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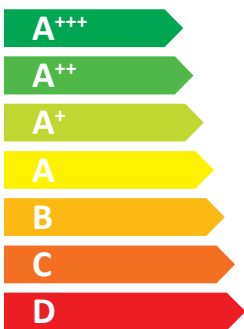


METROSAVER UB 12



55 °C

35 °C



A++

A+++



45 dB



dB

14
14
14
kW

14
14
14
kW



2019

811/2013



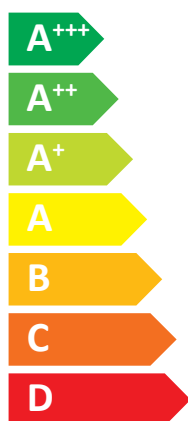
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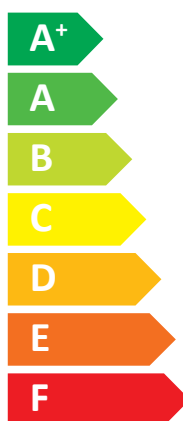
METROSAVER UB 12+METROSAVER300



XXL



A++



A



45 dB



dB



14 kW
14 kW
14 kW

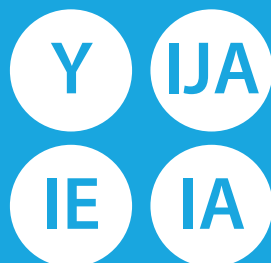
2019

811/2013



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METROSAVER UB 12 + METROSAVER 300



A⁺⁺



A



A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

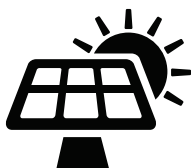
D

E

F

G

A⁺⁺



A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

E

F

G

A

Supplier's name:	METRO THERM A/S		
Model:	Metrosaver UB 12 + 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:	14	14	kW
Annual energy consumption for space heating, average climate	6042	7785	kWh
Annual electricity consumption for water heating, average climate	2121		kWh
Seasonal space heating energy efficiency, average climate:	183	141	%
Water heating energy efficiency, average climate:	102		%
Sound power level LWA indoors	45		dB
Rated heat output, cold climate:	14	14	kW
Rated heat output, warm climate:	14	14	kW
Annual energy consumption for space heating, cold climate	6993	9049	kWh
Annual electricity consumption for water heating, cold climate	2121		kWh
Annual energy consumption for space heating, warm climate	3949	5120	kWh
Annual electricity consumption for water heating, warm climate	2121		kWh
Seasonal space heating energy efficiency, cold climate:	189	145	%
Water heating energy efficiency, cold climate:	102		%
Seasonal space heating energy efficiency, warm climate:	181	138	%
Water heating energy efficiency, warm climate:	102		%
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:	187	144	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A++	%
Seasonal space heating energy efficiency of package, cold climate:	193	148	%
Seasonal space heating energy efficiency of package, warm climate:	185	142	%

Model(s):				Metrosaver UB 12 + Metrosaver 300							
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	14,0	kW	Seasonal space heating energy efficiency			ηs	141	%
Declared capacity for part load at outdoor temperature Tj						Declared coefficient of performance for part load at outdoor temperature Tj					
Tj = -7 °C	Pdh	10,8	kW	Tj = -7 °C			COPd	3,30	-		
Tj = +2 °C	Pdh	11,1	kW	Tj = +2 °C			COPd	3,80	-		
Tj = +7 °C	Pdh	11,3	kW	Tj = +7 °C			COPd	4,10	-		
Tj = +12 °C	Pdh	11,5	kW	Tj = +12 °C			COPd	4,40	-		
Tj = biv	Pdh	10,9	kW	Tj = biv			COPd	3,46	-		
Tj = TOL	Pdh	10,7	kW	Tj = TOL			COPd	3,12	-		
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)			COPd		-		
Bivalent temperature	Tbiv	-4,2	°C	Operation limit temperature			TOL	-10	°C		
Cycling interval capacity for heating	Pcych		kW	Cycling interval efficiency			COPcyc		-		
Degradation co-efficient	Cdh	0,99	-	temperature			WTOL	65	°C		
Power consumption in modes other than active mode						Supplementary heater					
Off mode	P _{OFF}	0,002	kW	Rated heat output			P _{sup}	3,3	kW		
Thermostat-off mode	P _{TO}	0,018	kW								
Standby mode	P _{SB}	0,007	kW	Type of energy input			Electric				
Crankcase heater mode	P _{CK}	0,03	kW								
Other items											
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				1,15	m³/h		
Annual energy consumption	Q _{HE}	7785	kWh	Rated brine or water flow rate, outdoor heat exchanger				2,18	m³/h		
For heat pump combination heater:											
Declared load profile			XXL			Water heating energy efficiency			η _{wh}	102	%
Daily electricity consumption	Q _{elec}	9,66	kWh	Daily fuel consumption			Q _{fuel}		kWh		
Annual electricity consumption	AEC	2121	kWh	Annual fuel consumption			AFC		GJ		
Approved by:											
Contact details			METRO THERM A/S Rundinsvej 55 DK-3200 Helsingør www.metrotherm.dk								