



Technical data/Scope of supply

SWC 42(H)(K)3 – SWC 102(H)(K)3

Performance data: Heating output / COP		SWC 42(H)(K)3	SWC 62(H)(K)3
Heating capacity CO ₂	at B0/W35 operating point to EN14511	kW COP 4,70 4,70	6,11 4,68
	at B0/W45 operating point to EN14511	kW COP 4,42 3,42	5,38 3,63
	at B0/W55 operating point to EN14511	kW COP 4,16 2,58	4,70 2,93
	at B7/W35 flows analogous to B0/W35	kW COP 5,83 5,70	7,30 5,61
Cooling capacity at max. flow rate (B15/W25), units with passive cooling: Identifier K:		kW 4,3	5,4
Limits of use			
Heating circuit return min. Heating circuit flow max.		°C 20 60	20 60
Heat source return		min. max. °C -5 – 25	-5 – 25
additional operating points		... B0W65	B0W65
Sound			
Sound pressure level at 1m distance from edge of unit		dB(A) 31	32
Sound power level to EN12102		dB(A) 43	44
Heat source			
Flow rate: minimum nominal analogous to B0/W35 maximum		l/h 700 1050 1575	900 1350 2000
Max. free heat pump pressure Δp (with cooling ΔpK) *** Flow rate		bar (bar) l/h 0,75 (—) 1050	0,68 (0,66) 1350
Approved anti-freeze		Monoethylene glycol Propylene glycol Methanol Ethanol	• • • •
Anti-freeze concentration: Minimum frost protection down to		°C -13	-13
max. allowable operating pressure		bar 3	3
Heating circuit			
Flow rate: minimum nominal analogous to B0W35 (50Hz) maximum		l/h 450 850 1300	500 1000 1250
Max. free heat pump pressure Δp (with cooling ΔpK) Volume flow		bar bar l/h 0,71 (0,69) 850	0,7 (0,68) 1000
Pressure losses, heat pump Δp Volume flow		bar l/h — (—) —	— (—) —
max. allowable operating pressure		bar 3	3
General unit data			
Total weight (with cooling)		kg (kg) 155 (163)	160 (168)
Box weight (with cooling) Tower weight (with cooling)		kg (kg) kg (kg) 90 (98) 65 (65)	95 (103) 65 (65)
Refrigerant type Refrigerant capacity		... kg R410A 1,05	R410A 1,42
Domestic hot water tank			
Net volume		l —	—
Impressed current anode		integrated: • yes — no	—
Domestic hot water temperature, heating pump mode Electric heating element		up to °C up to °C — —	— —
Mixed water quantity according to ErP: 2009/125/EC (at 40°C, draw-off of 10 l/min)		l —	—
Standing loss according to ErP: 2009/125/EC (at 65°C)		W —	—
Maximum pressure		bar —	—
Electrics			
Voltage code all-pole heat pump fusing *)**)		... A 3~PE/400V/50Hz C10	3~PE/400V/50Hz C10
Voltage code Control voltage fusing **)		... A 1~N/PE/230V/50Hz B10	1~N/PE/230V/50Hz B10
Voltage code Electric heating element fusing **)		... A 3~N/PE/400V/50Hz B16	3~N/PE/400V/50Hz B16
Voltage code all-pole fusing for connection via a joint supply cable*)**)		... A — —	— —
WP*): effect. Power input at B0/W35 to EN14511 Current input cosφ		kW A ... 1,00 2,44 0,59	1,25 2,5 0,72
WP*): Max. machine current Max. power input within the limits of use		A kW 4,8 2,3	5,0 2,5
Starting current: direct with soft starter		A A 22,0 —	23,0 —
Degree of protection		IP 20	20
Electric heating element output		kW 9 6 3	9 6 3
Circulation pump power consumption, heating circuit heat source		min. — max. W W 2 – 60 5 – 87	2 – 60 5 – 87
Other unit information			
Safety valve, heating circuit Heat source		included in scope of supply: • yes — no	— —
Expansion valve, heating circuit Heat source		included in scope of supply: • yes — no	— —
Overflow valve Changeover valve, heating -Domestic hot water		integrated: • yes — no	• •
Vibration isolators, heating circuit Heat source		integrated: • yes — no	• •
*) Only compressor, **) Follow local regulations, ***) Figures for 25% mono-ethylene glycol		813465a	813466a



