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METRO THERM

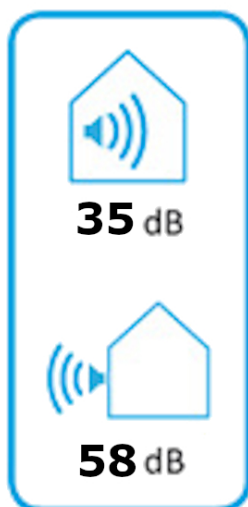
METROAIR L12 + SHK200S



A⁺⁺



A



- 13 kW
- 10 kW
- 12 kW



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Y

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METRO THERM

METROAIR L12 + 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 L12 + SHK 200S		
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:	11.5	10,0	kW
Annual energy consumption for space heating, average climate	5382	6136	kWh
Annual electricity consumption for water heating, average climate	1702		kWh
Seasonal space heating energy efficiency, average climate:	174	132	%
Water heating energy efficiency, average climate:	98		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	11,5	13,0	kW
Rated heat output, warm climate:	12,0	12,0	kW
Annual energy consumption for space heating, cold climate	7798	11197	kWh
Annual electricity consumption for water heating, cold climate	1904		kWh
Annual energy consumption for space heating, warm climate	2759	3419	kWh
Annual electricity consumption for water heating, warm climate	1551		kWh
Seasonal space heating energy efficiency, cold climate:	142	111	%
Water heating energy efficiency, cold climate:	88		%
Seasonal space heating energy efficiency, warm climate:	229	185	%
Water heating energy efficiency, warm climate:	108		%
Sound power level LWA outdoors	58		dB

Data for package fiche

Controller class	VI		
Controller contribution to efficiency	4,0		%
Seasonal space heating energy efficiency of package, average climate:	178	136	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A++	%
Seasonal space heating energy efficiency of package, cold climate:	146	115	%
Seasonal space heating energy efficiency of package, warm climate:	233	189	%

Model(s):		METROAIR L12 + SHK2005								
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	10,0	kW		Seasonal space heating energy efficiency		η _s	132	%
Declared capacity for part load at outdoor temperature T _j						Declared coefficient of performance for part load at outdoor temperature T _j				
T _j = -7 °C	P _{dH}	8,9	kW		T _j = -7 °C	COP _d	1,99	kW		
T _j = +2 °C	P _{dH}	5,5	kW		T _j = +2 °C	COP _d	3,22	kW		
T _j = +7 °C	P _{dH}	3,5	kW		T _j = +7 °C	COP _d	4,61	kW		
T _j = +12 °C	P _{dH}	5,0	kW		T _j = +12 °C	COP _d	6,25	kW		
T _j = biv	P _{dH}	9,2	kW		T _j = biv	COP _d	1,90	kW		
T _j = TOL	P _{dH}	8,1	kW		T _j = TOL	COP _d	1,92	kW		
T _j = -15 °C (if TOL < -20 °C)	P _{dH}		kW		T _j = -15 °C (if TOL < -20 °C)	COP _d		kW		
Bivalent temperature		T _{biv}	-7,9	°C	Operation limit temperature		TOL	-10	°C	
Cycling interval capacity for heating		P _{cycH}		kW	Cycling interval efficiency		COP _{cyc}		-	
Degradation co-efficient		C _{dH}	0,98	-	Heating water operating limit		WTOL	58	°C	
Power consumption in modes other than active mode					Supplementary heater					
Off mode		P _{OFF}	0,002	kW	Rated heat output		P _{sup}	1,9	kW	
Thermostat-off mode		P _{TO}	0,014	kW						
Standby mode		P _{SB}	0,015	kW	Type of energy input		Electric			
Crankcase heater mode		P _{CK}	0,035	kW						
Other items										
Capacity control		variable			Rated air flow rate, outdoors			4380	m ³ /h	
Sound power level, indoors/outdoors		L _{WA}	35/58	dB	Rated water flow rate, indoor heat exchanger			0,86	m ³ /h	
Annual energy consumption		Q _{HE}	6136	kWh	Rated brine or water flow rate, outdoor heat exchanger				m ³ /h	
For heat pump combination heater:										
Declared load profile					Water heating energy efficiency		η _{wh}	98	%	
Daily electricity consumption		Q _{elec}	7,75	kWh	Daily fuel consumption		Q _{fuel}		kWh	
Annual electricity consumption		AEC	1702	kWh	Annual fuel consumption		AFC		GJ	
Approved by:										
Contact details		METRO THERM A/S Rundinsvej 55, 3200 Helsingør, Denmark								