Heat pump model	<u> </u>	Master Therm	AQ26I-1	\neg
		_		-
Heat pump type			Brine/Water	
Supplementary heater			Yes	
Heat pump combination heate	er		No	
Reference heating season			Average	\neg
Reference water temperature			LOW, 35°C	
Full load heating		Prated [kW]	8.94	
Seasonal efficiency		η _s [%]	190	A+++
Annual electricity consumptio	n	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
Reference heating season			Average	\neg
Reference water temperature			High, 55°C	=
Full load heating	Ī	Prated [kW]	7.99	\dashv
Seasonal efficiency		η _s [%]	144	A++
Annual electricity consumptio	n	Q _{HE} [kWh]	4333	****
Average 55°C	Outdoor heat exchanger	Declared capacity	COP at part load	Degradation Coefficient
	Outdoor air			
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
A	-7	7.17	3.04	0.900
В	2	4.35	3.77	0.900
С	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			Warmer	
Reference water temperature			Low, 35°C	
Full load heating		Prated [kW]	8.94	
Seasonal efficiency		η _s [%]	191	
Annual electricity consumptio	n	Q _{HE} [kWh]	2400	
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
С	7	6.21	4.69	0.900
D	12	2.54	5.65	0.900
TOL (E)			4.40	0.000

8.94

8.94

4.13

4.13

TOL (E)

Tbivalent (F)

0.900

0.900

Heat pump model		Master Therm	AQ26I-1	
Reference heating season			Warmer	\neg
Reference water temperature		1	High, 55°C	
Full load heating		Prated [kW]	7.99	\dashv
Seasonal efficiency		η _s [%]	141	7
Annual electricity consumption	<u> </u>	Q _{HE} [kWh]	2400	\dashv
Allinual Globalisty 222.	ή †	~HE 1		+
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
,				
Reference heating season			Colder	□ □
Reference water temperature			Low, 35°C	7
Full load heating		Prated [kW]	8.94	
Seasonal efficiency		η _s [%]	198	7
Annual electricity consumption		Q _{HE} [kWh]	4287	\dashv
Allitual electricity corressings.	' T †	AHE IVAALIT	720.	+
Colder 35°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
1	Ti [°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	4.13	0.900
<u> </u>			1.00	0.000
Reference heating season		T	Colder	\neg
Reference water temperature			High, 55°C	\dashv
Full load heating	T	Prated [kW]	7.99	\dashv
Seasonal efficiency	1	η _s [%]	151	\dashv
Annual electricity consumption	_	Q _{HE} [kWh]	4966	\dashv
Allitual electricity concurry	' 1	WHE [VALUE]	TUCU	-
Colder 55°C	Outdoor heat exchanger Outdoor air	Declared capacity	COP at part load	Degradation Coefficient
	Tj [°C]	Pdh [kW]	COPd (-)	Cdh (-)
A	-7	4.90	3.58	0.900
В	2	3.00	4.32	0.900
С	7	1.85	4.87	0.900
D	12	1.84	4.82	0.969
	-22	1.84 7.99	2.86	0.969
TOL (E)	-22 -22			0.900
Tbivalent (F)	-22	7.99	2.86	0.900

7.58

3.19

G

-15

0.995

Heat pump model	Master Therm	AQ26I-1			
Power consumption in modes other than "active r	mode"				
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			
Temperature controller					
Туре	Carel pCO5/pCO5+/uPC, M	aster Therm custom SW			
Class	II				
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	AQ26I-1	٦
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nformation 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	2400

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	