	(heat n			requirements neat pump combination heaters)			
Model(s): MHAITI 104 / IUT 06	(пеат р	ишр ѕрасе п	eaters and n	teat pump combination neaters)			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary	Y		
Brine-to-water heat pump		N		heater Heat pump combination heater	Y		
Parameters declared for							
Parameters declared for				Medium-temperature application			
	1.1	,		Average climate condition		,	.,
Item	symbol	value	unit	Item Seasonal space heating energy	symbol	value	unit
Rated heat output (*)	Prated	5	kW	efficiency	ηs	128	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = −7 °C	Pdh	4.0	kW	Ti=-7 ℃	COPd	2.03	_
Degradation co-efficient (**)	Cdh	0.99	_	1j - / C	COTA	2.03	
Tj = 2 ℃	Pdh	2.6	kW	Ti = 2 ℃	COPd	3.27	_
Degradation co-efficient (**)	Cdh	0.97	-	1, 2 C	0014	3.27	
Tj = 7 ℃	Pdh	2.3	kW	Ti = 7 ℃	COPd	4.30	_
Degradation co-efficient (**)	Cdh	0.95	-	15 / C	0014	1.50	
Tj = 12℃	Pdh	2.8	kW	Tj = 12℃	COPd	6.00	_
Degradation co-efficient (**)	Cdh	0.95	_	-,			
Tj = bivalent temperature	Pdh	4.0	kW	Tj = bivalent temperature	COPd	2.03	_
Tj = operation limit temperature	Pdh	3.8	kW	Tj = operation limit temperature	COPd	1.38	_
For air-to-water heat pumps: $Tj = -15 \degree \text{C} \text{ (if TOL} < -20 \degree \text{C)}$	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if TOL $< -20^{\circ}C$)	COPd	NA	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	СОРсус	NA	_
Cycling interval capacity for heating	1 Cycli	IVA	K VV	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	le	Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	1.2	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.025	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3200	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	42/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h
Annual energy consumption	$\boldsymbol{Q}_{\text{HE}}$	3152	kWh	rate, outdoor heat exchanger		11/74	111 3 /11
		For 1	heat pump co	mbination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	101	%
Daily electricity consumption	Qelec	5.049	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1011	kWh	Annual fuel consumption	AFC	NA	GJ
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^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

	(h +			requirements				
Model(s): MHAITI 104 / IUT 06	(neat p	ump space n	leaters and i	neat pump combination heaters)				
Air-to-water heat pump		Y		Low-temperature heat pump		N		
Water-to-water heat pump		N		Equipped with a supplementary heater		Y		
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Medium-temperature application				
Parameters declared for				Colder climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	3	kW	Seasonal space heating energy efficiency	ηs	95	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
$Tj = -7 ^{\circ}C$	Pdh	1.9	kW	T. 7 %	COPI	1.72		
Degradation co-efficient (**)	Cdh	0.98	-	Tj = − 7 °C	COPd	1.72	_	
Tj = 2 ℃	Pdh	1.9	kW	T: 0.00	con 1	2.41		
Degradation co-efficient (**)	Cdh	0.96	-	Tj = 2 ℃	COPd	3.41	_	
Tj = 7 ℃	Pdh	2.6	kW	T: 7.00	CODI	5.20		
Degradation co-efficient (**)	Cdh	0.95	_	Tj = 7 °C	COPd	5.29	_	
Tj = 12℃	Pdh	2.9	kW	T: 12°C	con 1	6.51		
Degradation co-efficient (**)	Cdh	0.94	_	Tj = 12℃	COPd	6.71	_	
Tj = bivalent temperature	Pdh	2.7	kW	Tj = bivalent temperature	COPd	1.35	_	
Tj = operation limit temperature	Pdh	2.3	kW	Tj = operation limit temperature	COPd	1.10	_	
For air-to-water heat pumps: Tj = -15% (if $TOL < -20%$)	Pdh	2.7	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	1.35	_	
Bivalent temperature	Tbiv	-15	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$	
				Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mod	des other tha	n active mod	le	Supplementary heater				
Off mode	$P_{\rm OFF}$	0.025	kW	Rated heat output (*)	Psup	0.7	kW	
Thermostat-off mode	P_{TO}	0.025	kW					
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.025	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3200	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	42/62	dB	For water- or brine-to-water heat		NIA	2 /1-	
Annual energy consumption	Q_{HE}	3015	kWh	pumps: Rated brine or water flow rate, outdoor heat exchanger	_	NA	m 3 /h	
		For	heat pump co	ombination heater:				
Declared load profile		L	-	Water heating energy efficiency	ηwh	82	%	
Daily electricity consumption	Qelec	6.277	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1252	kWh	Annual fuel consumption	AFC	NA	GJ	
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^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

