

VITOCAL 150-A

AWO-E-AC 151.A10, AWO-E-AC 151.A13, AWO-E-AC-AF 151.A10, AWO-E-AC-AF 151.A13, AWO-M-E-AC 151.A10, AWO-M-E-AC 151.A13, AWO-M-E-AC-AF 151.A10, AWO-M-E-AC-AF 151.A13

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

Product Data	Symbol	Unit	AWO-E-AC 151.A10	AWO-E-AC 151.A13	AWO-E-AC-AF 151.A10	AWO-E-AC-AF 151.A13	AWO-M-E-AC 151.A10	AWO-M-E-AC 151.A13	AWO-M-E-AC-AF 151.A10	AWO-M-E-AC-AF 151.A13
Seasonal space heating energy efficiency, medium-temperature application			A++	A++	A++	A++	A++	A++	A++	A++
Rated heat output, medium-temperature application, Average climate conditions	P_{rated}	kW	9	12	9	12	9	12	9	12
Supplementary heater Rated heat output, Average climate conditions	P_{sup}	kW	1,9	2,3	1,9	2,3	1,9	2,3	1,9	2,3
Seasonal space heating energy efficiency, medium-temperature application, Average climate conditions	η_s	%	145	141	145	141	145	141	145	141
Annual energy consumption	Q_{HE}	kWh	5229	6944	5229	6944	5229	6944	5229	6944
sound power level indoors	L_{WA}	dB	40	40	40	40	40	40	40	40

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	AWO-E-AC 151.A10	AWO-E-AC 151.A13	AWO-E-AC-AF 151.A10	AWO-E-AC-AF 151.A13	AWO-M-E-AC 151.A10	AWO-M-E-AC 151.A13	AWO-M-E-AC-AF 151.A10	AWO-M-E-AC-AF 151.A13
Rated heat output, medium-temperature application, Colder climate conditions	P_{rated}	kW	8	10	8	10	8	10	8	10
Rated heat output, medium-temperature application, Warmer climate conditions	P_{rated}	kW	5	7	5	7	5	7	5	7
Supplementary heater Rated heat output, Colder climate conditions	P_{sup}	kW	8	10,4	8	10,4	8	10,4	8	10,4
Supplementary heater Rated heat output, Warmer climate conditions	P_{sup}	kW	0	0	0	0	0	0	0	0
Seasonal space heating energy efficiency, medium-temperature application, Warmer climate conditions	η_s	%	168	173	168	173	168	173	168	173
Seasonal space heating energy efficiency, medium-temperature application, Colder climate conditions	η_s	%	127	118	127	118	127	118	127	118
Annual energy consumption, medium-temperature application, Warmer climate conditions	Q_{HE}	kWh	1454	2007	1454	2007	1454	2007	1454	2007
Annual energy consumption, medium-temperature application, Colder climate conditions	Q_{HE}	kWh	6050	8407	6050	8407	6050	8407	6050	8407
Sound power level, indoors	L_{WA}	dB	56	56	56	56	56	56	56	56



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

Product Data	AWO-E-A C 151.A10	AWO-E-A C 151.A13	AWO-E-A C-AF 151.A10	AWO-E-A C-AF 151.A13	AWO-M-E -AC 151.A10	AWO-M-E -AC 151.A13	AWO-M-E -AC-AF 151.A10	AWO-M-E -AC-AF 151.A13
Operating mode	-	-	-	-	-	-	-	-
Mark Master/Slave Heat pump	Master	Master	Master	Master	Master	Master	Master	Master
Equipped with a supplementary heater	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Heat pump combination heater	No	No	No	No	No	No	No	No
Seasonal space heating energy efficiency, medium-temperature application	A++	A++	A++	A++	A++	A++	A++	A++
Seasonal space heating energy efficiency, Low-temperature application	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Water heating energy efficiency classes	-	-	-	-	-	-	-	-

