WATERKOTTE

Verbundanlage Datenblatt nach Verordnung (EU) Nr. 811/2013

Datenblatt für Verbundanlage aus Raumheizgerät oder Kombiheizgerät mit Wärmepumpe, Temperaturregler und Solareinrichtungen, Raumheizungs-Energieeffizienz

Industrial Line Air Kaskade 5048.6 - air to water

Abbildung 3

Bei Vorzugsraumheizgeräten mit Wärmepumpe und Vorzugskombiheizgeräten mit Wärmepumpe zur Angabe der jahreszeitbedingten Raumheizungs-Energieeffizienz der angebotenen Verbundanlage in das Datenblatt für eine Verbundanlage aus Raumheizgeräten, Temperaturreglern und Solareinrichtungen bzw. eine Verbundanlage aus Kombiheizgeräten, Temperaturreglern und Solareinrichtungen aufzunehmen

Jahreszeitbedingte Raumheizungs-Energieeffizienz der Wärmepumpe			1	137 %
Temperaturregler				
Vom Datenblatt des Temperaturreglers	Klasse I = 1 %, Klasse II = 2 %, Klasse III = 1,5 %, Klasse IV = 2 %, Klasse V = 3 %, Klasse VI = 4 %, Klasse VII = 3,5 %, Klasse VIII = 5 %	+	2	2 %
Zusatzheizkessel				
Vom Datenblatt des Heizkessels	Jahreszeitbedingte Raumheizungs-Energieeffizienz in % (0 - 'I') x 'II' =	-	3	0 %
Solarer Beitrag				
Vom Datenblatt der Solareinrichtung	Kollektorgröße (in m²) / Tankvolumen (in m³) / Kollektorwirkungsgrad (in %) / Tankeinstufung A+ = 0,95, A = 0,91, B = 0,86, C = 0,83, D-G = 0,81			
	('III' x 0 + 'IV' x 0) x 0,45 x (0 / 100) x 1	+	4	0 %
Jahreszeitbedingte Raumheizungs-Energieeffizienz der Verbundanlage bei durchschnittlichem Klima			5	139

Jahreszeitbedingte Raumheizungs-Energieeffizienzklasse der Verbundanlage bei durchschnittlichem Klima

G	F	E	D	C	B	A	A+	A++	A+++
☐	☐	☐	☐	☐	☐	☐	☐	X	☐
< 30%	≥ 30 %	≥ 34%	≥ 36%	≥ 75%	≥ 82%	≥ 90%	≥ 98%	≥ 125%	≥ 150%

Jahreszeitbedingte Raumheizungs-Energieeffizienz der Verbundanlage bei kälterem und wärmeren Klima

	5					5				
Kälter:	139	-	30	=	109 %	Wärmer:	139	+	18	=	157 %

Die auf diesem Datenblatt für den Produktverbund angegebene Energieeffizienz weicht möglicherweise von der Energieeffizienz nach dessen Einbau in ein Gebäude ab, denn diese wird von weiteren Faktoren wie dem Wärmeverlust im Verteilungssystem und der Dimensionierung der Produkte im Verhältnis zu Größe und Eigenschaften des Gebäudes beeinflusst.

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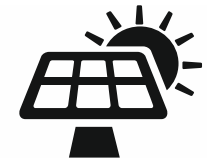
Industrial Line Air Kaskade 5048.6 - air to water

A ++

+  ☐

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2015

811/2013

WATERKOTTE

30.04.24

Product fiche requirements for heat pump space heaters and heat pump combination heaters (in accordance with EU regulation no. 811/2013)

Supplier's name		Waterkotte GmbH, Gewerkenstr. 15, 44628 Herne, Germany
Model(s):	1	Industrial Line Air Kaskade 5016.6
	2	Industrial Line Air Kaskade 5024.6
	3	Industrial Line Air Kaskade 5032.6
	4	Industrial Line Air Kaskade 5040.6
	5	Industrial Line Air Kaskade 5048.6
	6	Industrial Line Air Kaskade 5056.6
	7	Industrial Line Air Kaskade 5064.6
	8	Industrial Line Air Kaskade 5072.6
	9	Industrial Line Air Kaskade 5080.6

