



ENERG
енергия · ενέργεια



METROAIR I 20



55 °C

35 °C



A⁺⁺

A⁺⁺



dB



53 dB

■ 14
■ 12
■ 13
kW

■ 13
■ 11
■ 13
kW



2015

811/2013



ENERG
енергия · ενέργεια



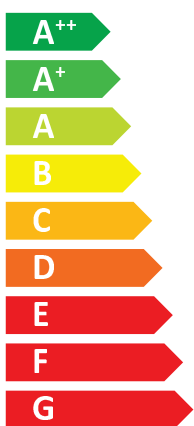
METROAIR I 20 + METROAIR 330



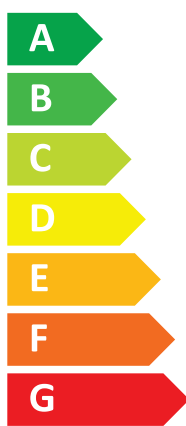
55 °C



XL



A++



A



35 dB



53 dB



- 14 kW
- 12 kW**
- 13 kW

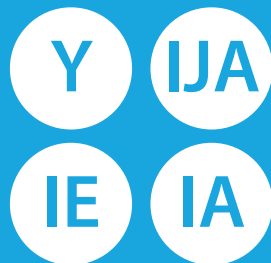
2015

811/2013



ENERG

енергия · ενεργεια



METROAIR I 20 + METROAIR 330



A⁺⁺

A⁺⁺⁺

A⁺⁺⁺

A⁺⁺

A⁺

A

B

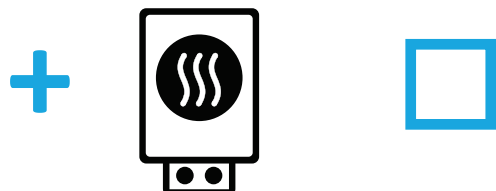
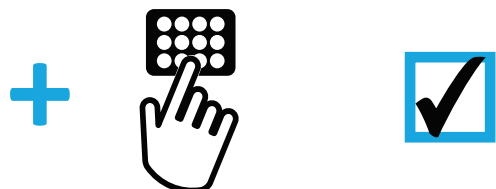
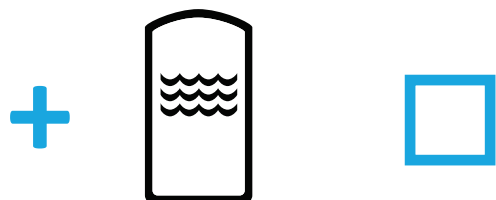
C

D

E

F

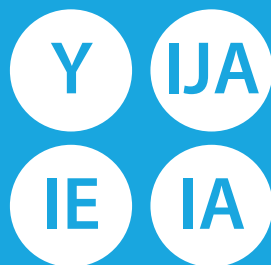
G





ENERG

енергия · ενεργεια



METROAIR I 20 + METROAIR 330



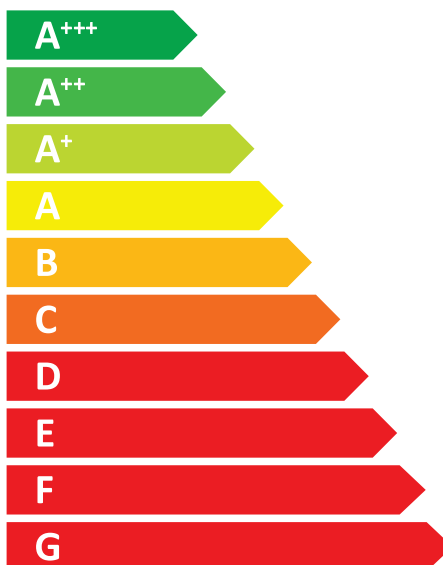
A⁺⁺



A

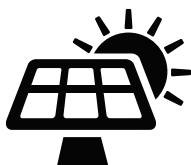


55 °C



A⁺⁺⁺

+



+



+



+




A

Supplier's name:	METRO THERM A/S		
Model:	Metroair I 20 + 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 20 + Metroair 330				<div></div>			
Type of heat source/sink:											
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								