	(heat n			requirements neat pump combination heaters)			
Model(s): MHAITI 104 / IUT 06	(пеат р	ump space n	- arcis and i	teat pump combination neaters)			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	Y		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Medium-temperature application	<u> </u>		
Parameters declared for				Warmer climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	4	kW	Seasonal space heating energy efficiency	ηs	154	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = −7 °C	Pdh	NA	kW				
Degradation co-efficient (**)	Cdh	NA	_	Tj = − 7 °C	COPd	NA	_
Tj = 2 ℃	Pdh	4.2	kW	T: 0.00	GOD 1	2.10	
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 ℃	COPd	2.10	_
Tj = 7 ℃	Pdh	2.6	kW	T: 7.00	GOD 1	2.40	
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 7 ℃	COPd	3.40	_
Tj = 12℃	Pdh	2.7	kW	T: 12°C	CODI	5.55	
Degradation co-efficient (**)	Cdh	0.95	_	Tj = 12℃	COPd	5.55	_
Tj = bivalent temperature	Pdh	4.2	kW	Tj = bivalent temperature	COPd	2.10	_
Tj = operation limit temperature	Pdh	4.2	kW	Tj = operation limit temperature	COPd	2.10	_
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{if TOL} < -20^{\circ})$	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	_
Bivalent temperature	Tbiv	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}$
	D 1	NIA	1 337	Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	le	Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.025	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3200	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	42/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h
Annual energy consumption	Q_{HE}	1365	kWh	rate, outdoor heat exchanger		INA	111 3 /11
		For 1	heat pump co	ombination heater:			
Declared load profile		L	-	Water heating energy efficiency	ηwh	82	%
Daily electricity consumption	Qelec	6.250	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1246	kWh	Annual fuel consumption	AFC	NA	GJ
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^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

	(heat n			requirements neat pump combination heaters)				
Model(s): MHAITI 104 / IUT 06	(пеат р	ump space n	- arcis and i	teat pump combination neaters)				
Air-to-water heat pump		Y		Low-temperature heat pump		N		
Water-to-water heat pump		N		Equipped with a supplementary heater	Y			
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Low-temperature application	<u> </u>			
Parameters declared for				Average climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	ηs	184	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = − 7 °C	Pdh	4.6	kW	-				
Degradation co-efficient (**)	Cdh	0.98	-	Tj = − 7 °C	COPd	3.23	_	
Tj = 2 ℃	Pdh	2.9	kW	Ti: 0.00	CORI	4.50		
Degradation co-efficient (**)	Cdh	0.96	-	Tj = 2 ℃	COPd	4.59	_	
Tj = 7 ℃	Pdh	2.6	kW	T: 7.00	cont	6.20		
Degradation co-efficient (**)	Cdh	0.94	-	Tj = 7 ℃	COPd	6.39	_	
Tj = 12℃	Pdh	2.8	kW	T: 12°C	CODI	6.27		
Degradation co-efficient (**)	Cdh	0.94	_	Tj = 12℃	COPd	6.37	_	
Tj = bivalent temperature	Pdh	4.6	kW	Tj = bivalent temperature	COPd	3.23	_	
Tj = operation limit temperature	Pdh	4.2	kW	Tj = operation limit temperature	COPd	2.56	_	
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{if TOL} < -20^{\circ})$	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	_	
Bivalent temperature	Tbiv	-7	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$	
Civalina interval consolity for heating	David	NA	kW	Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	INA	K VV	Heating water operating limit temperature	WTOL	60	\mathbb{C}	
Power consumption in mod	des other tha	n active mod	le	Supplemen	ntary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	0.8	kW	
Thermostat-off mode	P_{TO}	0.025	kW					
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	$P_{\rm CK}$	0.025	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3200	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	42/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	\boldsymbol{Q}_{HE}	2216	kWh	rate, outdoor heat exchanger		IVA	111 3 /11	
		For 1	heat pump co	mbination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	101	%	
Daily electricity consumption	Qelec	5.049	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption Contact details:	AEC	1011	kWh	Annual fuel consumption	AFC	NA	GJ	
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^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