Item	Symbol	Unit	1	2	3	4	5	6	7	8	9
Medium temperature / Low temperature			**55°C / 35°C**	**55°C / 35°C**	**55°C / 35°C**	**55°C / 35°C**	**55°C / 35°C**	**55°C / 35°C**	**55°C / 35°C**	**55°C / 35°C**	**55°C / 35°C**
Seasonal space heating energy efficiency class of the model	-	-	A++/A+++	A++/A+++	A++/A+++	A++/A+++	A++/A+++	A++/A+++	A++/A+++	A++/A+++	A++/A+++
Declared load profile for water heating	-	-	-	-	-	-	-	-	-	-	-
Water heating energy efficiency class	-	-	-	-	-	-	-	-	-	-	-
Rated heat output, including the rated heat output of any supplementary heater under average climate conditions	P_{rated}	kW	15 / 14	22 / 22	29 / 29	36 / 36	44 / 43	51 / 50	58 / 57	66 / 65	73 / 72
Seasonal space heating energy efficiency under average climate conditions	η_s	%	137 / 189	137 / 189	137 / 189	137 / 189	137 / 189	137 / 189	137 / 189	137 / 189	137 / 189
Space heating, annual energy consumption under average climate conditions	Q_{HE}	kWh	8670 / 6181	13005 / 9272	17340 / 12362	21675 / 15453	26010 / 18543	30345 /21634	34680 / 24724	39015 / 27815	43350 / 30905
Water heating energy efficiency	η_{wh}	%	-	-	-	-	-	-	-	-	-
Water heating, the annual electricity consumption	AEC	kWh	-	-	-	-	-	-	-	-	-
Sound power level L_{WA}, indoors,	L_{WA}	dB(A)	39	39	39	40	40	40	41	41	41
Any specific precautions that shall be taken when the heater is assembled, installed or maintained: see installation manuel Alle beim Zusammenbau, der Installation oder Wartung des Raumheizgerätes zu treffenden besonderen Vorkehrungen: siehe Installationsanleitung Les éventuelles précautions particulières qui doivent être prises lors du montage, de l'installation ou de l'entretien du dispositif de chauffage des locaux: voir manuel d'installation											
Rated heat output, including the rated heat output of any supplementary heater under colder climate conditions	P_{rated}	kW	16/18	24/26	32/35	40/44	48/53	56/62	64/70	72/79	80/88
Rated heat output, including the rated heat output of any supplementary heater under warmer climate conditions	P_{rated}	kW	14/15	21/23	28/31	36/38	43/46	50/54	57/61	64/69	71/77
Seasonal space heating energy efficiency under colder climate conditions	η_s	%	107/153	107/153	107/153	107/153	107/153	107/153	107/153	107/153	107/153
Seasonal space heating energy efficiency under warmer climate conditions	η_s	%	155/244	155/244	155/244	155/244	155/244	155/244	155/244	155/244	155/244
Space heating, annual energy consumption under colder climate conditions	Q_{HE}	kWh	14462/11150	21693/16725	28924/22300	36155/27875	43386/33450	50617/39025	57848/44600	65079/50175	72310/55750
Space heating, annual energy consumption under warmer climate conditions	Q_{HE}	kWh	4816/3320	7224/4980	9632/6640	12040/8300	14448/9960	16856/11620	19264/13280	21672/14940	24080/16600
Sound power level L_{WA}, outdoors	L_{WA}	dB(A)	64	65	66	67	68	69	69	70	70

55°C

Information requirements for heat pump space heaters and heat pump combination heaters (in accordance with EU regulation no. 813/2013)

Model(s):	1	Industrial Line Air Kaskade 5016.6
	2	Industrial Line Air Kaskade 5024.6
	3	Industrial Line Air Kaskade 5032.6
	4	Industrial Line Air Kaskade 5040.6
	5	Industrial Line Air Kaskade 5048.6
	6	Industrial Line Air Kaskade 5056.6
	7	Industrial Line Air Kaskade 5064.6
	8	Industrial Line Air Kaskade 5072.6
	9	Industrial Line Air Kaskade 5080.6

