

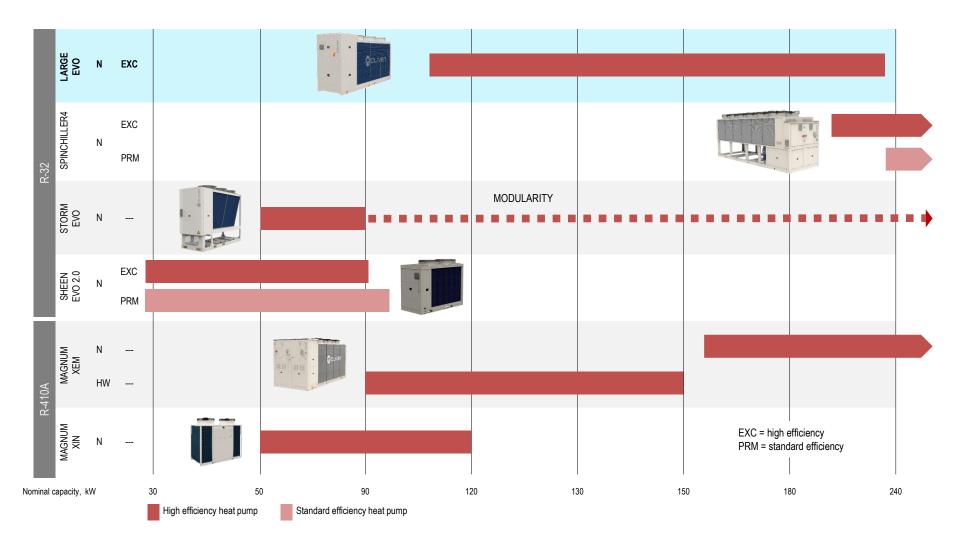
ECLIVET

# Large EVO WiSAN-YEE1 45.4 – 85.4

**Product presentation** 

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## Large EVO: Main features

#### WiSAN-YEE1

#### Suitable for harsh climates:

- Leaving water temperature up to 60°C
- Minimum OAT down to -20°C

#### Outstanding seasonal efficiency both in heating and

cooling

- SCOP(W35) up to 4,22
- SEER(W7) up to 4,48
- Quieter operation thanks also to silent and super-silent versions available
- ➤Modular operation up to 8 units

Nominal cooling capacity: (A35/W7) from 115 to 233 kW Nominal heating capacity: (A7/W45) from 118 to 268 kW









## Large EVO: Capacity range

#### WiSAN-YEE1

Capacity range: 115 - 233 kW

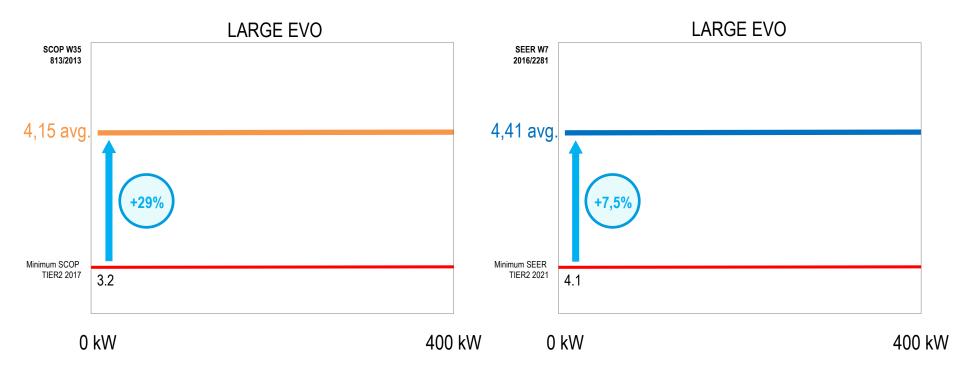
Series	WiSAN-YEE1 45.4 - 85.4										
Size	45.4	50.4	55.4	60.4	65.4	70.4	75.4	80.4	85.4		
Cooling Capacity [kW] (A35/W7)	115	127	139	152	164	176	196	215	233		
Heating Capacity [kW] (A7/W45)	118	130	150	170	190	210	230	250	268		
Layout											
Compressors / Circuits	4,	/2	4/2		4/2						
Compressors type	Rotary	inverter	2 Rotary / 2 S	Scroll inverter	Scroll inverter						
Fans	2 Brushless DC motor				3 Brushless DC motor						
Length [mm]	3310				4300						



