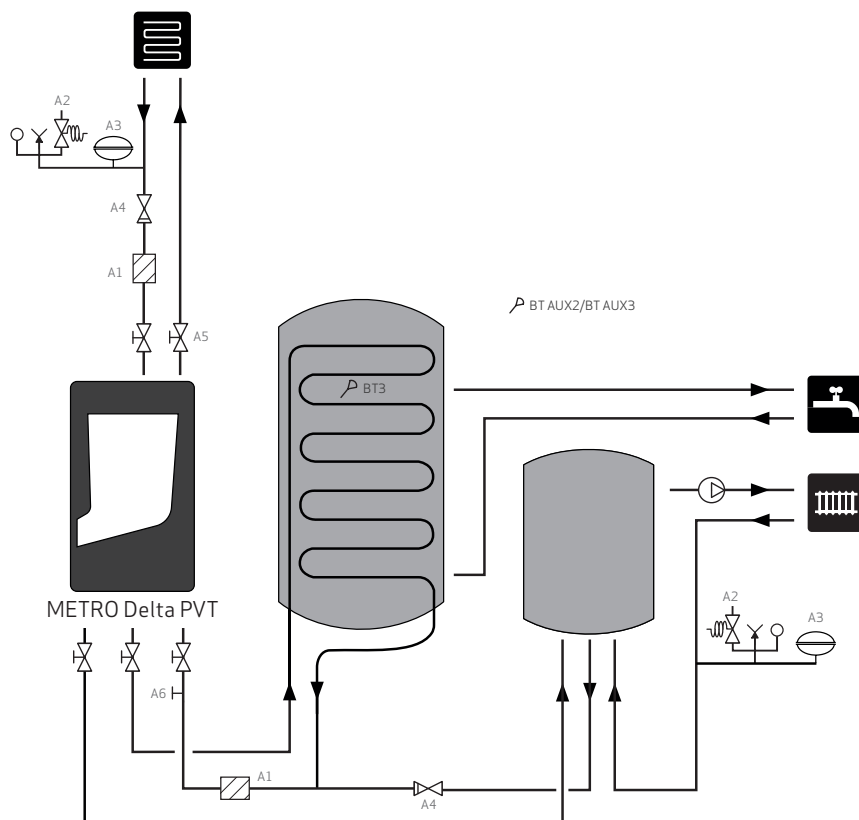


METRO Delta P

Datablad

- A1: Snavssamler
A2: Sikkerhedsventil
A3: Ekspansionsbeholder
A4: Kontraventil
A5: Afspærringsventil
A6: Påfyldningsventil



Supplier's name:	METRO THERM A/S		
Model:	METRO Delta P		
Temperature application	35	55	°C
Declared load profile for water heating	L		
Seasonal space heating energy efficiency class, average climate:	A+++	A+++	
Water heating energy efficiency class, average climate:	A+		
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 P							
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			ηs	180	%
<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	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			Tbiv	-10	°C	Operation limit temperature			TOL	-10	°C
Cycling interval capacity for heating			Pcyc		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			POFF	0,003	kW	Rated heat output			Psup	0,0	kW
Thermostat-off mode			PTO	0,003	kW						
Standby mode			PSB	0,003	kW	Type of energy input			Electric		
Crankcase heater mode			PCK	0,000	kW						
<i>Other items</i>											
Capacity control			Fixed			Rated air flow rate, outdoors					m³/h
Sound power level, indoors/outdoors			LWA	43/-	dB	Rated water flow rate, indoor heat exchanger					m³/h
Annual energy consumption			QHE	1691	kWh	Rated brine or water flow rate, outdoor heat exchanger					m³/h
<i>For heat pump combination heater:</i>											
Declared load profile			L			Water heating energy efficiency			ηwh	140	%
Daily electricity consumption			Qelec	3,500	kWh	Daily fuel consumption			Qfuel		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								

Model(s):				METRO Delta P							
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											
Rated heat output			Prated	4,4	kW	Seasonal space heating energy efficiency			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			POFF	0,003	kW	Rated heat output			Psup	0,0	kW
Thermostat-off mode			PTO	0,003	kW						
Standby mode			PSB	0,003	kW	Type of energy input			Electric		
Crankcase heater mode			PCK	0,000	kW						
<i>Other items</i>											
Capacity control			Fixed			Rated air flow rate, outdoors					m³/h
Sound power level, indoors/outdoors			LWA	41/-	dB	Rated water flow rate, indoor heat exchanger					m³/h
Annual energy consumption			QHE	1476	kWh	Rated brine or water flow rate, outdoor heat exchanger					m³/h
<i>For heat pump combination heater:</i>											
Declared load profile			L			Water heating energy efficiency			ηwh	140	%
Daily electricity consumption			Qelec	3,500	kWh	Daily fuel consumption			Qfuel		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								