

Solutions for self-consumption of solar energy



*Save Money  
and the  
planet*



Suitable for office buildings, commercial centers, industrial buildings, residential resorts, hotels...

[www.senr.fr](http://www.senr.fr)

**STEADY**Go



# Technologie SRV<sup>®</sup>

Solaire réfrigérant variable

**The first Hybrid Solar Air conditioning system !**

## Smart system Module

### Energy Resource Managment,

Production, consumption, storage, injection

### Air conditioning managment,

Indoor conditions, schedule, remote control

### BMS & energy monitoring

Compatibility with KNX, Lonworks, Bacnet, Modbus

## Solutions without P.V.

The SRV-TECH can handle Ac installation as a standard central controller, but also reduce consumption to a pre-determined value with local or remote supervision. It uses an open protocol for communication in a smart grid network.

## Solutions with P.V.

The SRV-TECH can reduce consumption to a pre-determined value or limit it to the only ENR production + stored energy



**In both cases, the expenses are under control and ROI is shorter**

Ready to integrate a design Self-Sufficient Building and be connected to the future deployment of "smart grid" technologies and thus manage intermittent renewable energy.





Up to  
**80%**  
savings

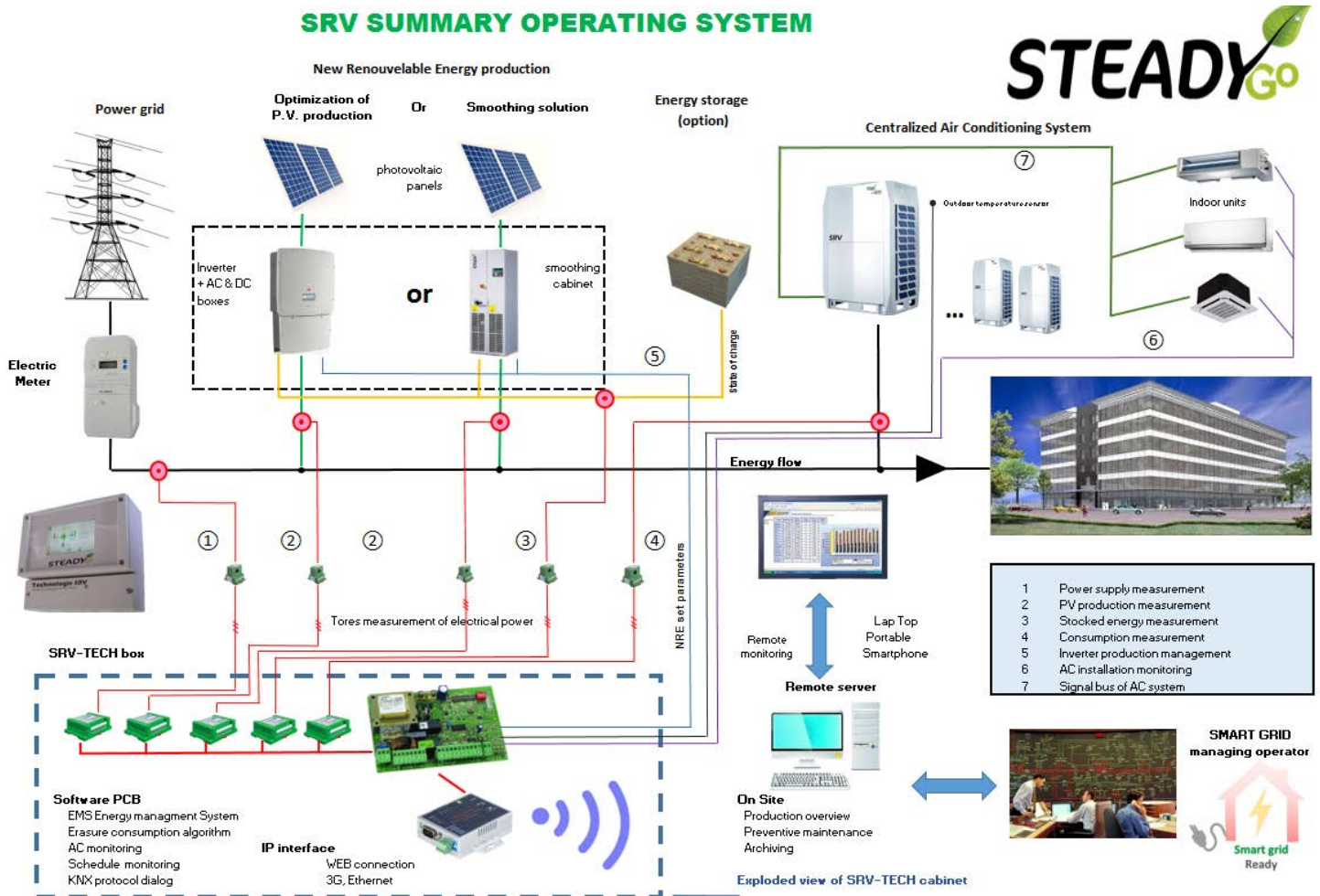
# Smart system with real time management



