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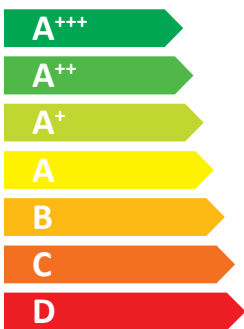


METROSAVER MB 8



55 °C

35 °C



A++

A+++



45 dB



dB

■ 8
■ **8**
■ 8
kW

■ 9
■ **9**
■ 9
kW



2019

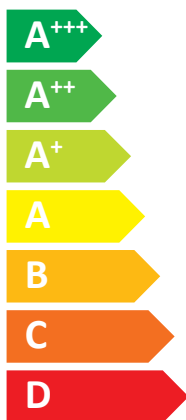
811/2013



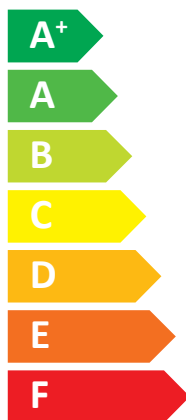
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METROSAVER MB 8



A⁺⁺



A



45 dB



dB



8 kW
8 kW
8 kW

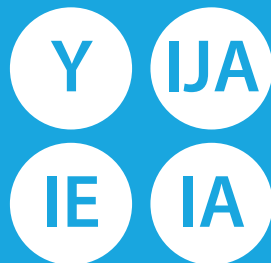
2019

811/2013



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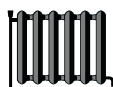
METROSAVER MB 8



A⁺⁺



A



A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

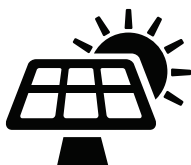
E

F

G

A⁺⁺

+



+



+



+



A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

E

F

G

A

Supplier's name:	METRO THERM A/S		
Model:	Metrosaver MB 8		
Temperature application	35	55	°C
Declared load profile for water heating	XL		
Seasonal space heating energy efficiency class, average climate:	A+++	A++	
Water heating energy efficiency class, average climate:	A		
Rated heat output, average climate:	9	8	kW
Annual energy consumption for space heating, average climate	3797	4433	kWh
Annual electricity consumption for water heating, average climate	1668		kWh
Seasonal space heating energy efficiency, average climate:	188	141	%
Water heating energy efficiency, average climate:	100		%
Sound power level LWA indoors	45		dB
Rated heat output, cold climate:	9	8	kW
Rated heat output, warm climate:	9	8	kW
Annual energy consumption for space heating, cold climate	4393	5142	kWh
Annual electricity consumption for water heating, cold climate	1668		kWh
Annual energy consumption for space heating, warm climate	2461	2860	kWh
Annual electricity consumption for water heating, warm climate	1668		kWh
Seasonal space heating energy efficiency, cold climate:	194	145	%
Water heating energy efficiency, cold climate:	100		%
Seasonal space heating energy efficiency, warm climate:	187	141	%
Water heating energy efficiency, warm climate:	100		%
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:	191	145	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A++	%
Seasonal space heating energy efficiency of package, cold climate:	198	149	%
Seasonal space heating energy efficiency of package, warm climate:	191	145	%

Model(s):				Metrosaver MB 8							
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	8,0	kW	Seasonal space heating energy efficiency			η_s	141	%
<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	6,2	kW				Tj = -7 °C	COPd	3,28	-	
Tj = +2 °C	Pdh	6,9	kW				Tj = +2 °C	COPd	3,81	-	
Tj = +7 °C	Pdh	7,2	kW				Tj = +7 °C	COPd	4,13	-	
Tj = +12 °C	Pdh	7,6	kW				Tj = +12 °C	COPd	4,41	-	
Tj = biv	Pdh	6,4	kW				Tj = biv	COPd	3,44	-	
Tj = TOL	Pdh	5,9	kW				Tj = TOL	COPd	3,07	-	
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW				Tj = -15 °C (if TOL < -20 °C)	COPd		-	
Bivalent temperature	Tbiv	-4,9	°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
<i>Power consumption in modes other than active mode</i>						<i>Supplementary heater</i>					
Off mode	P _{OFF}	0,002	kW				Rated heat output		Psup	2,1	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			0,64	m³/h
Annual energy consumption		Q _{HE}	4433	kWh			Rated brine or water flow rate, outdoor heat exchanger			1,20	m³/h
<i>For heat pump combination heater:</i>											
Declared load profile			XL			Water heating energy efficiency			η_{wh}	100	%
Daily electricity consumption	Q _{elec}	7,60	kWh				Daily fuel consumption		Q _{fuel}		kWh
Annual electricity consumption	AEC	1668	kWh				Annual fuel consumption		AFC		GJ
Approved by:											
Contact details		METRO THERM A/S Rundinsvej 55 DK-3200 Helsingør www.metrotherm.dk									