

# Split monobloc-unit high-temperature heat pump Aquascop HT V2

 6-18 kW

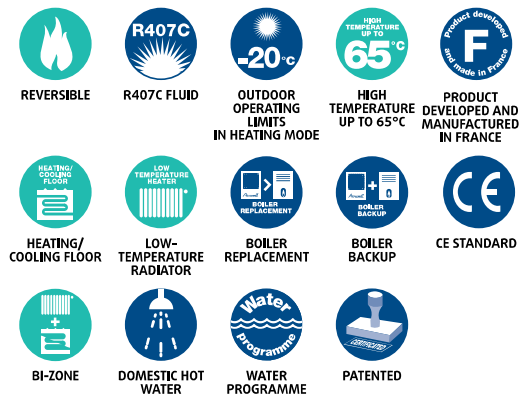
 407C

## Technical features

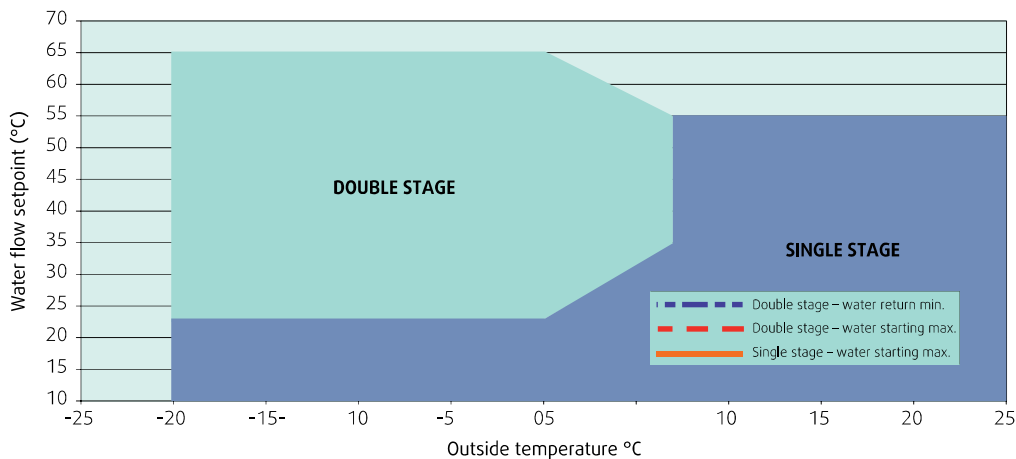
- Ideal for renovations as well as for new construction
- Water outlet temperature up to 65°C without external backup
- Ideal for boiler replacement
- Constant operation at +65°C with -20°C outdoors
- 6 to 18 kW of heating over 3 models
- Systemair patented "dual-stage" cascading compressors
- A single refrigerant fluid (preloaded up to 20 m)
- Electronic expansion valve and flow meter
- Low noise level
- Three-speed circulator pump
- Dual-zone management

## Product Advantages

- Very high performance, COP up to 4,5
- SCOP class A++
- Very low noise level
- No refrigerant links to be made
- Information screen with eight lines of text in French with diagnosis assistance
- New "antifreeze" evaporator, 2 hours without defrosting (no 4-mm fins)
- Inverter fans
- Easy maintenance
- Possibility of installing several heat pumps in cascade (on request)



**Operating limit** (to be confirmed following selection software issue)



Accessories and options			
 <p>7ACEL1592</p>	<p>Wired ambient thermostat</p> <ul style="list-style-type: none"> <li>- Adjustment of ambient temperature</li> <li>- Daily or weekly programming</li> <li>- Holiday programming, no-frost mode</li> </ul>	 <p>7ACEL1593</p>	<p>Wireless thermostat with radio communication Sends the measured ambient temperature.</p>
 <p>7ACFH0662</p>	<p>300-litre domestic hot water tank (and 2.5 kW of electrical resistance heaters) optimised with the operation of the Aqu@Scop HT</p> <ul style="list-style-type: none"> <li>- Three authorisation modes</li> <li>- Holiday mode</li> <li>- Programmable anti-legionella function</li> <li>- Management of the three-way valve / circulator pump couple</li> <li>- 3.1 m<sup>2</sup> exchange surface</li> </ul>	 <p>7ACFH0663</p>	<p>140-litre buffer tank / mixing tank Necessary when the volume of water in the installation is insufficient. It protects the heat pump against short cycles that can reduce the useful life of the compressors and improves operation during defrosting phases.</p>
 <p>7ACFH0543</p>	<p>ON/OFF three-way valve Required for optional production of domestic hot water. Directs the produced hot water either towards the heating circuit or towards the domestic hot water tank. A second three-way valve is recommended for boiler-backup installation.</p>	 <p>7ACFH0789 (top outlet) 7ACEL1801 (bottom outlet)</p>	<p>Domestic hot water kit Required when replacing existing installations. This kit, made up of a plate exchanger and a circulator pump, enables the production of domestic hot water using existing tanks (electric cumulus).</p>
 <p>7ACFH0491 (alone) 7ACFH0490 (kit)</p>	<p>Hydraulic kit For connecting to the boiler, available alone or in a complete kit with the three-way valve. Made up of a set of assembled pipes and valves, a set of connectors with spherical-conical seat.</p>	 <p>7ACFH0665</p>	<p>On-line electric heater Installation inside the building, offers two power stages (2 and 4 kW, or 6 kW in total). Provides extra heating when the heating demand is greater than the capacity of the heat pump. The Aqu@Scop HT is adjusted to manage the electric heater, or a boiler backup.</p>
 <p>7ACFH0666</p>	<p>Decanting pot (sludge pot) Effectively separates the impurities from the heating circuit and collects them in a decanting chamber, where they can be bled off, even while the installation is operational.</p>	 <p>7ACTL0472</p>	<p>Shock-absorbing support feet Raise the heat pump by 10cm, allow the evacuation of condensates and defrosting water. Their rubber design provides excellent shock absorption against the transmission of vibrations through solids.</p>

