

SE-AH ... S SERIES · DOMESTIC SPLIT

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SE-AH-5|200S

Split heat pump water heater: the compressor and fan stand outdoors, the 200 L enamel-lined cylinder indoors, and only refrigerant passes between them. Hot water to 55 °C on the heat pump, 75 °C with the heater. R134a, single-phase.

	HEATING CAPACITY 5 kW Rated, heat pump	COP 4.17 Rated
	STORAGE 200 L Enamelled steel cylinder	HOT WATER OUTPUT 107.5 L/h 15 → 55 °C, heat pump alone

Performance

Rated figures, and what they mean in litres

Rated duty	heat pump mode	Hot water	derived	Maximum	for the electrician
Heating capacity	5,000 W	Output, 15 → 55 °C	107.5 L/h	Max input power	1,780 W
Input power	1,200 W	Full tank, 15 → 55 °C	≈ 1.9 h	Max current	8.2 A
COP	4.17	Temperature rise	40 K	Back-up heater	1.5 kW

Technical specifications

SE-AH-5|200S

OUTDOOR UNIT			CYLINDER		
Heating capacity	W	5,000	Storage volume	L	200
Rated input power	W	1,200	Shell	mm	2 enamelling-grade steel
COP		4.17	Lining		Glass enamel, 0.3–0.5 mm
Maximum input power	W	1,780	Heat exchanger		Micro-channel, outside the tank
Maximum current	A	8.2	Electric back-up heater	kW	1.5
Power supply		220 V / 1 Ph / 50 Hz	Rated working pressure	MPa	0.7
Refrigerant		R134a	Inlet / outlet / drain		DN 15
Compressor		Highly, rotary	Insulation (polyurethane)	mm	42
Noise level	dB(A)	52	Standing loss, 24 h	K	< 8
Ingress protection		IPX4	Size (ø × H)	mm	500 × 1680
Ambient operating range	°C	–5 to 43	Weight, empty	kg	71
Dimensions (L × W × H)	mm	765 × 260 × 530	Fittings		Mg anode, relief valve
Weight	kg	34	Water temperature	°C	55 HP · 75 heater

RATED FIGURES

Heating capacity, input power and COP are the manufacturer's rated figures; the source does not name the ambient they were measured at, so they are published as **rated values**. Ask us before sizing to a cold-weather duty.

Derived: hot water output is for a 40 K rise (15 → 55 °C) — heating capacity × 0.86 ÷ output gives exactly 40 K. Full-tank time = volume ÷ output.