Performance data: Heating output / COP		SWC 82(H)(K)3	SWC 102(H)(K)3	
Heating capacity COP	at B0/W35 operating point to EN14511	kW COP	7,70 4,90	9,34 5,05
	at B0/W45 operating point to EN14511	kW COP	6,84 3,61	8,84 3,80
	at B0/W55 operating point to EN14511	kW COP	6,49 2,91	8,30 2,82
	at B7/W35 flows analogous to B0/W35	kW COP	9,20 5,96	11,19 6,30
Cooling capacity at max. flow rate (B15/W25), units with passive cooling: Identifier K:		kW	7,0	8,6
Limits of use				
Heating circuit return min. Heating circuit flow max.		°C	20 60	20 60
Heat source return	min. max.	°C	-5 - 25	-5 - 25
additional operating points		...	B0W65	B0W65
Sound				
Sound pressure level at 1m distance from edge of unit		dB(A)	31	32
Sound power level to EN12102		dB(A)	43	44
Heat source				
Flow rate: minimum nominal analogous to B0/W35 maximum		l/h	1200 1750 2600	1500 2200 3300
Max. free heat pump pressure Δp (with cooling Δp_K ***) Flow rate		bar (bar) l/h	0,76 (0,70) 1750	0,93 (0,86) 2200
Approved anti-freeze	Monoethylene glycol Propylene glycol Methanol Ethanol		• • • •	• • • •
Anti-freeze concentration: Minimum frost protection down to		°C	-13	-13
max. allowable operating pressure		bar	3	3
Heating circuit				
Flow rate: minimum nominal analogous to B0W35 (50Hz) maximum		l/h	650 1300 1600	800 1600 2000
Max. free heat pump pressure Δp (with cooling Δp_K) Volume flow		bar bar l/h	0,57 (0,54) 1300	0,52 (0,48) 1600
Pressure losses, heat pump Δp Volume flow		bar l/h	- (-) -	- (-) -
max. allowable operating pressure		bar	3	3
General unit data				
Total weight (with cooling)		kg (kg)	175 (183)	180 (188)
Box weight (with cooling) Tower weight (with cooling)		kg (kg) kg (kg)	110 (118) 65 (65)	115 (123) 65 (65)
Refrigerant type Refrigerant capacity		... kg	R410A 1,72	R410A 1,98
Domestic hot water tank				
Net volume		l	-	-
Impressed current anode	integrated: • yes — no		-	-
Domestic hot water temperature, heating pump mode Electric heating element	up to °C up to °C		- -	- -
Mixed water quantity according to ErP: 2009/125/EC (at 40°C, draw-off of 10 l/min)		l	-	-
Standing loss according to ErP: 2009/125/EC (at 65°C)		W	-	-
Maximum pressure		bar	-	-
Electrics				
Voltage code all-pole heat pump fusing *)**) ... A			3~PE/400V/50Hz C10	3~PE/400V/50Hz C10
Voltage code Control voltage fusing **) ... A			1~N/PE/230V/50Hz B10	1~N/PE/230V/50Hz B10
Voltage code Electric heating element fusing **) ... A			3~N/PE/400V/50Hz B16	3~N/PE/400V/50Hz B16
Voltage code all-pole fusing for connection via a joint supply cable*)**) ... A			- -	- -
WP*): effect. Power input at B0/W35 to EN14511 Current input cos ϕ		kW A ...	1,57 3,02 0,75	1,87 3,73 0,72
WP*): Max. machine current Max. power input within the limits of use		A kW	6,01 3,10	7,63 4,00
Starting current: direct with soft starter		A A	30,0 -	- 22,0
Degree of protection		IP	20	20
Electric heating element output		kW	9 6 3	9 6 3
Circulation pump power consumption, heating circuit heat source	min. — max.	W W	2 - 60 3 - 140	2 - 60 2 - 180
Other unit information				
Safety valve, heating circuit Heat source	included in scope of supply: • yes — no		- -	- -
Expansion valve, heating circuit Heat source	included in scope of supply: • yes — no		- -	- -
Overflow valve Changeover valve, heating - Domestic hot water	integrated: • yes — no		• •	• •
Vibration isolators, heating circuit Heat source	integrated: • yes — no		• •	• •
*) Only compressor, **) Follow local regulations, ***) Figures for 25% mono-ethylene glycol			813467a	813468a