Product Data	Symbol	Unit	AWO-E-A C 151.A10	AWO-E-A C 151.A13	AWO-E-A C-AF 151.A10	AWO-E-A C-AF 151.A13	AWO-M-E -AC 151.A10	AWO-M-E -AC 151.A13	AWO-M-E -AC-AF 151.A10	AWO-M-E -AC-AF 151.A13
Rated heat output, medium-temperature application, Average climate conditions	P_{rated}	kW	9	12	9	12	9	12	9	12
Rated heat output, medium-temperature application, Colder climate conditions	P_{rated}	kW	8	10	8	10	8	10	8	10
Rated heat output, medium-temperature application, Warmer climate conditions	P_{rated}	kW	5	7	5	7	5	7	5	7
Rated heat output, Low-temperature application, Average climate conditions	P_{rated}	kW	10	12	10	12	10	12	10	12
Rated heat output, Low-temperature application, Colder climate conditions	P_{rated}	kW	8	11	8	11	8	11	8	11
Rated heat output, Low-temperature application, Warmer climate conditions	P_{rated}	kW	5	7	5	7	5	7	5	7
Seasonal space heating energy efficiency, medium-temperature application, Average climate conditions	η_s	%	145	141	145	141	145	141	145	141
seasonal coefficient of performance, medium-temperature application, Average climate conditions	SCOP		3,7	3,54	3,7	3,54	3,7	3,54	3,7	3,54
Seasonal space heating energy efficiency, medium-temperature application, Colder climate conditions	η_s	%	127	118	127	118	127	118	127	118
Seasonal space heating energy efficiency, medium-temperature application, Warmer climate conditions	η_s	%	168	173	168	173	168	173	168	173
Seasonal space heating energy efficiency, Low-temperature application, Average climate conditions	η_s	%	190	178	190	178	190	178	190	178
seasonal coefficient of performance, Low-temperature application, Average climate conditions	SCOP		4,83	4,53	4,83	4,53	4,83	4,53	4,83	4,53
Seasonal space heating energy efficiency, Low-temperature application, Colder climate conditions	η_s	%	160	144	160	144	160	144	160	144
Seasonal space heating energy efficiency, Low-temperature application, Warmer climate conditions	η_s	%	239	239	239	239	239	239	239	239

