



Product catalogue **A25s**

Solar Cooling systems



COOLING POWERED BY NATURE

The Purix Solar Cooling system helps you building a green tomorrow without compromising the basic needs for a comfortable and healthy indoor environment - where and when you need it.

Powered by solar heating and designed for water as natural refrigerant, PURIX systems provides cooling and air conditioning from natural resources.

Applying conventional absorption cooling technology for replacing expensive electricity with solar heating, a PURIX solar cooling system is a great opportunity for reducing costs, environmental impact and greenhouse gas emissions.

FLEXIBLE DESIGN

The patented system design is ideal for replacing traditional split cooling and air conditioners in a wide range of applications, e.g. retail, offices, households, clinics, hospitals, sports facilities, institutions, hotels, restaurants and bars, schools, storages or data & telecom installations.

A flexible product design recognizes the need for integration with the interior design and architecture, and supports various types of indoor units.

Depending on the building layout and cooling demand, the systems support mono- and multi split installations, and may be configured into systems with increased capacity.

PRODUCT FEATURES



Low electricity consumption reduces energy costs.



Applies pure water as natural refrigerant.



Cooling based on low temperature thermal energy sources instead of electricity (solar thermal energy, district heating, waste heat etc.)



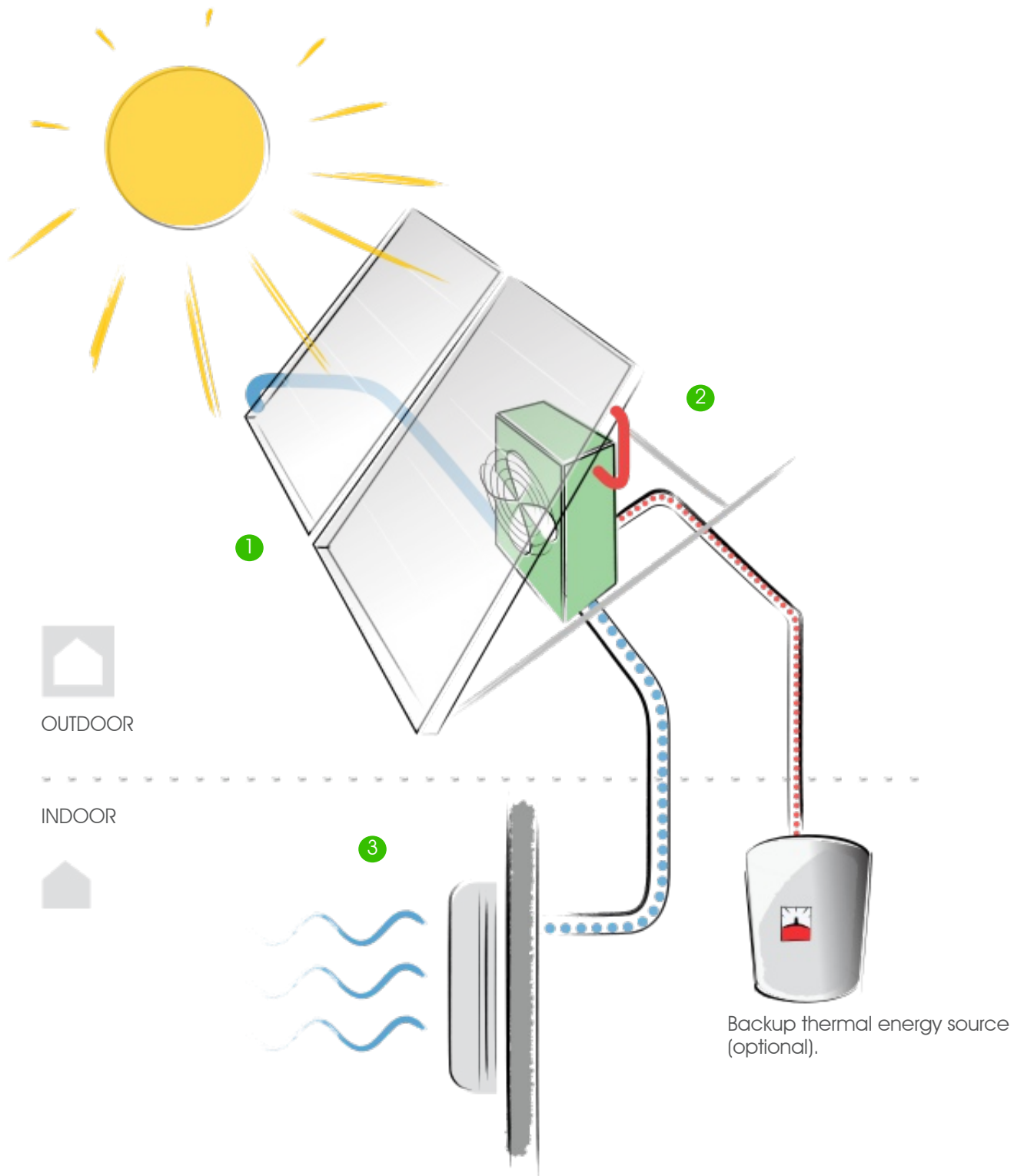
Flexible design for match with interior design and architecture
- various fan coil types,
- mono & multi split design.



