



Technical data / Scope of supply

Performance data		Values in brackets: (1 Compressor)		WZSV 62(H)(K)3M	WZSV 92(H)(K)3M
Heating capacity COP	for B0/W35 acc. to DIN EN 14511-x: 2013	Partial load operation	kW COP	3.32 4.86	4.00 4.76
	for B0/W45 acc. to DIN EN 14511-x: 2013	Partial load operation	kW COP	3.09 3.76	3.82 3.74
	for B0/W55 acc. to DIN EN 14511-x: 2013	Partial load operation	kW COP	2.95 3.13	3.41 2.90
	for B7/W35 flow of B0/W35	Partial load operation	kW COP	4.18 5.94	4.91 5.74
Heating capacity	for B0/W35	min. max.	kW kW	1.25 5.95	1.77 8.65
	for B0/W45	min. max.	kW kW	1.16 5.50	1.79 8.42
	for B0/W55	min. max.	kW kW	1.00 5.17	1.96 8.18
	for B7/W35	min. max.	kW kW	1.55 7.20	2.31 10.60
Cooling capacity at max. flow rate (B15/W25), units with passive cooling: Identifier K			kW	5.8	7.8
Operating limits					
Heating circuit return min. Heating circuit flow max.	Heating	within heat source min./max.	°C	20 65	20 65
Heating circuit return min. Heating circuit flow max.	Cooling	within heat source min./max.	°C	18	18
Heat source, heating		min. max.	°C	-5 30	-5 30
Additional operating points			...	B-9/W60	B-9/W60
Sound					
Sound pressure level at 1 m distance from edge of unit		min. max.	dB(A)	29 36	29 39
Sound power level		min. max.	dB(A)	-	-
Sound power level acc. to DIN EN 12102-1: 2017			dB(A)	44 51	44 54
Tonality Low-frequency			dB(A) • yes – no	-	-
Heat source					
Flow rate (pipe dimensioning)			l/h	1450	2000
Max. free heat pump pressure Δp (with cooling ΔpK ***) Flow rate			bar (bar) l/h	0.5 (0.47) 1450	0.56 (0.49) 2000
Approved anti-freeze mixture		Monoethylene glycol Propylene glycol Methanol Ethanol		• • • •	• • • •
Anti-freeze concentration: Minimum frost protection down to			°C	-15	-15
Max. allowable operating pressure			bar	3	3
Circulation pump control range		min. max.	l/h	300 3500	300 4000
Heating circuit					
Flow rate (pipe dimensioning) Min. volume buffer tank in series Min. volume separation buffer tank			l/h l l	1050 - -	1500 - -
Max. free heat pump pressure Δp (with cooling ΔpK) Volume flow			bar (bar) l/h	0.65 (0.63) 1050	0.46 (0.41) 1500
Max. allowable operating pressure			bar	3	3
General unit data					
Total weight (with cooling)			kg (kg)	240 (248)	244 (252)
Box weight (with cooling) Tower weight (with cooling)			kg (kg) kg (kg)	80 (88) 160 (160)	84 (92) 160 (160)
Refrigerant type Refrigerant capacity			... kg	R407c 1.16	R407c 1.25
Domestic hot water tank					
Net volume			l	178	178
Magnesium sacrificial anode		Impressed current Magnesium	• yes – no	• -	• -
Domestic hot water temperature, heating pump mode Electric heating element			up to °C up to °C	58 65	58 65
Mixed water quantity according to ErP: 2009/125/EC (at 40 °C, draw-off of 10 l/min)			l	240	240
Standing loss according to ErP: 2009/125/EC (at 65 °C)			W	60	60
Maximum pressure Test pressure			bar bar	10 13	10 13
Electrics					
Voltage code all-pole fuse protection for heat pump **)			... A	-	-
Voltage code all-pole fuse protection for heat pump *) + electric heating element **)			... A	3~N/PE/400V/50Hz C16	3~N/PE/400V/50Hz C16
Voltage code Control voltage fuse protection **)			... A	1~N/PE/230V/50Hz B10	1~N/PE/230V/50Hz B10
Voltage code Electric heating element fuse protection **)			... A	-	-
HP*): effect. Power consumption B0/W35 (partial load operation) DIN EN 14511-x: 2013 Electric consumption cos ϕ			kW A ...	0.68 3.0 1.0	0.84 3.6 1.0
HP*): effective power consumption B0/W35 acc. to DIN EN 14511-x: 2013: min. max.			kW kW	0.24 1.4	0.3 2.2
HP*): Max. machine current Max. power consumption within the operating limits			A kW	12 2.6	12 2.9
Starting current: direct with soft starter			A A	< 5 -	< 5 -
Degree of protection			IP	20	20
Residual current circuit breaker		if required	type	B	B
Electric heating element output		3 2 1 phase	kW kW kW	- 6 3	- 6 3
Circulation pump power consumption, heating circuit heat source		min. max.	W W	2 - 60 5 - 87	2 - 60 3 - 140
Other unit information					
Safety valve Heating circuit Response pressure		included in scope of supply: • yes – no bar		• 3	• 3
Safety valve Heat source Response pressure		included in scope of supply: • yes – no bar		- -	- -
Buffer tank Volume		included in scope of supply: • yes – no l		- -	- -
Diaphragm expansion vessel Heating circuit Volume Prepressure		incl. in scope of supply: • yes – no l bar		- -	- -
Diaphragm expansion vessel Heat source Volume Prepressure		incl. in scope of supply: • yes – no l bar		- -	- -
Overflow valve Changeover valve, heating -Domestic hot water		integrated: • yes – no		• •	• •
Vibration decoupling, Heating circuit Heat source		included in scope of supply or integrated: • yes – no		• •	• •
Controller Heat quantity recording Extension board		included in scope of supply or integrated: • yes – no		• • -	• • -

*) Only compressor, **) Follow local regulations, ***) Figures for 25% mono-ethylene glycol