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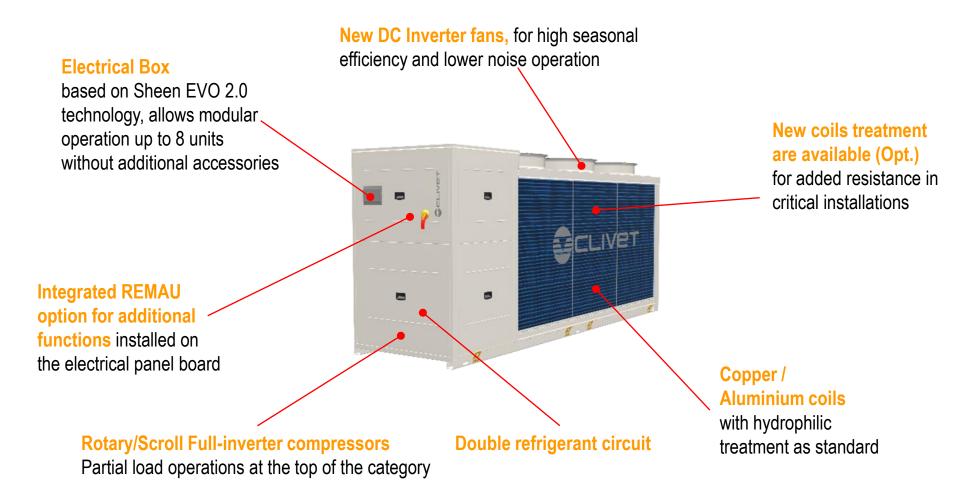
## Large EVO: Seasonal Efficiency

WiSAN-YEE1 is characterized by very high seasonal efficiency values, largely overcoming the Erp requirements both in cooling and heating





## Large EVO: High performances technology





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#### User interface in common with Sheen and Storm units

New generation integrated user interface, that guarantees a complete control solution:

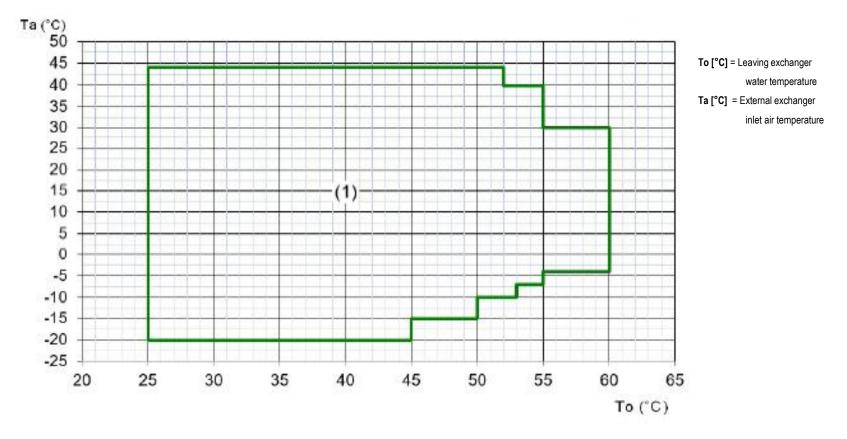
- Unit ON/OFF
- Auto-restart function
- Time setting: 12H/24H
- Timer ON/OFF setting, Day/Weekly
- Display components status
- Query, malfunction code, parameters
- Two multi-authorization control levels
- Modbus connection as standard
- Connection of up to 16 units in parallel
- Adapt for remote use
- Optional Serial communication module for BACnet-IP supervisor
- Optional Serial communication module for BACnet-MSTP supervisor



