Air Conditioning

SYSAQUA BLUE

R290 air-cooled chiller & heat pump

R290

systemair

New

SYSAQUA BLUE

R290 air-cooled chiller & heat pump

- Super eco-friendly
- Very high efficiency
- Extended operating limits
- Low footprint
- Easy maintenance
- Remotely controllable with AC CLOUD
- 100% factory tested

R290

Think GREEN,
PICK BLUE !

- **31,7 kW**
- **35,4 kW**
- **Plate** heat exchanger
- **Scroll** compressor

ErP

A+

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

Care about the environment ...

SYSAQUA BLUE is born from a perfect combination of new green technology and our existing SYSAQUA product range, already known for its reliability and high performance.
It operates with the natural R290 (propane) refrigerant, offering a green alternative for any project. It has the huge double benefit of increasing the efficiency and the performance of the unit and limiting the impact on the environment thanks to one of the lowest GWP.

R290

Each unit using the natural R290 refrigerant instead of R410A can save a CO_2 emission equivalent to the average emission of a car on a 42,000 km journey; the equivalent of one complete trip around the globe.

One of the most eco-friendly REFRIGERANTS

3 **G**lobal **W**arming **P**otential

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... and get greater efficiency.

In addition to having almost no impact on the environment, the natural R290 refrigerant also significantly improves the energy efficiency of the unit.
The high seasonal efficiency levels enable considerable energy savings over the years.
According to European standards, 5,000 EUR can easily be saved during the product's life cycle.

SYSAQUA BLUE can also be equipped with a variable speed pump that automatically adjusts its speed according to the required capacity. Compared to a fixed speed pump, and according to the operating profile of a pump working at partial load, **the annual energy consumption of the pump can be reduced by up to 70%!**

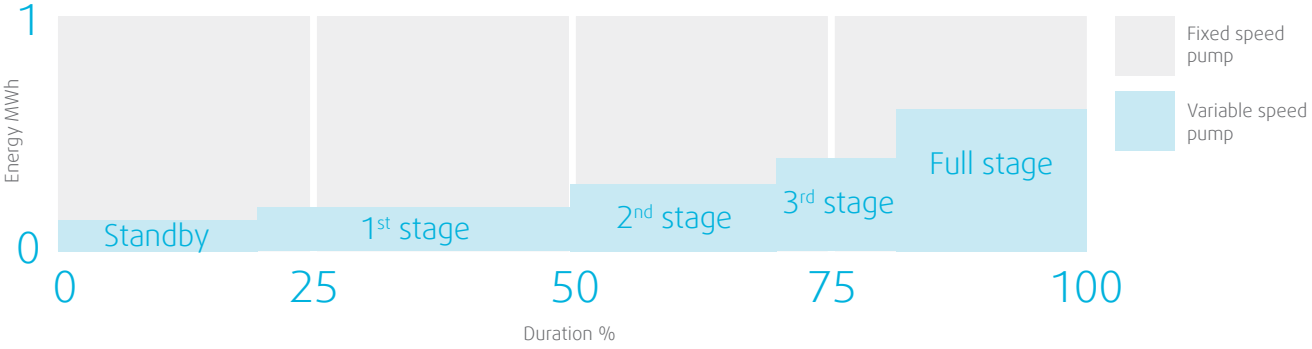
SEER
4.33

SCOP
3.54

A+

Energy efficiency class (SCOP)
According to Delegated Regulation
No. 813/2013 of the European Commission

Energy consumption
Fixed speed pump vs variable speed pump



Enter the era of connected units

AC CLOUD

Systemair's aim is to offer more than reliable products. From that perspective, we created AC CLOUD. With this new software, you will **take full control of your units from anywhere, at any time.**

To go even further, **AC CLOUD also impacts your energy consumption and maintenance**, allowing you to make significant money savings: Indeed, over 15 years, 85% of the real cost of a unit is represented by these two components.

Technical features

SYSAQUA BLUE L - Cooling only				
Performance				
Cooling	Cooling Capacity [1]		kW	31,7
	Power input [1]		kW	10,2
	EER [1]			3,10
	Energy efficiency class (EER) [1]			A
	ErP*	SEER [4]		4,33
		η_{sc} [4]		170
	Nominal water flow (in the evaporator)		m^3/h	5,4
Sound power level (STD fan) [5]			dB(A)	83
Sound pressure level at 10 m (STD fan) [6]			dB(A)	55
Power supply voltage				400V/3~N/50Hz

SYSAQUA BLUE H - Heat Pump				
Performance				
Cooling	Cooling Capacity [1]		kW	31,7
	Power input [1]		kW	10,2
	EER [1]			3,10
	Energy efficiency class (EER) [1]			A
	SEER [4]			4,33
	η_{sc} [4]			170
	Nominal water flow (in the evaporator)		m^3/h	5,4
Heating	Heating Capacity [2]		kW	35,4
	Power input [2]		kW	10,3
	COP [2]			3,45
	COP [3]			4,16
	ErP**	SCOP [4]		3,54
		Energy efficiency class (SCOP) [4]		A+
		η_{sh} [4]		139
	Nominal water flow (in the evaporator)		m^3/h	6,1
Sound power level (STD fan) [5]			dB(A)	83
Sound pressure level at 10 m (STD fan) [6]			dB(A)	55
Power supply voltage				400V/3~N/50Hz