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

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj	Symbol	Unit	AWO-E-A C 151.A10	AWO-E-A C 151.A13	AWO-E-A C-AF 151.A10	AWO-E-A C-AF 151.A13	AWO-M-E -AC 151.A10	AWO-M-E -AC 151.A13	AWO-M-E -AC-AF 151.A10	AWO-M-E -AC-AF 151.A13
Tj= -7°C, medium-temperature application, Average climate conditions	Pdh	kW	8,3	10,7	8,3	10,7	8,3	10,7	8,3	10,7
Tj= -7°C, medium-temperature application, Colder climate conditions	Pdh	kW	8,4	10,8	8,4	10,8	8,4	10,8	8,4	10,8
Tj= -7°C, medium-temperature application, Warmer climate conditions	Pdh	kW	-	-	-	-	-	-	-	-
Tj= -7°C, Low-temperature application, Average climate conditions	Pdh	kW	8,7	11	8,7	11	8,7	11	8,7	11
Tj= -7°C, Low-temperature application, Colder climate conditions	Pdh	kW	8,7	11	8,7	11	8,7	11	8,7	11
Tj= -7°C, Low-temperature application, Warmer climate conditions	Pdh	kW	-	-	-	-	-	-	-	-
Tj= +2°C, medium-temperature application, Average climate conditions	Pdh	kW	5,2	6,6	5,2	6,6	5,2	6,6	5,2	6,6
Tj= +2°C, medium-temperature application, Colder climate conditions	Pdh	kW	5,2	6,6	5,2	6,6	5,2	6,6	5,2	6,6
Tj= +2°C, medium-temperature application, Warmer climate conditions	Pdh	kW	4,7	6,6	4,7	6,6	4,7	6,6	4,7	6,6
Tj= +2°C, Low-temperature application, Average climate conditions	Pdh	kW	5,4	6,8	5,4	6,8	5,4	6,8	5,4	6,8
Tj= +2°C, Low-temperature application, Colder climate conditions	Pdh	kW	5,5	6,8	5,5	6,8	5,5	6,8	5,5	6,8
Tj= +2°C, Low-temperature application, Warmer climate conditions	Pdh	kW	5,3	6,7	5,3	6,7	5,3	6,7	5,3	6,7
Tj= +7°C, medium-temperature application, Average climate conditions	Pdh	kW	5,7	5,7	5,7	5,7	5,7	5,7	5,7	5,7
Tj= +7°C, medium-temperature application, Colder climate conditions	Pdh	kW	5,7	5,7	5,7	5,7	5,7	5,7	5,7	5,7
Tj= +7°C, medium-temperature application, Warmer climate conditions	Pdh	kW	5,2	5,2	5,2	5,2	5,2	5,2	5,2	5,2
Tj= +7°C, Low-temperature application, Average climate conditions	Pdh	kW	5,8	5,9	5,8	5,9	5,8	5,9	5,8	5,9
Tj= +7°C, Low-temperature application, Colder climate conditions	Pdh	kW	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9
Tj= +7°C, Low-temperature application, Warmer climate conditions	Pdh	kW	5,7	5,7	5,7	5,7	5,7	5,7	5,7	5,7
Tj= +12°C, medium-temperature application, Average climate conditions	Pdh	kW	5,7	5,7	5,7	5,7	5,7	5,7	5,7	5,7
Tj= +12°C, medium-temperature application, Colder climate conditions	Pdh	kW	5,7	5,7	5,7	5,7	5,7	5,7	5,7	5,7
Tj= +12°C, medium-temperature application, Warmer climate conditions	Pdh	kW	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5
Tj= +12°C, Low-temperature application, Average climate conditions	Pdh	kW	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5
Tj= +12°C, Low-temperature application, Colder climate conditions	Pdh	kW	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
Tj= +12°C, Low-temperature application, Warmer climate conditions	Pdh	kW	5,8	5,7	5,8	5,7	5,8	5,7	5,8	5,7
Tj= bivalent temperature, medium-temperature application, Average climate conditions	Pdh	kW	8,3	10,7	8,3	10,7	8,3	10,7	8,3	10,7
Tj= bivalent temperature, medium-temperature application, Colder climateconditions	Pdh	kW	6,5	8,4	6,5	8,4	6,5	8,4	6,5	8,4
Tj= bivalent temperature, medium-temperature application, Warmer climateconditions	Pdh	kW	4,7	6,6	4,7	6,6	4,7	6,6	4,7	6,6
Tj= bivalent temperature, Low-temperature application, Average climate conditions	Pdh	kW	8,7	11	8,7	11	8,7	11	8,7	11