Low noise level.



Gently heats and cools without drying out the indoor environment.



A PURIX Solar cooling system consists of three main parts:

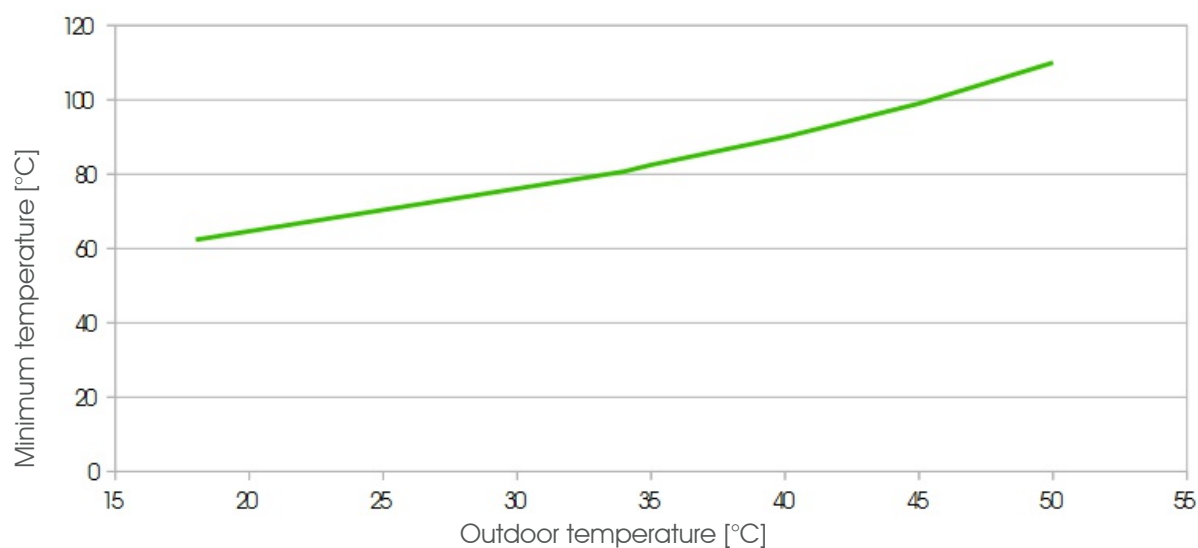
- ① - Solar thermal collector
- ② - Outdoor unit (Chiller)
- ③ - Indoor unit (Fan coil)

SPECIFICATION

PURIX Chiller A25s

Type	Chiller for mono- & multi split installation (up to 3 indoor units)	
Technology	1-stage absorption chiller (LiBr-H ₂ O), air cooled	
Refrigerant	R718 (water)	
Chilled Water		
Fluid	Chilled water (freeze protected)	
Capacity [kW]	2,5 (nominal at 35°C outdoor temperature)	
Temperature [°C]	13 / 18 (supply/return)	
Pressure, max. [BarG]	0,5	
Connections	G1/2"	
Backup heat supply		
Power [kW]	3,1 (at 35°C outdoor temperature, $\Delta T = 5^{\circ}\text{C}$)	
Temperature [°C]	Varies with outdoor temperature*	
Pressure, max. [BarG]	3	
Connections	G1/2"	
Electricity demand [W]	< 150	
Noise level [dB(A)]	< 45	