The performance data and the operating limits apply to clean heat exchangers

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Technical data / Scope of supply

Performance data		Values in brackets: (1 Compressor)		WZSV 122(H)(K)3M	
Heating capacity COP	for B0/W35 to DIN EN 14511-x: 2013	Partial load operation	kW COP	5.06 4.87	
	for B0/W45 to DIN EN 14511-x: 2013	Partial load operation	kW COP	4.78 3.75	
	for B0/W55 to DIN EN 14511-x: 2013	Partial load operation	kW COP	4.58 3.13	
	for B7/W35 flow of B0/W35	Partial load operation	kW COP	5.92 6.08	
Heating capacity	for B0/W35 to DIN EN 14511-x: 2013	min. max.	kW kW	2.48 13.56	
	for B0/W45 to DIN EN 14511-x: 2013	min. max.	kW kW	2.24 12.88	
	for B0/W55 to DIN EN 14511-x: 2013	min. max.	kW kW	2.54 12.53	
	for B7/W35 to DIN EN 14511-x: 2013	min. max.	kW kW	2.94 15.82	
Cooling capacity at max. volume flow (B15/W25), units with passive cooling: Identifier K			kW	12.3	
Limits of use					
Heating circuit return min. Heating circuit flow max. Heating		within heat source min./max.	°C	20 65	
Heating circuit return min. Heating circuit flow max. Cooling		within heat source min./max.	°C	18	
Heat source		min. max.	°C	-5 30	
Additional operating points			...	B-9/W60	
Sound					
Sound pressure level at 1 m distance from edge of unit		min. max.	dB(A)	29 38	
Sound power level		min. max.	dB(A)	—	
Sound power level acc. to DIN EN 12102-1: 2017			dB(A)	44 53	
Tonality Low-frequency			dB(A) • yes – no	–	
Heat source					
Flow rate (pipe dimensioning)			l/h	3200	
Max. free heat pump pressure Δp (with cooling ΔpK) *** Flow rate			bar (bar) l/h	1.08 (1.03) 1270	
Approved anti-freeze mixture		Monoethylene glycol Propylene glycol Methanol Ethanol		• • • •	
Anti-freeze concentration: Minimum frost protection down to			°C	-15	
Max. allowable operating pressure			bar	3	
Circulation pump control range		min. max.	l/h	—	
Heating circuit					
Flow rate (pipe dimensioning) Min. volume buffer tank in series Min. volume separation buffer tank			l/h	2300 – –	
Max. free heat pump pressure Δp (with cooling ΔpK) Volume flow			bar (bar) l/h	0.69 (0.65) 870	
Max. allowable operating pressure			bar	3	
General unit data					
Total weight (with cooling)			kg (kg)	263 (271)	
Box weight (with cooling) Tower weight (with cooling)			kg (kg) kg (kg)	103 (111) 160 (160)	
Refrigerant type Refrigerant capacity			... kg	R407c 2.0	
Domestic hot water tank					
Net volume			l	178	
Magnesium sacrificial anode Impressed current Magnesium			• yes – no	•	
Domestic hot water temperature, heating pump mode Electric heating element			up to °C up to °C	58 65	
Mixed water quantity according to ERP: 2009/125/EC (at 40 °C, draw-off of 10 l/min)			l	240	
Standing loss according to ERP: 2009/125/EC (at 65 °C)			W	60	
Maximum pressure Test pressure			bar bar	10	
Electrics					
Voltage code all-pole fuse protection for heat pump **)			... A	3~N/PE/400V/50Hz C10	
Voltage code all-pole fuse protection for heat pump *) + electric heating element **)			... A	–	
Voltage code Control voltage fuse protection **)			... A	1~N/PE/230V/50Hz B10	
Voltage code Electric heating element fuse protection **)			... A	3~N/PE/400V/50Hz B16	
HP*): effect. Power consumption B0/W35 (partial load operation) DIN EN 14511-x: 2013 Electric consumption I cosφ			kW A ...	1.04 1.7 0.88	
HP*): effective power consumption B0/W35 acc. to DIN EN 14511-x: 2013: min. max.			kW kW	0.53 3.29	
HP*): Max. machine current Max. power consumption within the operating limits			A kW	9.0 5.5	
Starting current: direct with soft starter			A A	< 5 –	
Degree of protection			IP	20	
Residual current circuit breaker if required			type	B	
Electric heating element output 3 2 1 phase			kW kW kW	9 6 3	
Circulation pump power consumption, heating circuit heat source		min. max.	W W	2 – 60 3 – 180	
Other unit information					
Safety valve Heating circuit Response pressure		included in scope of supply: • yes – no bar		• 3	
Safety valve Heat source Response pressure		included in scope of supply: • yes – no bar		– –	
Buffer tank Volume		included in scope of supply: • yes – no l		– –	
Diaphragm expansion vessel Heating circuit Volume Prepressure		incl. in scope of supply: • yes – no bar		– –	
Diaphragm expansion vessel Heat source Volume Prepressure		incl. in scope of supply: • yes – no bar		– –	
Overflow valve Changeover valve, heating -Domestic hot water		integrated: • yes – no		• •	
Vibration decoupling, Heating circuit Heat source		included in scope of supply or integrated: • yes – no		• •	
Controller Heat quantity recording Extension board		included in scope of supply or integrated: • yes – no		• • –	

*) Only compressor, **) Follow local regulations, ***) Figures for 25% mono-ethylene glycol