Technical data/Scope of supply

SWC 122(H)(K)3 – SWC 192(H)(K)3

Performance data: Heating output / COP		SWC 122(H)(K)3	SWC 142(H)(K)3	
Heating capacity CO ₂	at B0/W35 operating point to EN14511	kW COP	12,18 5,00	13,50 5,08
	at B0/W45 operating point to EN14511	kW COP	11,24 3,76	12,29 3,76
	at B0/W55 operating point to EN14511	kW COP	10,63 2,97	11,76 2,94
	at B7/W35 flows analogous to B0/W35	kW COP	14,55 6,06	16,07 6,31
Cooling capacity at max. flow rate (B15/W25), units with passive cooling: Identifier K:		kW	10,8	12,5
Limits of use				
Heating circuit return min. Heating circuit flow max.		°C	20 60	20 60
Heat source return		min. max. °C	-5 – 25	-5 – 25
additional operating points		...	B0W65	B0W65
Sound				
Sound pressure level at 1m distance from edge of unit		dB(A)	31	35
Sound power level to EN12102		dB(A)	43	48
Heat source				
Flow rate: minimum nominal analogous to B0/W35 maximum		l/h	1900 2800 4200	2100 3150 4750
Max. free heat pump pressure Δp (with cooling ΔpK) ***) Flow rate		bar (bar) l/h	0,7 (0,6) 2800	0,76 (0,7) 3150
Approved anti-freeze		Monoethylene glycol Propylene glycol Methanol Ethanol	• • • •	• • • •
Anti-freeze concentration: Minimum frost protection down to		°C	-13	-13
max. allowable operating pressure		bar	3	3
Heating circuit				
Flow rate: minimum nominal analogous to B0W35 (50Hz) maximum		l/h	1050 2050 2600	1150 2300 2900
Max. free heat pump pressure Δp (with cooling ΔpK) Volume flow		bar bar l/h	0,38 (0,31) 2050	0,50 (0,41) 2300
Pressure losses, heat pump Δp Volume flow		bar l/h	– (–) –	– (–) –
max. allowable operating pressure		bar	3	3
General unit data				
Total weight (with cooling)		kg (kg)	185 (193)	200 (212)
Box weight (with cooling) Tower weight (with cooling)		kg (kg) kg (kg)	120 (128) 65 (65)	130 (130) 70 (82)
Refrigerant type Refrigerant capacity		... kg	R410A 2,25	R410A 2,38
Domestic hot water tank				
Net volume		l	–	–
Impressed current anode		integrated: • yes – no	–	–
Domestic hot water temperature, heating pump mode Electric heating element		up to °C up to °C	– –	– –
Mixed water quantity according to ErP: 2009/125/EC (at 40°C, draw-off of 10 l/min)		l	–	–
Standing loss according to ErP: 2009/125/EC (at 65°C)		W	–	–
Maximum pressure		bar	–	–
Electrics				
Voltage code all-pole heat pump fusing *)**)		... A	3~PE/400V/50Hz C10	3~PE/400V/50Hz C10
Voltage code Control voltage fusing **)		... A	1~N/PE/230V/50Hz B10	1~N/PE/230V/50Hz B10
Voltage code Electric heating element fusing **)		... A	3~N/PE/400V/50Hz B16	3~N/PE/400V/50Hz B16
Voltage code all-pole fusing for connection via a joint supply cable*)**)		... A	– –	– –
WP*): effect. Power input at B0/W35 to EN14511 Current input cosφ		kW A ...	2,44 4,70 0,75	2,66 4,84 0,79
WP*): Max. machine current Max. power input within the limits of use		A kW	9,44 4,80	10,62 5,60
Starting current: direct with soft starter		A A	– 26,0	– 27,0
Degree of protection		IP	20	20
Electric heating element output		kW	9 6 3	9 6 3
Circulation pump power consumption, heating circuit heat source		min. – max. W W	2 – 60 2 – 180	5 – 87 3 – 180
Other unit information				
Safety valve, heating circuit Heat source		included in scope of supply: • yes – no	– –	– –
Expansion valve, heating circuit Heat source		included in scope of supply: • yes – no	– –	– –
Overflow valve Changeover valve, heating -Domestic hot water		integrated: • yes – no	• •	• •
Vibration isolators, heating circuit Heat source		integrated: • yes – no	• •	• •
*) Only compressor, **) Follow local regulations, ***) Figures for 25% mono-ethylene glycol			813469a	813470a



