



ENERG
енергия · ενέργεια



METRO THERM

METROAIR L8 + SHK200S



A++



A



35 dB



55 dB



- 10 kW
- 7 kW
- 8 kW



ENERG

енергия · ενεργεια

Y

IJA

IE

IA

METRO THERM

METROAIR L8 + SHK200S



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		
Model:	METROAIR L8 + SHK200S		
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:	8,2	7,0	kW
Annual energy consumption for space heating, average climate	3882	4447	kWh
Annual electricity consumption for water heating, average climate	1689		kWh
Seasonal space heating energy efficiency, average climate:	172	127	%
Water heating energy efficiency, average climate:	99		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	9,0	10,0	kW
Rated heat output, warm climate:	8,0	8,0	kW
Annual energy consumption for space heating, cold climate	6264	8844	kWh
Annual electricity consumption for water heating, cold climate	1886		kWh
Annual energy consumption for space heating, warm climate	1879	2333	kWh
Annual electricity consumption for water heating, warm climate	1540		kWh
Seasonal space heating energy efficiency, cold climate:	139	108	%
Water heating energy efficiency, cold climate:	89		%
Seasonal space heating energy efficiency, warm climate:	225	180	%
Water heating energy efficiency, warm climate:	109		%
Sound power level LWA outdoors	55		dB

Data for package fiche

Controller class	VI		
Controller contribution to efficiency	4,0		%
Seasonal space heating energy efficiency of package, average climate:	176	131	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A++	%
Seasonal space heating energy efficiency of package, cold climate:	143	112	%
Seasonal space heating energy efficiency of package, warm climate:	229	184	%

Model(s):		METROAIR L8 + SHK200S							
Type of heat source/sink:		Air-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, EN16147									
Rated heat output		Prated	7,0	kW	Seasonal space heating energy efficiency		η _s	127	%
<i>Declared capacity for part load at outdoor temperature T_j</i>					<i>Declared coefficient of performance for part load at outdoor temperature T_j</i>				
T _j = -7 °C	P _{dh}	6,3	kW	T _j = -7 °C	COP _d	1,94	-		
T _j = +2 °C	P _{dh}	3,9	kW	T _j = +2 °C	COP _d	3,11	-		
T _j = +7 °C	P _{dh}	2,6	kW	T _j = +7 °C	COP _d	4,42	-		
T _j = +12 °C	P _{dh}	3,7	kW	T _j = +12 °C	COP _d	5,93	-		
T _j = biv	P _{dh}	6,6	kW	T _j = biv	COP _d	1,83	-		
T _j = TOL	P _{dh}	5,9	kW	T _j = TOL	COP _d	1,86	-		
T _j = -15 °C (if TOL < -20 °C)	P _{dh}		kW	T _j = -15 °C (if TOL < -20 °C)	COP _d		-		
Bivalent temperature	T _{biv}	-8,6	°C	Operation limit temperature		TOL	-10	°C	
Cycling interval capacity for heating	P _{cyh}		kW	Cycling interval efficiency		COP _{cyh}		-	
Degradation co-efficient	C _{dh}	0,97	-	Heating water operating limit		WTOL	58	°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}	1,1	kW	
Thermostat-off mode	P _{TO}	0,01	kW						
Standby mode	P _{SB}	0,015	kW	Type of energy input		Electric			
Crankcase heater mode	P _{CK}	0,03	kW						
<i>Other items</i>									
Capacity control	variable			Rated air flow rate, outdoors			3000	m³/h	
Sound power level, indoors/outdoors	L _{WA}	35/55	dB	Rated water flow rate, indoor heat exchanger			0,60	m³/h	
Annual energy consumption	Q _{HE}	4447	kWh	Rated brine or water flow rate, outdoor heat exchanger				m³/h	
<i>For heat pump combination heater:</i>									
Declared load profile		XL		Water heating energy efficiency		η _{wh}	99	%	
Daily electricity consumption	Q _{elec}	7,69	kWh	Daily fuel consumption		Q _{fuel}		kWh	
Annual electricity consumption	AEC	1689	kWh	Annual fuel consumption		AFC		GJ	
Approved by:									
Contact details		METRO THERM A/S Rundinsvej 55, 3200 Helsingør, Denmark							