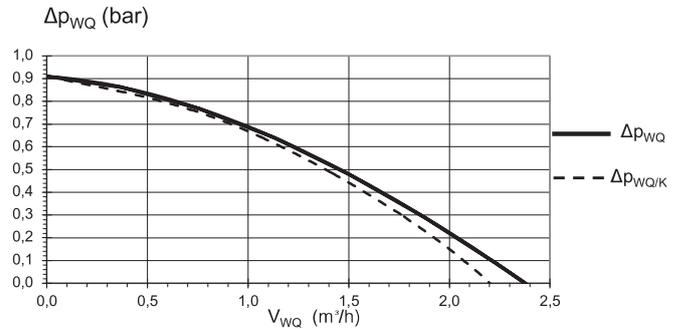
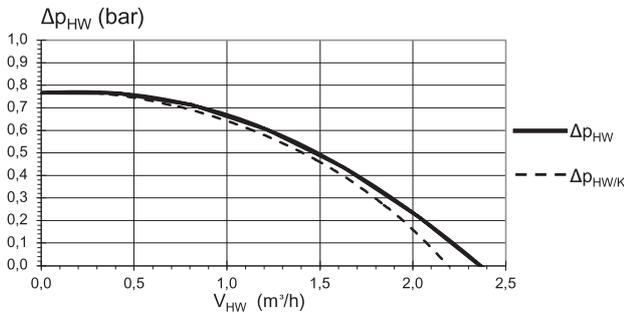
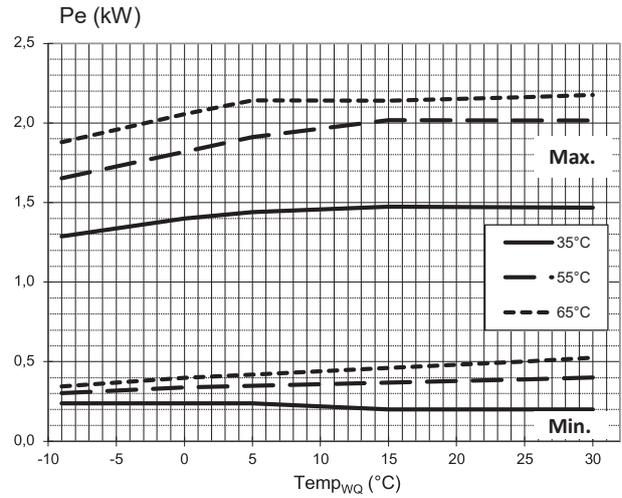
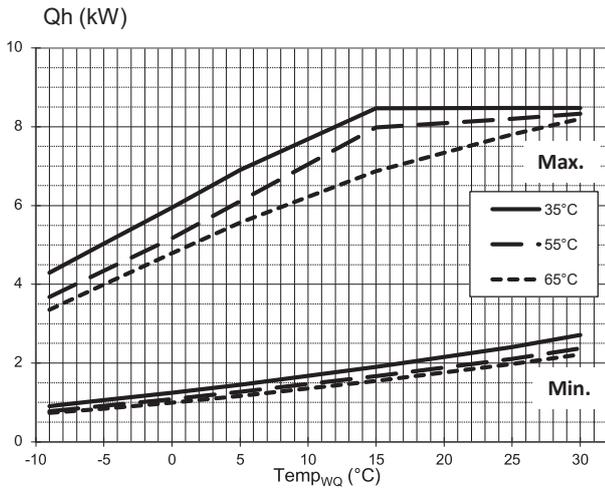
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The performance data and the operating limits apply to clean heat exchangers



WZSV 62(H)(K)3M

Performance curves



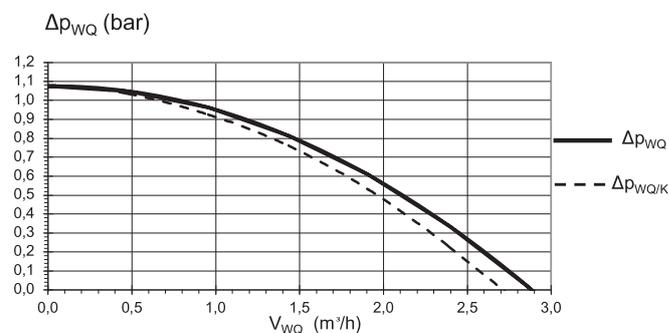
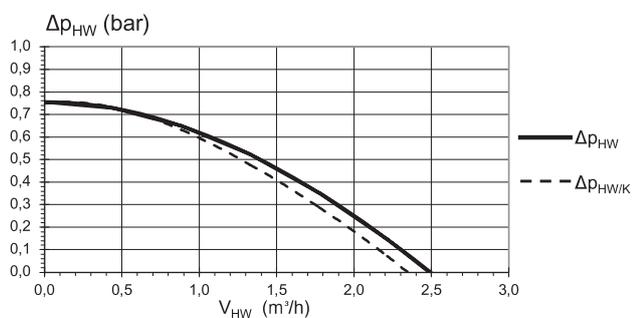
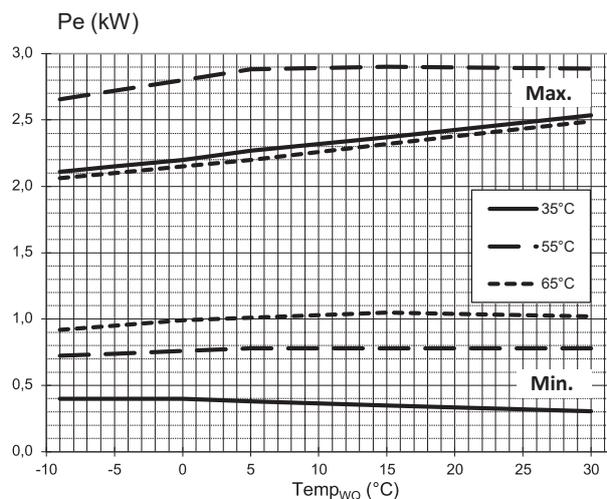
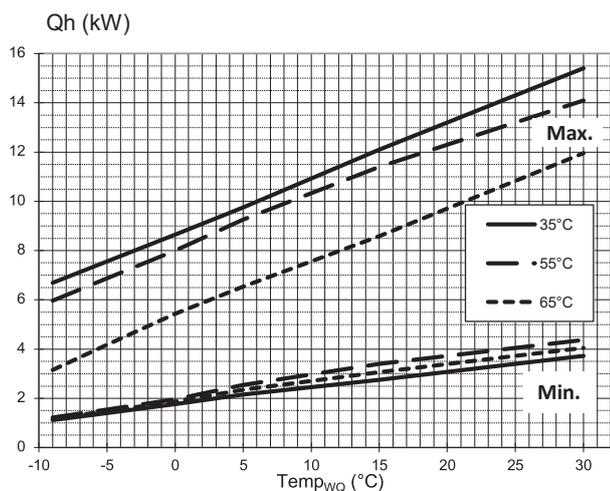
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Keys:	UK823000L/170408
\dot{V}_{HW}	Heating water volume flow rate
\dot{V}_{WQ}	Heat source volume flow rate
Temp _{WQ}	Heat source temperature
Q _h	Heating capacity
Pe	Power consumption
COP	Coefficient of performance
$\Delta p_{HW} / \Delta p_{HW/K}$	Heating circuit free pressure / Heating circuit with cooling free pressure
$\Delta p_{WQ} / \Delta p_{WQ/K}$	Heat source free pressure / Heat source with cooling free pressure



