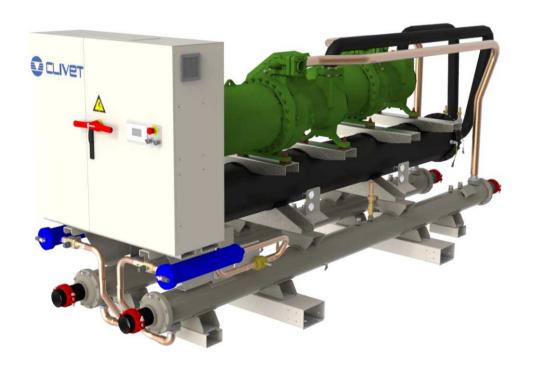




Product Presentation

SCREWLine³

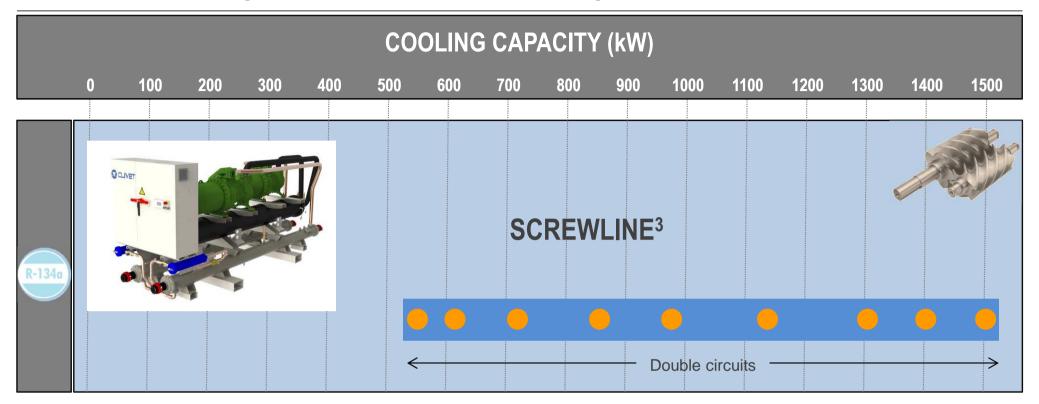
New water-cooled liquid chiller –Screw technology Series WDH-SB3







Water cooled liquid chillers – Screw Compressors



- Range from 573 to 1502 kW
- Two indipendent refrigeration circuits
- Full load efficiency up to **5,26**
- ErP LOT21 compliant
- Perfect for LEED* < 1000 kW



^{*} It satisfies Minimum Energy Performance and Fundamental Refrigerant Management requirements and meets Enhanced Refrigerant Management parameters.

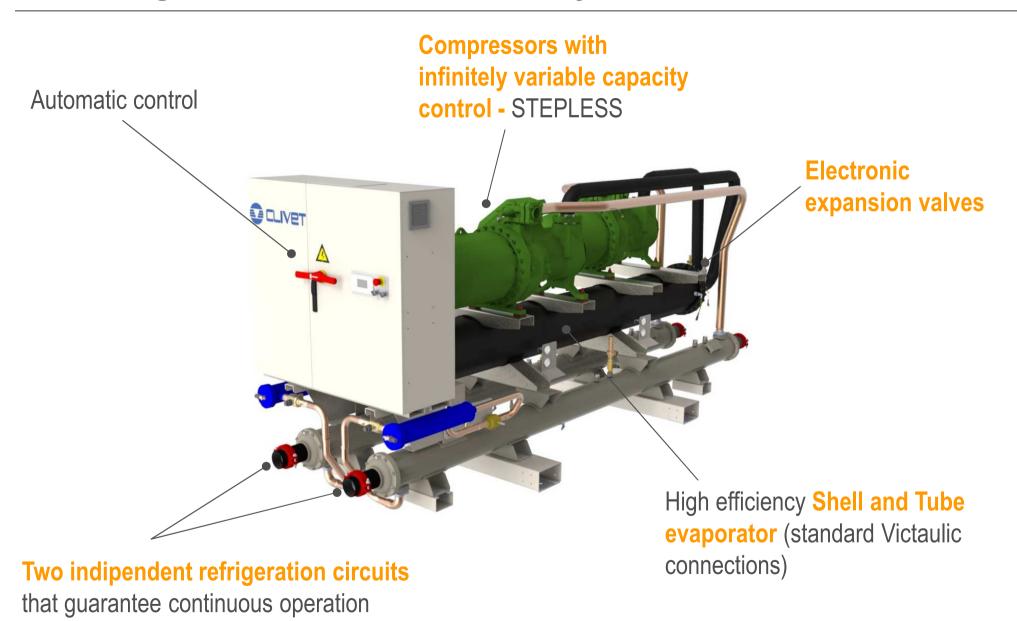


Maximum adaptability to the System needs

- Compact dimensions
- Minimum turndown capacity of 25%
- Two operation versions available:
 - Cooling only operation
 - Water circuit change-over operation
- Two acoustic configurations:
 - Standard acoustic configuration
 - Super-silenced acoustic configuration
- Ideal for industrial applications: Chilled water production down to -8°C (Brine)
- Solutions for energy saving:
 - Partial recovery
 - Total recovery