	(heat n			requirements neat pump combination heaters)			
Model(s): MHAITI 104 / IUT 06	(пеат р	ump space i	- arcis and i	teat pump combination neaters)			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	Y		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Low-temperature application	<u> </u>		
Parameters declared for				Colder climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	4	kW	Seasonal space heating energy efficiency	ηs	145	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = −7 °C	Pdh	2.4	kW				
Degradation co-efficient (**)	Cdh	0.97	-	Tj = − 7 °C	COPd	2.68	_
Tj = 2 ℃	Pdh	2.3	kW	T: 2 °C	CODI	5.24	
Degradation co-efficient (**)	Cdh	0.94	_	Tj = 2 ℃	COPd	5.34	_
Tj = 7 ℃	Pdh	2.7	kW	T: 7 %	CODI	7.04	
Degradation co-efficient (**)	Cdh	0.94	_	Tj = 7 ℃	COPd	7.04	_
Tj = 12°C	Pdh	2.6	kW	T: _ 12°C	COD4	6.00	
Degradation co-efficient (**)	Cdh	0.93	_	Tj = 12℃	COPd	6.90	_
Tj = bivalent temperature	Pdh	3.1	kW	Tj = bivalent temperature	COPd	2.06	_
Tj = operation limit temperature	Pdh	2.8	kW	Tj = operation limit temperature	COPd	1.19	_
For air-to-water heat pumps: $Tj = -15 \degree \text{ (if TOL} < -20 \degree \text{)}$	Pdh	3.1	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	COPd	2.03	_
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$
Continuinte medical consider for booking	D 1-	NIA	kW	Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	K W	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	le	Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	1.3	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	$P_{\rm CK}$	0.025	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3200	m 3 /h
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle WA}$	42/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h
Annual energy consumption	Q_{HE}	2662	kWh	rate, outdoor heat exchanger		INA	111 3 /11
		For	heat pump co	ombination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	82	%
Daily electricity consumption	Qelec	6.277	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1252	kWh	Annual fuel consumption	AFC	NA	GJ
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^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

				requirements			
	(heat p	ump space h	eaters and l	neat pump combination heaters)			
Model(s): MHAITI 104 / IUT 06				I			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	Y		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Low-temperature application			
Parameters declared for				Warmer climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	ηs	232	%
Declared capacity for heating for part outdoor tem		or temperatur	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = − 7 °C	Pdh	NA	kW				
Degradation co-efficient (**)	Cdh	NA	_	Tj = − 7 °C	COPd	NA	_
Tj = 2 ℃	Pdh	4.8	kW	T: - 2 °C	COD4	2.46	
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 2 ℃	COPd	3.46	_
Tj = 7 ℃	Pdh	3.3	kW	Ti = 7 ℃	COPd	5.57	
Degradation co-efficient (**)	Cdh	0.96	_	1j = / C	СОРИ	3.37	_
Tj = 12°C	Pdh	2.9	kW	Tj = 12℃	COPd	7.60	
Degradation co-efficient (**)	Cdh	0.93	_	11 - 12 C	СОРИ	7.00	_
Tj = bivalent temperature	Pdh	4.8	kW	Tj = bivalent temperature	COPd	3.46	_
Tj = operation limit temperature	Pdh	4.8	kW	Tj = operation limit temperature	COPd	3.46	_
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	_
Bivalent temperature	Tbiv	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Davah	NA	kW	Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	INA	K VV	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	e	Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	$P_{\rm CK}$	0.025	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3200	m 3 /h
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle WA}$	42/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h
Annual energy consumption	Q_{HE}	1137	kWh	rate, outdoor heat exchanger		IVA	111 3 711
		For l	heat pump co	ombination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	82	%
Daily electricity consumption	Qelec	6.250	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1246	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: Via Oltre Ferrovia 32 - 33033 Codroip	oo (Ud)			Name of the supplier: RHOSS S.P.A			
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^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating $\sup(Tj)$. (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.



