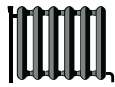




**ENERG** Y IJA  
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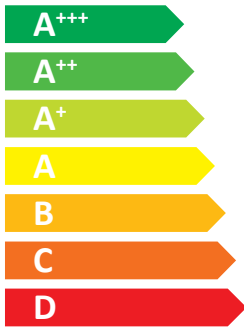


METROAIR S12



55 °C

35 °C



**A+++**

**A+++**



dB



**49** dB

■ 8  
 ■ 8  
 ■ 8  
 kW

■ 8  
 ■ 7  
 ■ 7  
 kW



2019

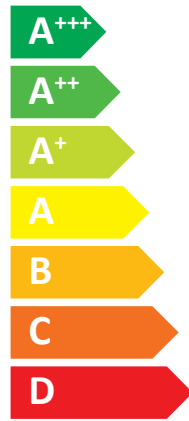
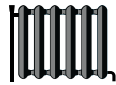
811/2013



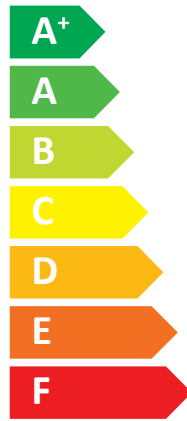
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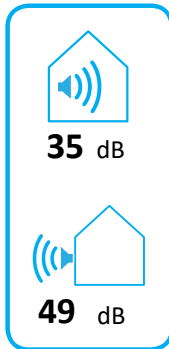
METROAIR S12



**A+++**



**A**



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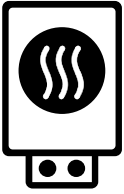




IJA

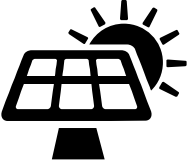
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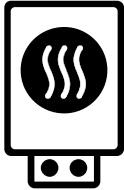
## METROAIR S12













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Supplier's name:	METRO THERM A/S		
Model:	METROAIR S12		
Temperature application	35	55	°C
Declared load profile for water heating	XL		
Seasonal space heating energy efficiency class, average climate:	<b>A+++</b>	<b>A+++</b>	
Water heating energy efficiency class, average climate:	<b>A</b>		
Rated heat output, average climate:	6,8	7,6	kW
Annual energy consumption for space heating, average climate	2835	4102	kWh
Annual electricity consumption for water heating, average climate	1600		kWh
Seasonal space heating energy efficiency, average climate:	195	150	%
Water heating energy efficiency, average climate:	105		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	8,4	8,4	kW
Rated heat output, warm climate:	7,0	7,5	kW
Annual energy consumption for space heating, cold climate	4990	6189	kWh
Annual electricity consumption for water heating, cold climate	2067		kWh
Annual energy consumption for space heating, warm climate	1494	2194	kWh
Annual electricity consumption for water heating, warm climate	1346		kWh
Seasonal space heating energy efficiency, cold climate:	163	131	%
Water heating energy efficiency, cold climate:	81		%
Seasonal space heating energy efficiency, warm climate:	247	180	%
Water heating energy efficiency, warm climate:	124		%
Sound power level LWA outdoors	49		dB

#### Data for package fiche

Controller class	VI		
Controller contribution to efficiency	4		%
Seasonal space heating energy efficiency of package, average climate:	199	154	%
Seasonal space heating energy efficiency class for package, average climate:	<b>A+++</b>	<b>A+++</b>	%
Seasonal space heating energy efficiency of package, cold climate:	167	135	%
Seasonal space heating energy efficiency of package, warm climate:	251	184	%

<b>Model(s):</b>		<b>METROAIR S12</b>		 <b>METRO THERM</b>						
Type of heat source/sink:		Air/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 - EN12102-1										
<b>Rated heat output</b>		Prated	7,6	kW	<b>Seasonal space heating energy efficiency</b>		$\eta_s$	150	%	
<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	6,7	kW	Tj = -7 °C	COPd	2,17				
Tj = +2 °C	Pdh	4,2	kW	Tj = +2 °C	COPd	3,83				
Tj = +7 °C	Pdh	2,7	kW	Tj = +7 °C	COPd	5,12				
Tj = +12 °C	Pdh	2,4	kW	Tj = +12 °C	COPd	5,87				
Tj = biv	Pdh	7,6	kW	Tj = biv	COPd	2,11				
Tj = TOL	Pdh	7,6	kW	Tj = TOL	COPd	2,11				
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd					
Bivalent temperature				T <sub>biv</sub>	-10	°C	Operation limit temperature			
Cycling interval capacity for heating				P <sub>cyc</sub>		kW	Cycling interval efficiency		COP <sub>cyc</sub>	-
Degradation co-efficient				C <sub>dh</sub>	0,97	-	Heating water operating limit		WTOL	65
<i>Power consumption in modes other than active mode</i>				<i>Supplementary heater</i>						
Off mode		P <sub>OFF</sub>	0,008	kW	Rated heat output		P <sub>sup</sub>	0,0	kW	
Thermostat-off mode		P <sub>TO</sub>	0,013	kW						
Standby mode		P <sub>SB</sub>	0,011	kW	Type of energy input		Electric			
Crankcase heater mode		P <sub>CK</sub>	0,0045	kW						
<i>Other items</i>										
Capacity control		Variable		Rated air flow rate, outdoors					m <sup>3</sup> /h	
Sound power level, indoors/outdoors		L <sub>WA</sub>	35/49	dB	Rated water flow rate, indoor heat exchanger				m <sup>3</sup> /h	
Annual energy consumption		Q <sub>HE</sub>	4102	kWh	Rated brine or water flow rate, outdoor heat exchanger			2900,00	m <sup>3</sup> /h	
<i>For heat pump combination heater:</i>										
<b>Declared load profile</b>		<b>XL</b>		<b>Water heating energy efficiency</b>		$\eta_{wh}$	105	%		
Daily electricity consumption		Q <sub>elec</sub>	7,64	kWh	Daily fuel consumption		Q <sub>fuel</sub>		kWh	
Annual electricity consumption		AEC	1600	kWh	Annual fuel consumption		AFC		GJ	
<b>Approved by:</b>										
<b>Contact details</b>		© NIBE Energy Systems - Box 14 - Hannabadsvägen 5 - 28521 Markaryd - Sweden								