reclinical parameters accord	ullig to Regulations (EO) No. 611	1/2013 and No. 013/2013		page 1/4
Heat pump model		Master Therm	AQ26IC-1	
Heat pump type			Brine/Water	\neg
Supplementary heater			No	\exists
Heat pump combination heate	:r		Yes	
Reference heating season			Average	\neg
Reference water temperature			LOW, 35°C	\exists
Full load heating		Prated [kW]	8.94	
Seasonal efficiency		η _s [%]	190	A+++
Annual electricity consumption	1	Q _{HE} [kWh]	3735	
Average 35°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
А	-7	8.06	4.34	0.900
В	2	4.99	4.91	0.900
С	7	3.16	5.51	0.900
D	12	1.90	5.65	0.965
TOL (E)	-10	8.94	4.13	0.900
Tbivalent (F)	-10	8.94	4.13	0.900
L			•	\neg
Reference heating season			Average High, 55°C	\dashv
Reference water temperature Full load heating	1	Protod [kW]	7.99	\dashv
ŭ		Prated [kW]	7.99 144	A++
Seasonal efficiency Annual electricity consumption		η _s [%]	4333	ATT
Annual electricity consumption	1	Q _{HE} [kWh]	4333	
Average 55°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
A	-7	7.17	3.04	0.900
В	2	4.35	3.77	0.900
C	7	2.77	4.42	0.900
D	12	1.83	4.64	0.970
TOL (E)	-10	7.99	2.86	0.900
Tbivalent (F)	-10	7.99	2.86	0.900
Reference heating season		Т	Warmer	\neg
Reference water temperature			Low, 35°C	
Full load heating	T	Prated [kW]	8.94	\dashv
Seasonal efficiency		η _s [%]	191	7
Annual electricity consumption	1	Q _{HE} [kWh]	2400	7
Warmer 35°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
В	2	8.94	4.13	0.900
C	7	6.21	4.69	0.900
D	12	2.54	5.65	0.900
TOL (E)	2	9.04	1 12	0.000

8.94

8.94

4.13

4.13

TOL (E)

Tbivalent (F)

0.900

0.900

Heat pump model		Master Therm	AQ26IC-1	
Reference heating season			Warmer	\neg
Reference water temperature			High, 55°C	
Full load heating		Prated [kW]	7.99	\dashv
Seasonal efficiency		η _s [%]	141	\dashv
Annual electricity consumption		Q _{HE} [kWh]	2866	\dashv
Affindal electricity consumption	1	CHE [VAAII]	2000	+
Warmer 55°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
В	2	7.99	2.86	0.900
С	7	5.18	3.35	0.900
D	12	2.41	4.42	0.900
TOL (E)	2	7.99	2.86	0.900
Tbivalent (F)	2	7.99	2.86	0.900
i biraion (i)		1.00	2.00	0.000
Reference heating season			Colder	\neg
Reference water temperature			Low, 35°C	\exists
Full load heating		Prated [kW]	8.94	7
Seasonal efficiency		η _s [%]	198	\dashv
Annual electricity consumption	n	Q _{HE} [kWh]	4287	\dashv
Allitual Gloothory Soll-E.	' 	WHE Investig	720.	+
Colder 35°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
A	-7	5.61	4.84	0.900
В	2	3.41	5.51	0.900
С	7	2.29	5.65	0.900
D	12	1.89	5.51	0.965
TOL (E)	-22	8.94	4.13	0.900
Tbivalent (F)	-22	8.94	4.13	0.900
G	-15	7.44	4.53	0.900
			7.00	0.000
Reference heating season			Colder	\neg
Reference water temperature		+	High, 55°C	\dashv
Full load heating		Prated [kW]	7.99	\dashv
Seasonal efficiency	+	η _s [%]	151	\dashv
•		η _s [%] Q _{HE} [kWh]	4966	\dashv
Annual electricity consumption	1	WHE [KVVII]	4300	+
Colder 55°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
Α	-7	4.90	3.58	0.900
В	2	3.00	4.32	0.900
С	7	1.85	4.32	0.900
D	12			
		1.84	4.82	0.969
TOL (E)	-22	7.99	2.86	0.900
Tbivalent (F)	-22	7.99	2.86	0.900

7.58

3.19

G

-15

0.995

Heat pump model	Master Therm	AQ26IC-1		
Power consumption in modes other than "active r	node"			
Off mode	P _{OFF} [kW]	0.012		
Thermostat off mode	P _{TO} [kW]	0.012		
Standby mode	P _{SB} [kW]	0.012		
Crankcaseheater mode	P _{CK} [kW]	-		
Supplementary heater capacity	P _{sup} [kW]	3-4 (4,5-6)		
Supplementary heater type	[-]	electricity		
Capacity control		Variable		
Sound power level Indoor	L _{WA} [dBA]	48		
Sound power level Outdoor	L _{WA} [dBA]	-		
Rated brine flow	[m³/h]	1.73		
Declared load profile / Tapping cycle		L		
Daily electricity consumption	Q _{elec} [kWh]	3.332		
Water heating energy efficiency	ղ _{wh} [%]	86		
Temperature controller				
Туре	Carel pCO5/pCO5+/uPC, M	laster Therm custom SW		
Class	ll l			
Contribution	%	2.0		
Temperature controller + Room Terminal				
Туре	Carel pCO5/pCO5+/uPC + pAD	Carel pCO5/pCO5+/uPC + pAD, Master Therm custom SW		
Class	VI			
Contribution	%	4.0		

Heat pump model	Master Therm	AQ26IC-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	9	8
Space heating seasonal efficiency, Average climate	%	190	144
Space heating annual electricity consumption, Average cl.	kWh	3735	4333
Nominal heating capacity Pdesign, Colder climate	kW	9	8
Space heating seasonal efficiency, Colder climate	%	198	151
Space heating annual electricity consumption, Colder cl.	kWh	4287	4966
Nominal heating capacity Pdesign, Warmer climate	kW	9	8
Space heating seasonal efficiency, Warmer climate	%	191	141
Space heating annual electricity consumption, Warmer cl.	kWh	2400	2866
·			
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	-	II	II
Controller Carel pCO5/pCO5+/uPC, Contribution	%	2.0	2.0
Set Space heating seasonal efficiency, Average climate	%	192	146
Set Space heating energy efficiency class, Average climate	-	A+++	A++
Set Space heating seasonal efficiency, Colder climate	%	200	153
Set Space heating seasonal efficiency, Warmer climate	%	193	143

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	%	194	148	
Set Space heating energy efficiency class, Average climate	-	A+++	A++	
Set Space heating seasonal efficiency, Colder climate	%	202	155	
Set Space heating seasonal efficiency, Warmer climate	%	195	145	