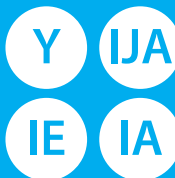


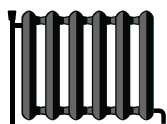


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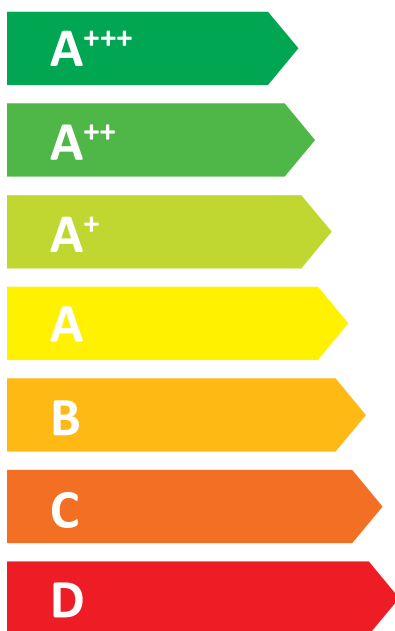
METRO THERM A/S

METRO Delta PA-P-PVT  
156622001



55 °C

35 °C



**A+++**

**A+++**



**43** dB



dB

■ 4  
■ 4  
■ 4  
kW

■ 4  
■ 4  
■ 4  
kW



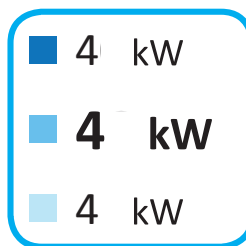
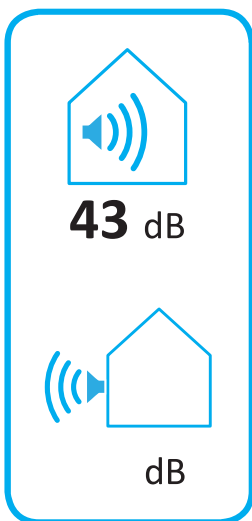
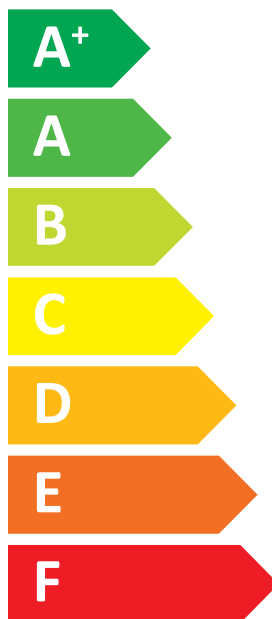
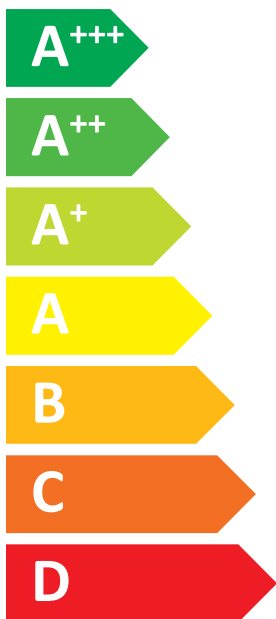
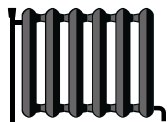


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METRO THERM A/S

METRO Delta PA-P-PVT  
156622001



Supplier's name:	METRO THERM A/S		
Model:	METRO Delta PA-P-PVT		
Temperature application	35	55	°C
Declared load profile for water heating	L		
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:	4	4	kW
Annual energy consumption for space heating, average climate	1476	1691	kWh
Annual electricity consumption for water heating, average climate	732		kWh
Seasonal space heating energy efficiency, average climate:	238	180	%
Water heating energy efficiency, average climate:	140		%
Sound power level LWA indoors	43		dB
Rated heat output, cold climate:	4	4	kW
Rated heat output, warm climate:	4	4	kW
Annual energy consumption for space heating, cold climate	1725	1968	kWh
Annual electricity consumption for water heating, cold climate	732		kWh
Annual energy consumption for space heating, warm climate	955	1082	kWh
Annual electricity consumption for water heating, warm climate	732		kWh
Seasonal space heating energy efficiency, cold climate:	244	185	%
Water heating energy efficiency, cold climate:	140		%
Seasonal space heating energy efficiency, warm climate:	238	182	%
Water heating energy efficiency, warm climate:	140		%
Sound power level LWA outdoors	---		dB