Performance curves

WZSV 92(H)(K)3M



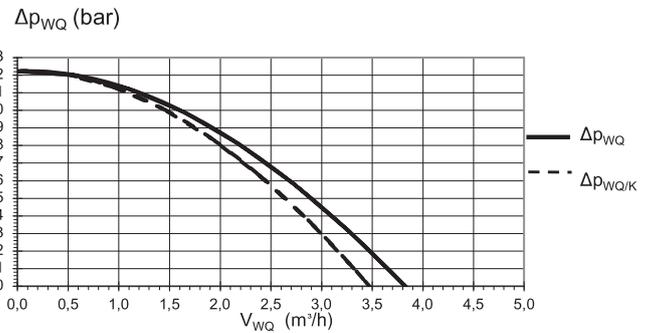
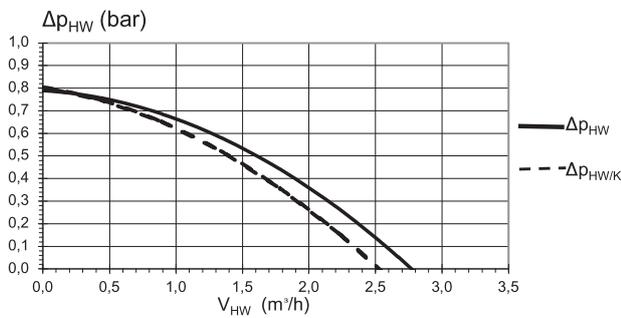
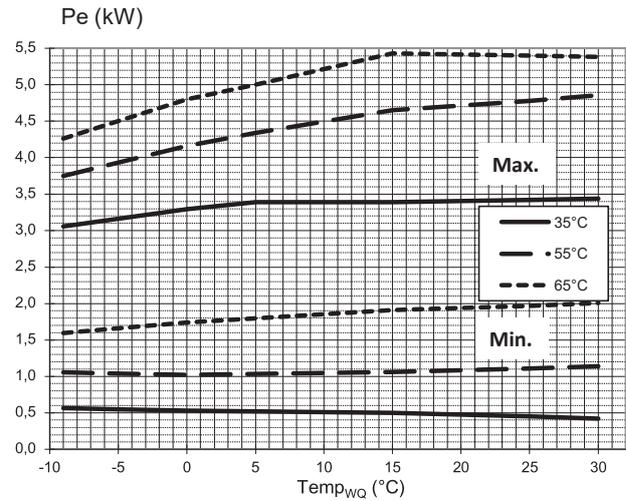
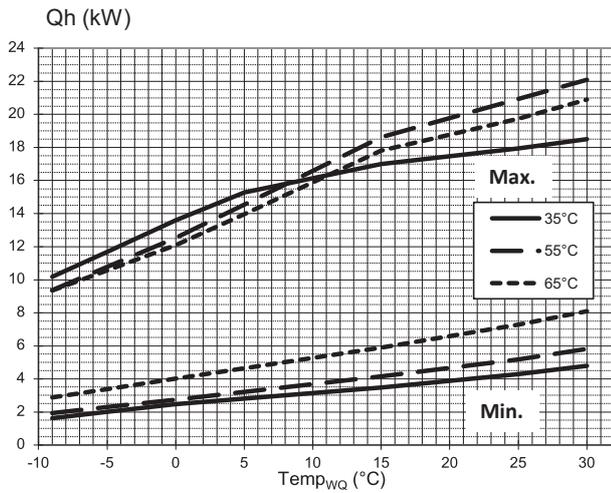
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Keys:	UK823000L/170408
\dot{V}_{HW}	Heating water volume flow rate
\dot{V}_{wQ}	Heat source volume flow rate
Temp _{wQ}	Heat source temperature
Q _h	Heating capacity
Pe	Power consumption
COP	Coefficient of performance
$\Delta p_{HW} / \Delta p_{HW/K}$	Heating circuit free pressure / Heating circuit with cooling free pressure
$\Delta p_{wQ} / \Delta p_{wQ/K}$	Heat source free pressure / Heat source with cooling free pressure



WZSV 122(H)(K)3M

Performance curves



823274b

Keys:	UK823000L/170408
\dot{V}_{HW}	Heating water volume flow rate
\dot{V}_{WQ}	Heat source volume flow rate
Temp _{WQ}	Heat source temperature
Q _h	Heating capacity
Pe	Power consumption
COP	Coefficient of performance
$\Delta p_{HW} / \Delta p_{HW/K}$	Heating circuit free pressure / Heating circuit with cooling free pressure
$\Delta p_{WQ} / \Delta p_{WQ/K}$	Heat source free pressure / Heat source with cooling free pressure