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

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj	Symbol	Unit	AWO-E-A C 151.A10	AWO-E-A C 151.A13	AWO-E-A C-AF 151.A10	AWO-E-A C-AF 151.A13	AWO-M-E -AC 151.A10	AWO-M-E -AC 151.A13	AWO-M-E -AC-AF 151.A10	AWO-M-E -AC-AF 151.A13
Tj= bivalent temperature, Low-temperature application, Colder climateconditions	Pdh	kW	6,9	8,8	6,9	8,8	6,9	8,8	6,9	8,8
Tj= bivalent temperature, Low-temperature application, Warmer climateconditions	Pdh	kW	5,3	6,7	5,3	6,7	5,3	6,7	5,3	6,7
Tj= operation limit temperature, medium-temperature application, Averageclimate conditions	Pdh	kW	7,5	9,7	7,5	9,7	7,5	9,7	7,5	9,7
Tj= operation limit temperature, Low-temperature application, Colderclimate conditions	Pdh	kW	6	7,7	6	7,7	6	7,7	6	7,7
Tj= operation limit temperature, medium-temperature application, Warmerclimate conditions	Pdh	kW	4,7	6,6	4,7	6,6	4,7	6,6	4,7	6,6
Tj= operation limit temperature, Low-temperature application, Average climate conditions	Pdh	kW	7,9	10,1	7,9	10,1	7,9	10,1	7,9	10,1
Tj= operation limit temperature, medium-temperature application, Colderclimate conditions	Pdh	kW	5,5	7,2	5,5	7,2	5,5	7,2	5,5	7,2
Tj= operation limit temperature, Low-temperature application, Warmerclimate conditions	Pdh	kW	5,3	6,7	5,3	6,7	5,3	6,7	5,3	6,7
For air-to-water heat pumps: Tj= -15°C (if TOL < -20°C)	Pdh	kW	-	-	-	-	-	-	-	-
bivalent temperature, medium-temperature application, Average climate conditions	T _{biv}	°C	-7	-7	-7	-7	-7	-7	-7	-7
bivalent temperature, medium-temperature application, Colder climate conditions	T _{biv}	°C	-15	-15	-15	-15	-15	-15	-15	-15
bivalent temperature, medium-temperature application, Warmer climate conditions	T _{biv}	°C	2	2	2	2	2	2	2	2
bivalent temperature, Low-temperature application, Average climate conditions	T _{biv}	°C	-7	-7	-7	-7	-7	-7	-7	-7
bivalent temperature, Low-temperature application, Colder climate conditions	T _{biv}	°C	-15	-15	-15	-15	-15	-15	-15	-15
bivalent temperature, Low-temperature application, Warmer climate conditions	T _{biv}	°C	2	2	2	2	2	2	2	2
Cycling interval capacity for heating, Average climate conditions	P _{cych}	kW	-	-	-	-	-	-	-	-
Cycling interval capacity for heating, Colder climate conditions	P _{cych}	kW	-	-	-	-	-	-	-	-
Cycling interval capacity for heating, Warmer climate conditions	P _{cych}	kW	-	-	-	-	-	-	-	-
Degradation co-efficient medium-temperature application	Cdh		1	1	1	1	1	1	1	1
Degradation co-efficient Low-temperature application	Cdh		1	1	1	1	1	1	1	1

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj	Symbol	Unit	AWO-E- AC 151.A10	AWO-E- AC 151.A13	AWO-E- AC-AF 151.A10	AWO-E- AC-AF 151.A13	AWO-M- E-AC 151.A10	AWO-M- E-AC 151.A13	AWO-M- E-AC-AF 151.A10	AWO-M- E-AC-AF 151.A13
Tj= -7°C, medium-temperature application, Average climate conditions	COPd		2,4	2,3	2,4	2,3	2,4	2,3	2,4	2,3
Tj= -7°C, medium-temperature application, Colder climate conditions	COPd		2,6	2,5	2,6	2,5	2,6	2,5	2,6	2,5
Tj= -7°C, medium-temperature application, Warmer climate conditions	COPd		-	-	-	-	-	-	-	-
Tj= -7°C, Low-temperature application, Average climate conditions	COPd		3,1	3	3,1	3	3,1	3	3,1	3

