



ENERG
енергия · ενέργεια



METROAIR I 16



55 °C

35 °C



A⁺⁺

A⁺⁺



dB



53 dB

■ 14
■ 12
■ 13
kW

■ 13
■ 11
■ 13
kW



2015

811/2013



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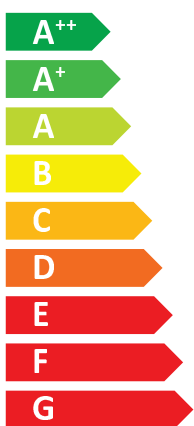
METROAIR I 16 + METROAIR 330



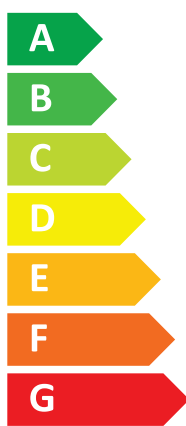
55 °C



XL



A++



A



35 dB



53 dB



- 14 kW
- 12 kW
- 13 kW

2015

811/2013



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Y

IJA

IE

IA



METROAIR I 16 + METROAIR 330



35 °C



A⁺⁺

A⁺⁺⁺

A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

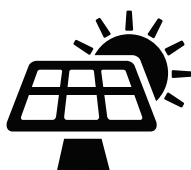
D

E

F

G

+



+



+



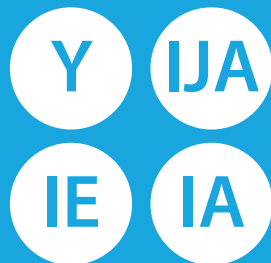
+





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METROAIR I 16 + METROAIR 330



A⁺⁺



A



55 °C

A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

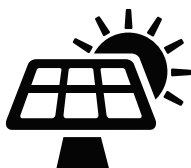
E

F

G

A⁺⁺⁺

+



+



+



+



XL

A⁺⁺⁺

A⁺⁺

A⁺

A

B

C

D

E

F


G

A

Supplier's name:	METRO THERM A/S		
Model:	Metroair I 16 + Metroair 330		
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	12,3	kW
Annual energy consumption for space heating, average climate	4502	6524	kWh
Annual electricity consumption for water heating, average climate	1616		kWh
Seasonal space heating energy efficiency, average climate:	199	153	%
Water heating energy efficiency, average climate:	104		%
Sound power level LWA indoors	35		dB
Rated heat output, cold climate:	13,0	14,0	kW
Rated heat output, warm climate:	13,0	13,0	kW
Annual energy consumption for space heating, cold climate	7543	9765	kWh
Annual electricity consumption for water heating, cold climate	1758		kWh
Annual energy consumption for space heating, warm climate	3153	3867	kWh
Annual electricity consumption for water heating, warm climate	1448		kWh
Seasonal space heating energy efficiency, cold climate:	167	138	%
Water heating energy efficiency, cold climate:	95		%
Seasonal space heating energy efficiency, warm climate:	217	177	%
Water heating energy efficiency, warm climate:	116		%
Sound power level LWA outdoors	53		dB

Data for package fiche

Controller class	VI		
Controller contribution to efficiency	4,0		%
Seasonal space heating energy efficiency of package, average climate:	203	157	%
Seasonal space heating energy efficiency class for package, average climate:	A+++	A+++	%
Seasonal space heating energy efficiency of package, cold climate:	171	142	%
Seasonal space heating energy efficiency of package, warm climate:	221	181	%

Model(s):		Metroair I 16 + Metroair 330				<div></div>			
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 and EN16147									
Rated heat output		Prated	12,3	kW	Seasonal space heating energy efficiency		ηs	153	%
Declared capacity for part load at outdoor temperature Tj				Declared coefficient of performance for part load at outdoor temperature Tj					
Tj = -7 °C	Pdh	10,9	kW	Tj = -7 °C	COPd	2,48	-		
Tj = +2 °C	Pdh	6,7	kW	Tj = +2 °C	COPd	3,96	-		
Tj = +7 °C	Pdh	5,9	kW	Tj = +7 °C	COPd	4,67	-		
Tj = +12 °C	Pdh	6,5	kW	Tj = +12 °C	COPd	5,67	-		
Tj = biv	Pdh	10,9	kW	Tj = biv	COPd	2,48	-		
Tj = TOL	Pdh	11,6	kW	Tj = TOL	COPd	2,40	-		
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW	Tj = -15 °C (if TOL < -20 °C)	COPd		-		
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature		TOL	-10	°C	
Cycling interval capacity for heating	Pcych		kW	Cycling interval efficiency		COPcyc		-	
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit		WTOL	65	°C	
Power consumption in modes other than active mode				Supplementary heater					
Off mode	P _{OFF}	0,025	kW	Rated heat output		Psup	0,7	kW	
Thermostat-off mode	P _{TO}	0,007	kW						
Standby mode	P _{SB}	0,025	kW	Type of energy input		Electric			
Crankcase heater mode	P _{CK}	0,037	kW						
Other items									
Capacity control	variable			Rated air flow rate, outdoors			4510	m³/h	
Sound power level, indoors/outdoors	L _{WA}	35/53	dB	Rated water flow rate, indoor heat exchanger			variable	m³/h	
Annual energy consumption	Q _{HE}	6524	kWh	Rated brine or water flow rate, outdoor heat exchanger				m³/h	
For heat pump combination heater:									
Declared load profile		XL		Water heating energy efficiency		η _{wh}	104	%	
Daily electricity consumption	Q _{elec}	7,36	kWh	Daily fuel consumption		Q _{fuel}		kWh	
Annual electricity consumption	AEC	1616	kWh	Annual fuel consumption		AFC		GJ	
Approved by:									
Contact details		METRO THERM A/S Rundinsvej 55 DK-3200 Helsingør www.metrotherm.dk							