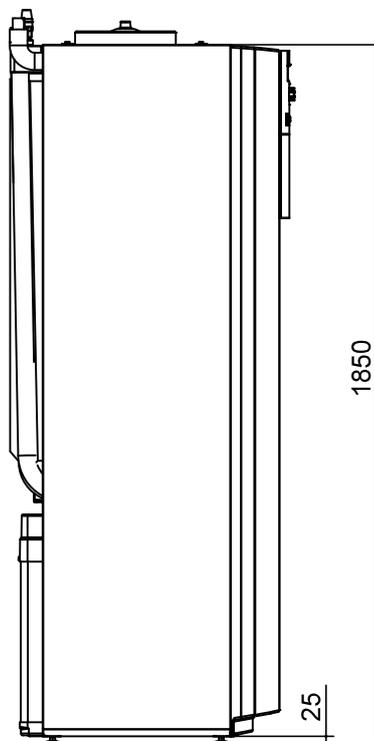
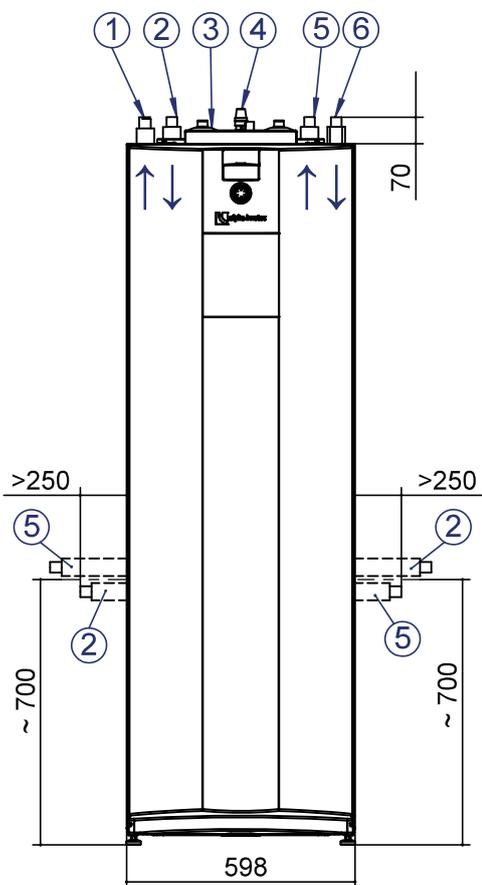


Dimensional drawings

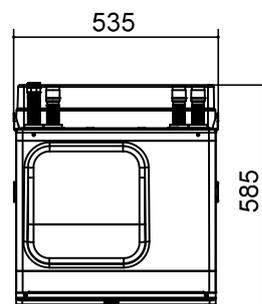
WZSV 62(H)(K)3M – WZSV 122(H)(K)3M

A

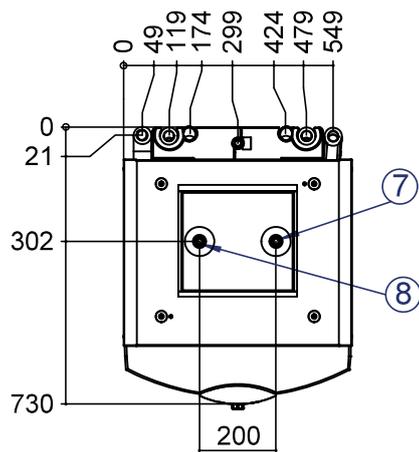
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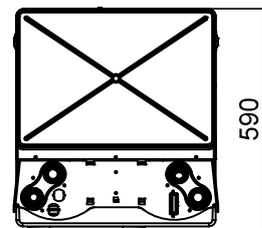
A1



C



C1



Pos.	Name	Dim.
1	Heating water outlet (flow)	Ø 28 *)
2	Heat source inlet (in heat pump) optionally at the top, on the right or left	Ø 28 *)
3	Heating water inlet (return)	Ø 33 **)
4	Heating circuit safety valve (in the separate package)	Rp 3/4" internal thread
5	Heat source outlet (from heat pump) optionally at top, right or left	Ø 28 *)
6	Domestic hot water charging circuit inlet (Return)	Ø 28 *)
7	Drinkwater warm	R 3/4" external thread
8	Drinkwater cold	R 3/4" external thread

Keys: UK819447a

All dimensions in mm..

A	Front view
B	Side view from left
C	Plan view
A1	Front view of module box
C1	Top view of module box

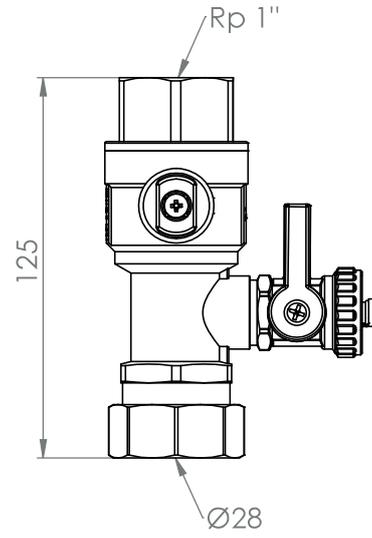
*) outside diameter **) inside diameter



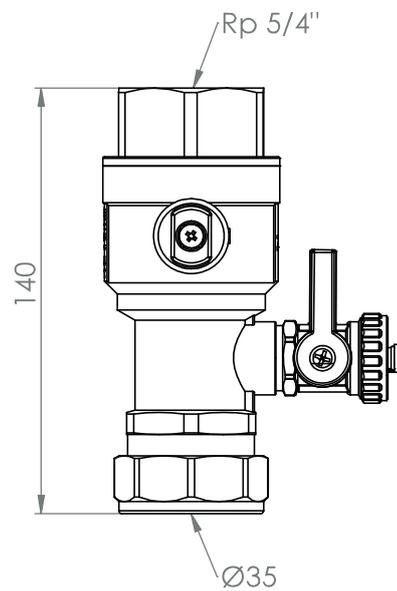
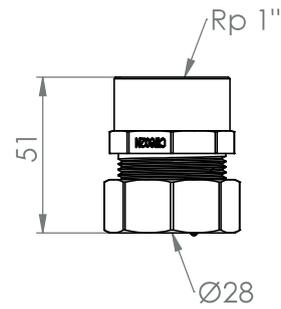
Connections

