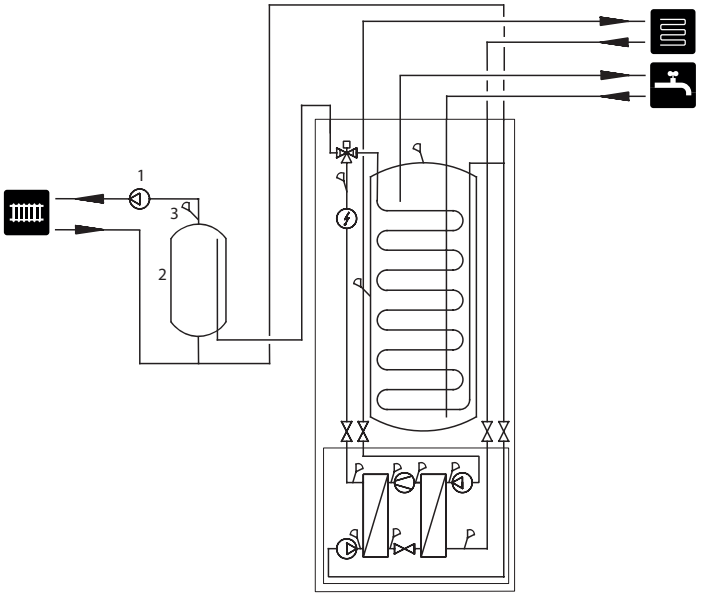
METROSAVER MB

Datablad

1 Cirkulationspumpe
2 Bufferbeholder
3 Temperaturføler



Jordslange med gyldigt sikkerhedsudstyr

Supplier's name:	**METRO THERM A/S**		
Model:	**Metrosaver MB 6**		
Temperature application	35	55	℃
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:	7	6	kW
Annual energy consumption for space heating, average climate	3010	3425	kWh
Annual electricity consumption for water heating, average climate	1709		kWh
Seasonal space heating energy efficiency, average climate:	184	137	%
Water heating energy efficiency, average climate:	98		%
Sound power level LWA indoors	43		dB
Rated heat output, cold climate:	7	6	kW
Rated heat output, warm climate:	7	6	kW
Annual energy consumption for space heating, cold climate	3487	3969	kWh
Annual electricity consumption for water heating, cold climate	1709		kWh
Annual energy consumption for space heating, warm climate	1964	2233	kWh
Annual electricity consumption for water heating, warm climate	1709		kWh
Seasonal space heating energy efficiency, cold climate:	190	141	%
Water heating energy efficiency, cold climate:	98		%
Seasonal space heating energy efficiency, warm climate:	182	136	%
Water heating energy efficiency, warm climate:	98		%
Sound power level LWA outdoors	-		dB

Data for package fiche

Controller class	VII		
Controler contribution to efficiency	3,5		%
Seasonal space heating energy efficiency of package, average climate:	188	140	%
Seasonal space heating energy efficiency class for package, average climate:	**A+++**	**A++**	%
Seasonal space heating energy efficiency of package, cold climate:	193	145	%
Seasonal space heating energy efficiency of package, warm climate:	186	139	%

Model(s):		**Metrosaver MB 6**						
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	6,0	kW		**Seasonal space heating energy efficiency**	η_s	137	%
Declared capacity for part load at outdoor temperature Tj					*Declared coefficient of performance for part load at outdoor temperature Tj*			
Tj = -7 °C	Pdh	4,8	kW		Tj = -7 °C	COPd	3,18	-
Tj = +2 °C	Pdh	5,3	kW		Tj = +2 °C	COPd	3,69	-
Tj = +7 °C	Pdh	5,6	kW		Tj = +7 °C	COPd	4,02	-
Tj = +12 °C	Pdh	6,0	kW		Tj = +12 °C	COPd	4,29	-
Tj = biv	Pdh	4,9	kW		Tj = biv	COPd	3,30	-
Tj = TOL	Pdh	4,5	kW		Tj = TOL	COPd	2,96	-
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW		Tj = -15 °C (if TOL < -20 °C)	COPd		-
Bivalent temperature	T_{biv}	-5,3	°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	Psup	1,5	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					
Other items								
Capacity control	fixed				Rated air flow rate, outdoors			m^3/h
Sound power level, indoors/outdoors	L_{WA}	43/-	dB		Rated water flow rate, indoor heat exchanger		0,90	m^3/h
Annual energy consumption	Q_{HE}	3425	kWh		Rated brine or water flow rate, outdoor heat exchanger		0,90	m^3/h
For heat pump combination heater:								
Declared load profile	**XL**				**Water heating energy efficiency**	η_{wh}	98	%
Daily electricity consumption	Q_{elec}	7,78	kWh		Daily fuel consumption	Q_{fuel}		kWh
Annual electricity consumption	AEC	1709	kWh		Annual fuel consumption	AFC		GJ
Approved by:								
Contact details	**METRO THERM A/S Rundinsvej 55 DK-3200 Helsinge www.metrotherm.dk**							