SENR presents its new **SRV-TECH** system

Designed specifically to control Centralized AC systems connected to intermittent energy production, it preserves the user from local blackout.  
It prevents the installation from P.V. penetration ratio limitation.  
It allows installation's run on weak electrical distribution networks or isolated sites

## SRV SUMMARY OPERATING SYSTEM



## SRV system components

An high performances AC system (IPLV >7) alone allows high energy efficiency.  
Inverter or smoothing cabinet (depends on solution choosed) gives security and optimizes P.V. production.  
Optionnal Energy Storage allows quick response to electrical supply failure

**Modules**  
**2**  
years warranty

**Pieces**  
**3**  
years warranty

**Compressors**  
**5**  
years warranty





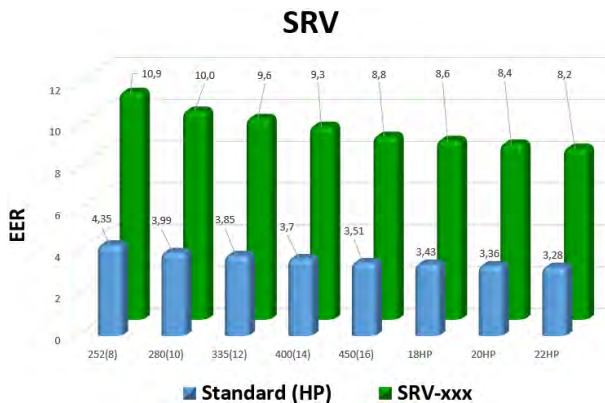
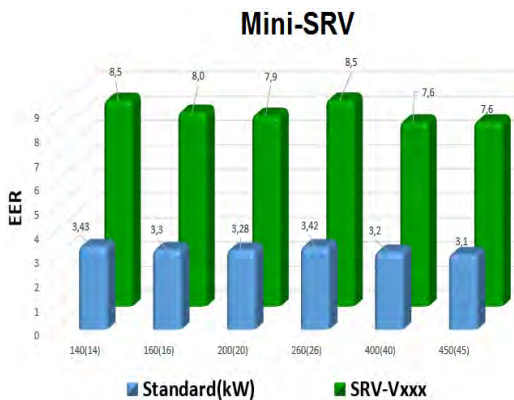
## Indoor units

Models and capacities of Indoor Units

Type	Models	XX = P (kW)	15 1,5	18 1,8	22 2,2	28 2,8	36 3,6	45 4,5	56 5,6	71 7,1	80 8,0	90 9,0	100 10,0	112 11,2	140 14,0	160 16,0
4 ways compact cassettes 600 x 600	SRV-D xx Q4/N1-A3		●		●	●	●	●								
4 ways super slim 800x800 cassettes	SRV-D xx Q4/N1-D					●	●	●	●	●	●	●	●	●	●	
Low Sp duct systems	SRV-D xx T3/N1-C			●	●	●	●	●	●	●	●					
Medium Sp duct systems	SRV-D xx T2/N1-DA5		●		●	●	●	●	●	●						
	SRV-D xx T2/N1-BA5										●	●		●	●	
Ceiling / floor systems	SRV-D xx DL/N1C						●	●	●	●	●	●		●	●	●
Wall mounted	SRV-D xx G/N1-S		●		●	●	●	●	●	●	●	●				

Other models on request: Fan coil units cased or not, consoles, high SP duct systems (14 to 56 kW), one or two ways cassettes, heat recovery systems (12 to 28 kW).

