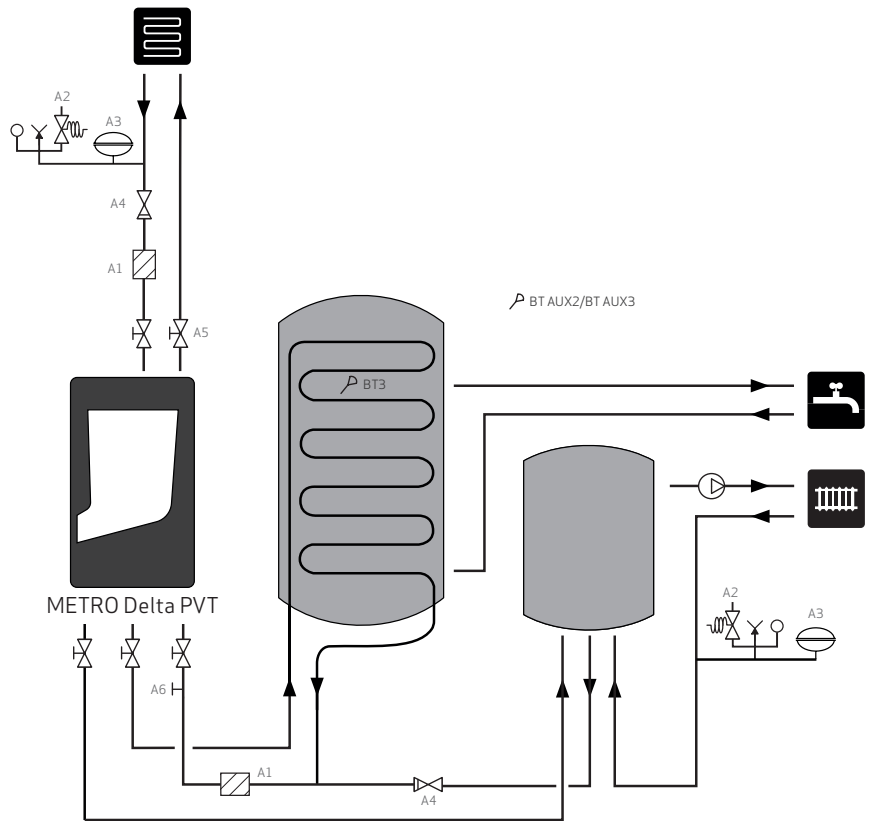



METRO Delta P


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			
								η_s	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				T _{biv}	-10		°C	Operation limit temperature			
Cycling interval capacity for heating				P _{cych}			kW	Cycling interval efficiency			
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 _{OFF}	0,003	kW	Rated heat output				P _{sup}	0,0		kW
Thermostat-off mode	P _{TO}	0,003	kW								
Standby mode	P _{SB}	0,003	kW	Type of energy input				Electric			
Crankcase heater mode	P _{CK}	0,000	kW								
<i>Other items</i>											
Capacity control	Fixed			Rated air flow rate, outdoors							m ³ /h
Sound power level, indoors/outdoors	L _{WA}	43/-	dB	Rated water flow rate, indoor heat exchanger							m ³ /h
Annual energy consumption	Q _{HE}	1691	kWh	Rated brine or water flow rate, outdoor heat exchanger							m ³ /h
<i>For heat pump combination heater:</i>											
Declared load profile				L				Water heating energy efficiency			
								η_{wh}	140		%
Daily electricity consumption	Q _{elec}	3,500	kWh	Daily fuel consumption				Q _{fuel}			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				
								η_s	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	T _{biv}	-10	°C					Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	P _{cyc}		kW					Cycling interval efficiency	COP _{cyc}		-	
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 _{OFF}	0,003	kW					Rated heat output	P _{sup}	0,0	kW	
Thermostat-off mode	P _{TO}	0,003	kW									
Standby mode	P _{SB}	0,003	kW					Type of energy input	Electric			
Crankcase heater mode	P _{CK}	0,000	kW									
<i>Other items</i>												
Capacity control	Fixed							Rated air flow rate, outdoors			m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41/-	dB					Rated water flow rate, indoor heat exchanger			m ³ /h	
Annual energy consumption	Q _{HE}	1476	kWh					Rated brine or water flow rate, outdoor heat exchanger			m ³ /h	
<i>For heat pump combination heater:</i>												
Declared load profile				L				Water heating energy efficiency				
Daily electricity consumption	Q _{elec}	3,500	kWh					Daily fuel consumption	Q _{fuel}		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								