			1	2	3	4	5	6	7	8	9
Air-to-water heat pump			yes	yes	yes	yes	yes	yes	yes	yes	yes
Water-to-water heat pump			-	-	-	-	-	-	-	-	-
Brine-to-water heat pump			-	-	-	-	-	-	-	-	-
Low-temperature heat pump			-	-	-	-	-	-	-	-	-
Equipped with a supplementary heater			-	-	-	-	-	-	-	-	-
Heat pump combination heater			-	-	-	-	-	-	-	-	-
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.											
Parameters shall be declared for average climate conditions.											
Item	**Symbol**	**Unit**									
Rated heat output (*)	P_{rated}	kW	15	22	29	36	44	51	58	66	73
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j											
T_j = – 7 °C	Pdh	kW	13,0	19,4	25,9	32,4	38,9	45,3	51,8	58,3	64,8
T_j = + 2 °C	Pdh	kW	7,9	11,8	15,8	19,7	23,7	27,6	31,6	35,5	39,5
T_j = + 7 °C	Pdh	kW	6,0	9,0	12,0	15,0	18,0	21,0	24,0	27,0	30,0
T_j = +12 °C	Pdh	kW	3,8	5,7	7,6	9,5	11,4	13,2	15,1	17,0	18,9
T_j = bivalent temperature	Pdh	kW	13,0	19,4	25,9	32,4	38,9	45,3	51,8	58,3	64,8
T_j = operation limit temperature	Pdh	kW	11,2	16,7	22,3	27,9	33,5	39,1	44,7	50,2	55,8
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	kW	-	-	-	-	-	-	-	-	-
Bivalent temperature	T_{biv}	°C	-7	-7	-7	-7	-7	-7	-7	-7	-7
Cycling interval capacity for heating	Pcych	kW	-	-	-	-	-	-	-	-	-
Degradation co-efficient (**)	Cdh	-	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Seasonal space heating energy efficiency	η_s	%	137	137	137	137	137	137	137	137	137
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j											
T_j = – 7 °C	COPd	-	2,20	2,20	2,20	2,20	2,20	2,20	2,20	2,20	2,20
T_j = + 2 °C	COPd	-	3,37	3,37	3,37	3,37	3,37	3,37	3,37	3,37	3,37
T_j = + 7 °C	COPd	-	4,41	4,41	4,41	4,41	4,41	4,41	4,41	4,41	4,41
T_j = +12 °C	COPd	-	6,66	6,66	6,66	6,66	6,66	6,66	6,66	6,66	6,66
T_j = bivalent temperature	COPd	-	2,20	2,20	2,20	2,20	2,20	2,20	2,20	2,20	2,20
T_j = operation limit temperature	COPd	-	1,93	1,93	1,93	1,93	1,93	1,93	1,93	1,93	1,93
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	-	-	-	-	-	-	-	-	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	°C	-10	-10	-10	-10	-10	-10	-10	-10	-10
Cycling interval efficiency	COPcyc	-	-	-	-	-	-	-	-	-	-
Heating water operating limit temperature	WTOL	°C	58	58	58	58	58	58	58	58	58
Power consumption in modes other than active mode											
Off mode	P_{OFF}	kW	0,011	0,016	0,021	0,026	0,032	0,037	0,042	0,047	0,053
Thermostat-off mode	P_{TO}	kW	0,020	0,030	0,040	0,050	0,060	0,070	0,080	0,090	0,100
Standby mode	P_{SB}	kW	0,020	0,029	0,039	0,049	0,059	0,069	0,078	0,088	0,098
Crankcase heater mode	P_{CK}	kW	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
Supplementary heater											
Rated heat output (*)	Psup	kW	3,43	5,15	6,86	8,58	10,29	12,01	13,72	15,44	17,15
Type of energy input			electricity	electricity	electricity	electricity	electricity	electricity	electricity	electricity	electricity
Other items											
Capacity control	fixed/variable		variable	variable	variable	variable	variable	variable	variable	variable	variable
Sound power level, indoors/ outdoors	L_{WA}	dB(A)	39 / 64	39 / 65	39 / 66	40 / 67	40 / 68	40 / 69	41 / 69	41 / 70	41 / 70
Emissions of nitrogen oxides	NO_x	mg/kWh	-	-	-	-	-	-	-	-	-
For air-to-water heat pumps: Rated air flow rate, outdoors	-	m^3/h	4000	6000	8000	10000	12000	14000	16000	18000	20000
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	m^3/h	-	-	-	-	-	-	-	-	-
For heat pump combination heater:											
Declared load profile			-	-	-	-	-	-	-	-	-
Daily electricity consumption	Q_{elec}	kWh	-	-	-	-	-	-	-	-	-
Water heating energy efficiency	η_{wh}	%	-	-	-	-	-	-	-	-	-
Daily fuel consumption	Q_{fuel}	kWh	-	-	-	-	-	-	-	-	-
Contact details	Waterkotte GmbH, Gewerkenstr. 15, 44628 Herne, Germany										