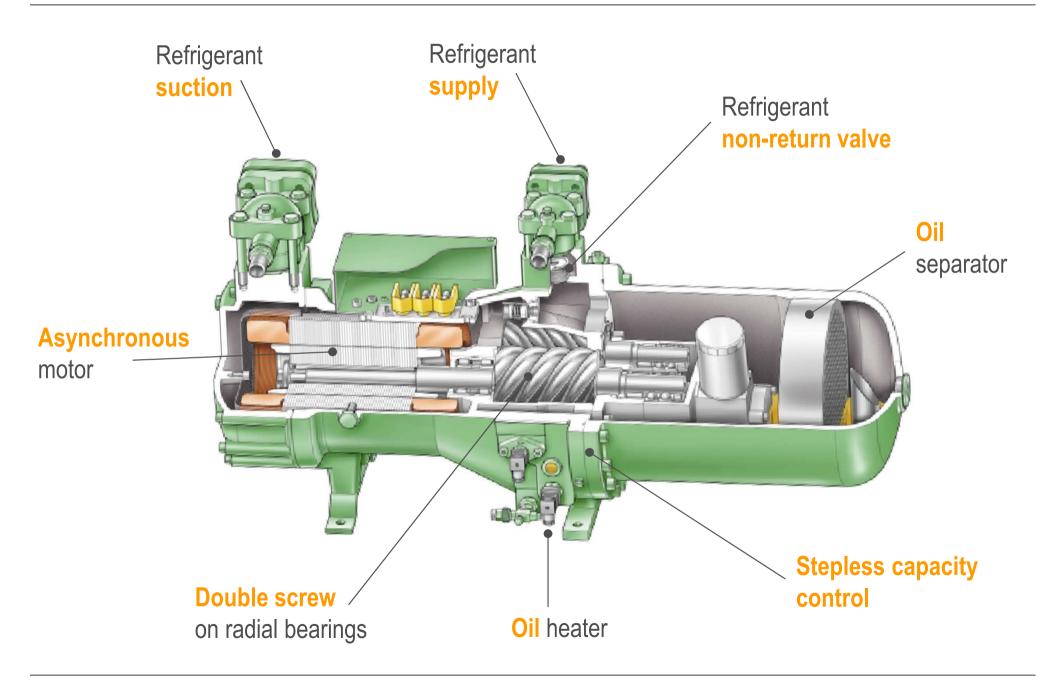


Technologies that increase the efficiency



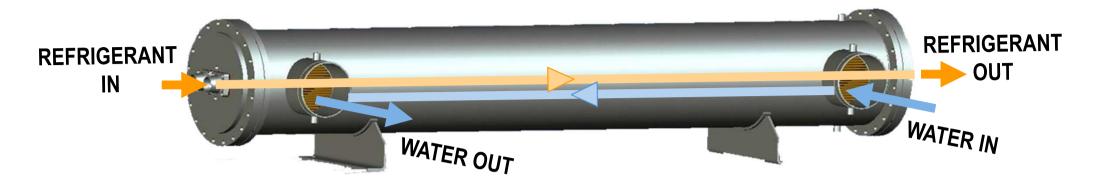


Efficient and reliable screw compressor

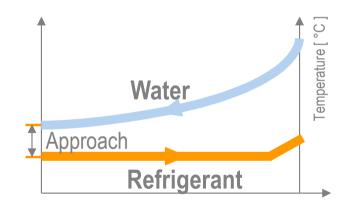




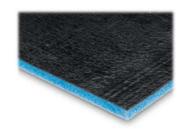
High efficiency dry expansion evaporator



- Very high efficiency (kW/m²) mainly due to:
 - Single-pass and counter-current design
 - New patented refrigerant distributor



Extra thick evaporator insulation for the best thermal break





Main standard features

	EXC
Infinitely variable capacity control of the compressors (STEPLESS)	
Electronic expansion valves	
Phase monitor for electric supply control	
Demand limit for the automatic maximum power consumption limitation	
Single pass high efficiency evaporator	V