The SRV range achieves the industry's top class energy efficiency of cooling and heating by using DC compressor control, DC Fan motor, and improved performance heat exchanger.



Large range of capacities from 14 to 275 kW (8 to 88HP)

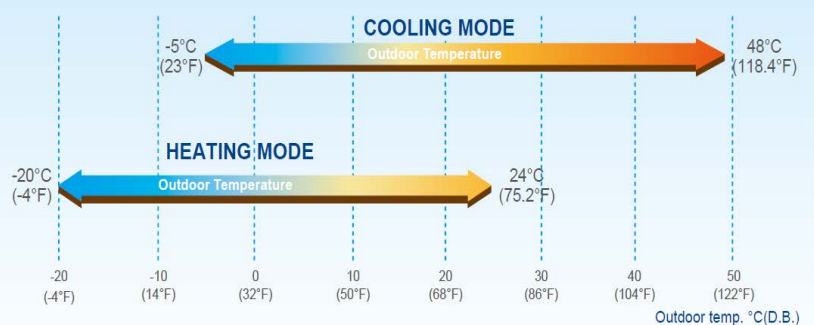
64 indoor units to connect since 40HP

Smaller footprint area and lighter weight, making it a perfect fit for larger buildings.

Patented air-cooling technology for electric control parts.

With the effort on optimization of system structure and air passage, the actual running noise reduced by 3dB(A)

## Wide operation range





Combinations



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Mini SRV Type	Voltage	Cooling (kW)	Heating (kW)	Indoor units nb	Cons. (+27/+35ext) kW froid	SRV Module*	Nb of PV panels	Area for PV panels m²
SRV-V140/DRN1	Tri + N 400V	14,0	15,4	6	3,95	SRV-TECH	21	37
SRV-V160/DRN1	Tri + N 400V	15,5	17	7	4,52	SRV-TECH	24	42
SRV-V200/DRN1	Tri + N 400V	20,0	22	10	6,10	SRV-TECH	31	55
SRV-V260/DRN1	Tri + N 400V	26,0	28,5	12	7,60	SRV-TECH	38	67
SRV-V400/DRN1	Tri + N 400V	40,0	45	14	11,90	SRV-TECH	60	105
SRV-V450/DRN1	Tri + N 400V	45,0	50	15	13,60	SRV-TECH	68	119

\* In combination with Steady Go Smoothing Cabinet

Note: The above data are given for information only. For a project identified, power modules will be determined based on actual combinations and specificity of the project.



+



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SRV Type	HP power	Cooling (kW)	Heating (kW)	Indoor units nb	Cons. (+27/+35ext) kW froid	SRV Module**	Nb of PV panels	Area for PV panels m²
SRV-252(8)/DRN1	8	25	27	13	5,83	SRV-TECH	24	34
SRV-280(10)/DRN1	10	28	32	16	7,02	SRV-TECH	24	34
SRV-335(12)/DRN1	12	34	38	20	8,71	SRV-TECH	24	34
SRV-400(14)/DRN1	14	40	45	23	10,81	SRV-TECH	36	51
SRV-450(16)/DRN1	16	45	50	26	12,83	SRV-TECH	36	51

Note: The above data are given for information only. For a project identified or greater capacities, power modules will be determined based on actual combinations and specificity of the project.

All modules are certified on VDE 0126-1 regulation

\*\* In combination with Steady Go Smoothing Cabinet

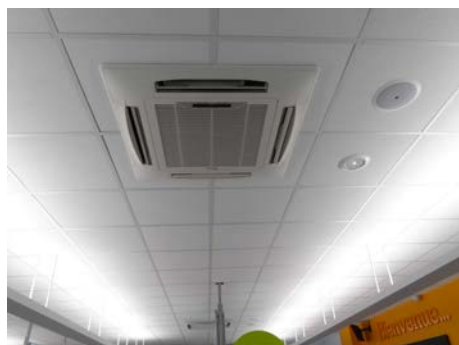
Power 400/3/N/E for all models



## A globalized offer

The **SRV** system's offer, is the combination of expertise of three major players in :  
air conditioning,  
automation,  
and photovoltaic production.

Different expertise to create a unique solution that guarantees optimal results, total comfort and promises you to master your energy costs for the coming years.



## The benefits of solar power

The sun is an inexhaustible supply of renewable energy, green and free. Each one can produce and use photovoltaic electricity with confidence.

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