

Table 7 SCOP 35°C Average Climate

Model(s):CA0100HANH							
Air-to-water heat pump:yes							
Water-to-water heat pump:no							
Brine-to-water heat pump:no							
Low-temperature heat pump:no							
Equipped with a supplementary heater:no							
Heat pump combination heater:no							
This table shows the low temperature water output parameters for an average climate							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output(*)	Prated	100	kW	Seasonal space heating energy efficiency	η_s	191.0	%
$T_j = -7^{\circ}\text{C}$	Pdh	89.85	kW	$T_j = -7^{\circ}\text{C}$	COP _d	3.42	-
$T_j = +2^{\circ}\text{C}$	Pdh	54.38	kW	$T_j = +2^{\circ}\text{C}$	COP _d	4.66	-
$T_j = +7^{\circ}\text{C}$	Pdh	36.70	kW	$T_j = +7^{\circ}\text{C}$	COP _d	6.16	-
$T_j = +12^{\circ}\text{C}$	Pdh	28.67	kW	$T_j = +12^{\circ}\text{C}$	COP _d	7.25	-
T_j = bivalent temperature	Pdh	89.85	kW	T_j = bivalent temperature	COP _d	3.42	-
T_j = operation limit temperature	Pdh	93.97	kW	T_j = operation limit temperature	COP _d	3.32	kW
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for Heating	Pcych	x,x	kW	Cycling interval efficiency	COP _{cyc} or PER _{cyc}	x,xx or x,x	- or %
Degradation coefficient(**)	Cdh	x,x	—	Heating water operating limit temperature	WTOL	x	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.043	kW	Rated heat output(*)	Psup	100	kW
Thermostat-off mode	P _{TO}	0.460	kW	Type of energy input			
Standby mode	P _{SB}	0.034	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	Fixed/variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	41000	m³/h
Sound power level, outdoors	L _{WA}	88	dB				
Contact details	Name and address of the manufacturer or its authorized representative.						

(*)For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**)If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

Table 8 SCOP 55°C Average Climate

Model(s):CA0100HANH								
Air-to-water heat pump:yes								
Water-to-water heat pump:no								
Brine-to-water heat pump:no								
Low-temperature heat pump:no								
Equipped with a supplementary heater:no								
Heat pump combination heater:no								
This table shows the medium water output parameters for an average climate								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heat output(*)	Prated	100	kW		Seasonal space heating energy efficiency	η_s	151.0	%
$T_j = -7^{\circ}\text{C}$	Pdh	90.84	kW		$T_j = -7^{\circ}\text{C}$	COP _d	2.56	-
$T_j = +2^{\circ}\text{C}$	Pdh	52.92	kW		$T_j = +2^{\circ}\text{C}$	COP _d	3.67	-
$T_j = +7^{\circ}\text{C}$	Pdh	35.62	kW		$T_j = +7^{\circ}\text{C}$	COP _d	5.01	-
$T_j = +12^{\circ}\text{C}$	Pdh	28.68	kW		$T_j = +12^{\circ}\text{C}$	COP _d	6.42	-
T_j = bivalent temperature	Pdh	90.84	kW		T_j = bivalent temperature	COP _d	2.56	-
T_j = operation limit temperature	Pdh	94.94	kW		T_j = operation limit temperature	COP _d	2.31	kW
Bivalent temperature	T _{biv}	-7	°C		For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for Heating	P _{cyh}	x,x	kW		Cycling interval efficiency	COP _{cyh} or PER _{cyh}	x,xx or x,x	- or %
Degradation co-efficient(**)	Cdh	x,x	—		Heating water operating limit temperature	WTOL	x	°C
Power consumption in modes other than active mode					Supplementary heater			
Off mode	P _{OFF}	0.043	kW		Rated heat output(*)	P _{sup}	x,x	kW
Thermostat-off mode	P _{TO}	0.155	kW		Type of energy input			
Standby mode	P _{SB}	0.034	kW					
Crankcase heater mode	P _{CK}	0.000	kW					
Other items								
Capacity control	Fixed/variable				For air-to-water heat pumps: Rated air flow rate, outdoors	—	41000	m³/h
Sound power level, outdoors	L _{WA}	88	dB					
Contact details	Name and address of the manufacturer or its authorized representative.							

(*)For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**)If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.