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Heat pump model		Master Therm	BA26ISC-1]
			A* AA4 .	-
Heat pump type			Air/Water	-
Supplementary heater			Yes	-
Heat pump combination heate	r		Yes	
Reference heating season			Average	
Reference water temperature			LOW, 35°C	
Full load heating		Prated [kW]	6.51	
Seasonal efficiency		η _s [%]	168	A++
Annual electricity consumption		Q _{HE} [kWh]	3139	
Average 35°C	Outdoor heat exchanger	Declared capacity	COP at part load	Degradation Coefficient
	Outdoor air			U
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
A	-7	5.76	2.59	0.900
В	2	3.72	3.91	0.900
C	7	2.42	6.53	0.900
D	12	2.74	7.21	0.951
TOL (E)	-10	5.88	2.52	0.900
Tbivalent (F)	-7	5.76	2.59	0.900
()				
Reference heating season			Average	7
Reference water temperature			High, 55°C	
Full load heating		Prated [kW]	6.33	
Seasonal efficiency		η _s [%]	126	A++
Annual electricity consumption		Q _{HE} [kWh]	4039	
Average 55°C	Outdoor heat exchanger	Declared capacity	COP at part load	Degradation Coefficient
	Outdoor air	5	2021/	0 " ()
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
A	-7	5.60	1.94	0.900
B C	2 7	3.50	3.02	0.900
D	12	2.33 2.78	4.69 5.55	0.900
				0.963
TOL (E)	-10 -7	5.66 5.60	1.82 1.94	0.900
Tbivalent (F)	-7	5.60	1.94	0.900
Reference heating season			Warmer	
Reference water temperature			Low, 35°C	
Reference water temperature Full load heating		Prated [kW]	Low, 35°C 7.67	-
				-
Full load heating		Prated [kW] η _s [%] Q _{HE} [kWh]	7.67	-
Full load heating Seasonal efficiency	Outdoor heat exchanger Outdoor air	η _s [%]	7.67 259	Degradation Coefficient
Full load heating Seasonal efficiency Annual electricity consumption	Outdoor heat exchanger Outdoor air	η _s [%] Q _{HE} [kWh] Declared capacity	7.67 259 1567 COP at part load	-
Full load heating Seasonal efficiency Annual electricity consumption	Outdoor heat exchanger	η _s [%] Q _{HE} [kWh] Declared capacity Pdh [kW]	7.67 259 1567	Cdh (-)
Full load heating Seasonal efficiency Annual electricity consumption Warmer 35°C B	Outdoor heat exchanger Outdoor air Tj [°C]	η _s [%] Q _{HE} [kWh] Declared capacity Pdh [kW] 7.67	7.67 259 1567 COP at part load COPd (-) 3.41	Cdh (-) 0.900
Full load heating Seasonal efficiency Annual electricity consumption Warmer 35°C	Outdoor heat exchanger Outdoor air Tj [°C] 2 7	η _s [%] Q _{HE} [kWh] Declared capacity Pdh [kW] 7.67 5.10	7.67 259 1567 COP at part load <u>COPd (-)</u> 3.41 5.85	Cdh (-) 0.900 0.900
Full load heating Seasonal efficiency Annual electricity consumption Warmer 35°C B C	Outdoor heat exchanger Outdoor air Tj [°C] 2	η _s [%] Q _{HE} [kWh] Declared capacity Pdh [kW] 7.67	7.67 259 1567 COP at part load COPd (-) 3.41	Cdh (-) 0.900

Heat pump model		Master Therm	BA26ISC-1]
Reference heating season			Warmer	7
Reference water temperature			High, 55°C	
Full load heating		Prated [kW]	7.40	
Seasonal efficiency		η _s [%]	177	
Annual electricity consumption		Q _{HE} [kWh]	2199	-
Warmer 55°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
В	2	7.40	2.21	0.900
С	7	5.17	3.71	0.900
D	12	2.46	6.09	0.957
TOL (E)	2	7.40	2.21	0.900
Tbivalent (F)	2	7.40	2.21	0.900

Reference heating season Reference water temperature		Colder		
			Low, 35°C	
Full load heating		Prated [kW]	9.65	
Seasonal efficiency		η _s [%] Q _{HE} [kWh]	132 5987	
Annual electricity consumption				
Colder 35°C	Outdoor heat exchanger	Declared capacity	COP at part load	Degradation Coefficient
	Outdoor air			
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
А	-7	5.84	2.70	0.900
В	2	3.54	4.55	0.900
С	7	2.97	6.82	0.960
D	12	3.45	7.50	0.959
TOL (E)	-22	4.16	2.08	0.900
Tbivalent (F)	-7	5.84	2.70	0.900
G	-15	4.81	2.32	0.900