	(heat n			requirements neat pump combination heaters)			
Model(s): MHAITI 106 / IUT 06	(пеат р	ишр ѕрасе п	eaters and n	teat pump combination neaters)			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary	Y		
Brine-to-water heat pump		N		heater Heat pump combination heater	Y		
Parameters declared for				Medium-temperature application			
Parameters declared for							
	1 1	1	.,	Average climate condition	1 1	1	
Item	symbol	value	unit	Item Seasonal space heating energy	symbol	value	unit
Rated heat output (*)	Prated	5	kW	efficiency	ηs	127	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = −7 °C	Pdh	4.0	kW	Ti=-7 ℃	COPd	2.03	_
Degradation co-efficient (**)	Cdh	0.99	_	1j - / C	COTA	2.03	
Tj = 2 ℃	Pdh	2.6	kW	Tj = 2 ℃	COPd	3.27	_
Degradation co-efficient (**)	Cdh	0.97	_	11 2 0	COLU	3.27	
Tj = 7 ℃	Pdh	2.4	kW	Tj = 7 ℃	COPd	4.20	
Degradation co-efficient (**)	Cdh	0.96	_	1j / C	COLU	4.20	
Tj = 12℃	Pdh	2.8	kW	Tj = 12℃	COPd	6.00	_
Degradation co-efficient (**)	Cdh	0.95	-	1, 120	0014	0.00	
Tj = bivalent temperature	Pdh	4.0	kW	Tj = bivalent temperature	COPd	2.03	_
Tj = operation limit temperature	Pdh	3.8	kW	Tj = operation limit temperature	COPd	1.38	_
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	_
Bivalent temperature	Tbiv	-7	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	СОРсус	NA	_
Cycling interval capacity for heating	reyen	INA	K VV	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	le	Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	1.2	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.025	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3200	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	42/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h
Annual energy consumption	\boldsymbol{Q}_{HE}	3169	kWh	rate, outdoor heat exchanger		NA .	111 3 /11
		For 1	heat pump co	mbination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	101	%
Daily electricity consumption	Qelec	5.049	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1011	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: Via Oltre Ferrovia 32 - 33033 Codroip	oo (Ud)			Name of the supplier: RHOSS S.P.A			

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

requirements heat pump combination heaters)				
F. F.				
Low-temperature heat pump		N		
Equipped with a supplementary heater		Y		
Heat pump combination heater		Y		
Medium-temperature application				
Colder climate condition				
Item	symbol	value	unit	
Seasonal space heating energy efficiency	ηs	104	%	
Declared coefficient of performance indoor temperature 20 °				
- Tj = − 7 °C	COPd	1.83	_	
T: - 2 %	COD4	2.97		
- Tj = 2 °C	COPd	3.87	_	
- Tj = 7 ℃	COPd	5.31		
1j - 7 C	Coru	3.31		
- Tj = 12℃	COPd	6.73	_	
1) 120	Coru	0.73		
Tj = bivalent temperature	COPd	1.38	-	
Tj = operation limit temperature	COPd	1.10	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	1.38	_	
For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$	
Cycling interval efficiency	COPcyc	NA	_	
Heating water operating limit temperature	WTOL	60	°C	
Supplementary heater				
Rated heat output (*)	Psup	1.7	kW	
Type of energy input		Electric		
For air-to-water heat pumps: Rate air flow rate, outdoors		3200	m 3 /h	
For water- or brine-to-water hear pumps: Rated brine or water flow		NA	m 3 /h	
rate, outdoor heat exchanger		IVA	111 3 / 11	
ombination heater:				
Water heating energy efficiency	ηwh	82	%	
Daily fuel consumption	Qfuel	NA	kWh	
Annual fuel consumption Name of the supplier:	AFC	NA	GJ	
Annual fuel Name of the suppl RHOSS S.P.A	consumption	consumption AFC	consumption AFC NA	