Performance data: Heating output / COP		SWC 172(H)(K)3	SWC 192(H)(K)3
Heating capacity CO ₂	at B0/W35 operating point to EN14511	kW COP 16,86 4,93	18,60 4,87
	at B0/W45 operating point to EN14511	kW COP 16,15 3,82	17,08 3,73
	at B0/W55 operating point to EN14511	kW COP 15,59 3,07	16,36 2,88
	at B7/W35 flows analogous to B0/W35	kW COP 19,80 5,88	21,80 5,84
Cooling capacity at max. flow rate (B15/W25), units with passive cooling: Identifier K:		kW 14,9	16,6
Limits of use			
Heating circuit return min. Heating circuit flow max.		°C 20 60	20 60
Heat source return min. max.		°C -5 - 25	-5 - 25
additional operating points		... BOW65	BOW65
Sound			
Sound pressure level at 1m distance from edge of unit		dB(A) 34	37
Sound power level to EN12102		dB(A) 47	50
Heat source			
Flow rate: minimum nominal analogous to B0/W35 maximum		l/h 2700 4000 6000	3000 4400 6600
Max. free heat pump pressure Δp (with cooling ΔpK) ***) Flow rate		bar (bar) l/h 0,50 (0,46) 4000	0,40 (0,34) 4400
Approved anti-freeze Monoethylene glycol Propylene glycol Methanol Ethanol		• • • •	• • • •
Anti-freeze concentration: Minimum frost protection down to		°C -13	-13
max. allowable operating pressure		bar 3	3
Heating circuit			
Flow rate: minimum nominal analogous to BOW35 (50Hz) maximum		l/h 1450 2850 3600	1600 3200 4000
Max. free heat pump pressure Δp (with cooling ΔpK) Volume flow		bar bar l/h 0,39 (0,25) 2850	0,62 (0,47) 3200
Pressure losses, heat pump Δp Volume flow		bar l/h - (-) -	- (-) -
max. allowable operating pressure		bar 3	3
General unit data			
Total weight (with cooling)		kg (kg) 205 (217)	210 (222)
Box weight (with cooling) Tower weight (with cooling)		kg (kg) kg (kg) 135 (135) 70 (82)	140 (140) 70 (82)
Refrigerant type Refrigerant capacity		... kg R410A 2,65	R410A 2,80
Domestic hot water tank			
Net volume		l -	-
Impressed current anode integrated: • yes — no		-	-
Domestic hot water temperature, heating pump mode Electric heating element up to °C up to °C		- -	- -
Mixed water quantity according to ErP: 2009/125/EC (at 40°C, draw-off of 10 l/min)		l -	-
Standing loss according to ErP: 2009/125/EC (at 65°C)		W -	-
Maximum pressure		bar -	-
Electrics			
Voltage code all-pole heat pump fusing *)**)		... A 3~PE/400V/50Hz C16	3~PE/400V/50Hz C16
Voltage code Control voltage fusing **)		... A 1~N/PE/230V/50Hz B10	1~N/PE/230V/50Hz B10
Voltage code Electric heating element fusing **)		... A 3~N/PE/400V/50Hz B16	3~N/PE/400V/50Hz B16
Voltage code all-pole fusing for connection via a joint supply cable*)**)		... A - -	- -
WP*): effect. Power input at B0/W35 to EN14511 Current input cosφ		kW A ... 3,35 7,90 0,61	3,82 8,71 0,63
WP*): Max. machine current Max. power input within the limits of use		A kW 19,0 6,90	18,0 7,50
Starting current: direct with soft starter		A A - 30,0	- 33,0
Degree of protection		IP 20	20
Electric heating element output		kW 9 6 3	9 6 3
Circulation pump power consumption, heating circuit heat source min. — max.		W W 5 - 87 3 - 180	3 - 140 3 - 180
Other unit information			
Safety valve, heating circuit Heat source included in scope of supply: • yes — no		- -	- -
Expansion valve, heating circuit Heat source included in scope of supply: • yes — no		- -	- -
Overflow valve Changeover valve, heating - Domestic hot water integrated: • yes — no		• •	• •
Vibration isolators, heating circuit Heat source integrated: • yes — no		• •	• •
*) Only compressor, **) Follow local regulations, ***) Figures for 25% mono-ethylene glycol		813471b	813472c