

BWT 221.B06, BWT 221.B08, BWT 221.B10

The product data specified meets the requirements of EU Regulations 811/2013 and 813/2013.

Product data	Symbol	Unit	BWT 221.B06	BWT 221.B08	BWT 221.B10
Declared load profile			XL	XL	XL
Seasonal space heating energy efficiency, medium-temperature application			A++	A++	A++
Water heating energy efficiency classes			A+	A+	A+
Rated heat output, medium-temperature application, Average climate conditions	P <sub>rated</sub>	kW	6	8	11
Supplementary heater Rated heat output, Average climate conditions	P <sub>sup</sub>	kW	9	9	9
Annual energy consumption	Q <sub>HE</sub>	kWh	3452	4338	5630
Annual electricity consumption	AEC	kWh	1329	1329	1329
Seasonal space heating energy efficiency, medium-temperature application, Average climate conditions	η	%	134	143	150
Water heating energy efficiency, Average climate conditions	η <sub>wh</sub>	%	130	130	130
sound power level indoors	L <sub>wa</sub>	dB	40	43	46

For all special precautions to be taken during assembly, installation or maintenance of the space heater, see the service and installation instructions.

Product data	Symbol	Unit	BWT 221.B06	BWT 221.B08	BWT 221.B10
Rated heat output, medium-temperature application, Colder climate conditions	P <sub>rated</sub>	kW	9	12	16
Rated heat output, medium-temperature application, Warmer climate conditions	P <sub>rated</sub>	kW	5	7	9
Supplementary heater Rated heat output, Colder climate conditions	P <sub>sup</sub>	kW	-	-	-
Supplementary heater Rated heat output, Warmer climate conditions	P <sub>sup</sub>	kW	-	-	-
Annual energy consumption, medium-temperature application, Colder climate conditions	Q <sub>HE</sub>	kWh	6069	7633	10312
Annual energy consumption, medium-temperature application, Warmer climate conditions	Q <sub>HE</sub>	kWh	1857	2449	3281
Annual electricity consumption, Colder climate conditions	AEC	kWh	-	-	-
Annual electricity consumption, Warmer climate conditions	AEC	kWh	-	-	-
Seasonal space heating energy efficiency, medium-temperature application, Colder climate conditions	η	%	133	142	143
Seasonal space heating energy efficiency, medium-temperature application, Warmer climate conditions	η	%	141	143	145
Sound power level, indoors	L <sub>wa</sub>	dB	-	-	-





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Product data	BWT 221.B06	BWT 221.B08	BWT 221.B10
Operating mode	Brine/Wate	r Brine/Water	Brine/Water
Mark Master/Slave Heat pump	Master	Master	Master
Equipped with a supplementary heater	Yes	Yes	Yes
Heat pump combination heater	Yes	Yes	Yes
Seasonal space heating energy efficiency, medium-temperature application	A++	A++	A++
Seasonal space heating energy efficiency, Low-temperature application	A+++	A+++	A+++
Water heating energy efficiency classes	A+	A+	A+

Product data	Symbol	Unit	BWT 221.B06	BWT 221.B08	BWT 221.B10
Rated heat output, medium-temperature application, Average climate conditions	P <sub>rated</sub>	kW	6	8	11
Rated heat output, medium-temperature application, Colder climate conditions	P <sub>rated</sub>	kW	9	12	16
Rated heat output, medium-temperature application, Warmer climate conditions	P <sub>rated</sub>	kW	5	7	9
Rated heat output, Low-temperature application, Average climate conditions	P <sub>rated</sub>	kW	7	9	12
Rated heat output, Low-temperature application, Colder climate conditions	P <sub>rated</sub>	kW	10	13	17
Rated heat output, Low-temperature application, Warmer climate conditions	P <sub>rated</sub>	kW	6	8	10
Seasonal space heating energy efficiency, medium-temperature application, Average climate conditions	η	%	134	143	150
seasonal coefficient of performance, medium-temperature application, Average climate conditions	SCOP		3,56	3,79	3,97
Seasonal space heating energy efficiency, medium-temperature application, Colder climate conditions	η <sub>s</sub>	%	133	142	143
Seasonal space heating energy efficiency, medium-temperature application, Warmer climate conditions	η	%	141	143	145
Seasonal space heating energy efficiency, Low-temperature application, Average climate conditions	η	%	186	201	204
seasonal coefficient of performance,Low-temperature application, Average climate conditions	SCOP		4,86	5,23	5,32
Seasonal space heating energy efficiency, Low-temperature application, Colder climate conditions	η	%	204	193	206
Seasonal space heating energy efficiency, Low-temperature application, Warmer climate conditions	η <sub>s</sub>	%	189	205	208