## Large EVO: Limiti operativi in riscaldamento

Minimum outdoor temperature = -20°C

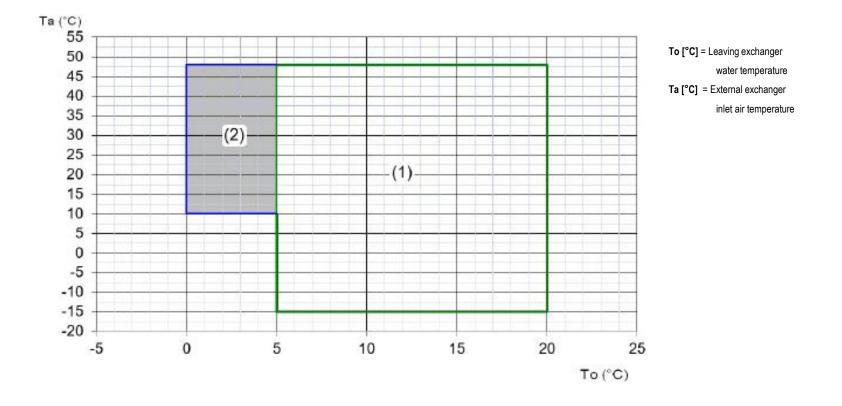
Maximum water temperature = +60°C



1. Standard unit operating range

# Large EVO: Limiti operativi in raffreddamento

Maximum outdoor temperature = +48°C Minimum water temperature = +0°C



1. Standard unit operating range

2. Operating range where the use of glycol is mandatory in relation to the temperature of the outlet water from the user side exchanger

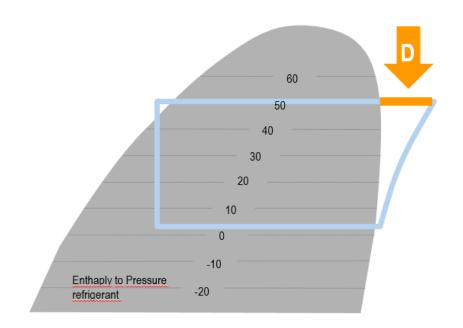


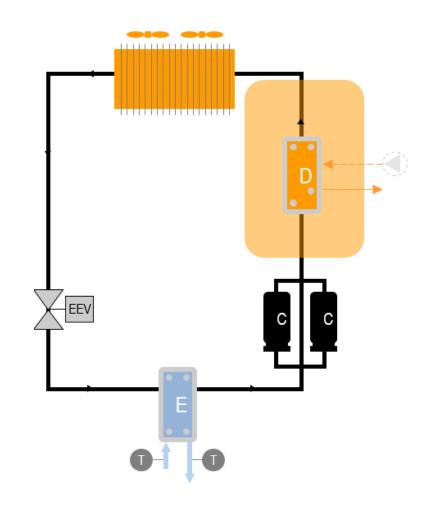




#### **Partial heat recovery (D)**

- Around **24%** of the available heat rejection
- Control is activated by the User







#### **DHW mode**

Large EVO allows the DHW production up to 60°C, directly managing the main components of the system.

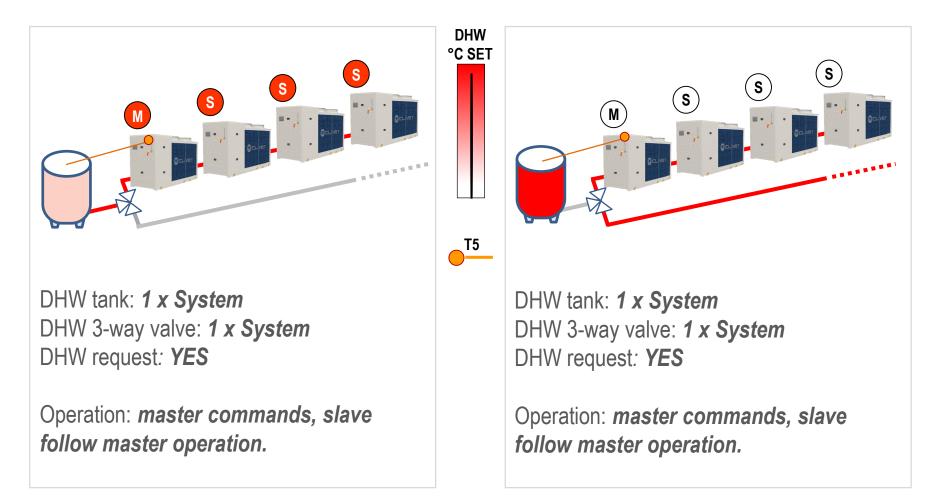
- > Management of domestic hot water has **priority** over the system
- > The **3-way valve** is available as **a built-in** solution





