

INverter



R32

SYSHP MINI SPLIT 06-16

R32 Mini Air Cooled Heat Pumps

7,0 to 14,0 kW



6,35 to 16,0 kW



SYSHP MINI SPLIT 06-16

Mini Heat Pump Split Series



RESIDENTIAL



OFFICES



HOTELS



SHOPS



7,0 to 14,0 kW



6,35 to 16,0 kW



SYSHP MINI SPLIT TANK indoor unit**



R32

SYSHP MINI SPLIT HYDRO indoor unit



SYSHP MINI SPLIT ODU external unit

The range

- An outdoor unit: SYSHP MINI SPLIT ODU
- Two Hydronic indoor units:
SYSHP MINI SPLIT HYDRO - without DHW tank
SYSHP MINI SPLIT TANK - with DHW tank**
- R32 refrigerant
- Leaving water temperature up to 65 °C
- SEER (LWT* 18°C) up to 8,95
- SCOP (LWT* 35°C) up to 5,21
- Ideal for residential applications, offices, hotels and shops

** SYSHP MINI SPLIT TANK Indoor units will be available Q4 2021

SYSHP MINI SPLIT units are available in two different versions:

- SYSHP MINI SPLIT ODU + HYDRO: combination of ODU external unit and HYDRO indoor unit without DHW tank
- SYSHP MINI SPLIT ODU + TANK** : combination of ODU external unit and TANK indoor unit with DHW tank

Equipment

- One refrigerant circuit
- Power supply: for models SYSHP MINI SPLIT ODU 06, 08, 10 and 12 single phase; for models SYSHP MINI SPLIT ODU 14 and 16 three-phase
- Water circulator, head 90 kPa, with expansion tank and plate exchanger
- Backup electric heater included in the indoor units
- Programmable remote control
- Electronic expansion valve
- DC motor Fan
- Control via Wi-Fi
- Heating belt included in the outdoor units



Air cooled



Twin rotary DC Inverter compressor



Domestic Hot Water



Plate heat exchanger



R32



DC Motor fan



High efficiency



Silent mode

Product advantages

- Two possible combinations of indoor units: HYDRO and TANK**
- Heating, cooling and DHW production
- Operation guaranteed up to -25 °C in heating mode and DHW production
- Low GWP (675) R32 refrigerant
- High efficiency and low noise thanks to the DC Twin-rotary inverter compressor
- Integration with solar panel and gas boiler
- Smart Grid function for photovoltaic systems
- Possibility of remote control with dedicated App or via Modbus interface



Silent units with a modern and elegant design to fit perfectly in any interior space



Multiple possibilities of application for **heating, cooling and DHW production**



Advanced controller

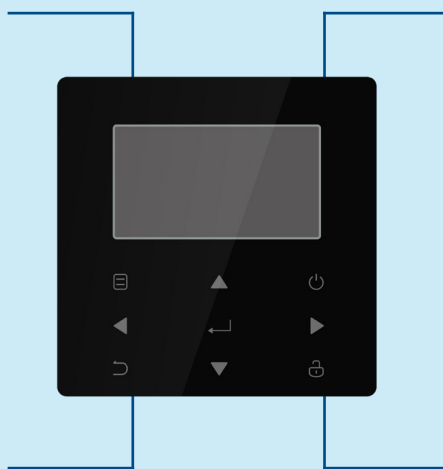
Multiple operating modes:

- Space cooling/heating
- Auto mode
- DHW priority mode
- Disinfect mode
- Holiday mode
- Silent mode

Complete scheduling program

makes the control easy and user-friendly. The user can choose between:

- Daily schedule
- Weekly schedule



Many climatic curves available for precise and efficient operation of the unit:

- 32 preset curves (16 cooling/16 heating)
- 2 customized curves configurable by the user (1 cooling/1 heating)

High connectivity:

- Control via Modbus
- Remote control with dedicated App
- Smart Grid function
- USB port for easy upgrade and parameter loading