Reference heating season Reference water temperature		Colder		
			High, 55°C	
Full load heating Seasonal efficiency		Prated [kW]	9.31 107	
		η _s [%]		
Annual electricity consumption	1	Q _{HE} [kWh]	7116	
Colder 55°C	Outdoor heat exchanger	Declared capacity	COP at part load	Degradation Coefficient
	Outdoor air			
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
А	-7	5.63	2.17	0.900
В	2	3.69	3.58	0.900
С	7	2.86	5.58	0.966
D	12	3.33	6.22	0.965
TOL (E)	-22	3.53	1.42	0.900
Tbivalent (F)	-7	5.63	2.17	0.900
G	-15	4.34	1.71	0.900

Heat pump model	Master Therm	BA26ISC-1		
Power consumption in modes other than "active mo	ode"			
Off mode	P _{OFF} [kW]	0.018		
Thermostat off mode	P _{TO} [kW]	0.017		
Standby mode	P _{SB} [kW]	0.018		
Crankcaseheater mode	P _{CK} [kW]	-		
Supplementary heater capacity	P _{sup} [kW]	6		
Supplementary heater type	[-]	electricity		
Capacity control		Variable		
Sound power level Indoor	L _{WA} [dBA]	48		
Sound power level Outdoor	L _{WA} [dBA]	62		
Rated airflow	[m ³ /h]	max. 3500		
Declared load profile / Tapping cycle		L		
Daily electricity consumption	Q _{elec} [kWh]	3.129		
Water heating energy efficiency	ղ _{wh} [%]	90		
Temperature controller				
Туре	Carel pCO5/pCO5+/uPC, N	Carel pCO5/pCO5+/uPC, Master Therm custom SW		
Class				
Contribution	%	2.0		
Temperature controller + Room Terminal				
Туре	Carel pCO5/pCO5+/uPC + pAE	Carel pCO5/pCO5+/uPC + pAD, Master Therm custom SW		
Class	VI	VI		
Contribution	%	4.0		

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Heat pump model	Master Therm	BA26ISC-1	
Information sheet			
Temperature application		Low, 35°C	High, 55°C
Space heating energy efficiency class, Average climate	-	A++	A++
Nominal heating capacity Pdesign, Average climate	kW	7	6
Space heating seasonal efficiency, Average climate	%	168	126
Space heating annual electricity consumption, Average cl.	kWh	3139	4039
Nominal heating capacity Pdesign, Colder climate	kW	10	9
Space heating seasonal efficiency, Colder climate	%	132	107
Space heating annual electricity consumption, Colder cl.	kWh	5987	7116
	· · · ·		
Nominal heating capacity Pdesign, Warmer climate	kW	8	7
Space heating seasonal efficiency, Warmer climate	%	259	177
Space heating annual electricity consumption, Warmer cl.	kWh	1567	2199
·	· ·		
Sound power level Lwa Outdoor	dBA	62	

Information sheet for energy efficiency Set with Temperature controller					
Temperature application		Low, 35°C	High, 55°C		
Controller Carel pCO5/pCO5+/uPC, Class	-	П			
Controller Carel pCO5/pCO5+/uPC, Contribution	%	2.0	2.0		
Set Space heating seasonal efficiency, Average climate	%	170	128		
Set Space heating energy efficiency class, Average climate	-	A++	A++		
Set Space heating seasonal efficiency, Colder climate	%	134	109		
Set Space heating seasonal efficiency, Warmer climate	%	261	179		

Information sheet for energy efficiency Set with Temperature controller + Room Terminal					
Temperature application		Low, 35°C	High, 55°C		
Controller Carel pCO5/pCO5+/uPC + pAD, Class	-	VI	VI		
Controller Carel pCO5/pCO5+/uPC, +pAD, Contribution	%	4.0	4.0		
Set Space heating seasonal efficiency, Average climate	%	172	130		
Set Space heating energy efficiency class, Average climate	-	A++	A++		
Set Space heating seasonal efficiency, Colder climate	%	136	111		
Set Space heating seasonal efficiency, Warmer climate	%	263	181		