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

35°C

Information requirements for heat pump space heaters and heat pump combination heaters (in accordance with EU regulation no. 813/2013)

Model(s):		
	1	Industrial Line Air Kaskade 5016.6
	2	Industrial Line Air Kaskade 5024.6
	3	Industrial Line Air Kaskade 5032.6
	4	Industrial Line Air Kaskade 5040.6
	5	Industrial Line Air Kaskade 5048.6
	6	Industrial Line Air Kaskade 5056.6
	7	Industrial Line Air Kaskade 5064.6
	8	Industrial Line Air Kaskade 5072.6
	9	Industrial Line Air Kaskade 5080.6

			1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
Air-to-water heat pump			yes	yes	yes	yes	yes	yes	yes	yes	yes
Water-to-water heat pump			-	-	-	-	-	-	-	-	-
Brine-to-water heat pump			-	-	-	-	-	-	-	-	-
Low-temperature heat pump			-	-	-	-	-	-	-	-	-
Equipped with a supplementary heater			-	-	-	-	-	-	-	-	-
Heat pump combination heater			-	-	-	-	-	-	-	-	-
Parameters shall be declared for low-temperature application, except for low-temperature heat pumps. For low- temperature heat pumps, parameters shall be declared for low-temperature application.											
Parameters shall be declared for average climate conditions.											
Item	**Symbol**	**Unit**									
Rated heat output (*)	P_{rated}	kW	14	22	29	36	43	50	58	65	72
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j											
T_j = – 7 °C	Pdh	kW	12,7	19,1	25,5	31,8	38,2	44,6	50,9	57,3	63,6
T_j = + 2 °C	Pdh	kW	7,8	11,6	15,5	19,4	23,3	27,1	31,0	34,9	38,8
T_j = + 7 °C	Pdh	kW	6,6	9,9	13,2	16,5	19,8	23,1	26,4	29,7	33,0
T_j = +12 °C	Pdh	kW	4,0	6,0	8,0	10,0	12,0	14,0	16,0	18,0	20,0
T_j = bivalent temperature	Pdh	kW	12,7	19,1	25,5	31,8	38,2	44,6	50,9	57,3	63,6
T_j = operation limit temperature	Pdh	kW	14,1	21,2	28,3	35,4	42,4	49,5	56,6	63,7	70,7
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	kW	-	-	-	-	-	-	-	-	-
Bivalent temperature	T_{biv}	°C	-7	-7	-7	-7	-7	-7	-7	-7	-7
Cycling interval capacity for heating	Pcych	kW	-	-	-	-	-	-	-	-	-
Degradation co-efficient (**)	Cdh	-	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Seasonal space heating energy efficiency	η_s	%	189	189	189	189	189	189	189	189	189
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T_j											
T_j = – 7 °C	COPd	-	2,80	2,80	2,80	2,80	2,80	2,80	2,80	2,80	2,80
T_j = + 2 °C	COPd	-	4,78	4,78	4,78	4,78	4,78	4,78	4,78	4,78	4,78
T_j = + 7 °C	COPd	-	6,12	6,12	6,12	6,12	6,12	6,12	6,12	6,12	6,12
T_j = +12 °C	COPd	-	8,59	8,59	8,59	8,59	8,59	8,59	8,59	8,59	8,59
T_j = bivalent temperature	COPd	-	2,80	2,80	2,80	2,80	2,80	2,80	2,80	2,80	2,80
T_j = operation limit temperature	COPd	-	2,80	2,80	2,80	2,80	2,80	2,80	2,80	2,80	2,80
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	-	-	-	-	-	-	-	-	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	°C	-10	-10	-10	-10	-10	-10	-10	-10	-10
Cycling interval efficiency	COPcyc	-	-	-	-	-	-	-	-	-	-
Heating water operating limit temperature	WTOL	°C	58	58	58	58	58	58	58	58	58
Power consumption in modes other than active mode											
Off mode	P_{OFF}	kW	0,011	0,016	0,021	0,026	0,032	0,037	0,042	0,047	0,053
Thermostat-off mode	P_{TO}	kW	0,020	0,030	0,040	0,050	0,060	0,06965	0,0796	0,08955	0,0995
Standby mode	P_{SB}	kW	0,020	0,029	0,039	0,049	0,059	0,0686	0,0784	0,0882	0,098
Crankcase heater mode	P_{CK}	kW	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000
Supplementary heater											
Rated heat output (*)	Psup	kW	0,25	0,38	0,50	0,63	0,75	0,88	1,00	1,13	1,25
Type of energy input			electricity	electricity	electricity	electricity	electricity	electricity	electricity	electricity	electricity
Other items											
Capacity control	fixed/variable		variable	variable	variable	variable	variable	variable	variable	variable	variable
Sound power level, indoors/ outdoors	L_{WA}	dB(A)	39 / 64	39 / 65	39 / 66	40 / 67	40 / 68	40 / 69	41 / 69	41 / 70	41 / 70
Emissions of nitrogen oxides	NO_x	mg/kWh	-	-	-	-	-	-	-	-	-
For air-to-water heat pumps: Rated air flow rate, outdoors	-	m^3/h	4000	6000	8000	10000	12000	14000	16000	18000	20000
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	m^3/h	-	-	-	-	-	-	-	-	-
For heat pump combination heater:											
Declared load profile			-	-	-	-	-	-	-	-	-
Daily electricity consumption	Q_{elec}	kWh	-	-	-	-	-	-	-	-	-
Water heating energy efficiency	η_{wh}	%	-	-	-	-	-	-	-	-	-
Daily fuel consumption	Q_{fuel}	kWh	-	-	-	-	-	-	-	-	-
Contact details	Waterkotte GmbH, Gewerkenstr. 15, 44628 Herne, Germany										