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

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj	Symbol	Unit	AWO-E-AC 151.A10	AWO-E-AC 151.A13	AWO-E-AC-AF 151.A10	AWO-E-AC-AF 151.A13	AWO-M-E-AC 151.A10	AWO-M-E-AC 151.A13	AWO-M-E-AC-AF 151.A10	AWO-M-E-AC-AF 151.A13
Tj= -7°C, Low-temperature application, Colder climate conditions	COPd		3,2	3	3,2	3	3,2	3	3,2	3
Tj= -7°C, Low-temperature application, Warmer climate conditions	COPd		-	-	-	-	-	-	-	-
Tj= +2°C, medium-temperature application, Average climate conditions	COPd		3,7	3,4	3,7	3,4	3,7	3,4	3,7	3,4
Tj= +2°C, medium-temperature application, Colder climate conditions	COPd		4	3,6	4	3,6	4	3,6	4	3,6
Tj= +2°C, medium-temperature application, Warmer climate conditions	COPd		2,7	2,8	2,7	2,8	2,7	2,8	2,7	2,8
Tj= +2°C, Low-temperature application, Average climate conditions	COPd		4,8	4,3	4,8	4,3	4,8	4,3	4,8	4,3
Tj= +2°C, Low-temperature application, Colder climate conditions	COPd		5	4,4	5	4,4	5	4,4	5	4,4
Tj= +2°C, Low-temperature application, Warmer climate conditions	COPd		4,2	3,8	4,2	3,8	4,2	3,8	4,2	3,8
Tj= +7°C, medium-temperature application, Average climate conditions	COPd		4,6	4,8	4,6	4,8	4,6	4,8	4,6	4,8
Tj= +7°C, medium-temperature application, Colder climate conditions	COPd		5	5	5	5	5	5	5	5
Tj= +7°C, medium-temperature application, Warmer climate conditions	COPd		3,6	3,7	3,6	3,7	3,6	3,7	3,6	3,7
Tj= +7°C, Low-temperature application, Average climate conditions	COPd		6	6,1	6	6,1	6	6,1	6	6,1
Tj= +7°C, Low-temperature application, Colder climate conditions	COPd		6,2	6,2	6,2	6,2	6,2	6,2	6,2	6,2
Tj= +7°C, Low-temperature application, Warmer climate conditions	COPd		5,3	5,4	5,3	5,4	5,3	5,4	5,3	5,4
Tj= +12°C, medium-temperature application, Average climate conditions	COPd		6	6,3	6	6,3	6	6,3	6	6,3
Tj= +12°C, medium-temperature application, Colder climate conditions	COPd		6,3	6,3	6,3	6,3	6,3	6,3	6,3	6,3
Tj= +12°C, medium-temperature application, Warmer climate conditions	COPd		5,4	5,5	5,4	5,5	5,4	5,5	5,4	5,5
Tj= +12°C, Low-temperature application, Average climate conditions	COPd		7,3	7,4	7,3	7,4	7,3	7,4	7,3	7,4
Tj= +12°C, Low-temperature application, Colder climate conditions	COPd		7,4	7,2	7,4	7,2	7,4	7,2	7,4	7,2
Tj= +12°C, Low-temperature application, Warmer climate conditions	COPd		7,2	6,9	7,2	6,9	7,2	6,9	7,2	6,9
Tj= bivalent temperature, medium-temperature application, Average climate conditions	COPd		2,4	2,3	2,4	2,3	2,4	2,3	2,4	2,3
Tj= bivalent temperature, medium-temperature application, Colder climateconditions	COPd		2,1	2	2,1	2	2,1	2	2,1	2
Tj= bivalent temperature, medium-temperature application, Warmer climateconditions	COPd		2,7	2,8	2,7	2,8	2,7	2,8	2,7	2,8
Tj= bivalent temperature, Low-temperature application, Average climate conditions	COPd		3,1	2,9	3,1	2,9	3,1	2,9	3,1	2,9
Tj= bivalent temperature, Low-temperature application, Colder climateconditions	COPd		2,7	2,5	2,7	2,5	2,7	2,5	2,7	2,5
Tj= bivalent temperature, Low-temperature application, Warmer climateconditions	COPd		4,2	3,8	4,2	3,8	4,2	3,8	4,2	3,8
Tj= operation limit temperature, medium-temperature application, Averageclimate conditions	COPd		2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1
Tj= operation limit temperature, medium-temperature application, Colderclimate conditions	COPd		1,8	1,8	1,8	1,8	1,8	1,8	1,8	1,8