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj	Symbol	Unit	BWT 221.B06	BWT 221.B08	BWT 221.B10
Tj= -7°C, medium-temperature application, Average climate conditions	Pdh	kW	5,2	7	9,5
Tj= -7°C, medium-temperature application, Colder climate conditions	Pdh	kW	5,4	7,2	9,8
Tj= -7°C, medium-temperature application, Warmer climate conditions	Pdh	kW	-	-	-
Tj= -7°C, Low-temperature application, Average climate conditions	Pdh	kW	5,8	7,6	10,3
Tj= -7°C, Low-temperature application, Colder climate conditions	Pdh	kW	5,9	7,2	10,4
Tj= -7°C, Low-temperature application, Warmer climate conditions	Pdh	kW	-	-	-
Tj= +2°C, medium-temperature application, Average climate conditions	Pdh	kW	5,4	7,2	9,8
Tj= +2°C, medium-temperature application, Colder climate conditions	Pdh	kW	5,6	7,4	10
Tj= +2°C, medium-temperature application, Warmer climate conditions	Pdh	kW	5,7	6,9	9,4
Tj= +2°C, Low-temperature application, Average climate conditions	Pdh	kW	5,8	7,6	10,4
Tj= +2°C, Low-temperature application, Colder climate conditions	Pdh	kW	6	7,7	10,5
Tj= +2°C, Low-temperature application, Warmer climate conditions	Pdh	kW	5,7	7,6	10,3
Tj= +7°C, medium-temperature application, Average climate conditions	Pdh	kW	5,6	7,3	10
Tj= +7°C, medium-temperature application, Colder climate conditions	Pdh	kW	5,7	7,8	10,2
Tj= +7°C, medium-temperature application, Warmer climate conditions	Pdh	kW	5,3	7,1	9,7
Tj= +7°C, Low-temperature application, Average climate conditions	Pdh	kW	5,9	7,7	10,5