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

	(heat n			requirements neat pump combination heaters)				
Model(s): MHAITI 106 / IUT 06	(пеат р	ump space i	- arcis and i	teat pump combination neaters)				
Air-to-water heat pump		Y		Low-temperature heat pump		N		
Water-to-water heat pump		N		Equipped with a supplementary heater	Y			
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Medium-temperature application	<u> </u>			
Parameters declared for				Warmer climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	ηs	167	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = −7 °C	Pdh	NA	kW					
Degradation co-efficient (**)	Cdh	NA	_	Tj = − 7 °C	COPd	NA	_	
Tj = 2 ℃	Pdh	5.2	kW	T: 0.00	GOD 1	2.52		
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 2 ℃	COPd	3.52	_	
Tj = 7 ℃	Pdh	3.3	kW	T: 7.00	GOD 1	2.40		
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 7 ℃	COPd	3.49	_	
Tj = 12℃	Pdh	2.7	kW	T: 12°C	CODI	5.65		
Degradation co-efficient (**)	Cdh	0.95	_	Tj = 12℃	COPd	5.67	_	
Tj = bivalent temperature	Pdh	5.2	kW	Tj = bivalent temperature	COPd	3.52	_	
Tj = operation limit temperature	Pdh	5.2	kW	Tj = operation limit temperature	COPd	3.52	_	
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{if TOL} < -20^{\circ})$	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	-	
Bivalent temperature	Tbiv	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}$	
	D 1	NIA	1 337	Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	$^{\circ}$	
Power consumption in mod	des other tha	n active mod	le	Supplementary heater				
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P_{TO}	0.025	kW					
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	$P_{\rm CK}$	0.025	kW			,		
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3200	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	42/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	\boldsymbol{Q}_{HE}	1575	kWh	rate, outdoor heat exchanger		IVE	111 3 /11	
		For	heat pump co	ombination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	82	%	
Daily electricity consumption	Qelec	6.250	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption Contact details:	AEC	1246	kWh	Annual fuel consumption Name of the supplier:	AFC	NA	GJ	
Via Oltre Ferrovia 32 - 33033 Codroip	oo (Ud)			RHOSS S.P.A	sign load for			

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

	(heat n			requirements neat pump combination heaters)			
Model(s): MHAITI 106 / IUT 06	(пеат р	ump space n	eaters and n	near pump combination neaters)			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary	Y		
				heater	Y		
Brine-to-water heat pump		N					
Parameters declared for				Low-temperature application			
Parameters declared for		1	1	Average climate condition	1	1	
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	ηs	179	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C and indoor			
Tj = − 7 °C	Pdh	5.3	kW	Ti = −7 °C	COPd	2.81	
Degradation co-efficient (**)	Cdh	0.99	-	1J == / C	COPa	2.81	_
Tj = 2 ℃	Pdh	3.3	kW	Tj = 2 ℃	COPd	4.68	
Degradation co-efficient (**)	Cdh	0.96	-	1j-2 C	COPa	4.08	_
Tj = 7 ℃	Pdh	2.6	kW	Ti = 7 °C	COPd	6.22	
Degradation co-efficient (**)	Cdh	0.94	_	1j - / C	COru	0.22	_
Tj = 12℃	Pdh	2.6	kW	Tj = 12℃	COPd	5.72	
Degradation co-efficient (**)	Cdh	0.94	-	1) 120	COLU	3.72	
Tj = bivalent temperature	Pdh	5.3	kW	Tj = bivalent temperature	COPd	2.81	_
Tj = operation limit temperature	Pdh	4.2	kW	Tj = operation limit temperature	COPd	2.56	_
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15 \degree \text{ (if TOL} < -20 \degree \text{)}$	COPd	NA	_
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	СОРсус	NA	_
Cycling interval capacity for heating	rcycli	INA	K VV	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	le	Supplemer	ntary heater		
Off mode	$P_{\rm OFF}$	0.025	kW	Rated heat output (*)	Psup	1.8	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0.025	kW				
Other	items		-				
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3200	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	42/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h
Annual energy consumption	$\boldsymbol{Q}_{\text{HE}}$	2729	kWh	rate, outdoor heat exchanger		INA	111 3 /11
		For	heat pump co	ombination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	101	%
Daily electricity consumption	Qelec	5.049	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1011	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: Via Oltre Ferrovia 32 - 33033 Codroip	oo (Ud)			Name of the supplier: RHOSS S.P.A			