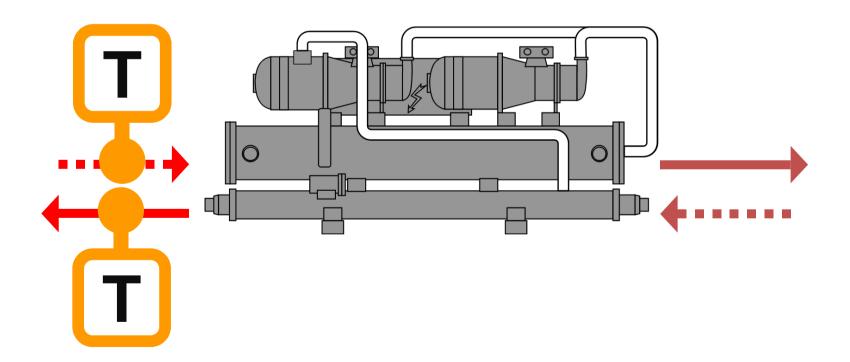




Operation with water circuit change-over

This feature allows:

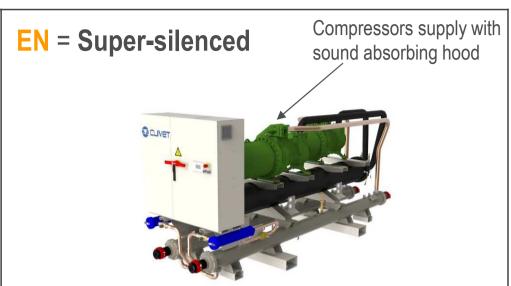
- Hot water production up to +56°C
- Condenser temperature control





Two acoustic versions available







Sound power level reduced up to 4 dB(A)

Low temperature water production

Brine configuration = **Low temperature** of chilled water

- Chilled water between +4°C and -8°C
- Process application or high dehumidification
- Evaporators are complete with thick closed-cell insulation
- Anti-freeze glycol solution is needed









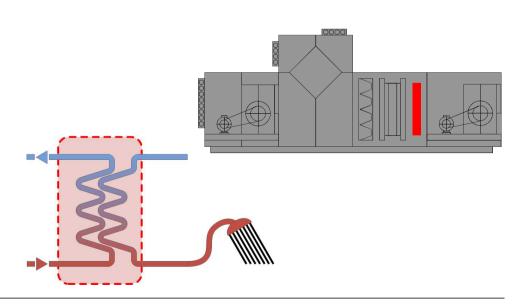
High efficiency of the heat recovery

Recovery of the condensing heat, in cooling mode

- Partial recovery = around 5% of the available heat rejection
- Total recovery = 100% of the available heat rejection

It allows free hot water production for

- Re-heat hot water coil
- Domestic hot water
- Other processes or operation

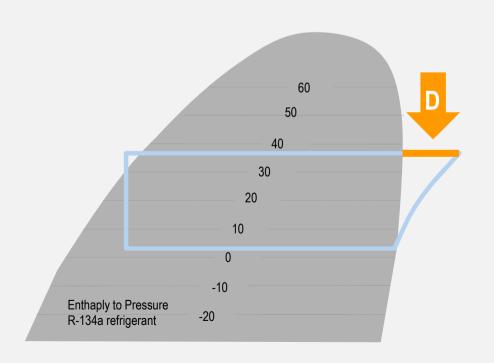


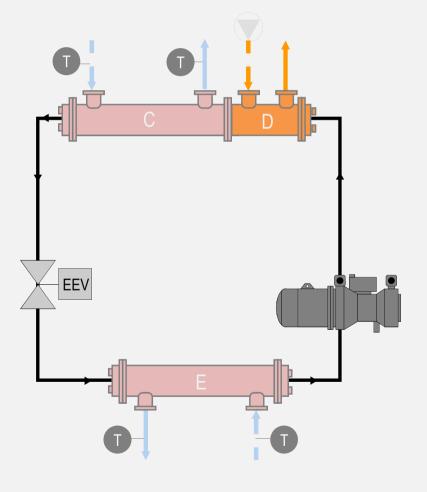


High efficiency of the heat recovery

Partial Heat recovery (D)