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Any specific precautions that shall be taken when the heater is assembled, installed or maintained: see installation manuel
Information relevant for disassembly, recycling and/or disposal at end-of-life: see installation manuel

Alle beim Zusammenbau, der Installation oder Wartung des Raumheizgerätes zu treffenden besonderen Vorkehrungen: siehe Installationsanleitung
Sachdienliche Angaben für das Zerlegen, die Wiederverwendung und/oder die Entsorgung nach der endgültigen Außerbetriebstellung: siehe Installationsanleitung

Les éventuelles précautions particulières qui doivent être prises lors du montage, de l'installation ou de l'entretien du dispositif de chauffage des locaux: voir manuel d'installation
Informations utiles pour le démontage, le recyclage et/ou l'élimination à la fin du cycle de vie de l'appareil: voir manuel d'installation

09.01.24

Product fiche for temperature controls (in accordance with EU regulation no. 811/2013)

Supplier's name		Waterkotte GmbH, Gewerkenstr. 15, 44628 Herne, Germany	
Supplier's model identifier:	**1**	WWPR Inverter RS	WWPR for Inverter heat pump with room sensor
	2	WWPR Inverter	WWPR for Inverter heat pump without room sensor
	3	WWPR ON/OFF RS	WWPR for brine or water to water heat pump with room sensor
	4	WWPR ON/OFF	WWPR for brine or water to water heat pump without room sensor
	5	WWPR2/EasyCon Inverter RS	WWPR2/EasyCon for inverter heat pump with room sensor
	6	WWPR2/EasyCon Inverter	WWPR2/EasyCon for inverter heat pump without room sensor
	7	WWPR2/EasyCon ON/OFF RS	WWPR2/EasyCon for brine or water to water heat pump with room sensor
	8	WWPR2/EasyCon ON/OFF	WWPR2/EasyCon for brine or water to water heat pump without room sensor
	9	EasyCon 2.0 Inverter RS	EasyCon 2.0 for Inverter heat pump with room sensor
	10	EasyCon 2.0 Inverter	EasyCon 2.0 for Inverter heat pump without room sensor
	11	Basic Pro 2.0 Inverter RS	Basic Pro 2.0 for inverter heat pump with room sensor
	12	Basic Pro 2.0 Inverter	Basic Pro 2.0 for inverter heat pump without room sensor

			1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
Item	**Symbol**	**Unit**												
Class of the temperature control	-	-	VI	II	VII	III	VI	II	VII	III	VI	II	VI	II
Contribution of the temperature control to seasonal space heating energy efficiency in %	-	%	4,0	2,0	3,5	1,5	4,0	2,0	3,5	1,5	4,0	2,0	4,0	2,0