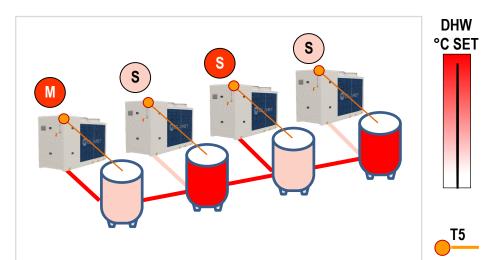


#### Modular system: DHW management





#### Modular system: DHW management



DHW tank: **1** *x* **Unit** DHW 3-way valve: **1** *x* **Unit** 

Operation: *independent. Each unit manages its own DHW production.* 



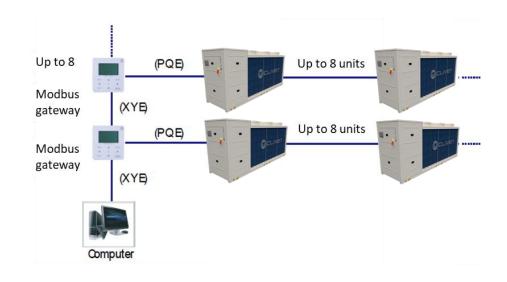


# Modularity

- Management of up to 8 units in a local network
- Up to **1860kW** of installed capacity (cooling)
- Easy to connect and set the system throught the user interface
- Possibility to manage it throught a BMS system thanks to the Modbus connection as standard

# Which benefits?

- ✓ System efficiency increased
- ✓ Higher reliability
- $\checkmark$  Simplified handling and installation
- ✓ Scalability





## Large EVO: Energy metering

The energy calculation function is implemented in the HMI without any additional device, and will be possible to look at the following parameters:

STATE QUE	DV	STATE OUEDV				
POWER OU	100	KW				
POWER INP			KW			
CURRENT E	FFICIENCY		2			
TOTAL ENER	RGY OUTPUT	10	MWh			
TOTAL ENER	RGY INPUT	3	MWh			
BACK	2/2	\$	<►			
•						
>	V					

- Power output = produced power in kW
- Power input = absorbed power in kW
- Current efficiency = EER/COP
- Total energy output = cumulative produced power in MWh
- Total energy input = cumulative absorbed power in MWh

All energy meter display items are available with Modbus





#### **Auxiliary heater control**

New Large EVO will allow also hybrid version in combination by **third-party** heater, thanks to auxiliary heater control:

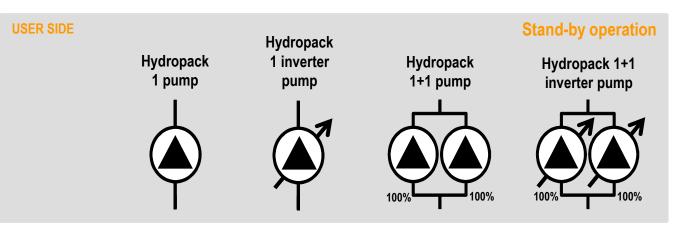
- > ON/OFF signal
- > Auxiliary operation when the heat pump does not work
- > Auxiliary operation with low ambient temperature
- > Auxiliary operation when the heat pump capacity is not sufficient
- > Auxiliary operation when DHW starts and stops frequently
- > Auxiliary operation when the tank temperature is too low
- Sterilization process



Optional integrated pumping groups save:

- Time and cost for the **set-up**
- Floor area for pumping equipment and relevant clearance

Options available with standard and high head:



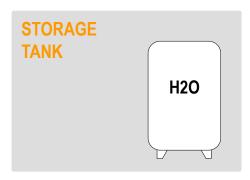
With inverter pump, the unit can manage variable water flows



#### Storage Tank (optional):

Recommended for applications with insufficient water content for the properly function of the unit:

Size	45.4	50.4	55.4	60.4	65.4	70.4	75.4	80.4	85.5
Storage Tank Capacity [Liters]	300	300	300	300	500	500	500	500	500









#### Drain pan layout for easy maintenance

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