

SPH / SPH-R

AIR-TO-WATER SPLIT HEAT PUMPS

3 Heat Pump models
from 8,1 kW to 14,1 kW

SHP/SHP-R 08-10-12

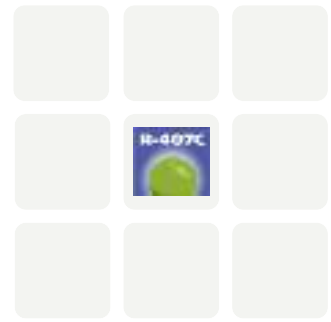


PRODUCT ADVANTAGES

- Compatible with chilled indoor units and heating floor.
- Scroll compressor.
- Phase controller.
- Softstarter.
- HP-LP pressostats.
- Coaxial heat exchanger.
- Circulation pump.

- Expansion tank (5l) (option).
- Disconnecting switch.
- Room thermostat. (SPH)
- Heating mode operation down to outdoor -15°C.
- Water outlet temperature range 25/55°C.
- Chargeless up to 8 meters between indoor and outdoor units.
- Low noise fan.

Accessories	Size	SPH/SPH-R 08	SPH/SPH-R 10	SPH/SPH-R 12
Stop valves with pressure connectors	Part number	7ACFH0423	7ACFH0423	7ACFH0423
	Price €			
Flexible kit 1" MF log. 1 m	Part number	7ACFH0422	7ACFH0422	7ACFH0422
	Price €			
Buffer tank 30 l	Part number	7ACFH0484	7ACFH0484	7ACFH0484
	Price €			
Water filter	Part number	7ACFH0278	7ACFH0278	7ACFH0278
	Price €			
Room Thermostat	Part number	7ACEL1406	7ACEL1406	7ACEL1406
	Price €			
Programming key kit for underfloor heating	Part number	7ACEL1399	7ACEL1399	7ACEL1399
	Price €			
Programming key kit for radiator	Part number	7ACEL1400	7ACEL1400	7ACEL1400
	Price €			
Hydraulic connexion kit with 3 ways valve	Part number	7ACFH0490	7ACFH0490	7ACFH0490
	Price €			
Hydraulic connexion kit without 3 ways valve	Part number	7ACFH0491	7ACFH0491	7ACFH0491
	Price €			
3 ways zone valve only	Part number	7ACFH0543	7ACFH0543	7ACFH0543
	Price €			
Regulation kit with ambient thermostat	Part number	7ACFH0492	7ACFH0492	7ACFH0492
	Price €			
Regulation kit with wireless thermostat	Part number	7ACEL1429	7ACEL1429	7ACEL1429
	Price €			



SPH/SPH-R

		SPH/SPH-R 08	SPH/SPH-R 10	SPH/SPH-R 12	
Heating/Cooling floor application					
Heating	Capacity ⁽¹⁾	kW	8.1	11.2	14.1
	Input power*	kW	2.3	3.1	3.9
	COP		3.53	3.60	3.64
	Capacity at -7°C	kW	5.1	7.2	8.7
	Input power at -7°C	kW	2.3	3.1	3.7
	Water flow (Heating)	m ³ /h	1.43	1.97	2.52
	Available pressure (HS)	kPa	41	26	59
	Outdoor temperature operating limits (min/max)	°C	-15°C/20°C	-15°C/20°C	-15°C/20°C
	Outlet water temperature (min/max)	°C	25°C/55°C	25°C/55°C	25°C/55°C
Cooling	Capacity ⁽³⁾ - SPH only	kW	7.2	8.9	9.8
	Input power	kW	2.5	3.7	4.5
	EER		2.84	2.42	2.21
	Outdoor temperature operating limits (min/max)	°C	20°C/45°C	20°C/45°C	20°C/45°C
Outlet water temperature (min/max)	°C	7°C/18°C	7°C/18°C	7°C/18°C	
Radiator and fan coils units application					
Heating	Capacity ⁽²⁾	kW	7.7	10.7	13.6
	Capacity at -7°C	kW	5.1	6.9	9.1
	Input power at -7°C	kW	2.8	3.7	4.5
	Water flow (Heating)	m ³ /h	1.36	1.90	2.43
	Available pressure (HS)	kPa	45	29	60
	Outdoor temperature operating limits (min/max)	°C	-15°C/20°C	-15°C/20°C	-15°C/20°C
Outlet water temperature (min/max)	°C	25°C/55°C	25°C/55°C	25°C/55°C	
Cooling	Capacity ⁽⁴⁾ - SPH only	kW	5.6	7.7	7.1
Technical Information	Sound pressure level at 5 m (Outdoor unit)	dB(A)	42	42	42
	Sound pressure level at 5 m (Indoor unit)	dB(A)	34	34	34
	Airflow	m ³ /h	6000	6000	6000
	Number of fan		2	2	2
	Exchanger type		Coaxial	Coaxial	Coaxial
	Water circuit Inlet	Inches	1" female	1" female	1" female
	Water circuit Outlet	Inches	1" female	1" female	1" female
	Electric heater 2 stages (Only for SPH model)	kW	6 (4+2)	6 (4+2)	6 (4+2)
	Compressor type		Scroll	Scroll	Scroll
	Number of compressor		1	1	1
	Dimensions (LxHxW) - Indoor unit	mm	596x1232x596	596x1232x596	596x1232x596
	Dimensions (WxDxH) - Outdoor unit	mm	998x1308x400	998x1308x400	998x1308x400
	Weight (Indoor unit)	kg	115	128	133
	Weight (Outdoor unit)	kg	90	90	98
Power supply 2-230V-50Hz	Power cable section (SPH/SPH-R)**	mm ²	3x10 / 3x2,5	3x16 / 3x4	3x16 / 3x6
	Fuse rating am (SPH/SPH-R)	A	50 / 20	63 / 25	63 / 32
Power supply 3-400V-50Hz	Power cable section (SPH/SPH-R)**	mm ²	5x2,5 / 5x2,5	5x4 / 5x2,5	5x4 / 5x2,5
	Fuse rating am (SPH/SPH-R)	A	20 / 12	20 / 16	25 / 16
Pipe line	Suction pipe diameter	inches	3/4	3/4	7/8
	Liquid pipe diameter	inches	1/2	1/2	1/2
	Max lenght	m	30	30	30
	Max height	m	3.5	3.5	3.5
PAC SPH - Heat Pump Model		€			
PAC SPH-R - Relief of oil Burner Model		€			
To specify with the order : Power supply Single phase or Three phase					
To specify with the order (Only for SPH-R) : Heating floor or Radiator application €					
Factory Fitted Options (To specify with the order)			Add surplus value to basic model price		
Expansion tank 5L (only for SPH-R)		€			
Reinforced soundproofing		€			
Exchanger protection grill		€		Serial equipment	
Exchanger Cu/Cu		€		Consult us	
High Performance ZH compressor (Size 8 et 10 : single phase and 3 phases - Size 12 : 3 phases)		€			

⁽¹⁾ Heating capacity for air temperature 7°C, water temperature 30/35°C. / ⁽²⁾ Heating capacity for air temperature 7°C, water temperature 40/45°C.

⁽³⁾ Cooling capacity for air temperature 35°C, water temperature 23/18°C. / ⁽⁴⁾ Cooling capacity for air temperature 35°C, water temperature 12/7°C. / * with deicing.

**** These values are given as an indication, they must be adjusted according to the existing standards: they depend on the installation and choice of the electrical conductors.**