- Around 5% of the available heat rejection
- Control is activated by the user



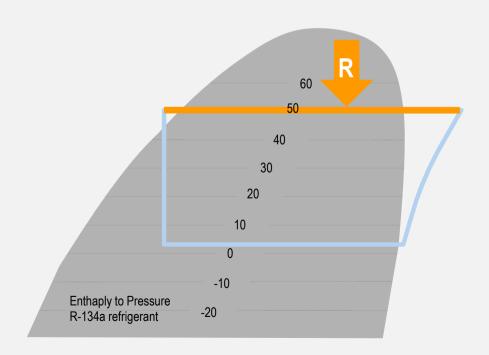


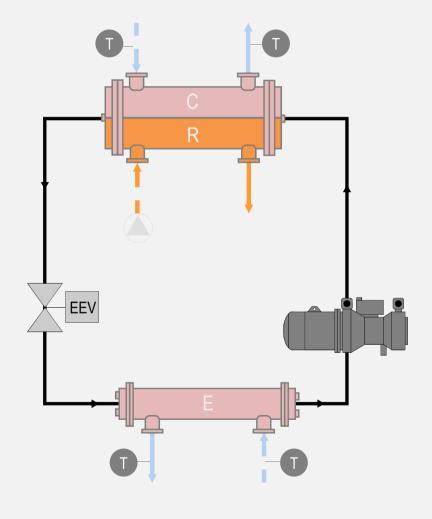


High efficiency of the heat recovery

Total Heat recovery (R)

- 100% of the available heat rejection
- Integrated regulation
- Control is activated by the user



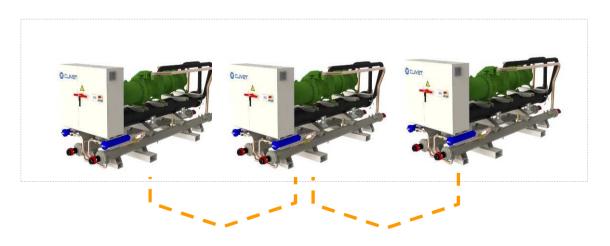




Automatic management of a group of units

Modular system with ECOSHARE management up to 7 units in local network

- Flexible → closely follows the load
- Reliable → a breakdown does not stop the whole system
- Efficient → exploits the condition of maximum efficiency of each unit
- Active management of the pumps → Mode 1: all pumps always in ON
 - → Mode 2: pumps ON only if unit ON







Simplified maintenance

Rapid connections as standard:

Save time for thread or welding



Immediate control of the refrigerant's pressure values:

- Electronically on the user interface
- on the standard supplied high and low pressure gauges



Cutoff valve as a standard:

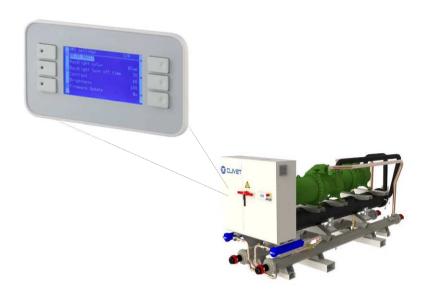
- on compressor supply
- on liquid line



Simplifies and industrializes the plant

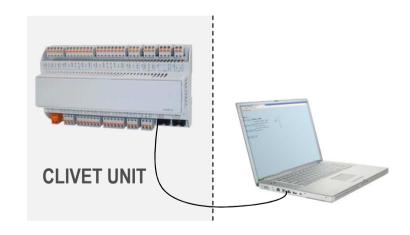
On board display

 Enables to interact easily and immediate with the unit



Connection to the PC through Ethernet port:

 Simplifies after-sales service thanks to the performing diagnostic, updating and for remote assistance tools





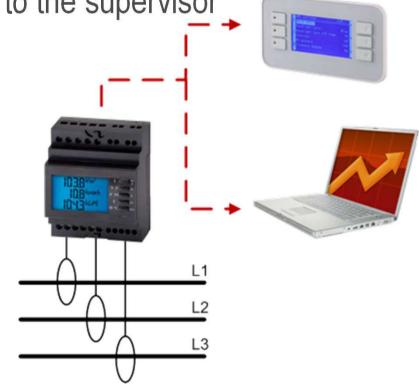
Simplifies and industrializes the plant

Energy measuring

- It displays the main unit's electrical parameters
- It displays them on the unit display
- It trasmits them via the serial connection to the supervisor

The monitored **electrical parameters** are:

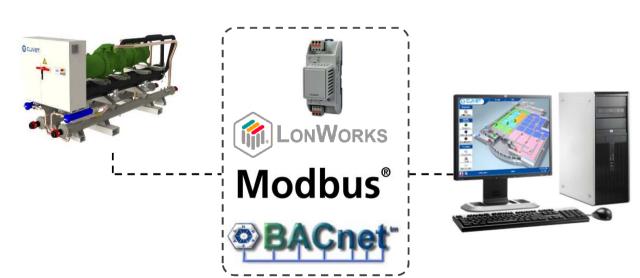
- Voltage/ Current/ Frequency
- Cosfe/ Harmonic components
- Power input/ Energy



Simplifies and industrializes the plant

The unit can be remotely managed by:

- Optional remote control
 - Replicates the on board user interface
- the potential free contacts as standard
- the supervision system
 - through different communication protocols









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