Heat pump model	<u> </u>	Master Therm	BA26IS-1	
				<b>_</b>
Heat pump type			Air/Water	
Supplementary heater			Yes	
Heat pump combination heate	r		No	
Reference heating season			Average	7
Reference water temperature			LOW, 35°C	┪
Full load heating		Prated [kW]	6.51	
Seasonal efficiency		η <sub>s</sub> [%]	168	A++
Annual electricity consumption		Q <sub>HE</sub> [kWh]	3139	
Average 35°C	Outdoor heat exchanger	Declared capacity	COP at part load	Degradation Coefficient
	Outdoor air			
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
A	-7	5.76	2.59	0.900
В	2	3.72	3.91	0.900
С	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	
Reference water temperature			High, 55°C	7
Full load heating		Prated [kW]	6.33	7
Seasonal efficiency		η <sub>s</sub> [%]	126	A++
Annual electricity consumption		Q <sub>HE</sub> [kWh]	4039	
Average 55°C	Outdoor heat exchanger	Declared capacity	COP at part load	Degradation Coefficient
	Outdoor air			
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
Α	-7	5.60	1.94	0.900
В	2	3.50	3.02	0.900
С	7	2.33	4.69	0.900
D	12	2.78	5.55	0.963
TOL (E)	-10	5.66	1.82	0.900
Tbivalent (F)	-7	5.60	1.94	0.900
Reference heating season			Warmer	
Reference water temperature			Low, 35°C	
Full load heating		Prated [kW]	7.67	7
Seasonal efficiency		η <sub>s</sub> [%]	259	7
Annual electricity consumption		Q <sub>HE</sub> [kWh]	1567	
Warmer 35°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
В	2	7.67	3.41	0.900
	7	5.10	5.85	0.900
С				

2.52

7.67

7.67

8.10

3.41

3.41

D

TOL (E)

Tbivalent (F)

12

2

2

0.944

0.900

0.900

Heat pump model	Master Therm	BA26IS-1

Reference heating season Reference water temperature		Warmer	7			
			High, 55°C	7		
Full load heating	Full load heating		Prated [kW]		7.40	
Seasonal efficiency		η <sub>s</sub> [%]	177			
Annual electricity consumption		Q <sub>HE</sub> [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 <sub>s</sub> [%]	132	
Annual electricity consumption	1	Q <sub>HE</sub> [kWh]	5987	
Colder 35°C	Outdoor heat exchanger	Declared capacity	COP at part load	Degradation Coefficient
	Outdoor air	Dale IIIMA	COD4()	C4F ()
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
Α	-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			Colder	
Reference water temperature			High, 55°C	
Full load heating		Prated [kW]	9.31	
Seasonal efficiency		η <sub>s</sub> [%]	107	
Annual electricity consumption	1	Q <sub>HE</sub> [kWh]	7116	
Colder 55°C	Outdoor heat exchanger	Declared capacity	COP at part load	Degradation Coefficient
	Outdoor air			
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
Α	-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	BA26IS-1
Power consumption in modes other than "active m	node"	
Off mode	P <sub>OFF</sub> [kW]	0.018
Thermostat off mode	P <sub>TO</sub> [kW]	0.017
Standby mode	P <sub>SB</sub> [kW]	0.018
Crankcaseheater mode	P <sub>CK</sub> [kW]	-
Supplementary heater capacity	P <sub>sup</sub> [kW]	4,5+(4,5)
Supplementary heater type	[-]	electricity
Capacity control		Variable
Sound power level Indoor	L <sub>WA</sub> [dBA]	48
Sound power level Outdoor	L <sub>WA</sub> [dBA]	62
Rated airflow	[m³/h]	max. 3500
Temperature controller		
Туре	Carel pCO5/pCO5+/uPC, M	aster Therm custom SW
Class	II	
Contribution	%	2.0

Temperature controller + Room Terminal				
Type Carel pCO5/pCO5+/uPC + pAD, Master Therm custom SW				
Class	VI			
Contribution	% 4.0			

## Heat pump model Master Therm BA26IS-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

Information sheet for energy efficiency Set with Temperature controller				
Temperature application		Low, 35°C	High, 55°C	
Controller Carel pCO5/pCO5+/uPC, Class	-	II	II	
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	