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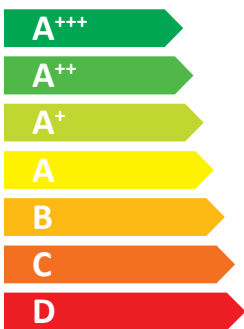


METROSAVER UB 10



55 °C

35 °C



A++

A+++



45 dB



dB

■ 10
■ **10**
■ 10
kW

■ 12
■ **12**
■ 12
kW



2019

811/2013

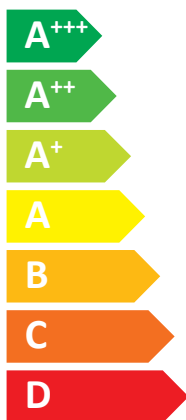


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Y IJA
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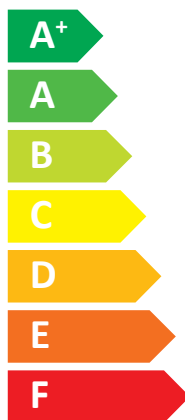
METROSAVER UB 10+METROSAVER300



A++



XXL



A



45 dB



dB



10 kW
10 kW
10 kW

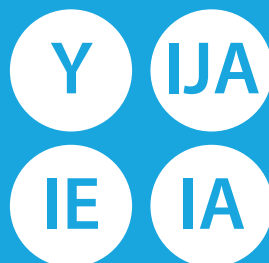
2019

811/2013



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METROSAVER UB 10 + METROSAVER 300



A⁺⁺



A



XXL



A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

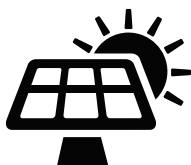
E

F

G

A⁺⁺⁺

+



+



+



+



XXL

A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

E

F

G

A

Supplier's name:	METRO THERM A/S		
Model:	Metrosaver UB 10 + Metrosaver 300		
Temperature application	35	55	°C
Declared load profile for water heating	XXL		
Seasonal space heating energy efficiency class, average climate:	A+++	A++	
Water heating energy efficiency class, average climate:	A		
Rated heat output, average climate:	12	10	kW
Annual energy consumption for space heating, average climate	4906	5345	kWh
Annual electricity consumption for water heating, average climate	1945		kWh
Seasonal space heating energy efficiency, average climate:	194	147	%
Water heating energy efficiency, average climate:	111		%
Sound power level LWA indoors	45		dB
Rated heat output, cold climate:	12	10	kW
Rated heat output, warm climate:	12	10	kW
Annual energy consumption for space heating, cold climate	5695	6214	kWh
Annual electricity consumption for water heating, cold climate	1945		kWh
Annual energy consumption for space heating, warm climate	3173	3462	kWh
Annual electricity consumption for water heating, warm climate	1945		kWh
Seasonal space heating energy efficiency, cold climate:	200	151	%
Water heating energy efficiency, cold climate:	111		%
Seasonal space heating energy efficiency, warm climate:	194	146	%
Water heating energy efficiency, warm climate:	111		%
Sound power level LWA outdoors	-		dB

Data for package fiche

Controller class	VII		
Controller contribution to efficiency	3,5		%
Seasonal space heating energy efficiency of package, average climate:	198	150	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A+++	%
Seasonal space heating energy efficiency of package, cold climate:	203	154	%
Seasonal space heating energy efficiency of package, warm climate:	198	150	%

Model(s):				Metrosaver UB 10 + Metrosaver 300				 METRO THERM			
Type of heat source/sink:				Brine-to-water							
Low-temperature heat pump:				No							
Equipped with supplementary heater:				Yes							
Heat pump combination heater:				Yes							
Climate condition:				Average							
Temperature application:				Medium temperature (55 °C)							
Applied standards: EN14825 and EN16147											
Rated heat output			Prated	10,0	kW	Seasonal space heating energy efficiency			η_s	147	%
<i>Declared capacity for part load at outdoor temperature Tj</i>						<i>Declared coefficient of performance for part load at outdoor temperature Tj</i>					
Tj = -7 °C			Pdh	7,9	kW	Tj = -7 °C			COPd	3,40	-
Tj = +2 °C			Pdh	8,7	kW	Tj = +2 °C			COPd	3,91	-
Tj = +7 °C			Pdh	9,2	kW	Tj = +7 °C			COPd	4,25	-
Tj = +12 °C			Pdh	9,6	kW	Tj = +12 °C			COPd	4,58	-
Tj = biv			Pdh	8,2	kW	Tj = biv			COPd	3,52	-
Tj = TOL			Pdh	7,6	kW	Tj = TOL			COPd	3,19	-
Tj = -15 °C (if TOL < -20 °C)			Pdh		kW	Tj = -15 °C (if TOL < -20 °C)			COPd		-
Bivalent temperature			Tbiv	-5,2	°C	Operation limit temperature			TOL	-10	°C
Cycling interval capacity for heating			Pcych		kW	Cycling interval efficiency			COPcyc		-
Degradation co-efficient			Cdh	1,00	-	temperature			WTOL	65	°C
<i>Power consumption in modes other than active mode</i>						<i>Supplementary heater</i>					
Off mode			P _{OFF}	0,002	kW	Rated heat output			P _{sup}	2,4	kW
Thermostat-off mode			P _{TO}	0,01	kW						
Standby mode			P _{SB}	0,007	kW	Type of energy input			Electric		
Crankcase heater mode			P _{CK}	0,014	kW						
<i>Other items</i>											
Capacity control			fixed			Rated air flow rate, outdoors					m³/h
Sound power level, indoors/outdoors			L _{WA}	45/-	dB	Rated water flow rate, indoor heat exchanger			0,82		m³/h
Annual energy consumption			Q _{HE}	5345	kWh	Rated brine or water flow rate, outdoor heat exchanger			1,56		m³/h
<i>For heat pump combination heater:</i>											
Declared load profile			XXL			Water heating energy efficiency			η_{wh}	111	%
Daily electricity consumption			Q _{elec}	8,86	kWh	Daily fuel consumption			Q _{fuel}		kWh
Annual electricity consumption			AEC	1945	kWh	Annual fuel consumption			AFC		GJ
Approved by:											
Contact details			METRO THERM A/S Rundinsvej 55 DK-3200 Helsingør www.metrotherm.dk								