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

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _J	Symbol	Unit	AWO-E-AC 151.A10	AWO-E-AC 151.A13	AWO-E-AC-AF 151.A10	AWO-E-AC-AF 151.A13	AWO-M-E-AC 151.A10	AWO-M-E-AC 151.A13	AWO-M-E-AC-AF 151.A10	AWO-M-E-AC-AF 151.A13
T _J = operation limit temperature, medium-temperature application, Warmerclimate conditions	COP _d		2,7	2,8	2,7	2,8	2,7	2,8	2,7	2,8
T _J = operation limit temperature, Low-temperature application, Average climate conditions	COP _d		2,9	2,7	2,9	2,7	2,9	2,7	2,9	2,7
T _J = operation limit temperature, Low-temperature application, Colderclimate conditions	COP _d		2,3	2,3	2,3	2,3	2,3	2,3	2,3	2,3
T _J = operation limit temperature, Low-temperature application, Warmerclimate conditions	COP _d		4,2	3,8	4,2	3,8	4,2	3,8	4,2	3,8
For air-to-water heat pumps: T _J = -15°C (if TOL < -20°C)	COP _d		-	-	-	-	-	-	-	-
For air-to-water heat pumps: operation limit temperature, medium-temperature application, Average climate conditions	TOL	°C	-10	-10	-10	-10	-10	-10	-10	-10
For air-to-water heat pumps: operation limit temperature, Low-temperature application, Average climate conditions	TOL	°C	-10	-10	-10	-10	-10	-10	-10	-10
Cycling interval efficiency, Average climate conditions	COP _{cyc}		-	-	-	-	-	-	-	-
Cycling interval efficiency, Colder climate conditions	COP _{cyc}		-	-	-	-	-	-	-	-
Cycling interval efficiency, Warmer climate conditions	COP _{cyc}		-	-	-	-	-	-	-	-
Heating water operating limit temperature	WTOL	°C	70	70	70	70	70	70	70	70

Power consumption in operating modes other than the operating state	Symbol	Unit	AWO-E-A C 151.A10	AWO-E-A C 151.A13	AWO-E-A C-AF 151.A10	AWO-E-A C-AF 151.A13	AWO-M-E-AC 151.A10	AWO-M-E-AC 151.A13	AWO-M-E-AC-AF 151.A10	AWO-M-E-AC-AF 151.A13
Power consumption in modes other than active mode Off mode	P _{OFF}	kW	0	0	0	0	0	0	0	0
Power consumption in modes other than active mode Thermostat-off mode	P _{TO}	kW	0,014	0,014	0,014	0,014	0,014	0,014	0,014	0,014
Power consumption in modes other than active mode Standby mode	P _{SB}	kW	0,016	0,016	0,016	0,016	0,016	0,016	0,016	0,016
Power consumption in modes other than active mode Crankcase heater mode	P _{CK}	kW	0	0	0	0	0	0	0	0

Auxiliary heating appliances	Symbol	Unit	AWO-E-AC 151.A10	AWO-E-AC 151.A13	AWO-E-AC-AF 151.A10	AWO-E-AC-AF 151.A13	AWO-M-E-AC 151.A10	AWO-M-E-AC 151.A13	AWO-M-E-AC-AF 151.A10	AWO-M-E-AC-AF 151.A13
Supplementary heater Rated heat output, Average climate conditions	P _{sup}	kW	1,9	2,3	1,9	2,3	1,9	2,3	1,9	2,3
Type of energy input			Electrical	Electrical	Electrical	Electrical	Electrical	Electrical	Electrical	Electrical

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AWO-E-AC 151.A10, AWO-E-AC 151.A13, AWO-E-AC-AF 151.A10, AWO-E-AC-AF 151.A13, AWO-M-E-AC 151.A10, AWO-M-E-AC 151.A13, AWO-M-E-AC-AF 151.A10, AWO-M-E-AC-AF 151.A13