Dimensional drawings

Heating circuit



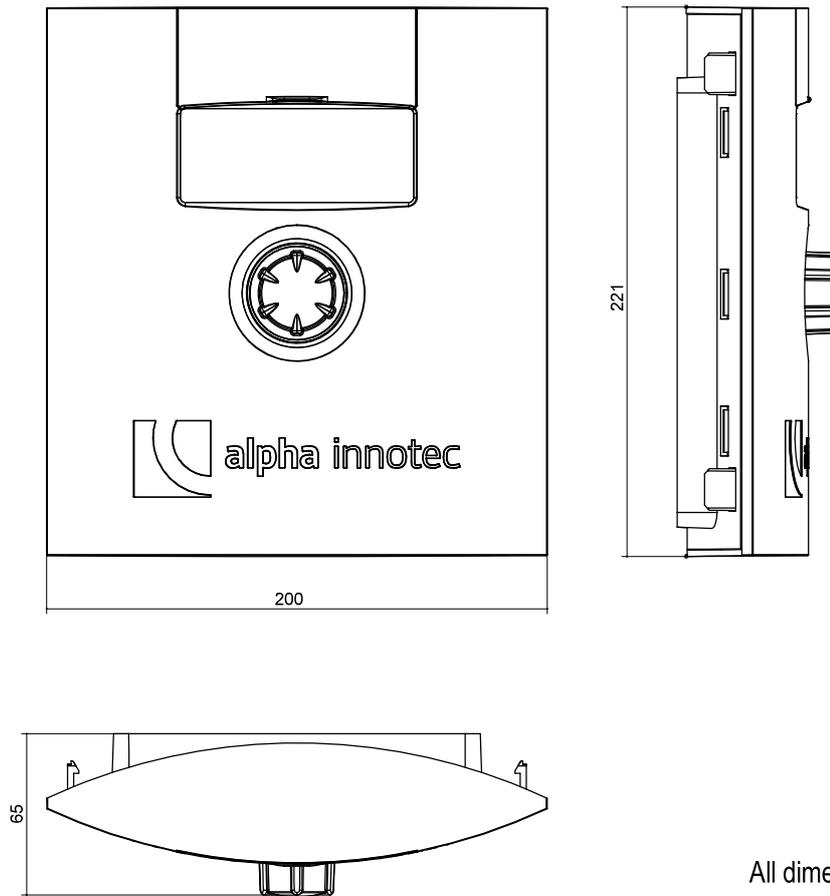
Heating source





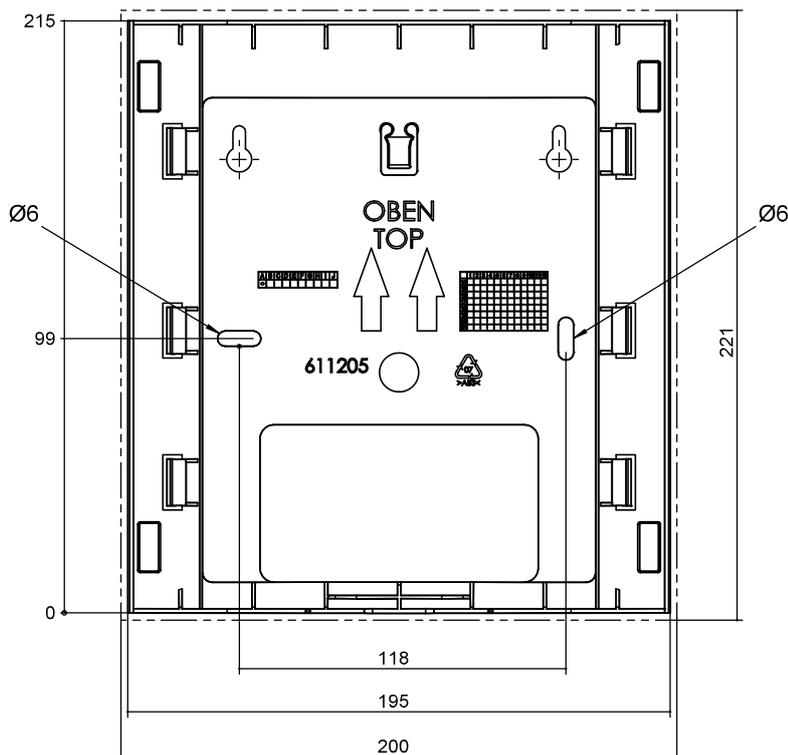
Dimensional drawings

Control unit



All dimensions in mm..