*Thermal energy source, supply temperature requirements



SPECIFICATION

Fan coils*

		High Wall	Cassette	Floor/ceiling
Cooling capacity	[kW]	2,5	2,5	2,5
Electricity consumption	[W]	<50	<110	<80
Air flow	[m³/h]	500/410/360	600/560/530	1000/750/500
Noise level	[dB(A)]	<48	<47	<47
Dimensions (LxWxH)	[cm]	94x20x30	84x84x19	130x19x60
Weight	[kg]	13	27	34
Connections				
- Chilled water	[Inch/mm]	1/2" / 12,7	3/4" / 19,05	3/4" / 19,05
- Drain	[mm]	15,6	33	33
User interface, std./optional			Remote / wired controller	

PRODUCT FEATURES

Silent mode	●	●	●
Multi speed fan	●	●	●
Auto cleaning	●	●	●
Washable filter	●	●	●
Condensate pump		●	

*Other fan coil types an and capacities are available upon request.



High Wall mounted



Cassette



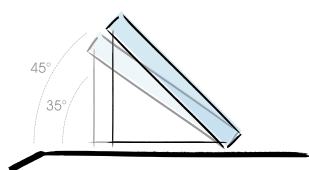
Floor/Ceiling

SPECIFICATION

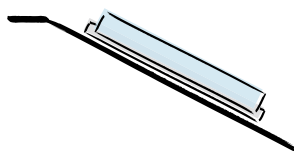
Solar Collectors

Type		Flat plate collector
Gross area	[m ²]	2,51
Absorber area	[m ²]	2,3
Aperture area	[m ²]	2,39
L x W x H	[mm]	2150 x 1170 x 83
Weight	[kg]	42
Material, frame		Aluminium
Absorber		Meander, Al – high selectiv vacuum coating
Absorption	[%]	95
Emission	[%]	5
Glass, thickness	[mm]	3,2 (tempered)
Transmission	[%]	90
Insulation	[mm]	40 (mineral wool)
Stagnation temperature	[°C]	max. 234
Certificates		EN12975-1 / EN12975-2 / CEN Keymark
Warranty	[years]	5