## Technical feature

AQUASCOP HT			HT 12-6	HT 14-7	HT 18-9
OUTDOOR AIR REGIME 7°C	Dual compressor heating power / water regime 30/35°C	kW	12,26	15,15	18,07
	COP*		3,95	3,84	3,95
	Single compressor heating power / water outlet 30/35°C	kW	6,3	8,35	9,71
	COP*		4,12	4,35	4,52
	Single compressor heating power / water outlet 45°C	kW	5,74	7,77	9,27
	COP*		3,09	3,31	3,47
	Dual compressor heating power / water outlet 55°C	kW	5,25	7,08	8,58
	COP*		2,28	2,48	2,62
OUTDOOR AIR REGIME 2°C	Single compressor heating power / water outlet 35°C	kW	10,31	13	15,32
	COP*		3,45	3,4	3,49
OUTDOOR AIR REGIME -7°C	Single compressor heating power / water outlet 35°C	kW	8,05	10,68	12,21
	COP*		2,9	2,97	3,02
	Dual compressor heating power / water outlet 55°C	kW	8,40	10,71	12,44
	COP*		2,25	2,31	2,35
	Dual compressor heating power / water outlet 65°C	kW	8,33	10,69	12,01
OUTDOOR AIR REGIME -15°C	COP*		1,87	2,02	2,03
	Dual compressor heating power / water outlet 35°C	kW	7,79	10,24	11,71
	COP*		2,80	2,86	2,9
	Dual compressor heating power / water outlet 65°C	kW	8	10,27	11,5
OUTDOOR UNIT	COP*		1,81	1,96	1,96
	Sound power at 5 m in free field	dB(A)			
	Sound power	dB(A)	65	65	65
	Compressor type (R407C)		2 scroll compressors in cascade		
	Dimensions (WxDxH)	mm	47	47	47
	Weight	kg	184	209	213
	Refrigerant connections (gas/liquid) (0 to 25 metres)		5/8 - 3/8		
	Refrigerant connections (gas/liquid) (0 to 45 metres)		3/4 - 1/2		
	Maximum length	m	45	45	45
	Maximum height difference	m	15	15	15
Outdoor temperature operating limits**	°C	-20	-20	-20	
POWER SUPPLY 1~230V-50Hz	Power cable	mm <sup>2</sup>	3x6	3x6	N/D
	Protection rating	A	32	32	N/D
POWER SUPPLY 3~400V-50Hz	Power cable	mm <sup>2</sup>	5x2,5	5x2,5	5x2,5
	Protection rating	A	16	16	20
INDOOR UNIT	Sound power at 5 m in free field	dB(A)			
	Sound power	dB(A)	41	41	41
	Dimensions (WxDxH)	mm	400x260x720		
	Weight	kg	28	28	30
	Finish		Brushed aluminium		
	Exchanger type		Plates		
	Water intake/outlet connections	inches	1" Female		
	Nominal water flow	m <sup>3</sup> /h	1,03	1,23	1,48
	Water outlet temperatures (mini/maxi)	°C	25°C/65°C		
	Available hydraulic pressure	kPa	57	49	56
POWER SUPPLY 1~230V-50Hz	Power cable	mm <sup>2</sup>	3x1,5	3x1,5	3x1,5
	Protection rating	A	4	4	4

\* COP values with defrosting.

\*\* According to application conditions.