Produktdatenblatt des Temperaturreglers (in Übereinstimmung mit EU-Verordnung no. 811/2013)

Name des Lieferanten		Waterkotte GmbH, Gewerkenstr. 15, 44628 Herne, Germany	
Modellkennung des Lieferanten:	**1**	WWPR Inverter RS	WWPR für Inverter WP mit Raumfühler
	2	WWPR Inverter	WWPR für Inverter WP ohne Raumfühler
	3	WWPR ON/OFF RS	WWPR für Sole/Wasser o. Wasser/Wasser WP mit Raumfühler
	4	WWPR ON/OFF	WWPR für Sole/Wasser o. Wasser/Wasser WP ohne Raumfühler
	5	WWPR2/EasyCon Inverter RS	WWPR2 für Inverter WP mit Raumfühler
	6	WWPR2/EasyCon Inverter	WWPR2 für Inverter WP ohne Raumfühler
	7	WWPR2/EasyCon ON/OFF RS	WWPR2 für Sole/Wasser o. Wasser/Wasser WP mit Raumfühler
	8	WWPR2/EasyCon ON/OFF	WWPR2 für Sole/Wasser o. Wasser/Wasser WP ohne Raumfühler
	9	EasyCon 2.0 Inverter RS	EasyCon 2.0 für Inverter WP mit Raumfühler
	10	EasyCon 2.0 Inverter	EasyCon 2.0 für Inverter WP ohne Raumfühler
	11	Basic Pro 2.0 Inverter RS	Basic Pro 2.0 für Inverter WP mit Raumfühler
	12	Basic Pro 2.0 Inverter	Basic Pro 2.0 für Inverter WP ohne Raumfühler

			1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
Angabe	**Symbol**	**Einheit**												
Klasse des Temperaturreglers	-	-	VI	II	VII	III	VI	II	VII	III	VI	II	VI	II
Beitrag des Temperaturreglers zur jahreszeitbedingten Raumheizungs-Energieeffizienz in %	-	%	4,0	2,0	3,5	1,5	4,0	2,0	3,5	1,5	4,0	2,0	4,0	2,0

Fiche de produit relative au régulateur de température (conformément à la réglementation de l'UE no. 811/2013)

Nom du fournisseur		Waterkotte GmbH, Gewerkenstr. 15, 44628 Herne, Germany	
Référence du modèle donnée par le fournisseur:	**1**	WWPR Inverter RS	WWPR pour PAC Inverter avec capteur d'ambiance
	2	WWPR Inverter	WWPR pour PAC Inverter sans capteur d'ambiance
	3	WWPR ON/OFF RS	WWPR pour PAC eau glycolée/eau ou eau/eau avec capteur d'ambiance
	4	WWPR ON/OFF	WWPR pour PAC eau glycolée/eau ou eau/eau sans capteur d'ambiance
	5	WWPR2/EasyCon Inverter RS	WWPR2 pour PAC Inverter avec capteur d'ambiance
	6	WWPR2/EasyCon Inverter	WWPR2 pour PAC Inverter sans capteur d'ambiance
	7	WWPR2/EasyCon ON/OFF RS	WWPR2 pour PAC eau glycolée/eau ou eau/eau avec capteur d'ambiance
	8	WWPR2/EasyCon ON/OFF	WWPR2 pour PAC eau glycolée/eau ou eau/eau sans capteur d'ambiance
	9	EasyCon 2.0 Inverter RS	EasyCon 2.0 pour PAC Inverter avec capteur d'ambiance
	10	EasyCon 2.0 Inverter	EasyCon 2.0 pour PAC Inverter sans capteur d'ambiance
	11	Basic Pro 2.0 Inverter RS	Basic Pro 2.0 pour PAC Inverter avec capteur d'ambiance
	12	Basic Pro 2.0 Inverter	Basic Pro 2.0 pour PAC Inverter sans capteur d'ambiance

			1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
Caractéristique	**Symbole**	**Unité**												
Classe du régulateur de température	-	-	VI	II	VII	III	VI	II	VII	III	VI	II	VI	II
Contribution du régulateur de température à l'efficacité énergétique saisonnière pour le chauffage des locaux, en %	-	%	4,0	2,0	3,5	1,5	4,0	2,0	3,5	1,5	4,0	2,0	4,0	2,0