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Summary of	VERSI 0209	Reg. No.	011-1W0519
Certificate Holder			
Name	KRONOTERM d.o.o.		
Address	Trnava 5e	Zip	3303
City	Gomilsko	Country	Slovenia
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	VERSI 0209		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R452B		
Mass of Refrigerant	1.5 kg		
Certification Date	18.01.2022		
Testing basis	HP KEYMARK certification scheme rules rev. 9		

## Model: VERSI-I 0209-K1 HT / HK UF E

Configure model	
Model name	VERSI-I 0209-K1 HT / HK UF E
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.13 kW	6.09 kW
El input	1.28 kW	1.95 kW
COP	4.80	3.13

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### Average Climate

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### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	42 dB(A)
Sound power level outdoor	45 dB(A)	45 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	186 %	141 %
Prated	6.50 kW	6.10 kW
SCOP	4.84	3.66
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.76 kW	5.46 kW
COP Tj = -7°C	3.05	2.32
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	3.57 kW	3.30 kW
COP Tj = +2°C	5.01	3.71
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.45 kW	2.20 kW
COP Tj = +7°C	5.79	4.30
Cdh Tj = +7 °C	0.980	0.990

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Pdh Tj = 12°C	2.72 kW	2.53 kW
COP Tj = 12°C	6.62	5.82
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	6.20 kW	6.07 kW
COP Tj = Tbiv	2.78	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.20 kW	6.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	2.16
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	67 °C	67 °C
Poff	8 W	8 W
PTO	8 W	8 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.30 kW	0.03 kW
Annual energy consumption Qhe	2773 kWh	3441 kWh

## Model: VERSI-X 0209-K1 HT / HK 1F

Configure model	
Model name	VERSI-X 0209-K1 HT / HK 1F
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.13 kW	6.09 kW
El input	1.28 kW	1.95 kW
COP	4.80	3.13

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	42 dB(A)
Sound power level outdoor	45 dB(A)	45 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	186 %	141 %
Prated	6.50 kW	6.10 kW
SCOP	4.84	3.66
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.76 kW	5.46 kW
COP Tj = -7°C	3.05	2.32
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	3.57 kW	3.30 kW
COP Tj = +2°C	5.01	3.71
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.45 kW	2.20 kW
COP Tj = +7°C	5.79	4.30
Cdh Tj = +7 °C	0.980	0.980

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Pdh Tj = 12°C	2.72 kW	2.53 kW
COP Tj = 12°C	6.62	5.82
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	6.20 kW	6.07 kW
COP Tj = Tbiv	2.78	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.20 kW	6.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	2.16
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	67 °C	67 °C
Poff	8 W	8 W
PTO	8 W	8 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.30 kW	0.03 kW
Annual energy consumption Qhe	2773 kWh	3441 kWh

## Model: VERSI-O 0209-K1 HT / HK 1F

Configure model	
Model name	VERSI-O 0209-K1 HT / HK 1F
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.20 kW	6.04 kW
El input	1.24 kW	1.93 kW
COP	5.01	3.12

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### Average Climate



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### EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	43 dB(A)	44 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	191 %	138 %
Prated	6.40 kW	6.00 kW
SCOP	4.97	3.60
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.71 kW	5.38 kW
COP Tj = -7°C	3.26	2.21
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	3.74 kW	3.51 kW
COP Tj = +2°C	5.25	3.56
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	2.27 kW	2.20 kW
COP Tj = +7°C	5.55	4.54
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	2.36 kW	2.40 kW

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COP Tj = 12°C	6.65	5.85
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	6.11 kW	5.88 kW
COP Tj = Tbiv	2.76	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.11 kW	5.88 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	67 °C	67 °C
Poff	8 W	8 W
PTO	8 W	8 W
PSB	8 W	8 W
PCK	8 W	8 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.29 kW	0.12 kW
Annual energy consumption Qhe	2659 kWh	3446 kWh

# Model: VERSI-O 0209-K1 HT / HK 1F + HYDRO C2

Configure model	
Model name	VERSI-O 0209-K1 HT / HK 1F + HYDRO C2
Application	Heating + DHW
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

## Heating

EN 14511-2	
	Medium temperature
Heat output	6.04 kW
El input	1.93 kW
COP	3.12

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Average Climate

### EN 12102-1

	Medium temperature
Sound power level indoor	0 dB(A)
Sound power level outdoor	44 dB(A)