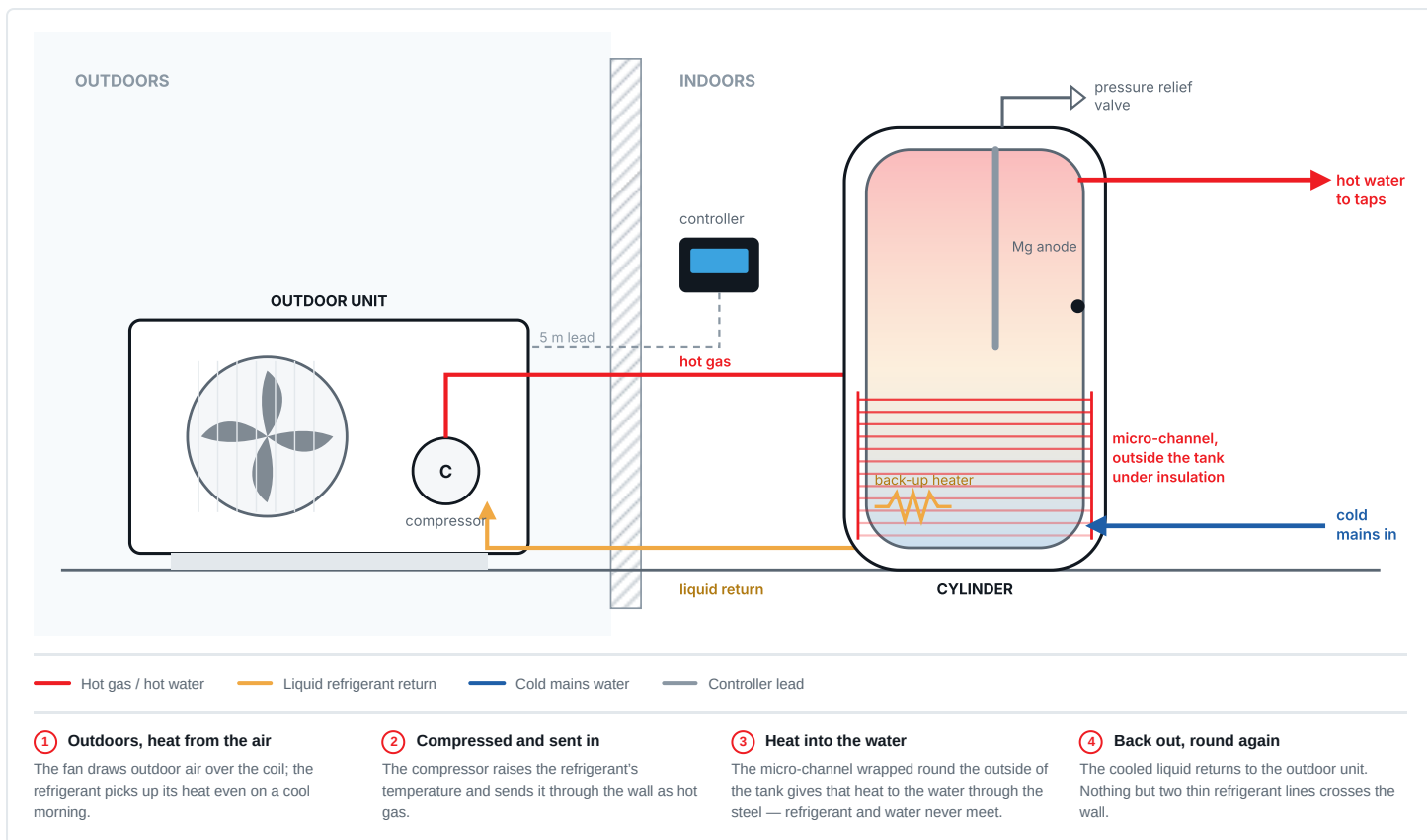
INSTALLATION REQUIREMENT

Dedicated single-phase supply on its own MCB, sized by a licensed electrician for the **8.2 A** maximum current, plus the **1.5 kW** heater if it is wired to the same circuit.

3 m copper interconnecting pipe is supplied; tell us before ordering if the run or the height difference is longer.

Fit the **pressure relief valve** supplied and pipe its discharge to a drain.

Site installation schematic Outdoor unit outside, cylinder inside — only refrigerant crosses the wall



Schematic — not to scale. Mount the outdoor unit where air moves freely; keep the cylinder close to the bathrooms it serves.

Choosing a size Size on the people and the draw-off, not on the heat pump

THIS MODEL

Allow roughly **40–60 litres of hot water per person per day**. A 200 L cylinder suits about **3–5 people**.

From cold it heats the full tank in about **1.9 h** on the heat pump alone (15 → 55 °C), and keeps up with about **108 L/h** of draw-off after that.

Send us the occupancy and the fittings and we will confirm the size.

WHY SPLIT

The cylinder can stand indoors, in a utility room or loft, while the outdoor unit sits on a balcony or terrace like an air conditioner.

No hot water runs through the wall, nothing that holds water stands in the weather, and a refrigerant leak cannot reach the potable water.

The 1.5 kW heater covers a cold morning or a full house and takes the tank to 75 °C when wanted.

The range at a glance SE-AH-5|200S is marked

MODEL	TANK L	HEATING KW	COP	L/H*	FULL TANK H*	HEATER KW	OUTDOOR UNIT MM	CYLINDER Ø × H MM
SE-AH-4 150S	150	3.3	4.10	71	2.1	1.5	765 × 260 × 530	500 × 1330
SE-AH-5 200S	200	5	4.17	107.5	1.9	1.5	765 × 260 × 530	500 × 1680
SE-AH-5 300S	300	5	4.17	107.5	2.8	2	765 × 260 × 530	560 × 1805
SE-AH-7 400S	400	7.2	4.11	154.8	2.6	2	800 × 300 × 540	700 × 1590
SE-AH-7 500S	500	7.2	4.11	154.8	3.2	2	800 × 300 × 540	700 × 1940

* Derived: hot water output for a 15 → 55 °C rise, and the time to heat a full tank through that rise on the heat pump alone. A 100 L model (SE-AH-4|100S) also sells on the price list; no rated data has been issued for it yet.

Installation steps Follow in order; fill the cylinder before switching on

- 1 Place the cylinder** on a level floor that takes its filled weight, close to the bathrooms, with access to the anode and heater.
- 2 Mount the outdoor unit** on a bracket or plinth with free air on the coil face and the fan side, where its noise will not disturb anyone.
- 3 Refrigerant lines.** Run the copper pair through a sleeved hole in the wall, insulated, without kinks. 3 m is supplied as standard.
- 4 Vacuum and open** the service valves as the installation manual describes; check the joints for leaks.
- 5 Water.** Cold mains to the bottom inlet through an isolation valve and non-return valve; hot to the taps from the top outlet.
- 6 Relief valve.** Fit the supplied valve and pipe its discharge to an open drain — never cap it.
- 7 Electrical.** Dedicated single-phase supply and MCB; earth bonded; controller lead (5 m) between the cylinder and the unit.
- 8 Commission.** Fill and vent the cylinder before switching on, set the water temperature, and check the unit runs and the tank heats.

Site checklist What has to be true before the unit arrives

SITE	
Floor	Level, and takes ≈ 271 kg filled (71 kg + 200 L)
Cylinder space	500 × 1680 mm, plus room to service the anode and heater
Outdoor unit	765 × 260 × 530 mm · 34 kg, on a bracket or plinth
Distance	3 m of refrigerant pipe standard — ask for longer
Ambient	−5 to 43 °C at the outdoor unit
Supply	220 V single-phase, 8.2 A max + heater
Drain	For the relief valve discharge and the cylinder drain

PROTECTIONS BUILT IN

- High voltage protection
- Compressor over-heating protection
- Hot water over-heating protection
- Circuit failure protection
- Refrigerant high pressure protection
- Refrigerant low pressure protection

CONTROLLER & WARRANTY

Intelligent wired controller: shows the water temperature and switches the electric heater. 5 m lead.

2 years on the heat pump · **5 years** on the cylinder.

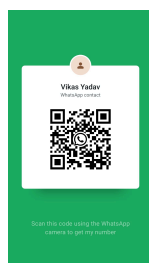
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FOR A QUOTATION

Tell us

- how many people
- bathrooms and kitchen points
- where the cylinder and the outdoor unit will go
- the distance between them
- your city

SUNNIVA ENCON LLP

Manufacturer & exporter of heat pumps since 2012

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