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

	(heat n			requirements neat pump combination heaters)				
Model(s): MHAITI 106 / IUT 06	(пеат р	ump space i	- arcis and i	teat pump combination neaters)				
Air-to-water heat pump		Y		Low-temperature heat pump		N		
Water-to-water heat pump		N		Equipped with a supplementary heater	Y			
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Low-temperature application	<u> </u>			
Parameters declared for			-	Colder climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	4	kW	Seasonal space heating energy efficiency	ηs	145	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = −7 °C	Pdh	2.6	kW	-				
Degradation co-efficient (**)	Cdh	0.97	-	Tj = − 7 °C	COPd	2.69	_	
Tj = 2 ℃	Pdh	2.3	kW	T: 2 °C	CODI	5.24		
Degradation co-efficient (**)	Cdh	0.94	_	Tj = 2 ℃	COPd	5.34	_	
Tj = 7 ℃	Pdh	2.7	kW	T: 7.%	CODI	7.04		
Degradation co-efficient (**)	Cdh	0.94	_	Tj = 7 ℃	COPd	7.04	_	
Tj = 12°C	Pdh	2.6	kW	T: _ 12°C	COD4	6.00		
Degradation co-efficient (**)	Cdh	0.93	-	Tj = 12℃	COPd	6.90	_	
Tj = bivalent temperature	Pdh	3.4	kW	Tj = bivalent temperature	COPd	1.98	_	
Tj = operation limit temperature	Pdh	2.7	kW	Tj = operation limit temperature	COPd	1.58	_	
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{if TOL} < -20^{\circ})$	Pdh	3.4	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	COPd	1.98	_	
Bivalent temperature	Tbiv	-15	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$	
Civalina interval consolity for heating	David	NA	kW	Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	K W	Heating water operating limit temperature	WTOL	60	$^{\circ}$	
Power consumption in mod	des other tha	n active mod	le	Supplemen	ntary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	1.3	kW	
Thermostat-off mode	P_{TO}	0.025	kW					
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	$P_{\rm CK}$	0.025	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3200	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	42/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	\boldsymbol{Q}_{HE}	2674	kWh	rate, outdoor heat exchanger		IVA	111 3 /11	
		For	heat pump co	mbination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	82	%	
Daily electricity consumption	Qelec	6.277	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption Contact details:	AEC	1252	kWh	Annual fuel consumption	AFC	NA	GJ	
Via Oltre Ferrovia 32 - 33033 Codroip	oo (Ud)			Name of the supplier: RHOSS S.P.A				

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

	(heat p			requirements heat pump combination heaters)				
Model(s): MHAITI 106 / IUT 06	(I				-			
Air-to-water heat pump		Y		Low-temperature heat pump		N		
Water-to-water heat pump		N		Equipped with a supplementary heater	Y			
Brine-to-water heat pump		N		Heat pump combination heater		Y		
Parameters declared for				Low-temperature application				
Parameters declared for				Warmer climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	5	kW	Seasonal space heating energy efficiency	ηs	232	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = − 7 °C	Pdh	NA	kW					
Degradation co-efficient (**)	Cdh	NA	_	- Tj = − 7 °C	COPd	NA	_	
Tj = 2 ℃	Pdh	5.2	kW					
Degradation co-efficient (**)	Cdh	0.98	_	- Tj = 2 ℃	COPd	3.53	_	
Tj = 7 ℃	Pdh	3.3	kW	T: 7 %	CODI	5.57		
Degradation co-efficient (**)	Cdh	0.96	_	- Tj = 7 ℃	COPd	5.57	_	
Tj = 12℃	Pdh	2.9	kW	T: 12°C	CODI	7 .00		
Degradation co-efficient (**)	Cdh	0.93	_	- Tj = 12°C	COPd	7.60	_	
Tj = bivalent temperature	Pdh	5.2	kW	Tj = bivalent temperature	COPd	3.53	_	
Tj = operation limit temperature	Pdh	5.2	kW	Tj = operation limit temperature	COPd	3.53	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	_	
Bivalent temperature	Tbiv	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}$	
		27.		Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	$^{\circ}$	
Power consumption in mo	des other tha	n active mod	le	Supplementary heater				
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P _{TO}	0.025	kW					
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.025	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3200	m 3 /h	
Sound power level, indoors/outdoors	L _{wa}	42/62	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	Q _{HE}	1136	kWh	rate, outdoor heat exchanger		1,71	111 0 /11	
		For	heat pump co	ombination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	82	%	
Daily electricity consumption	Qelec	6.250	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	1246	kWh	Annual fuel consumption	AFC	NA	GJ	
Contact details: Via Oltre Ferrovia 32 - 33033 Codroi	po (Ud)			Name of the supplier: RHOSS S.P.A				

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.



