

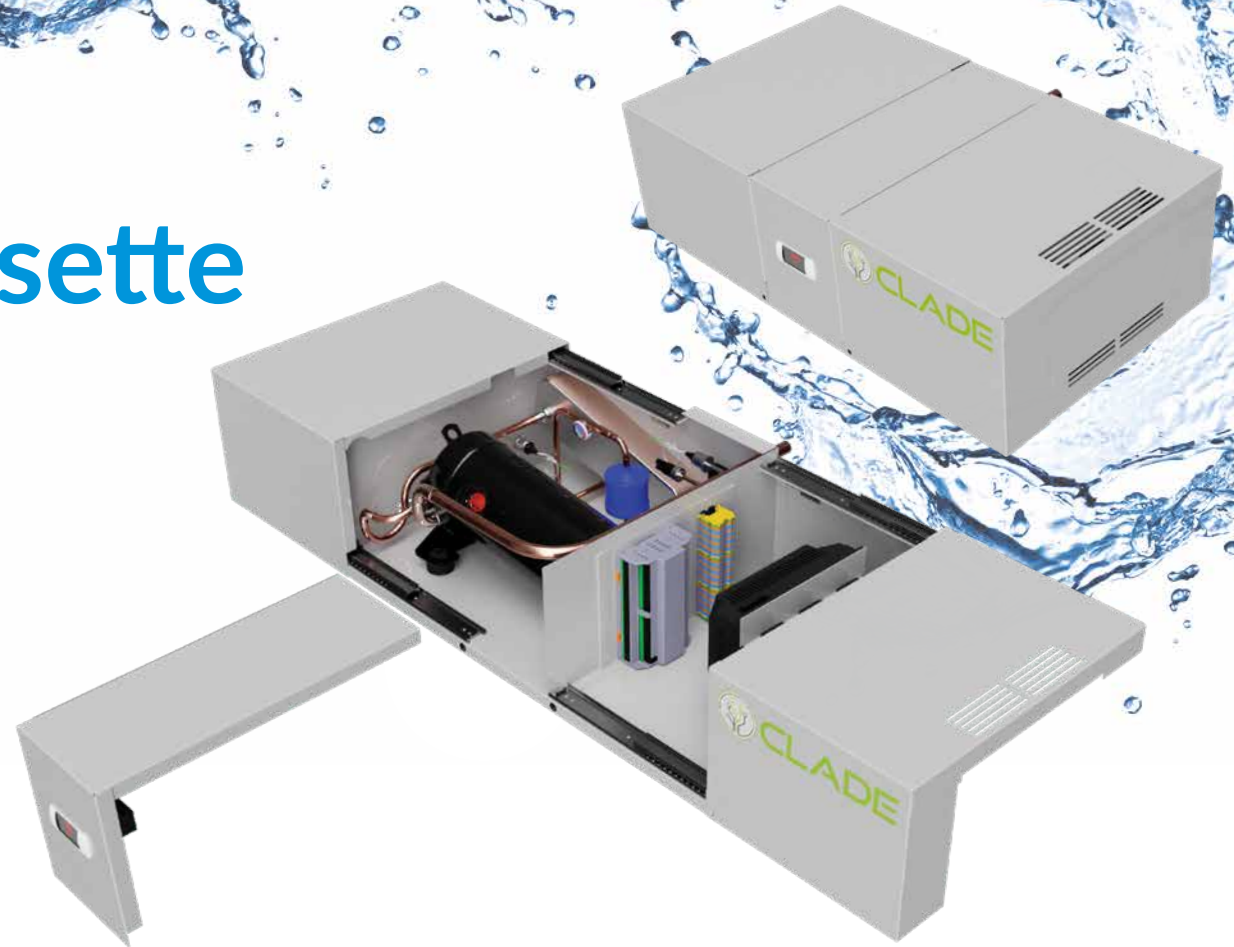
# CE-Hydro Mini Condensing Cassette

The CE-Hydro Mini Condensing Cassette is a variable speed, R290 condensing unit utilising Emerson horizontal scroll technology.

The cassette can be installed on top of a display case (or in the immediate vicinity) and is suitable for new installation or retro fit applications. When coupled with the CLADE dry air cooler and pump station assembly, the heat is transferred out of the store, reducing the need for additional air-conditioning.

The CE-Hydro Mini utilises interior permanent Magnet Motor (IPM) Technology, which provides higher efficiency (drive and compressor), lower noise levels and a wider operating range. This helps to generate annual energy savings in excess of 20%, based on historical UK ambient conditions.

An extended operating envelope and subsequent reduced total cost of ownership makes the CE-Hydro Mini a viable natural alternative for UK retail stores.



3.75 m

Single Unit for  
3.75m Multi-deck  
Cabinet



For Chilled  
or Frozen  
Applications



Excellent  
ROI



Reduced  
Refrigerant  
Charge



Significantly  
Reduced  
Refrigerant Leakage



>20%  
Energy Saving



Enhanced  
Serviceability



Improved  
Reliability



Simplified  
Installation

## KEY BENEFITS:

- 'Plug and Play' Technology
- IPM Motor Technology
- Advanced Electronics:
  - Variable speed management
  - Advanced control and fault detection
- Modbus interaction with store BMS for additional monitoring
- Single phase or Three phase available
- MT or LT
- Large Displacement - enabling one condensing unit for a 3.75m unit

## COMPATIBLE REFRIGERANTS:

- R290 (standard unit)
- R4498A & R449A (on request)
- A2L's (under investigation)

## Capacity Table

Unit Model	Compressor Model	Refrigerant	RPM	Condensing Temp	Evaporating Temp					
					0°C	-5°C	-10°C	-20°C	-25°C	-30°C
HC-021	YBVH021	R290	1500	45°C	1.32	1.1	0.9	0.56	0.41	0.26
		R290	5000	45°C	4.42	3.63	2.96	1.94	1.59	1.34
HC-029	YBVH029	R290	1500	45°C	1.76	1.46	1.2	0.76	0.57	0.38
		R290	5000	45°C	6.01	4.98	4.09	2.7	2.18	1.78
HC-046	YBVH046	R290	1500	45°C	2.76	2.28	1.88	1.26	1.01	0.79
		R290	5000	45°C	9.78	8.16	6.74	4.44	3.54	2.79

Conditions: 10K Suction Gas Return, 0K subcooling

## Technical Data

Unit Model	Compressor Model	Dimensions			Weight	Sound Power (@10m)
		Length	Depth	Height		
HC-021	YBVH021	810mm	455mm	235mm	50 Kg	38 dBA
HC-029	YBVH029	810mm	455mm	235mm	50 Kg	38 dBA
HC-046	YBVH046	810mm	455mm	235mm	50 Kg	38 dBA

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Example dry air cooler