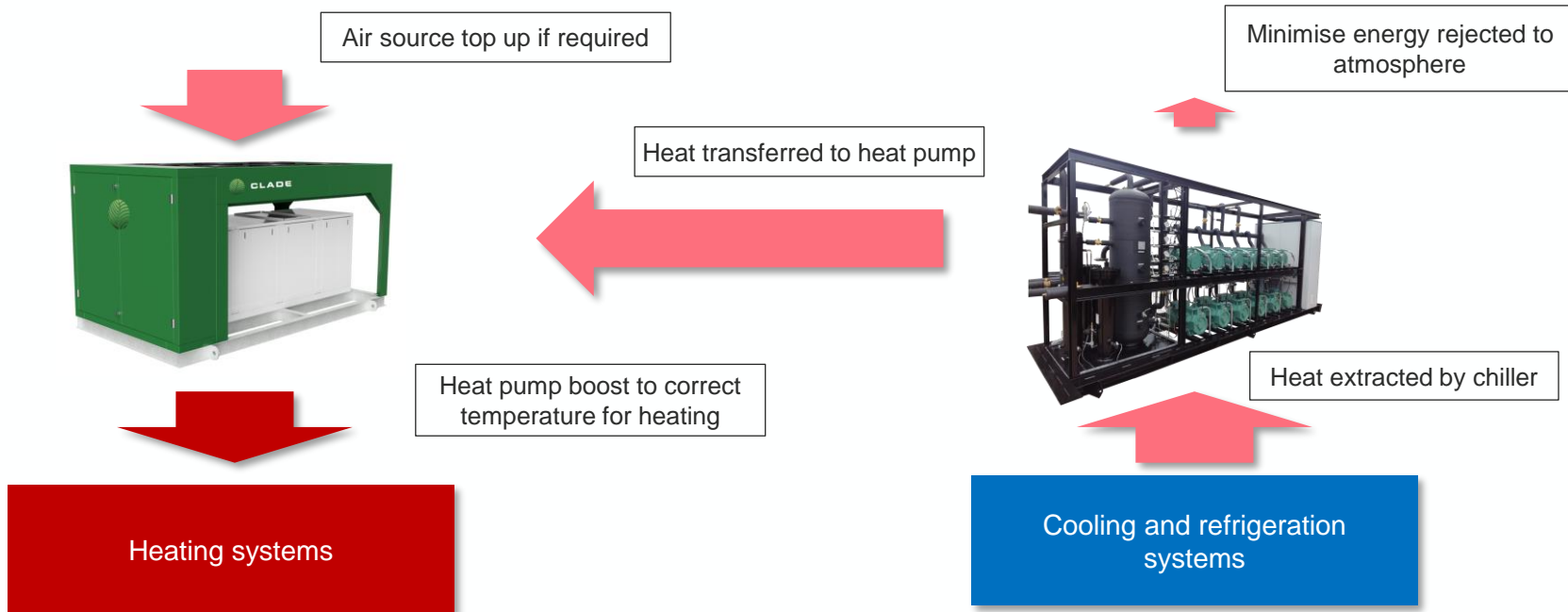
The store has operated for over a year and the measured results are a fantastic reflection of the standard of engineering that Clade delivers.

Seasonal COP is 3.7

	COP		
	MAX	AVERAGE	MIN
June	6.9	4	2.9
July	6.8	4	3.1
August	6.8	4	3.1
September	6.5	3.9	3
October	5.9	3.8	3.1
November	6.5	3.8	2.9
December	7.4	3.5	2.8
January	5.6	3.6	2.8
February	5.2	3.4	2.8
March	5.6	3.4	2.8
April	5.3	3.4	2.8
May	5.6	3.6	2.8



# EVEN BETTER WHEN COMBINED WITH COOLING //



Heat rejected from the cooling system is used to boost the heat pump, even allowing for seasonal variations this improves COP to over 4.5



## UK BASED MANUFACTURE AND TECHNICAL SUPPORT //



- Clade **manufacture** all our products in the **UK** and are committed to continue to do so. This will create jobs in the green economy.
- Clade's **technical team** are based in the **UK** and can provide support before, during and after installation.
- Clade offer an **aftercare service** staffed by highly trained technicians and backed by our technical team.



## ABOUT CLADE //



- UK based
- 35 years of engineering experience
- Leeds manufacturing division
- Delivered first Heat pump in 2019.
- New production facility from August 2021 – increasing capacity by 120 - 130%.
- Project division delivering first class installations – excellent customer feedback
- Committed to sustainable business and sustainable products
- Non leveraged, owner operated



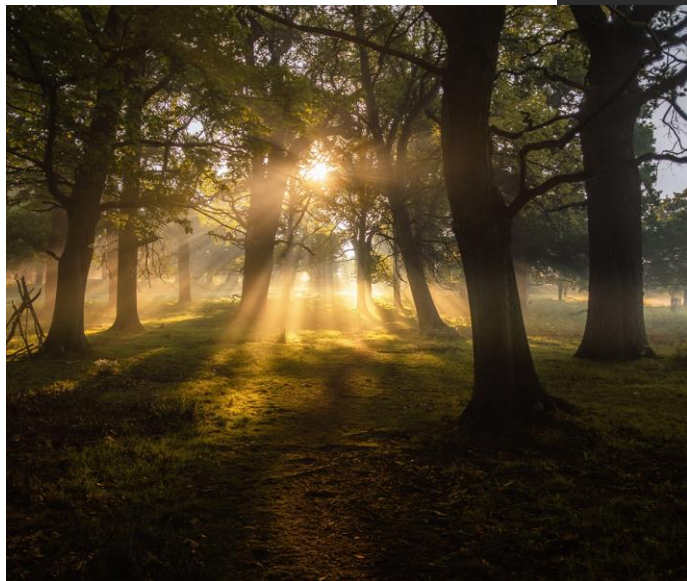
ACCREDITATIONS

ISO 9001: 2015  
ISO14001: 2015  
OHSAS ISO 18001: 2007



CERTIFICATIONS

Alltiss Assured Vendor Award  
Alltiss CDM Vendor Award  
CHAS  
Sales Contractor



THANK YOU //

[www.clade-es.com](http://www.clade-es.com)

[Sales@clade-es.com](mailto:Sales@clade-es.com)

[Aftersales@clade-es.com](mailto:Aftersales@clade-es.com)

Head Office & Registered Office //  
Bristol & Bath Science Park,  
Dirac Crescent, Emersons Green,  
BRISTOL BS16 7FR

The Technology Centre //  
Unit R3 Gildersome Spur Industrial Estate,  
Stone Pits Lane, Morley,  
LEEDS LS27 7JZ