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Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj	Symbol	Unit	BWT 221.B06	BWT 221.B08	BWT 221.B10
Tj= +7°C, Low-temperature application, Colder climate conditions	Pdh	kW	6	7,8	10,6
Tj= +7°C, Low-temperature application, Warmer climate conditions	Pdh	kW	5,8	7,6	10,3
Tj= +12°C, medium-temperature application, Average climate conditions	Pdh	kW	5,7	7,5	10,2
Tj= +12°C, medium-temperature application, Colder climate conditions	Pdh	kW	5,8	7,6	10,3
Tj= +12°C, medium-temperature application, Warmer climate conditions	Pdh	kW	5,9	7,3	10
Tj= +12°C, Low-temperature application, Average climate conditions	Pdh	kW	6	7,8	10,6
Tj= +12°C, Low-temperature application, Colder climate conditions	Pdh	kW	6	7,8	10,6
Tj= +12°C, Low-temperature application, Warmer climate conditions	Pdh	kW	5,9	7,7	10,5
Tj= bivalent temperature, medium-temperature application, Average climate conditions	Pdh	kW	5,2	7	9,5
Tj= bivalent temperature, medium-temperature application, Colder climateconditions	Pdh	kW	5,4	7,2	9,8
Tj= bivalent temperature, medium-temperature application, Warmer climateconditions	Pdh	kW	5,2	3	9,4
Tj= bivalent temperature, Low-temperature application, Average climate conditions	Pdh	kW	5,8	7,6	10,3
Tj= bivalent temperature, Low-temperature application, Colder climateconditions	Pdh	kW	5,9	7,7	10,4
Tj= bivalent temperature, Low-temperature application, Warmer climateconditions	Pdh	kW	5,7	7,6	10,3
Tj= operation limit temperature, medium-temperature application, Averageclimate conditions	Pdh	kW	5,2	6,9	9,4
Tj= operation limit temperature, Low-temperature application, Colderclimate conditions	Pdh	kW	5,8	7,6	10,4
Tj= operation limit temperature, medium-temperature application, Warmerclimate conditions	Pdh	kW	5,2	6,9	9,4
Tj= operation limit temperature, Low-temperature application, Average climate conditions	Pdh	kW	5,8	7,6	10,3
Tj= operation limit temperature, medium-temperature application, Colderclimate conditions	Pdh	kW	5,2	7	9,5
Tj= operation limit temperature, Low-temperature application, Warmerclimate conditions	Pdh	kW	5,7	7,6	10,3
For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	Pdh	kW	-	-	-
bivalent temperature, medium-temperature application, Average climate conditions	T <sub>biv</sub>	°C	-7	-7	-7
bivalent temperature, medium-temperature application, Colder climate conditions	T <sub>biv</sub>	°C	-7	-7	-7
bivalent temperature, medium-temperature application, Warmer climate conditions	T <sub>biv</sub>	°C	2	2	2
bivalent temperature, Low-temperature application, Average climate conditions	T <sub>biv</sub>	°C	-7	-7	-7
bivalent temperature, Low-temperature application, Colder climate conditions	T <sub>biv</sub>	°C	-7	-7	-7
bivalent temperature, Low-temperature application, Warmer climate conditions	T <sub>biv</sub>	°C	2	2	2
Cycling interval capacity for heating, Average climate conditions	P <sub>cych</sub>	kW	-	-	-
Cycling interval capacity for heating, Colder climate conditions	P <sub>cych</sub>	kW	-	-	-
Cycling interval capacity for heating, Warmer climate conditions	P <sub>cych</sub>	kW	-	-	-
Degradation co-efficient medium-temperature application	Cdh		1	1	1
Degradation co-efficient Low-temperature application	Cdh		1	1	1

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 $^\circ\text{C}$ and outdoor temperature Tj	Symbol	Unit	BWT 221.B06	BWT 221.B08	BWT 221.B10
Tj= -7°C, medium-temperature application, Average climate conditions	COPd		3	3,2	3,2
Tj= -7°C, medium-temperature application, Colder climate conditions	COPd		-	3,8	3,8
Tj= -7°C, medium-temperature application, Warmer climate conditions	COPd		-	-	-
Tj= -7°C, Low-temperature application, Average climate conditions	COPd		4,6	4,9	5
Tj= -7°C, Low-temperature application, Colder climate conditions	COPd		5,2	5,6	5,8
Tj= -7°C, Low-temperature application, Warmer climate conditions	COPd		-	-	-
Tj= +2°C, medium-temperature application, Average climate conditions	COPd		3,5	3,8	3,8
Tj= +2°C, medium-temperature application, Colder climate conditions	COPd		4	4,3	4,4
Tj= +2°C, medium-temperature application, Warmer climate conditions	COPd		2,8	3	3



