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	
				_ _
Reference heating season			Average	_
Reference water temperature		Dueste d FLAM	LOW, 35°C	_
Full load heating		Prated [kW]	7.64	A
Seasonal efficiency		η _s [%]	187	A+++
Annual electricity consumption	1	Q _{HE} [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 _s [%]	141	A++
Annual electricity consumption		Q _{HE} [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 biraic.i. (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 _s [%]	270	
Annual electricity consumption		Q _{HE} [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		Warmer		
Reference water temperature			High, 55°C	
Full load heating		Prated [kW]	8.41	
Seasonal efficiency		η _s [%]	185	
Annual electricity consumption		Q _{HE} [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 _s [%]	139.07	
Annual electricity consumption	1	Q _{HE} [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 _s [%]	114.12	
Annual electricity consumption		Q _{HE} [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 _{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(+6)		
Supplementary heater type	[-]	electricity		
Capacity control		Variable		
Sound power level Indoor	L _{WA} [dBA]	=		
Sound power level Outdoor	L _{WA} [dBA]	65		
Rated airflow	[m ³ /h]	max.6000		
Temperature controller				
Туре	Carel pCO5/pCO5+/uPC, Ma	aster Therm custom SW		
Class	ll ll	II		
Contribution	%	2.0		

Carel pCO5/pCO5+/uPC + pAD, Master Therm custom SW

VI

Temperature controller + Room Terminal

Type Class

Contribution

	N4 4 T1	D 4001 4
Heat pump model	Master Therm	BA30I-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	8	7
Space heating seasonal efficiency, Average climate	%	187	141
Space heating annual electricity consumption, Average cl.	kWh	3326	4088
		1	1
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
N : 11 C 2 2 D1 : W E :		1 .	I .
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	65	

nformation 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	