Heat pump model		Master Therm	AQ22IC-1	
Heat pump type			Brine/Water	$\neg$
Supplementary heater			No	$\dashv$
Heat pump combination heate	er		Yes	
Reference heating season			Average	$\neg$
Reference water temperature			LOW, 35°C	$\neg$
Full load heating		Prated [kW]	6.73	$\dashv$
Seasonal efficiency		η <sub>s</sub> [%]	181	A+++
Annual electricity consumption	n	Q <sub>HE</sub> [kWh]	2944	
Average 35°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
A	-7	5.92	4.29	0.900
В	2	3.62	4.65	0.900
С	7	2.38	5.28	0.900
D	12	1.19	5.28	0.947
TOL (E)	-10	6.73	4.22	0.900
Tbivalent (F)	-10	6.73	4.22	0.900
	<u> </u>	<u> </u>		
Reference heating season			Average	□
Reference water temperature			High, 55°C	
Full load heating		Prated [kW]	6.40	T
Seasonal efficiency		η <sub>s</sub> [%]	135	A++
Annual electricity consumption	n	Q <sub>HE</sub> [kWh]	3690	
Average 55°C	Outdoor heat exchanger	Declared capacity	COP at part load	Degradation Coefficient
	Outdoor air	D-II- (IAM)	22D4 ( )	Odb ()
Δ.	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
A B	-7 2	5.52 3.40	2.96 3.56	0.900
С	7	2.32	4.10	0.900
D	12	1.10	4.10	0.900
TOL (E)	-10	6.40	2.83	0.954
Tbivalent (F)	-10	6.40	2.83	0.900
i bivaloni (i )		0.10	2.00	0.000
Reference heating season			Warmer	
Reference water temperature			Low, 35°C	7
Full load heating		Prated [kW]	6.73	⊣
Seasonal efficiency		η <sub>s</sub> [%]	183	
Annual electricity consumption	n	Q <sub>HE</sub> [kWh]	1883	<u> </u>
Warmer 35°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
В	2	6.73	4.22	0.900
С	7	4.27	4.51	0.900
D	12	2.00	5.43	0.900
1 1)				

6.73

6.73

4.22

4.22

TOL (E)

Tbivalent (F)

0.900

0.900

-15

Heat pump model		Master Therm	AQ22IC-1	
Reference heating season			Warmer	コ
Reference water temperature			High, 55°C	$\dashv$
Full load heating		Prated [kW]	6.40	7
Seasonal efficiency		η <sub>s</sub> [%]	132	7
Annual electricity consumption	n .	Q <sub>HE</sub> [kWh]	2436	$\dashv$
Allinaar oloosiioliy 22	<u> </u>	-ME I		
Warmer 55°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
В	2	6.40	2.83	0.900
С	7	4.07	3.21	0.900
D	12	1.82	3.21 4.11	0.900
TOL (E)	2	6.40	2.83	0.900
	2 2	6.40	2.83	0.900
Tbivalent (F)		0.40	۷.05	0.800
Reference heating season			Colder	$\neg$
Reference water temperature			Low, 35°C	$\dashv$
Full load heating		Prated [kW]	6.78	$\dashv$
_	<del>+</del>		188	$\dashv$
Seasonal efficiency	<del>+</del>	η <sub>s</sub> [%]		4
Annual electricity consumption	1	Q <sub>HE</sub> [kWh]	3413	
Colder 35°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
1	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
A	-7	4.01	4.62	0.900
В	2	2.63	5.19	0.900
C	7	1.76	5.43	0.900
D	12	1.58	5.28	0.960
TOL (E)	-22	6.78	4.40	0.900
Tbivalent (F)	-22	6.78	4.40	0.900
G	-15	5.54	4.46	0.900
	<u> </u>			<u> </u>
Reference heating season			Colder	$\neg$
Reference water temperature			High, 55°C	7
Full load heating		Prated [kW]	Climate	7
Seasonal efficiency		η <sub>s</sub> [%]	0	=
Annual electricity consumption	2	Q <sub>HE</sub> [kWh]	16	$\dashv$
Allitual disolatory sontaine.	<u> </u>	AHE Iv)		+
Colder 55°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
1	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
A	-7	3.85	3.42	0.900
В	2	2.44	3.42	0.900
С	7	1.64	4.46	0.900
D	12			
	-22	1.49 6.48	4.46	0.964
TOL (E) Tbivalent (F)	-22 -22	6.48	3.03	0.900
I bivalent (F)	-22	5.48	3.03	0.900

5.37

3.13

0.900

Heat pump model	Master Therm	AQ22IC-1		
<b>-</b>				
Power consumption in modes other than "active r	node"			
Off mode	P <sub>OFF</sub> [kW]	0.012		
Thermostat off mode	P <sub>TO</sub> [kW]	0.012		
Standby mode	P <sub>SB</sub> [kW]	0.012		
Crankcaseheater mode	P <sub>CK</sub> [kW]	-		
Supplementary heater capacity	P <sub>sup</sub> [kW]	3-4 (4,5-6)		
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]	-		
Rated brine flow	[m³/h]	0.99		
Declared load profile / Tapping cycle		L		
Daily electricity consumption	Q <sub>elec</sub> [kWh]	3.332		
Water heating energy efficiency	η <sub>wh</sub> [%]	86		
Temperature controller				
Туре	Carel pCO5/pCO5+/uPC, M	Carel pCO5/pCO5+/uPC, Master Therm custom SW		
Class	II II			
Contribution	%	2.0		
Temperature controller + Room Terminal				
Туре	Carel pCO5/pCO5+/uPC + pAE	Carel pCO5/pCO5+/uPC + pAD, Master Therm custom SW		
Class	VI			
Contribution	%	4.0		

Heat pump model	Master Therm	AQ22IC-1
meat pullip illouel	Master Hilerin	AQZZIC-I

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	%	181	135
Space heating annual electricity consumption, Average cl.	kWh	2944	3690
Nominal heating capacity Pdesign, Colder climate	kW	7	Climate
Space heating seasonal efficiency, Colder climate	%	188	0
Space heating annual electricity consumption, Colder cl.	kWh	3413	16
Nominal heating capacity Pdesign, Warmer climate	kW	7	6
Space heating seasonal efficiency, Warmer climate	%	183	132
Space heating annual electricity consumption, Warmer cl.	kWh	1883	2436
<u> </u>		-	•
Sound power level Lwa	dBA	48	

Information sheet for energy efficiency Set with Temperature controller			
Temperature application		Low, 35°C	High, 55°C
Controller Carel pCO5/pCO5+/uPC, Class	i	II	II
Controller Carel pCO5/pCO5+/uPC, Contribution	%	2.0	2.0
Set Space heating seasonal efficiency, Average climate	%	183	137
Set Space heating energy efficiency class, Average climate	i	A+++	A++
Set Space heating seasonal efficiency, Colder climate	%	190	2
Set Space heating seasonal efficiency, Warmer climate	%	185	134

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	%	185	139
Set Space heating energy efficiency class, Average climate	-	A+++	A++
Set Space heating seasonal efficiency, Colder climate	%	192	4
Set Space heating seasonal efficiency, Warmer climate	%	187	136