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Tj= +2°C, Low-temperature application, Average climate conditions         Tj= +2°C, Low-temperature application, Colder climate conditions         Tj= +2°C, Low-temperature application, Warmer climate conditions         Tj= +7°C, medium-temperature application, Average climate conditions         Tj= +7°C, medium-temperature application, Colder climate conditions         Tj= +7°C, medium-temperature application, Colder climate conditions         Tj= +7°C, medium-temperature application, Warmer climate conditions         Tj= +7°C, Low-temperature application, Average climate conditions         Tj= +7°C, Low-temperature application, Colder climate conditions         Tj= +7°C, Low-temperature application, Colder climate conditions         Tj= +7°C, Low-temperature application, Colder climate conditions         Tj= +7°C, Low-temperature application, Warmer climate conditions         Tj= +7°C, Low-temperature application, Warmer climate conditions	COPd COPd COPd COPd COPd COPd COPd		4,9 5,5 5,2	5,2 5,9	5,3
Tj= +2°C, Low-temperature application, Warmer climate conditions Tj= +7°C, medium-temperature application, Average climate conditions Tj= +7°C, medium-temperature application, Colder climate conditions Tj= +7°C, medium-temperature application, Warmer climate conditions Tj= +7°C, Low-temperature application, Average climate conditions Tj= +7°C, Low-temperature application, Colder climate conditions	COPd COPd COPd			5,9	·
Tj= +7°C, medium-temperature application, Average climate conditions Tj= +7°C, medium-temperature application, Colder climate conditions Tj= +7°C, medium-temperature application, Warmer climate conditions Tj= +7°C, Low-temperature application, Average climate conditions Tj= +7°C, Low-temperature application, Colder climate conditions	COPd COPd		5.2	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	6,5
Tj= +7°C, medium-temperature application, Colder climate conditions Tj= +7°C, medium-temperature application, Warmer climate conditions Tj= +7°C, Low-temperature application, Average climate conditions Tj= +7°C, Low-temperature application, Colder climate conditions	COPd		-,=	4,9	5
Tj= +7°C, medium-temperature application, Warmer climate conditions Tj= +7°C, Low-temperature application, Average climate conditions Tj= +7°C, Low-temperature application, Colder climate conditions			4	4,2	4,3
Tj= +7°C, Low-temperature application, Average climate conditions Tj= +7°C, Low-temperature application, Colder climate conditions	COPd		4,5	4,9	4,8
Tj= +7°C, Low-temperature application, Colder climate conditions	0014		3,2	4,2	3,5
	COPd		5,2	5,6	5,7
Ti= +7°C. Low-temperature application. Warmer climate conditions	COPd		5,7	6,2	6,8
· · · · · · · · · · · · · · · · · · ·	COPd		4,8	5,2	5,2
Tj= +12°C, medium-temperature application, Average climate conditions	COPd		4,4	4,8	4,8
Tj= +12°C, medium-temperature application, Colder climate conditions	COPd		4,8	5,3	5,3
Tj= +12°C, medium-temperature application, Warmer climate conditions	COPd		4,1	4,3	4,4
Tj= +12°C, Low-temperature application, Average climate conditions	COPd		5,5	5,9	6
Tj= +12°C, Low-temperature application, Colder climate conditions	COPd		5,8	6,2	6,9
Tj= +12°C, Low-temperature application, Warmer climate conditions	COPd		5,2	5,7	5,8
Tj= bivalent temperature, medium-temperature application, Average climate conditions	COPd		3	3,2	3,2
Tj= bivalent temperature, medium-temperature application, Colder climateconditions	COPd		3,5	3,8	3,8
Tj= bivalent temperature, medium-temperature application, Warmer climateconditions	COPd		2,8	3	3
Tj= bivalent temperature, Low-temperature application, Average climate conditions	COPd		4,6	4,9	5
Tj= bivalent temperature, Low-temperature application, Colder climateconditions	COPd		5,2	5,6	5,8
Tj= bivalent temperature, Low-temperature application, Warmer climateconditions	COPd		5,2	4,9	5
Tj= operation limit temperature, medium-temperature application, Averageclimate conditions	COPd		2,9	3	3,1
Tj= operation limit temperature, medium-temperature application, Colderclimate conditions	COPd		2,9	3,1	3,2
Tj= operation limit temperature, medium-temperature application, Warmerclimate conditions	COPd		2,8	3	3
Tj= operation limit temperature, Low-temperature application, Average climate conditions	COPd		4,6	4,9	5
Tj= operation limit temperature, Low-temperature application, Colderclimate conditions	COPd		4,8	5,1	6,1
Tj= operation limit temperature, Low-temperature application, Warmerclimate conditions	COPd		5,2	4,9	5
For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	COPd		-	-	-
For air-to-water heat pumps: operation limit temperature, medium-temperature application, Average climate conditions	ge TOL	°C	-10	-10	-10
For air-to-water heat pumps: operation limit temperature, Low-temperature application, Average climate conditions	TOL	°C	-10	-10	-10
Cycling interval efficiency, Average climate conditions	COPcyc		-	-	-
Cycling interval efficiency, Colder climate conditions	COPcyc		-	-	-
Cycling interval efficiency, Warmer climate conditions	COPcyc		-	-	-
Heating water operating limit temperature	WTOL	°C	65	65	65