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

Other details	Symbol	Unit	AWO-E-A C 151.A10	AWO-E-A C 151.A13	AWO-E-A C-AF 151.A10	AWO-E-A C-AF 151.A13	AWO-M-E -AC 151.A10	AWO-M-E -AC 151.A13	AWO-M-E -AC-AF 151.A10	AWO-M-E -AC-AF 151.A13
Capacity control			variable	variable	variable	variable	variable	variable	variable	variable
sound power level indoors	L_{WA}	dB	40	40	40	40	40	40	40	40
Sound power level, indoors	L_{WA}	dB	56	56	56	56	56	56	56	56
Annual energy consumption	Q_{HE}	kWh	5229	6944	5229	6944	5229	6944	5229	6944
Annual energy consumption, medium-temperature application, Colder climate conditions	Q_{HE}	kWh	6050	8407	6050	8407	6050	8407	6050	8407
Annual energy consumption, medium-temperature application, Warmer climate conditions	Q_{HE}	kWh	1454	2007	1454	2007	1454	2007	1454	2007
Annual energy consumption, Low-temperature application, Average climate conditions	Q_{HE}	kWh	4129	5672	4129	5672	4129	5672	4129	5672
Annual energy consumption, medium-temperature application, Colder climate conditions	Q_{HE}	kWh	5126	7252	5126	7252	5126	7252	5126	7252
Annual energy consumption, medium-temperature application, Warmer climate conditions	Q_{HE}	kWh	1165	1518	1165	1518	1165	1518	1165	1518
For air-to-water heat pumps: Rated air flow rate, outdoors		m ³ /h	4045	4188	4045	4188	4045	4188	4045	4188
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger, medium-temperature application		m ³ /h	-	-	-	-	-	-	-	-
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger, Low-temperature application		m ³ /h	-	-	-	-	-	-	-	-

For combination heaters with heat pump	Symbol	Unit	AWO-E-A C 151.A10	AWO-E-A C 151.A13	AWO-E-A C-AF 151.A10	AWO-E-A C-AF 151.A13	AWO-M-E -AC 151.A10	AWO-M-E -AC 151.A13	AWO-M-E -AC-AF 151.A10	AWO-M-E -AC-AF 151.A13
Declared load profile			-	-	-	-	-	-	-	-
Daily electricity consumption, Average climate conditions	Q_{elec}	kWh	-	-	-	-	-	-	-	-
Daily electricity consumption, Colder climate conditions	Q_{elec}	kWh	-	-	-	-	-	-	-	-
Daily electricity consumption, Warmer climate conditions	Q_{elec}	kWh	-	-	-	-	-	-	-	-
Annual electricity consumption	AEC	kWh	-	-	-	-	-	-	-	-
Annual electricity consumption, Colder climate conditions	AEC	kWh	-	-	-	-	-	-	-	-
Annual electricity consumption, Warmer climate conditions	AEC	kWh	-	-	-	-	-	-	-	-
Water heating energy efficiency, Average climate conditions	η_{wh}	%	-	-	-	-	-	-	-	-
Water heating energy efficiency, Colder climate conditions	η_{wh}	%	-	-	-	-	-	-	-	-
Water heating energy efficiency, Warmer climate conditions	η_{wh}	%	-	-	-	-	-	-	-	-

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

Criterion	Energy efficiency category, temperature controller	Contribution, central heating energy efficiency
<ul style="list-style-type: none"> • Room thermostat which switches the heat source on/off 	1	1 %
<ul style="list-style-type: none"> • Weather-compensated control • Modulating heat source 	2	2 %
<ul style="list-style-type: none"> • Weather-compensated control • Non-modulating heat source 	3	1,5 %
<ul style="list-style-type: none"> • Room thermostat with TPI (Time Proportional Integral) properties • Non-modulating heat source 	4	2 %
<ul style="list-style-type: none"> • Modulating room thermostat • Modulating heat source 	5	3 %
<ul style="list-style-type: none"> • Weather compensation, control unit • Modulating heat source • Room temperature sensor in conjunction with room hook-up 	6	4 %
<ul style="list-style-type: none"> • Weather compensation, control unit • Non-modulating heat source • Room temperature sensor in conjunction with room hook-up 	7	3,5 %
<ul style="list-style-type: none"> • Individual room control with min. 3 room temperature sensors • Modulating heat source 	8	5 %