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	(heat n			requirements neat pump combination heaters)			
Model(s): MHAITI 108 / IUT 10	(псат р	ump space i	- and i	teat pump combination neaters)			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary	Y		
Brine-to-water heat pump		N		heater Heat pump combination heater	Y		
Parameters declared for				Medium-temperature application			
Parameters declared for		I	1	Average climate condition	Ι	Ι	I
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	ηs	129	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = − 7 °C	Pdh	6.3	kW	Tj = − 7 °C	COPd	2.24	
Degradation co-efficient (**)	Cdh	0.99	-	IJ/ C	COPa	2.24	_
Tj = 2 ℃	Pdh	4.1	kW	Tj = 2 ℃	COPd	3.18	
Degradation co-efficient (**)	Cdh	0.98	-	1,1-2 C	COTU	3.16	
Tj = 7 ℃	Pdh	4.3	kW	Tj = 7 ℃	COPd	4.26	_
Degradation co-efficient (**)	Cdh	0.97	_	1j / C	COTU	4.20	
Tj = 12℃	Pdh	5.0	kW	Tj = 12℃	COPd	5.93	_
Degradation co-efficient (**)	Cdh	0.97	-	1, 120	Coru	3.55	
Tj = bivalent temperature	Pdh	6.3	kW	Tj = bivalent temperature	COPd	2.24	-
Tj = operation limit temperature	Pdh	6.3	kW	Tj = operation limit temperature	COPd	1.79	-
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	СОРсус	NA	-
Cycling interval capacity for heating	Teyen	IVA	K VV	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	le	Supplemen	ntary heater		
Off mode	$P_{\rm OFF}$	0.025	kW	Rated heat output (*)	Psup	0.7	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.025	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3300	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	42/67	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m ³ /h
Annual energy consumption	$\boldsymbol{Q}_{\text{HE}}$	4371	kWh	rate, outdoor heat exchanger		1111	
		For	heat pump co	mbination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	89	%
Daily electricity consumption	Qelec	5.632	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1152	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: Via Oltre Ferrovia 32 - 33033 Codroip	oo (Ud)			Name of the supplier: RHOSS S.P.A			

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

	(heat n			requirements neat pump combination heaters)			
Model(s): MHAITI 108 / IUT 10	(пеат р	ump space i	- arcis and i	teat pump combination neaters)			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	Y		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Medium-temperature application			
Parameters declared for				Colder climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	ηs	112	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = − 7 °C	Pdh	4.6	kW				
Degradation co-efficient (**)	Cdh	0.99	_	Tj = − 7 °C	COPd	2.64	_
Tj = 2 ℃	Pdh	3.3	kW	T: 2 °C	CODI	2.24	
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 2 ℃	COPd	3.24	_
Tj = 7 ℃	Pdh	4.2	kW	Ti = 7 ℃	COPd	4.76	
Degradation co-efficient (**)	Cdh	0.97	-	1) - / C	COPa	4.76	_
Tj = 12℃	Pdh	4.7	kW	Tj = 12℃	COPd	5.86	
Degradation co-efficient (**)	Cdh	0.97	_	1) - 12 C	СОРИ	3.80	_
Tj = bivalent temperature	Pdh	5.9	kW	Tj = bivalent temperature	COPd	1.77	_
Tj = operation limit temperature	Pdh	2.9	kW	Tj = operation limit temperature	COPd	1.26	_
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	5.9	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	COPd	1.77	_
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$
Cooling internal consists for booking	Dl-	NIA	1-337	Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	le	Supplemen	ntary heater		
Off mode	$P_{\rm OFF}$	0.025	kW	Rated heat output (*)	Psup	4.1	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.025	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3300	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	42/67	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h
Annual energy consumption	\boldsymbol{Q}_{HE}	5982	kWh	rate, outdoor heat exchanger		NA .	III - /II
		For	heat pump co	mbination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	78	%
Daily electricity consumption	Qelec	6.401	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption Contact details:	AEC	1314	kWh	Annual fuel consumption Name of the supplier:	AFC	NA	GJ
Via Oltre Ferrovia 32 - 33033 Codroip	oo (Ud)			RHOSS S.P.A	sign load for		

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

	(heat n			requirements neat pump combination heaters)			
Model(s): MHAITI 108 / IUT 10	(пеат р	ump space i	- arcis and i	teat pump combination neaters)			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	Y		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Medium-temperature application	<u> </u>		
Parameters declared for				Warmer climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	ηs	159	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = − 7 °C	Pdh	NA	kW				
Degradation co-efficient (**)	Cdh	NA	_	Tj = − 7 °C	COPd	NA	_
Tj = 2 ℃	Pdh	8.1	kW	T: 0.00	CODI	2.52	
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 ℃	COPd	2.52	_
Tj = 7 ℃	Pdh	5.3	kW	T: 7.00	CODI	2.20	
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 7 ℃	COPd	3.38	_
Tj = 12℃	Pdh	5.2	kW	T: 12°C	CODI	5.40	
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 12℃	COPd	5.42	_
Tj = bivalent temperature	Pdh	8.1	kW	Tj = bivalent temperature	COPd	2.52	-
Tj = operation limit temperature	Pdh	8.1	kW	Tj = operation limit temperature	COPd	2.52	_
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{if TOL} < -20^{\circ})$	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C \text{ (if TOL} < -20^{\circ}C \text{)}$	COPd	NA	_
Bivalent temperature	Tbiv	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}$
	D 1	NIA	1.007	Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	le	Supplemer	ntary heater		
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.025	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	42/67	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m ³ /h
Annual energy consumption	\boldsymbol{Q}_{HE}	2645	kWh	rate, outdoor heat exchanger		NA .	111 /11
		For	heat pump co	ombination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	110	%
Daily electricity consumption	Qelec	4.574	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	933	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: Via Oltre Ferrovia 32 - 33033 Codroip	oo (Ud)			Name of the supplier: RHOSS S.P.A			

