Heat pump model		Master Therm	BA30I-1	٦
neat pump moder		Master Hilerin	DAJUI- I	_
Heat pump type		T	Air/Water	٦
Supplementary heater			Yes	-
Heat pump combination heater	r		No	
				_ <del>_</del>
Reference heating season			Average	_
Reference water temperature		Dueste d FLAM	LOW, 35°C	_
Full load heating		Prated [kW]	7.64	A
Seasonal efficiency		η <sub>s</sub> [%]	187	A+++
Annual electricity consumption	1	Q <sub>HE</sub> [kWh]	3326	+
Average 35°C	Outdoor heat exchanger	Declared capacity	COP at part load	Degradation Coefficient
	Outdoor air			
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
A	-7	6.76	2.80	0.900
В	2	4.35	4.52	0.900
C	7	2.82	6.91	0.900
D	12	3.46	8.54	0.958
TOL (E)	-10	6.23	2.64	0.900
Tbivalent (F)	-7	6.76	2.80	0.900
Reference heating season			Average	7
Reference water temperature	_		High, 55°C	┥
Full load heating		Prated [kW]	7.14	╡
Seasonal efficiency		η <sub>s</sub> [%]	141	A++
Annual electricity consumption		Q <sub>HE</sub> [kWh]	4088	
Average FF°C	2 14	Dealers despesits	COD at next lead	Degradation Coefficient
Average 55°C	Outdoor heat exchanger	Declared capacity	COP at part load	Degradation Coefficient
	Outdoor air	D.U. DAMI	2024()	Odle ()
Δ	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
A	-7	6.31	2.02	0.900
В	7	4.15	3.46	0.900
C D		2.69	5.33	0.900
	12	3.31	6.53	0.966
TOL (E) Tbivalent (F)	-10 -7	5.61 6.31	1.79 2.02	0.900 0.900
i biraicii (i )	<u> </u>	0.0.	2.02	0.000
Reference heating season			Warmer	
Reference water temperature			Low, 35°C	
Full load heating		Prated [kW]	9.04	
Seasonal efficiency		η <sub>s</sub> [%]	270	
Annual electricity consumption		Q <sub>HE</sub> [kWh]	1771	
Warmer 35°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
		Dale IIAAA	COD4()	CdF ()
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
В	2	9.04	3.49 5.83	0.900
С	7	5.83		0.900

2.61

9.04

9.04

8.85

3.49

3.49

D

TOL (E)

Tbivalent (F)

12

2

2

0.900

0.900

0.900

Heat pump model	Master Therm	BA30I-1

Reference heating season		ason <b>Warmer</b>		
Reference water temperature		High, 55°C		
Full load heating		Prated [kW]	8.41	
Seasonal efficiency		η <sub>s</sub> [%]	185	
Annual electricity consumption		Q <sub>HE</sub> [kWh]	2386	
Warmer 55°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
В	2	8.41	2.34	0.900
С	7	5.36	3.89	0.900
D	12	2.47	6.32	0.900
TOL (E)	2	8.41	2.34	0.900
Tbivalent (F)	2	8.41	2.34	0.900

Reference heating season Reference water temperature		Colder		
			Low, 35°C	
Full load heating		Prated [kW]	11.14	
Seasonal efficiency		η <sub>s</sub> [%]	139.07	
Annual electricity consumption	1	Q <sub>HE</sub> [kWh]	6587	
Colder 35°C	Outdoor heat exchanger	Declared capacity	COP at part load	Degradation Coefficient
	Outdoor air	D.H. HAMI	0004()	O.H. ( )
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
Α	-7	6.74	1.00	2.943
В	2	4.10	1.00	4.831
С	7	2.64	1.00	7.116
D	12	1.17	0.45	8.536
TOL (E)	-22	11.14	1.00	2.128
Tbivalent (F)	-7	6.74	1.00	2.943
G	-15	9.09	1.00	2.430

Reference heating season			Colder	
Reference water temperature			High, 55°C	7
Full load heating		Prated [kW]	10.94	
Seasonal efficiency		η <sub>s</sub> [%]	114.12	
Annual electricity consumption		Q <sub>HE</sub> [kWh]	7845	
Colder 55°C	Outdoor heat exchanger	Declared capacity	COP at part load	Degradation Coefficient
	Outdoor air	D II (1)40	0001()	0 !! ()
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
Α	-7	6.62	1.00	2.376
В	2	4.03	1.00	3.864
С	7	2.59	1.00	5.798
D	12	1.15	0.46	6.963
TOL (E)	-22	10.94	1.00	1.510
Tbivalent (F)	-7	6.62	1.00	2.376
G	-15	8.92	1.00	1.840

Heat pump model	Master Therm	BA30I-1
Power consumption in modes other than "active m	ode"	
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]	6(+6)
Supplementary heater type	[-]	electricity
Capacity control		Variable
Sound power level Indoor	L <sub>WA</sub> [dBA]	-
Sound power level Outdoor	L <sub>WA</sub> [dBA]	58
Rated airflow	[m <sup>3</sup> /h]	max.6000
Temperature controller		
Туре	Carel pCO5/pCO5+/uPC, Ma	ster 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	BA30I-1
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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	8	7
Space heating seasonal efficiency, Average climate	%	187	141
Space heating annual electricity consumption, Average cl.	kWh	3326	4088
Nominal heating capacity Pdesign, Colder climate	kW	11	11
Space heating seasonal efficiency, Colder climate	%	139	114
Space heating annual electricity consumption, Colder cl.	kWh	6587	7845
Nominal heating capacity Pdesign, Warmer climate	kW	9	8
Space heating seasonal efficiency, Warmer climate	%	270	185
Space heating annual electricity consumption, Warmer cl.	kWh	1771	2386
		-	
Sound power level Lwa Outdoor	dBA	58	

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	%	189	143	
Set Space heating energy efficiency class, Average climate	-	A+++	A++	
Set Space heating seasonal efficiency, Colder climate	%	141	116	
Set Space heating seasonal efficiency, Warmer climate	%	272	187	

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	%	191	145		
Set Space heating energy efficiency class, Average climate	-	A+++	A++		
Set Space heating seasonal efficiency, Colder climate	%	143	118		
Set Space heating seasonal efficiency, Warmer climate	%	274	189		