BOSCH

Compress 7400i AW

CS7400iAW 7 OR

7738602076

Technical documentation: This document covers information requirements according (EU) No 811/2013, (EU) No 813/2013 as well as (EU) No 2017/1369, specifically Art. 12 (5) regarding: General description of the model, Measured technical parameters of the model

Productdata	Symbol	Unit	7738602076
Rated heat output (average climate conditions)	Prated	kW	6
Seasonal space heating energy efficiency (average climate conditions)	η_S	%	140
Annual energy consumption (average climate conditions)	Q_{HE}	kWh	3410
Annual energy consumption	Q_{HE}	GJ	-
Sound power level, indoors	L_{WA}	dB	29
Rated heat output (colder climate conditions)	Prated	kW	5
Rated heat output (warmer climate conditions)	Prated	kW	7
Seasonal space heating energy efficiency (colder climate conditions)	η_S	%	123
Seasonal space heating energy efficiency (warmer climate conditions)	η_S	%	165
Annual energy consumption (colder climate conditions)	Q_{HE}	kWh	4286
Annual energy consumption (colder climate)	Q_{HE}	GJ	-
Annual energy consumption (warmer climate conditions)	Q_{HE}	kWh	2312
Annual energy consumption (warmer climate)	Q_{HE}	GJ	-
Sound power level, outdoors	L_{WA}	dB	50
Air-to-water heat pump			Yes
Water-to-water heat pump			No
Brine-to-water heat pump			No
Low temperature heat pump			No
Equipped with a supplementary heater?			Yes
Heat pump combination heater			No
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C (average climate conditions)	Pdh	kW	5,2
Tj = + 2 °C (average climate conditions)	Pdh	kW	3,3
Tj = + 7 °C (average climate conditions)	Pdh	kW	2,8
Tj = + 12 °C (average climate conditions)	Pdh	kW	3,3
Tj = bivalent temperature (average climate conditions)	Pdh	kW	5,9
Tj = operation limit temperature	Pdh	kW	4,6
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	kW	4,8
Bivalent temperature (average climate conditions)	T_{biv}	°C	-10
Cycling interval capacity for heating (average climate conditions)	Pcych	kW	-
Degradation co-efficient (average climate conditions)	Cdh		1,0
Tj = - 7 °C (colder climate conditions)	Pdh	kW	3,5
Tj = + 2 °C (colder climate conditions)	Pdh	kW	2,4
Tj = + 7 °C (colder climate conditions)	Pdh	kW	2,8
Tj = + 12 °C (colder climate conditions)	Pdh	kW	3,3
Tj = bivalent temperature (colder climate conditions)	Pdh	kW	4,8
Bivalent temperature (colder climate conditions)	T_{biv}	°C	-17
Bivalent temperature (warmer climate conditions)	T_{biv}	°C	2
Cycling interval capacity for heating (colder climate conditions)	Pcych	kW	-
Tj = + 2 °C (warmer climate conditions)	Pdh	kW	7,2
Tj = + 7 °C (warmer climate conditions)	Pdh	kW	4,8
Tj = + 12 °C (warmer climate conditions)	Pdh	kW	3,3

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Tj = bivalent temperature (warmer climate conditions)	Pdh	kW	7,2
Bivalent temperature (warmer climate conditions)	T_{biv}	°C	2
Cycling interval capacity for heating (warmer climate conditions)	Pcych	kW	-
Degradation coefficient (colder climate conditions)	Cdh		-
Degradation coefficient (wamer climate conditions)	Cdh		-
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj /			
Tj = - 7 °C (average climate conditions)	COPd		2,27
Tj = - 7 °C (average climate conditions)	PERd	%	-
Tj = + 2 °C (average climate conditions)	COPd		3,56
Tj = + 2 °C (average climate conditions)	PERd	%	-
Tj = + 7 °C (average climate conditions)	COPd		4,49
Tj = + 7 °C (average climate conditions)	PERd	%	-
Tj = + 12 °C (average climate conditions)	COPd		5,98
Tj = + 12 °C (average climate conditions)	PERd	%	-
Tj = bivalent temperature (average climate conditions)	COPd		1,93
Tj = bivalent temperature	PERd	%	-
Tj = operation limit temperature	COPd		1,76
Tj = operation limit temperature	PERd	%	-
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd		1,82
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	PERd	%	-
For air-to-water heat pumps: Operation limit temperature	TOL	°C	-18
Cycling interval efficiency (average climate conditions)	COPcyc		-
Cycling interval efficiency	PERcyc	%	-
Heating water operating limit temperature	WTOL	°C	60
Tj = - 7 °C (colder climate conditions)	COPd		2,66
Tj = + 2 °C (colder climate conditions)	COPd		3,86
Tj = + 7 °C (colder climate conditions)	COPd		4,70
Tj = + 12 °C (colder climate conditions)	COPd		6,19
Tj = bivalent temperature (colder climate conditions)	COPd		1,82
Tj = + 2 °C (warmer climate conditions)	COPd		2,19
Tj = + 7 °C (warmer climate conditions)	COPd		3,76
Tj = + 12 °C (warmer climate conditions)	COPd		5,28
Tj = bivalent temperature (warmer climate conditions)	COPd		2,19
Tj = - 7 °C (colder climate conditions)	PERd	%	-
Tj = + 2 °C (colder climate conditions)	PERd	%	-
Tj = + 7 °C (colder climate conditions)	PERd	%	-
Tj = + 12 °C (colder climate conditions)	PERd	%	-
Tj = + 2 °C (warmer climate conditions)	PERd	%	-
Tj = + 7 °C (warmer climate conditions)	PERd	%	-
Tj = + 12 °C (warmer climate conditions)	PERd	%	-
Tj = bivalent temperature (colder climate conditions)	PERd	%	-
Tj = bivalent temperature (warmer climate conditions)	PERd	%	-
Tj = operation limit temperature (colder climate conditions)	PERd	%	-
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C, colder climate conditions)	PERd	%	-
Cycling interval efficiency (colder climate conditions)	COPcyc		-

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Productdata	Symbol	Unit	7738602076
Cycling interval efficiency (warmer climate conditions)	COPcyc		-
Cycling interval efficiency (colder climate conditions)	PERcyc	%	-
Cycling interval efficiency (warmer climate conditions)	PERcyc	%	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	kW	0,017
Thermostat-off mode	P_{TO}	kW	0,033
In standby mode	P_{SB}	kW	0,017
Crankcase heater mode	P_{CK}	kW	0,000
Supplementary heater			
Rated heat output supplementary heater	Psup	kW	0,0
Type of energy input			Electric
Rated heat output (colder climate conditions)	Psup	kW	5,5
Rated heat output (warmer climate conditions)	Psup	kW	0,0
Other items			
Capacity control			variable
Emissions of nitrogen oxides (only gas- or oil fired)	NO_x	mg/kWh	-
For air-to-water heat pumps: Rated air flow rate, outdoors		m^3/h	2900
For brine-to-water heat pumps: Rated brine flow rate, outdoor heat exchanger		m^3/h	-