Supplier's name:	**METRO THERM A/S**		
Model:	**Metrosaver MB 8**		
Temperature application	35	55	℃
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		
Controler 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	%
Declared capacity for part load at outdoor temperature Tj					*Declared coefficient of performance for part load at outdoor temperature Tj*			
Tj = -7 ℃	Pdh	6,2	kW		Tj = -7 ℃	COPd	3,28	-
Tj = +2 ℃	Pdh	6,9	kW		Tj = +2 ℃	COPd	3,81	-
Tj = +7 ℃	Pdh	7,2	kW		Tj = +7 ℃	COPd	4,13	-
Tj = +12 ℃	Pdh	7,6	kW		Tj = +12 ℃	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 ℃ (if TOL < -20 °C)	Pdh		kW		Tj = -15 ℃ (if TOL < -20 °C)	COPd		-
Bivalent temperature	T_{biv}	-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
Power consumption in modes other than active mode					*Supplementary heater*			
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					
Other items								
Capacity control	fixed				Rated air flow rate, outdoors			m^3/h
Sound power level, indoors/outdoors	L_{WA}	45/-	dB		Rated water flow rate, indoor heat exchanger		0,64	m^3/h
Annual energy consumption	Q_{HE}	4433	kWh		Rated brine or water flow rate, outdoor heat exchanger		1,20	m^3/h
For heat pump combination heater:								
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:								
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Supplier's name:	**METRO THERM A/S**		
Model:	**Metrosaver MB 10**		
Temperature application	35	55	℃
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:	12	10	kW
Annual energy consumption for space heating, average climate	4906	5345	kWh
Annual electricity consumption for water heating, average climate	1745		kWh
Seasonal space heating energy efficiency, average climate:	194	147	%
Water heating energy efficiency, average climate:	96		%
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	1745		kWh
Annual energy consumption for space heating, warm climate	3169	3456	kWh
Annual electricity consumption for water heating, warm climate	1745		kWh
Seasonal space heating energy efficiency, cold climate:	200	151	%
Water heating energy efficiency, cold climate:	96		%
Seasonal space heating energy efficiency, warm climate:	194	147	%
Water heating energy efficiency, warm climate:	96		%
Sound power level LWA outdoors	-		dB

Data for package fiche

Controller class	VII		
Controler 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 MB 10
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	

METRO THERM

Rated heat output	Prated	10,0	kW		**Seasonal space heating energy efficiency**	η_s	147	%
Declared capacity for part load at outdoor temperature Tj					*Declared coefficient of performance for part load at outdoor temperature Tj*			
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	T_{biv}	-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
Power consumption in modes other than active mode					*Supplementary heater*			
Off mode	P_{OFF}	0,002	kW		Rated heat output	Psup	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					
Other items								
Capacity control	fixed				Rated air flow rate, outdoors			m^3/h
Sound power level, indoors/outdoors	L_{WA}	45/-	dB		Rated water flow rate, indoor heat exchanger		0,82	m^3/h
Annual energy consumption	Q_{HE}	5345	kWh		Rated brine or water flow rate, outdoor heat exchanger		1,56	m^3/h
For heat pump combination heater:								
Declared load profile	**XL**				**Water heating energy efficiency**	η_{wh}	96	%
Daily electricity consumption	Q_{elec}	7,95	kWh		Daily fuel consumption	Q_{fuel}		kWh
Annual electricity consumption	AEC	1745	kWh		Annual fuel consumption	AFC		GJ

Approved by:

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