Technical performance

SYSHP MINI SPLIT 06-16 - Heat Pump			ODU 06 -1Ph	ODU 08 -1Ph	ODU 10 -1Ph	ODU 12 -1Ph	ODU 14 -3Ph	ODU 16 -3Ph
Combination with indoor units			HYDRO 06/TANK 190	HYDRO 10/TANK 190	HYDRO 10/TANK 190	HYDRO 16/TANK 240	HYDRO 16/TANK 240	HYDRO 16/TANK 240
Cooling	Cooling Capacity ¹	kW	6,55	8,4	10,0	12,0	13,5	14,9
	Power input ¹	kW	1,34	1,66	2,08	3,0	3,74	4,38
	EER ¹		4,9	5,05	4,8	4,0	3,61	3,4
	SEER (LWT 18°C) ³		8,21	8,95	8,78	7,1	6,85	6,71
	Cooling Capacity ²	kW	7,0	7,4	8,2	11,6	12,7	14,0
	Power input ²	kW	2,33	2,19	2,48	4,22	4,98	5,71
	EER ²		3,0	3,38	3,3	2,75	2,55	2,45
Heating	SEER (LWT 7°C) ³		5,34	5,83	5,98	4,89	4,83	4,67
	Heating Capacity ⁴	kW	6,20	8,30	10,0	12,1	14,5	16,0
	Power input ⁴	kW	1,24	1,60	2,0	2,44	3,09	3,56
	COP ⁴		5,0	5,2	5,0	4,95	4,7	4,5
	Heating Capacity ⁵	kW	6,35	8,2	10,0	12,3	14,2	16,0
	Power input ⁵	kW	1,69	2,08	2,63	3,24	3,89	4,44
	COP ⁵		3,75	3,95	3,80	3,8	3,65	3,6
	Heating Capacity ⁶	kW	6,0	7,5	9,5	12,0	13,8	16,0
	Power input ⁶	kW	2,0	2,36	3,06	4,87	4,6	5,52
	COP ⁶		3,0	3,18	3,1	3,1	3,0	2,9
	ErP	SCOP (LWT 35°C) ³		4,95	5,21	5,19	4,81	4,72
η_{sh} / Energy class (LWT 35°C) ³			195 / A+++	205,6 / A+++	204,8 / A+++	189,4 / A+++	185,6 / A+++	181,6 / A+++
SCOP (LWT 55°C) ³			3,52	3,36	3,49	3,45	3,47	3,41
ErP	η_{sh} / Energy class (LWT 55°C) ³		137,9 / A+++	131,6 / A+++	136,6 / A+++	135,1 / A+++	135,6 / A+++	133,2 / A+++
	Sound power level ⁷	dB(A)	58	59	60	64	65	68
Sound pressure level ⁸	dB(A)	45	46	49	50	51	55	
Power supply	V/Ph/Hz	220-240/1/50					380-415/3/50	

SYSHP MINI SPLIT - Indoor unit			HYDRO 06	HYDRO 10	HYDRO 16
Water pump	Type		DC Inverter		
	Max head	kPa		90	
Sound power level ⁷	dB(A)		38	42	43
Sound pressure level ⁸	dB(A)		28	30	32
Power supply	V/Ph/Hz		220-240/1/50		



SYSHP MINI SPLIT HYDRO

SYSHP MINI SPLIT - Indoor unit ** (preliminary data)			TANK 190	TANK 240
Tapping profile ⁹			L	XL
Water heating energy efficiency class ⁹			A+	A+
DHW Tank	Material		Stainless steel 316L	
	Volume	l	190	240
	Max water temp.	°C	70	70
	Insulation		Polyurethane	
Back-up heater	kW/ph	3 kW/1 phase		6 kW/3 phase
Water pump	Type		DC Inverter	
	Max head	kPa	90	
Sound power level ⁷	dB(A)		40	44
Power supply	V/Ph/Hz		220-240/1/50	



SYSHP MINI SPLIT TANK**

¹ According EN14511-2013: chilled water inlet/outlet temperature: 23/18°C, outdoor ambient temperature 35°C DB.

² According EN14511-2013: chilled water inlet/outlet temperature: 12/7°C, outdoor ambient temperature 35°C DB.

³ According EN14825.

⁴ According EN14511-2013: warm water inlet/outlet temperature: 30/35°C, outdoor ambient temperature 7°C DB/6°C WB.

⁵ According EN14511-2013: warm water inlet/outlet temperature: 40/45°C, outdoor ambient temperature 7°C DB/6°C WB.

⁶ According EN14511-2013: warm water inlet/outlet temperature: 47/55°C, outdoor ambient temperature 7°C DB/6°C WB.

⁷ Sound power level values refers to ISO 3744 standard.

⁸ Sound pressure level tested 1m away in front of the unit in free field.

⁹ According EN16147/2017; EU No.811/2003 (average climate).