Power consumption in operating modes other than the operating state	Symbol	Unit	BWT 221.B06	BWT 221.B08	BWT 221.B10
Power consumption in modes other than active mode Off mode	POFF	kW	0	0	0
Power consumption in modes other than active mode Thermostat-off mode	P <sub>to</sub>	kW	0,012	0	0
Power consumption in modes other than active mode Standby mode	P <sub>SB</sub>	kW	0,012	0,012	0,012
Power consumption in modes other than active mode Crankcase heater mode	Рск	kW	0	0	0



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Auxiliary heating appliances	Symbol	Unit	BWT 221.B06	BWT 221.B08	BWT 221.B10
Supplementary heater Rated heat output, Average climate conditions	P <sub>sup</sub>	kW	9	9	9
Type of energy input			Electrical	Electrical	Electrical

Other details	Symbol	Unit	BWT 221.B06	BWT 221.B08	BWT 221.B10
Capacity control			variable	variable	variable
sound power level indoors	L <sub>wa</sub>	dB	40	43	46
Sound power level, indoors	L <sub>wa</sub>	dB	-	-	-
Annual energy consumption	Q <sub>HE</sub>	kWh	3452	4338	5630
Annual energy consumption, medium-temperature application, Colder climate conditions	Q <sub>HE</sub>	kWh	6069	7633	10312
Annual energy consumption, medium-temperature application, Warmer climate conditions	Q <sub>HE</sub>	kWh	1857	2449	3281
Annual energy consumption, Low-temperature application, Average climate conditions	Q <sub>HE</sub>	kWh	2802	3398	4554
Annual energy consumption, medium-temperature application, Colder climate conditions	Q <sub>HE</sub>	kWh	2695	6143	7907
Annual energy consumption, medium-temperature application, Warmer climate conditions Water heating energy efficiency, Colder climate conditions	$\boldsymbol{Q}_{_{HE}}\boldsymbol{\eta}_{_{wh}}$	kWh%	1574	1897	2536
For air-to-water heat pumps: Rated air flow rate, outdoors		m³/h	-	-	-
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger, medium-temperature application		m³/h	1	2	1
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger, Low-temperature application		m³/h	1	2	2

For combination heaters with heat pump	Symbol	Unit	BWT 221.B06	BWT 221.B08	BWT 221.B10
Declared load profile			XL	XL	XL
Daily electricity consumption, Average climate conditions	Q <sub>elec</sub>	kWh	6,167	6,167	6,167
Daily electricity consumption, Colder climate conditions	Q <sub>elec</sub>	kWh	-	-	-
Daily electricity consumption, Warmer climate conditions	Q <sub>elec</sub>	kWh	-	-	-
Annual electricity consumption	AEC	kWh	1329	1329	1329
Annual electricity consumption, Colder climate conditions	AEC	kWh	-	-	-
Annual electricity consumption, Warmer climate conditions	AEC	kWh	-	-	-
Water heating energy efficiency, Average climate conditions	η <sub>wh</sub>	%	130	130	130
Water heating energy efficiency, Colder climate conditions	η <sub>wh</sub>	%	-	-	-
Water heating energy efficiency, Warmer climate conditions	η <sub>wh</sub>	%	-	-	-



Criterion	Energy efficiency category, temperature controller	Contribution, central heating energy efficiency
Room thermostat which switches the heat source on/off	1	1 %
Weather-compensated control     Modulating heat source	2	2 %
Weather-compensated control     Non-modulating heat source	3	1,5 %
<ul> <li>Room thermostat with TPI (Time Proportional Integral) properties</li> <li>Non-modulating heat source</li> </ul>	4	2 %
Modulating room thermostat     Modulating heat source	5	3 %
<ul> <li>Weather compensation, control unit</li> <li>Modulating heat source</li> <li>Room temperature sensor in conjunction with room hook-up</li> </ul>	6	4 %
<ul> <li>Weather compensation, control unit</li> <li>Non-modulating heat source</li> <li>Room temperature sensor in conjunction with room hook-up</li> </ul>	7	3,5 %
Individual room control with min. 3 room temperature sensors     Modulating heat source	8	5 %