SYSAQUA BLUE			
Hydraulic data			
Type of water connections (evaporator)			Male gas threaded
Water Inlet/Outlet diameter		inch	1"1/2
Weight			
Operating weight without water tank - 1 pump		kg	332
Operating weight with water tank - 1 pump		kg	497
Dimensions			
Length		mm	1.000
Width without/with water tank		mm	1.000 / 1.507
Height (STD fan)		mm	1.983
Height (HPF fan)		mm	2.025
Minimum water volume in the system			
SYSAQUA BLUE L	Comfort application	L	110
SYSAQUA BLUE L	Process application	L	315
SYSAQUA BLUE H	Comfort & process applications	L	443

[1] According to EN14511-2018: chilled water inlet/outlet temperature: 12/7°C, outdoor ambient temperature 35°C DB.
[2] According to EN14511-2018: warm water inlet/outlet temperature: 40/45°C, outdoor ambient temperature 7°C DB/6°C WB.
[3] According to EN14511-2018: warm water inlet/outlet temperature: 30/35°C, outdoor ambient temperature 7°C DB/6°C WB.
[4] According to EN14825.
[5] Sound power level values refer to the ISO 3744 standard.
[6] Sound pressure levels refer to the ISO 3744 standard, parallelepiped shape.
* 2021 ERP Compliant: Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers <400kW
** ERP Compliant: Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps

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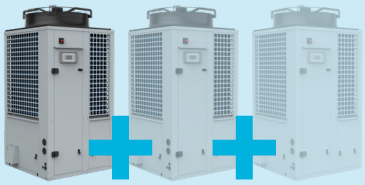
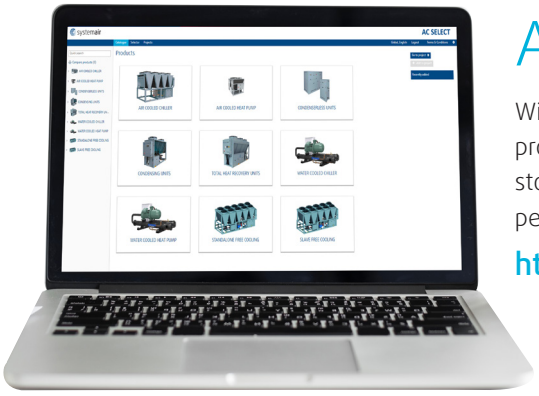
GET IT ON Google Play

Complete documentation available on the Systemair app **MEDIA CENTER** and on **www.systemair.com**

BOOST your capacity up to **210 kW**



by combining up to 6 units together.

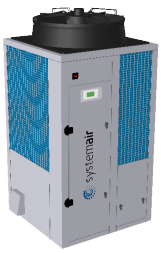


AC SELECT

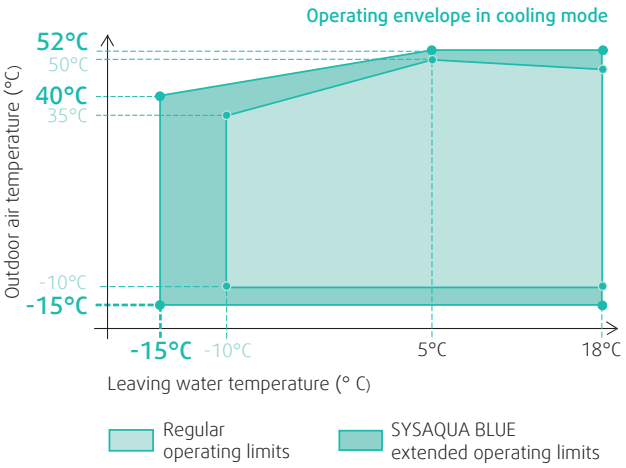
With the new Systemair online selection program, easily and quickly select and customize the air conditioning products that perfectly satisfy your requirements.

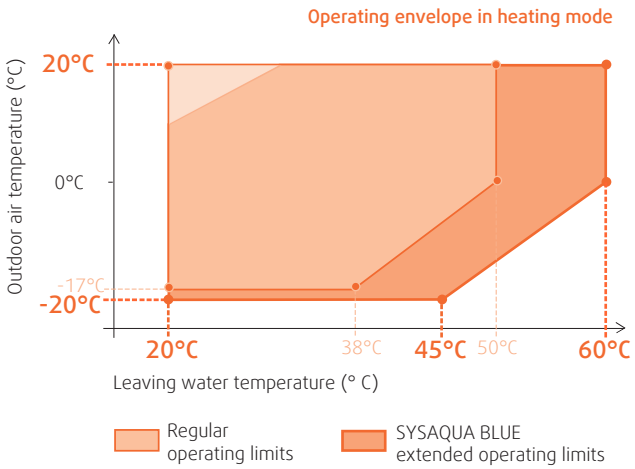
https://acselect.systemair.com

BIM models available on **www.magicad.com**



Extended operating limits





Design & Conception

Fan speed control - option
The fan can be equipped with a temperature condensation control technology.

Controller
This new high standard control system provides excellent pressure control, as well as global and optimized unit management.

Condenser
Highly optimized heat exchanger design enables a refrigerant charge reduction of 50%: **Less than 3 kg of propane (R290).**

Electronic expansion valve
This reliable and high-performant valve minimises overheating of the evaporator. It is directly managed from the control system.

Variable speed pump - option
A variable speed pump can be added to the unit for even greater energy savings.

Removable panels
Great accessibility to internal components for service operations.

Safety ventilation system
If Propane (R290) is detected by the leak detector, the unit stops running immediately.
In addition, a self-contained ventilation system ensures venting of gas to the outside of the unit.

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