### EN 14825

	Medium temperature
$\eta_s$	138 %
Prated	6.00 kW
SCOP	3.60
Tbiv	-10 °C
TOL	-10 °C
Pdh Tj = -7°C	5.38 kW
COP Tj = -7°C	2.21
Cdh Tj = -7 °C	1.000
Pdh Tj = +2°C	3.51 kW
COP Tj = +2°C	3.56
Cdh Tj = +2 °C	0.990
Pdh Tj = +7°C	2.20 kW
COP Tj = +7°C	4.54
Cdh Tj = +7 °C	0.980

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	2.40 kW
COP Tj = 12°C	5.85
Cdh Tj = +12 °C	0.980
Pdh Tj = Tbiv	5.88 kW
COP Tj = Tbiv	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.88 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000
WTOL	67 °C
Poff	8 W
PTO	8 W
PSB	8 W
PCK	8 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.12 kW
Annual energy consumption Qhe	3446 kWh

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	97 %
COP	2.30
Heating up time	2:35 h:min
Standby power input	47.4 W
Reference hot water temperature	54.5 °C
Mixed water at 40°C	264 l

# Model: VERSI-X 0209-K1 HT / HK 1F + HYDRO C2

Configure model	
Model name	VERSI-X 0209-K1 HT / HK 1F + HYDRO C2
Application	Heating + DHW
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

## Heating

EN 14511-2	
	Medium temperature
Heat output	6.09 kW
El input	1.95 kW
COP	3.13

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Average Climate

### EN 12102-1

	Medium temperature
Sound power level indoor	42 dB(A)
Sound power level outdoor	45 dB(A)

### EN 14825

	Medium temperature
$\eta_s$	141 %
Prated	6.10 kW
SCOP	3.66
Tbiv	-10 °C
TOL	-10 °C
Pdh Tj = -7°C	5.46 kW
COP Tj = -7°C	2.32
Cdh Tj = -7 °C	1.000
Pdh Tj = +2°C	3.30 kW
COP Tj = +2°C	3.71
Cdh Tj = +2 °C	0.990
Pdh Tj = +7°C	2.20 kW
COP Tj = +7°C	4.30
Cdh Tj = +7 °C	0.980



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Pdh Tj = 12°C	2.53 kW
COP Tj = 12°C	5.82
Cdh Tj = +12 °C	0.980
Pdh Tj = Tbiv	6.07 kW
COP Tj = Tbiv	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000
WTOL	67 °C
Poff	8 W
PTO	8 W
PSB	8 W
PCK	8 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.03 kW
Annual energy consumption Qhe	3441 kWh

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	96 %
COP	2.30
Heating up time	2:18 h:min
Standby power input	41.0 W
Reference hot water temperature	54.4 °C
Mixed water at 40°C	255 l

# Model: VERSI-I 0209-K1 HT / HK UF E + HR200

Configure model	
Model name	VERSI-I 0209-K1 HT / HK UF E + HR200
Application	Heating + DHW
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

## Heating

EN 14511-2	
	Medium temperature
Heat output	6.09 kW
El input	1.95 kW
COP	3.13

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Average Climate

### EN 12102-1

	Medium temperature
Sound power level indoor	42 dB(A)
Sound power level outdoor	45 dB(A)

### EN 14825

	Medium temperature
$\eta_s$	141 %
Prated	6.10 kW
SCOP	3.66
Tbiv	-10 °C
TOL	-10 °C
Pdh Tj = -7°C	5.46 kW
COP Tj = -7°C	2.32
Cdh Tj = -7 °C	1.000
Pdh Tj = +2°C	3.30 kW
COP Tj = +2°C	3.71
Cdh Tj = +2 °C	0.990
Pdh Tj = +7°C	2.20 kW
COP Tj = +7°C	4.30
Cdh Tj = +7 °C	0.980

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Pdh Tj = 12°C	2.53 kW
COP Tj = 12°C	5.82
Cdh Tj = +12 °C	0.980
Pdh Tj = Tbiv	6.07 kW
COP Tj = Tbiv	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000
WTOL	67 °C
Poff	8 W
PTO	8 W
PSB	8 W
PCK	8 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.03 kW
Annual energy consumption Qhe	3441 kWh

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	100 %
COP	2.38
Heating up time	2:27 h:min
Standby power input	44.9 W
Reference hot water temperature	54.9 °C
Mixed water at 40°C	282 l