Model(s):				METRO Delta PA-P-PVT				<div></div>			
Type of heat source/sink:				Water / 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											
Rated heat output		Prated	3,9	kW			Seasonal space heating energy efficiency		$\eta_s$	180	%
Declared capacity for part load at outdoor temperature Tj					Declared coefficient of performance for part load at outdoor temperature Tj						
Tj = -7 °C		Pdh	3,6	kW			Tj = -7 °C		COPd	3,93	
Tj = +2 °C		Pdh	3,9	kW			Tj = +2 °C		COPd	4,63	
Tj = +7 °C		Pdh	4,0	kW			Tj = +7 °C		COPd	5,14	
Tj = +12 °C		Pdh	4,1	kW			Tj = +12 °C		COPd	5,71	
Tj = biv		Pdh	3,5	kW			Tj = biv		COPd	3,66	
Tj = TOL		Pdh	3,5	kW			Tj = TOL		COPd	3,66	
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		TOL	-10	°C
Cycling interval capacity for heating		Pcych		kW			Cycling interval efficiency		COPcyc		-
Degradation co-efficient		Cdh	1,00	-			Heating water operating limit		WTOL	70	°C
Power consumption in modes other than active mode					Supplementary heater						
Off mode		P <sub>OFF</sub>	0,003	kW			Rated heat output		Psup	0,0	kW
Thermostat-off mode		P <sub>TO</sub>	0,003	kW							
Standby mode		P <sub>SB</sub>	0,003	kW			Type of energy input		Electric		
Crankcase heater mode		P <sub>CK</sub>	0,000	kW							
Other items											
Capacity control		Fixed					Rated air flow rate, outdoors				m³/h
Sound power level, indoors/outdoors		L <sub>WA</sub>	43/-	dB			Rated water flow rate, indoor heat exchanger				m³/h
Annual energy consumption		Q <sub>HE</sub>	1691	kWh			Rated brine or water flow rate, outdoor heat exchanger				m³/h
For heat pump combination heater:											
Declared load profile		L					Water heating energy efficiency		$\eta_{wh}$	140	%
Daily electricity consumption		Q <sub>elec</sub>	3,500	kWh			Daily fuel consumption		Q <sub>fuel</sub>		kWh
Annual electricity consumption		AEC	732	kWh			Annual fuel consumption		AFC		GJ
Approved by:											
Contact details		METRO THERM A/S - Rundinsvej 55 - 3200 Helsingør - Denmark									

<b>Model(s):</b>				<b>METRO Delta PA-P-PVT</b>				<div></div>			
Type of heat source/sink:				Water / Water							
Low-temperature heat pump:				No							
Equipped with supplementary heater:				Yes							
Heat pump combination heater:				Yes							
Climate condition:				Average							
Temperature application:				Low temperature (35 °C)							
Applied standards: EN14825 - EN16147 - EN12102-1											
<b>Rated heat output</b>		Prated	4,4	kW	<b>Seasonal space heating energy efficiency</b>			ηs	238	%	
<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	4,1	kW		Tj = -7 °C	COPd	5,77				
Tj = +2 °C	Pdh	4,2	kW		Tj = +2 °C	COPd	6,11				
Tj = +7 °C	Pdh	4,2	kW		Tj = +7 °C	COPd	6,37				
Tj = +12 °C	Pdh	4,3	kW		Tj = +12 °C	COPd	6,67				
Tj = biv	Pdh	4,1	kW		Tj = biv	COPd	5,72				
Tj = TOL	Pdh	4,1	kW		Tj = TOL	COPd	5,72				
Tj = -15 °C (if TOL < -20 °C)	Pdh		kW		Tj = -15 °C (if TOL < -20 °C)	COPd					
Bivalent temperature	Tbiv	-10	°C		Operation limit temperature	TOL	-10	°C			
Cycling interval capacity for heating	Pcych		kW		Cycling interval efficiency	COPcyc		-			
Degradation co-efficient	Cdh	1,00	-		Heating water operating limit	WTOL	70	°C			
<i>Power consumption in modes other than active mode</i>					<i>Supplementary heater</i>						
Off mode	P <sub>OFF</sub>	0,003	kW		Rated heat output	Psup	0,0	kW			
Thermostat-off mode	P <sub>TO</sub>	0,003	kW								
Standby mode	P <sub>SB</sub>	0,003	kW		Type of energy input	Electric					
Crankcase heater mode	P <sub>CK</sub>	0,000	kW								
<i>Other items</i>											
Capacity control	Fixed				Rated air flow rate, outdoors			m³/h			
Sound power level, indoors/outdoors	L <sub>WA</sub>	41/-	dB		Rated water flow rate, indoor heat exchanger			m³/h			
Annual energy consumption	Q <sub>HE</sub>	1476	kWh		Rated brine or water flow rate, outdoor heat exchanger			m³/h			
<i>For heat pump combination heater:</i>											
<b>Declared load profile</b>		L			<b>Water heating energy efficiency</b>	η <sub>wh</sub>	140	%			
Daily electricity consumption	Q <sub>elec</sub>	3,500	kWh		Daily fuel consumption	Q <sub>fuel</sub>		kWh			
Annual electricity consumption	AEC	732	kWh		Annual fuel consumption	AFC		GJ			
<b>Approved by:</b>											
<b>Contact details</b>		<b>METRO THERM A/S - Rundinsvej 55 - 3200 Helsingør - Denmark</b>									