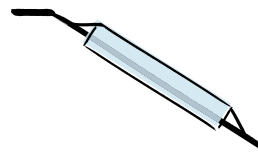
Collector mounting kits



Flat roof/ground

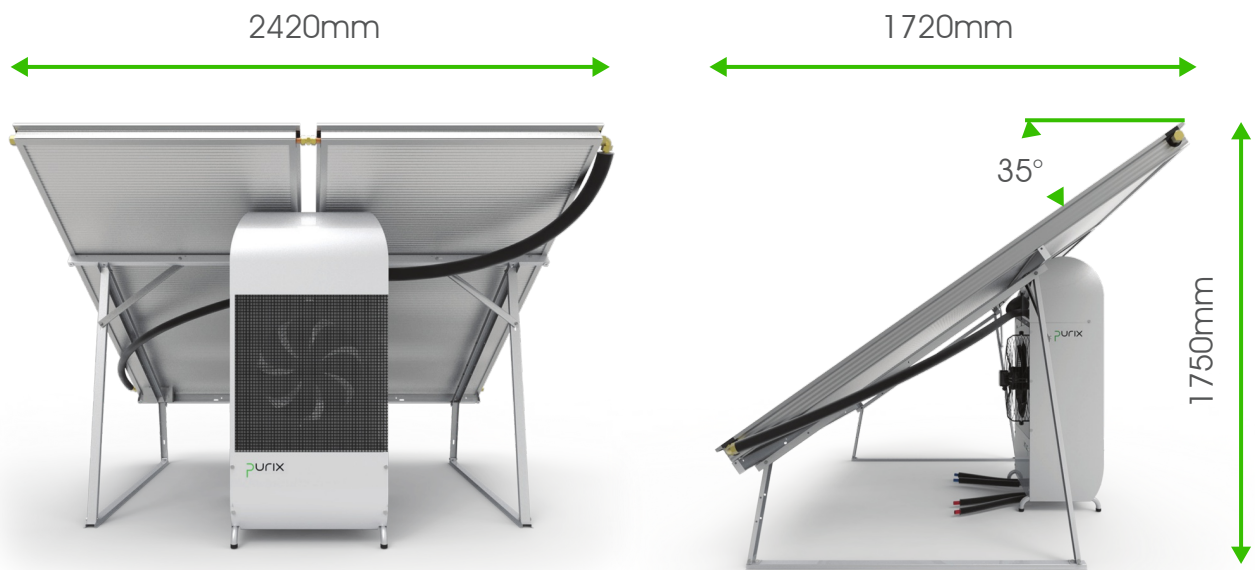


On-roof

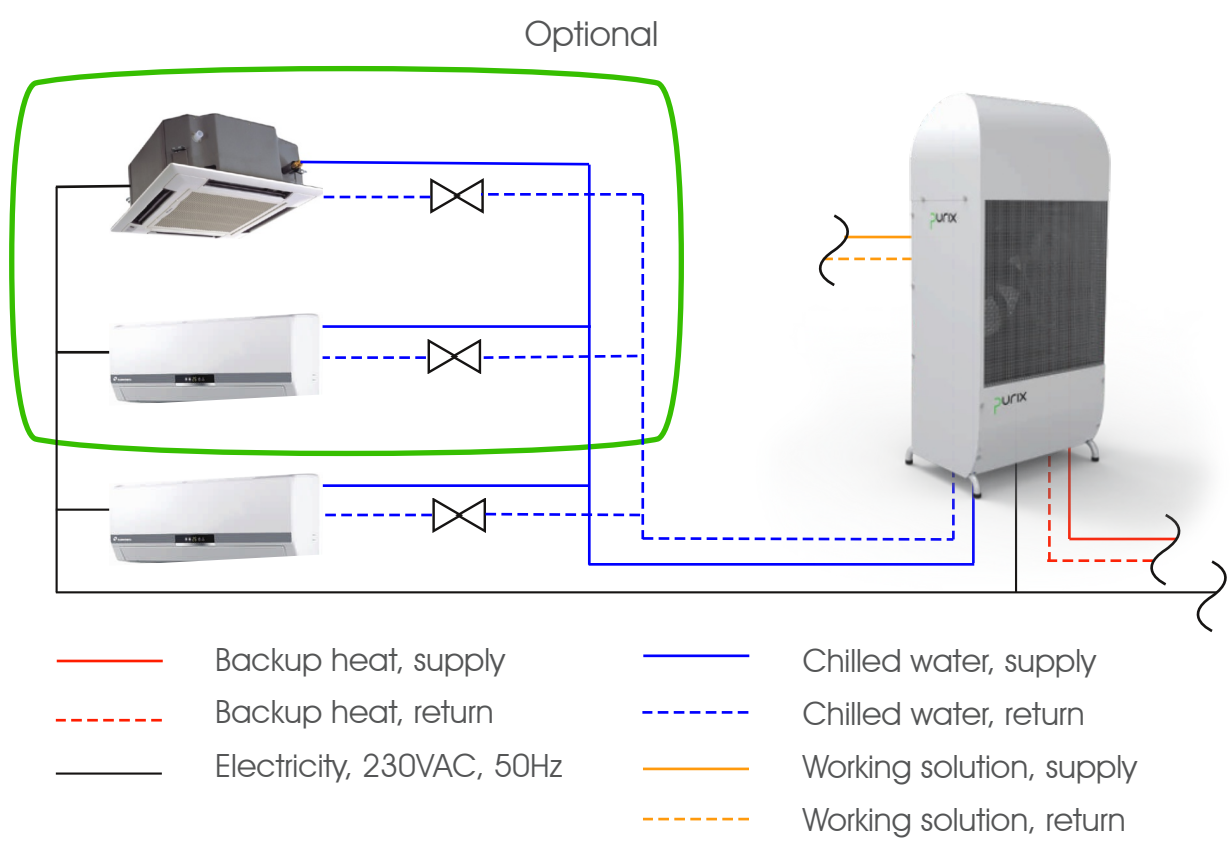


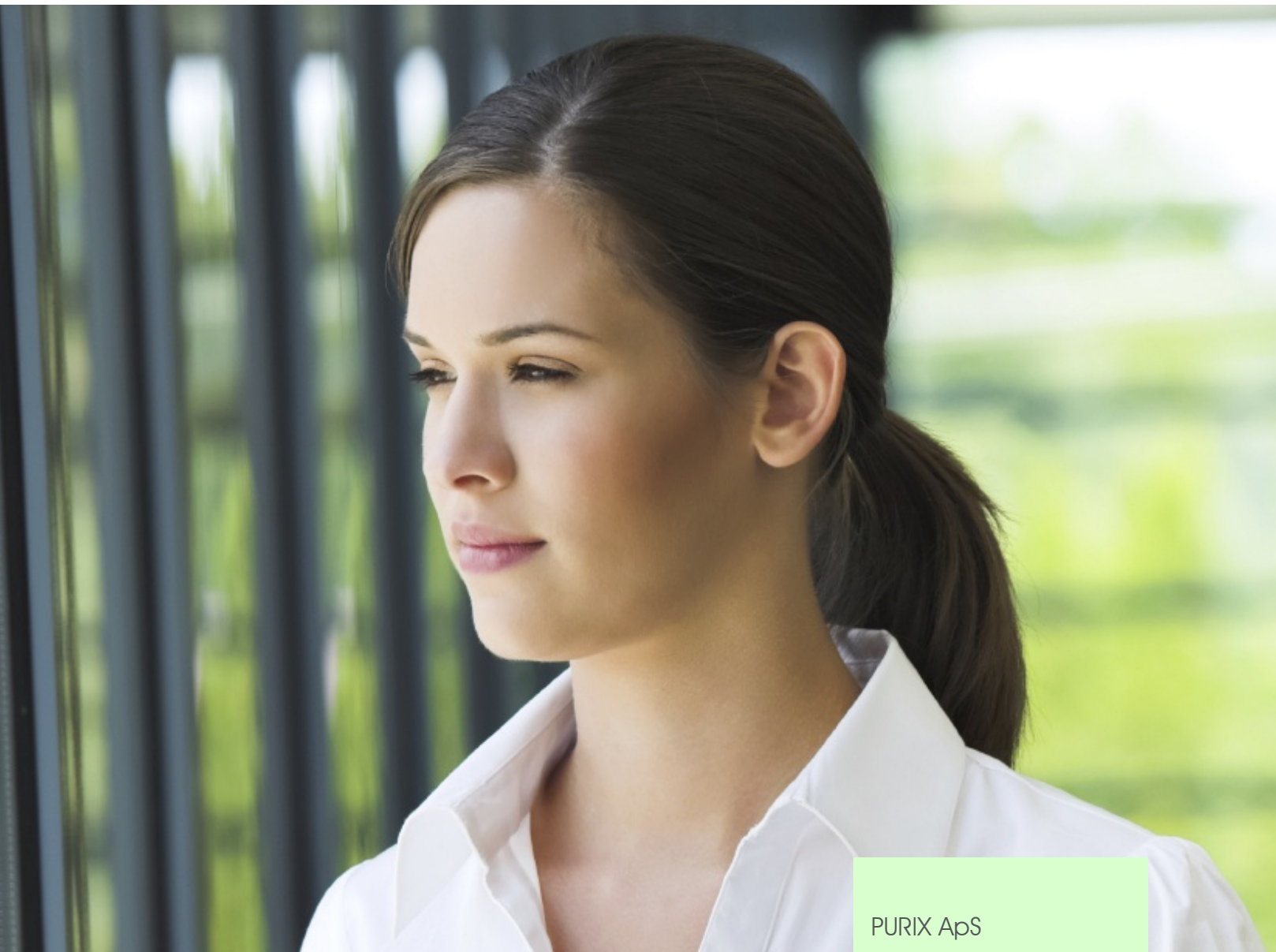
In-roof

DIMENSIONS



CONNECTIONS





About PURIX

We believe that people should experience a comfortable and healthy indoor environment, without compromising sustainability.

PURIX provides attractive solutions supporting consumers and organisations in building a Green tomorrow.

PURIX ApS

Langogade 17
2100 Copenhagen O
DENMARK

t: +45 7734 2280
e: info@purix.com
w: www.purix.com