Wall-mounted bracket



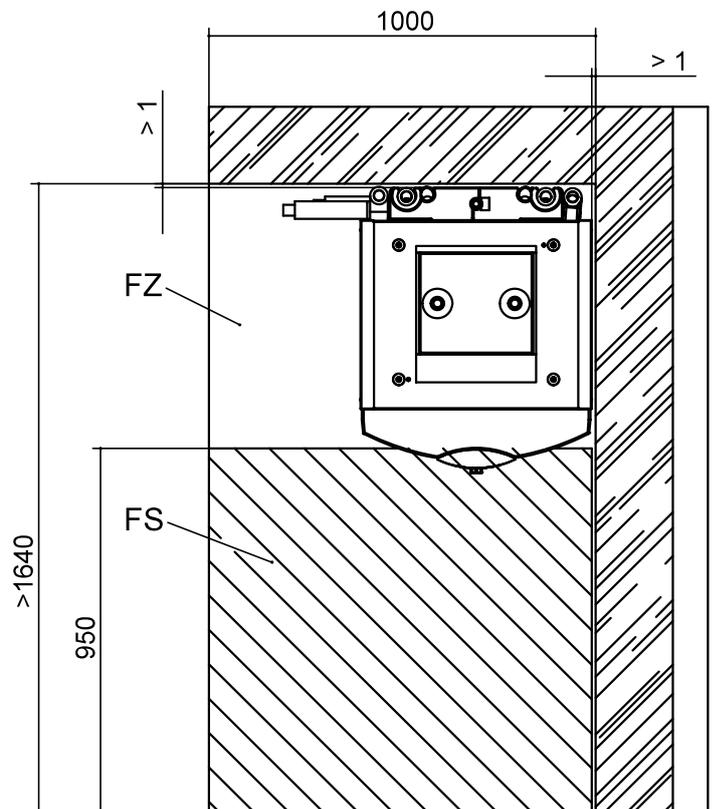
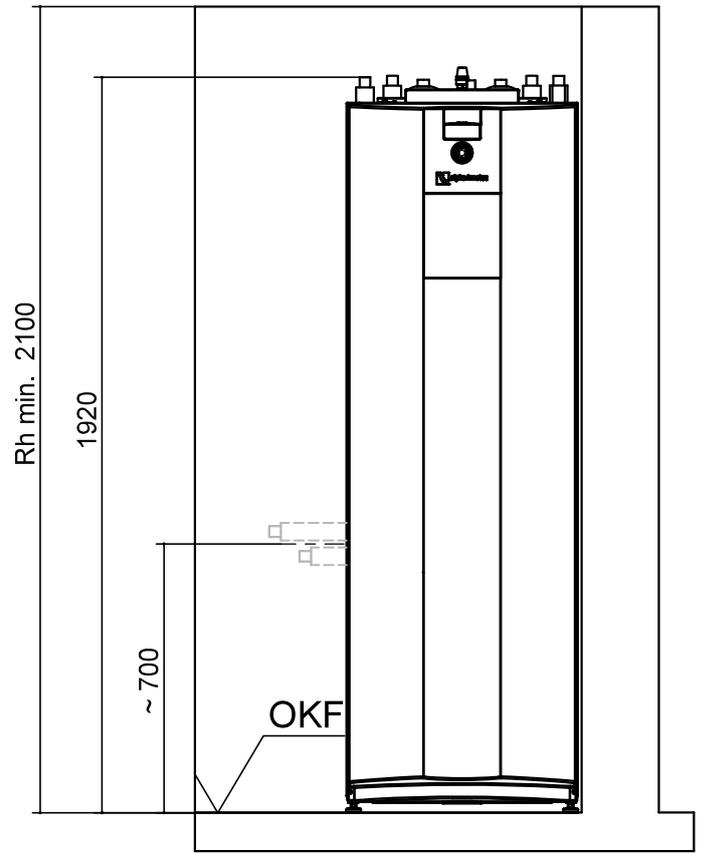
All dimensions in mm..



WZSV 62(H)(K)3M – WZSV 122(H)(K)3M

Installation plan 1

V1



Keys: UK819448

All dimensions in mm.

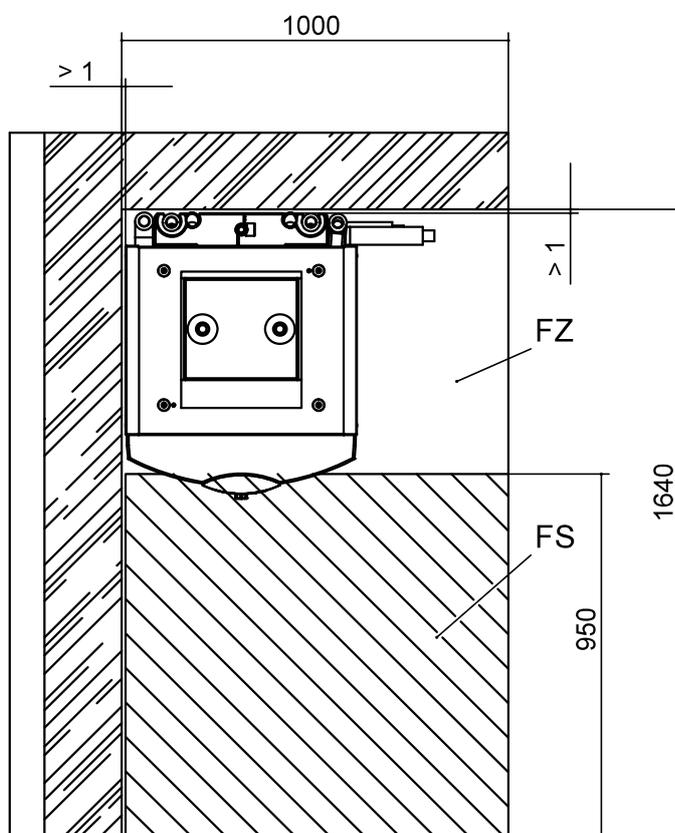
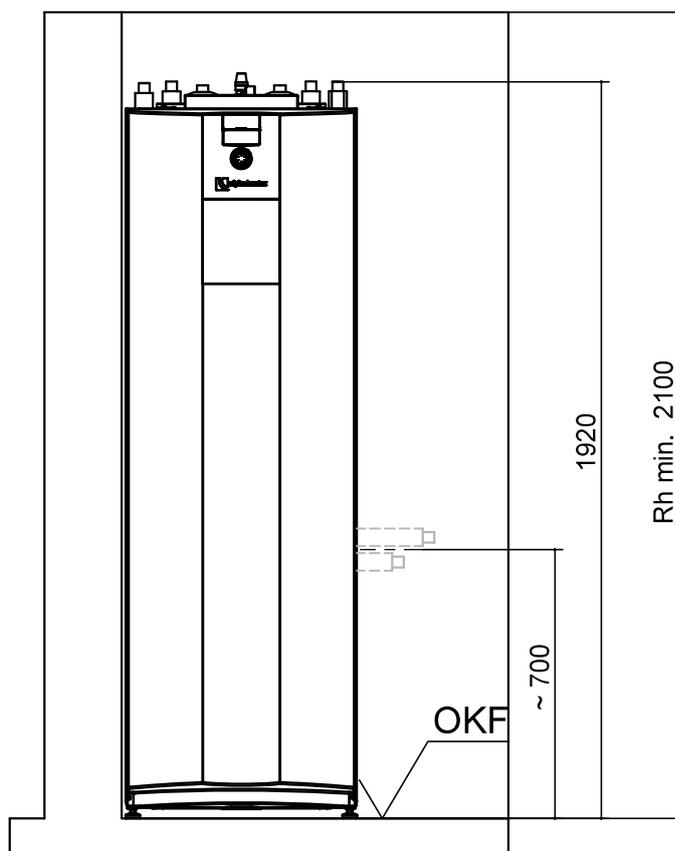
V1	Version 1
FS	Free space for service purposes
FZ	Free space for functionally necessary accessories
OKF	Finished floor level
Rh min.	minimum room height