* ERP Compliant: Following COMMISSION REGULATION (EU) No 813/2013.

** NOTE: Preliminary data - SYSHP MINI SPLIT TANK Indoor units will be available Q4 2021.

Physical features

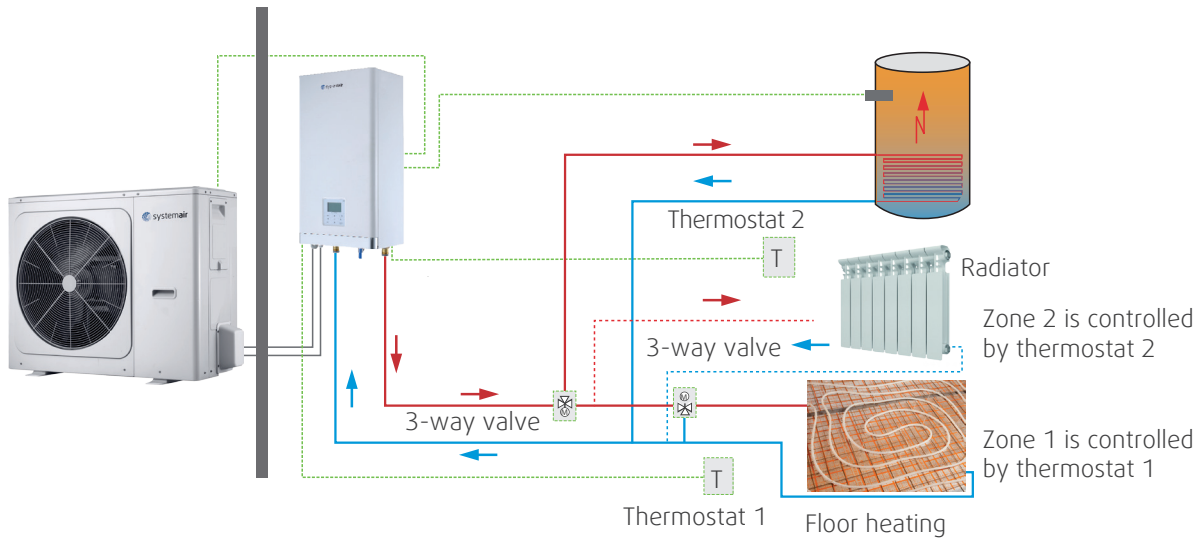
SYSHP MINI SPLIT - Heat Pump		ODU 06 -1Ph	ODU 08 -1Ph	ODU 10 -1Ph	ODU 12 -1Ph	ODU 14 -3Ph	ODU 16 -3Ph
Refrigerant data							
Refrigerant piping diameter liquid/gas	mm	6,35 / 15,9			9,52 / 15,9		
Max piping length / height difference	m	30 / 20					
Weight and Dimensions							
Operating weight	kg	58	77	77	96	112	112
Dimension (LxWxH)	mm	1.007x426x712			1.118x523x864		

SYSHP MINI SPLIT - Indoor unit		HYDRO 06	HYDRO 10	HYDRO 16
Hydraulic data - Water piping				
Heating/cooling water circuit	inch	Male gas threaded 1"		
DHW tank water circuit	inch	-	-	-
Weight and Dimensions				
Operating weight	kg	37	37	39
Dimension (LxWxH)	mm	420x270x790		

SYSHP MINI SPLIT - Indoor unit** (preliminary data)		TANK 190	TANK 240
Hydraulic data - Water piping			
Heating/cooling water circuit	inch	Male gas threaded 1"	
DHW tank water circuit	inch	Male gas threaded 3/4"	
Weight and Dimensions			
Operating weight	kg	328,6	397
Dimension (LxWxH)	mm	600x600x1.683	600x600x1.943

** NOTE: Preliminary data - SYSHP MINI SPLIT TANK Indoor units will be available Q4 2021.

Example of a typical installation



Operating limits

SYSHP MINI SPLIT 06-16 - Heat Pump			
Cooling	Leaving water temperature	°C	from +5 to +25
	Outdoor air temperature	°C	from -5 to +43
Heating	Leaving water temperature	°C	from +25 to +65
	Outdoor air temperature	°C	from -25 to +35
DHW Production	Leaving water temperature	°C	from +30 to +60
	Outdoor air temperature	°C	from -25 to +43



Technical Documentation

Find our complete documentation on the application **MEDIA CENTER** by Systemair
Also available at: www.systemair.com



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