Installation plan 2

V2

WZSV 62(H)(K)3M – WZSV 122(H)(K)3M



Keys: UK819448

All dimensions in mm.

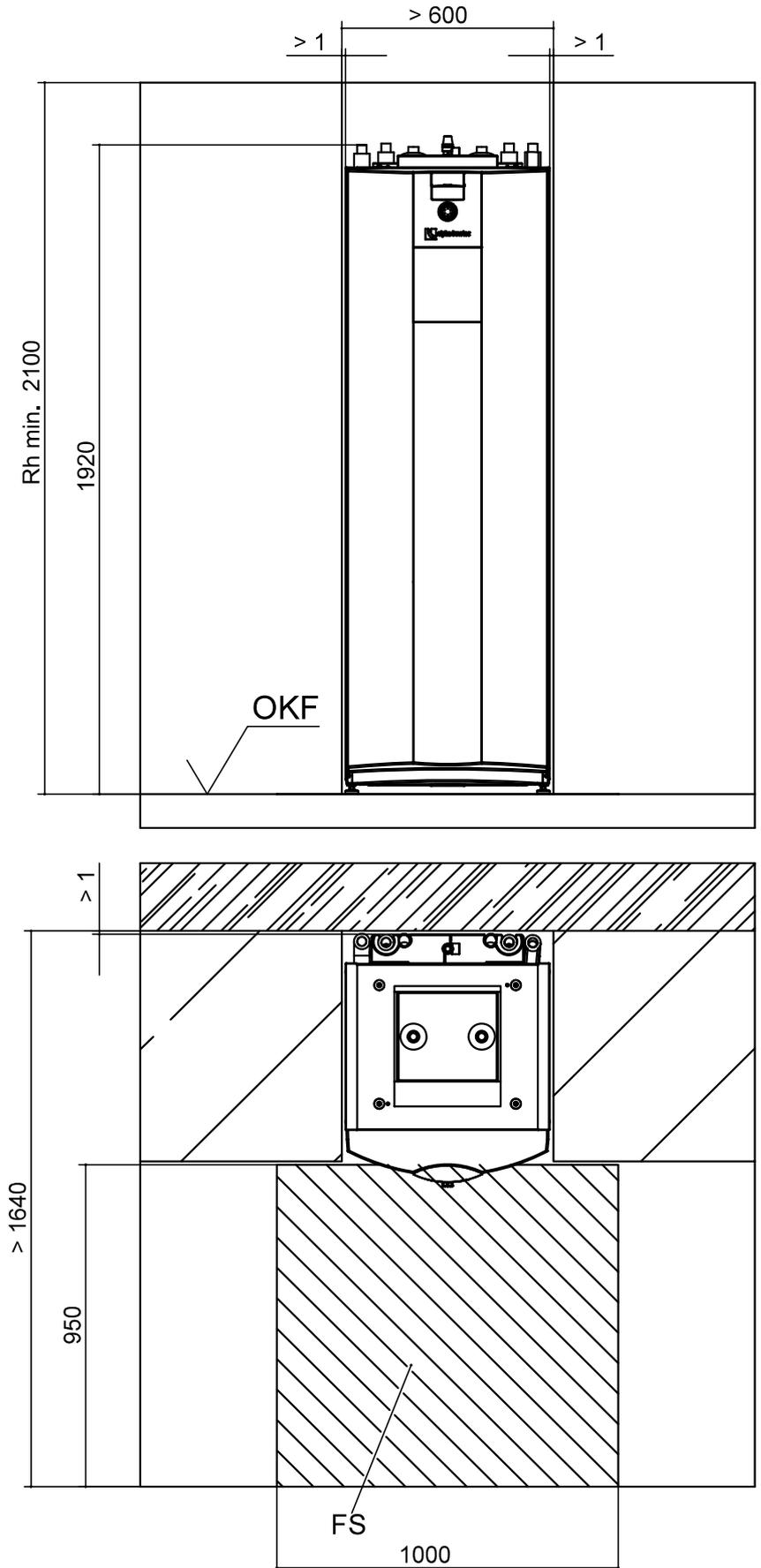
V2	Version 2
FS	Free space for service purposes
FZ	Free space for functionally necessary accessories
OKF	Finished floor level
Rh min.	minimum room height



WZSV 62(H)(K)3M – WZSV 122(H)(K)3M

Installation plan 3

V3



Keys: UK819448

All dimensions in mm.

V3	Version 3
FS	Free space for service purposes
OKF	Finished floor level
Rh min.	minimum room height