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

	(heat n			requirements neat pump combination heaters)			
Model(s): MHAITI 108 / IUT 10	(пеат р	ump space i	- arcis and i	teat pump combination neaters)			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	Y		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Low-temperature application	<u> </u>		
Parameters declared for			-	Average climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	ηs	181	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = − 7 °C	Pdh	6.2	kW				
Degradation co-efficient (**)	Cdh	0.99	-	Tj = − 7 °C	COPd	2.94	_
Tj = 2 ℃	Pdh	3.9	kW	T: 0 %	CODI	4.20	
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 2 ℃	COPd	4.39	_
Tj = 7 ℃	Pdh	3.0	kW	T: 7 %	CODI	6.20	
Degradation co-efficient (**)	Cdh	0.95	_	Tj = 7 ℃	COPd	6.29	_
Tj = 12℃	Pdh	3.6	kW	T: _ 12°C	COD4	0.42	
Degradation co-efficient (**)	Cdh	0.94	_	Tj = 12℃	COPd	8.43	_
Tj = bivalent temperature	Pdh	6.2	kW	Tj = bivalent temperature	COPd	2.94	_
Tj = operation limit temperature	Pdh	5.9	kW	Tj = operation limit temperature	COPd	2.69	_
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	COPd	NA	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$
Cooling internal consists for booking	Dl-	NA	kW	Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	INA	K VV	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	le	Supplemer	ntary heater		
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	1.1	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.025	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3300	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	42/67	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m ³ /h
Annual energy consumption	\boldsymbol{Q}_{HE}	3149	kWh	rate, outdoor heat exchanger		117	, iii /ii
		For	heat pump co	mbination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	89	%
Daily electricity consumption	Qelec	5.632	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption Contact details:	AEC	1152	kWh	Annual fuel consumption Name of the supplier:	AFC	NA	GJ
Via Oltre Ferrovia 32 - 33033 Codroip	oo (Ud)			RHOSS S.P.A	sign load for		

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

	(heat n			requirements neat pump combination heaters)			
Model(s): MHAITI 108 / IUT 10	(пеат р	ump space i	- arcis and i	teat pump combination neaters)			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	Y		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Low-temperature application	<u> </u>		
Parameters declared for			-	Colder climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	ηs	146	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = − 7 °C	Pdh	4.5	kW				
Degradation co-efficient (**)	Cdh	0.98	_	Tj = − 7 °C	COPd	3.26	_
Tj = 2 ℃	Pdh	3.3	kW	T: 0 %	CODI	1.26	
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 2 ℃	COPd	4.26	_
Tj = 7 ℃	Pdh	4.3	kW	T: 7.00	gon.	6.04	
Degradation co-efficient (**)	Cdh	0.96	-	Tj = 7 ℃	COPd	6.04	_
Tj = 12℃	Pdh	4.9	kW	T: 12°C	CODI	7.26	
Degradation co-efficient (**)	Cdh	0.96	-	Tj = 12℃	COPd	7.26	_
Tj = bivalent temperature	Pdh	5.8	kW	Tj = bivalent temperature	COPd	2.63	-
Tj = operation limit temperature	Pdh	4.5	kW	Tj = operation limit temperature	COPd	1.52	_
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{if TOL} < -20^{\circ})$	Pdh	5.8	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	2.63	_
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$
	D 1	NIA	1 337	Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	le	Supplemer	ntary heater		
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	2.5	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.025	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3300	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	42/67	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m ³ /h
Annual energy consumption	\boldsymbol{Q}_{HE}	4628	kWh	rate, outdoor heat exchanger		NA .	111 /11
		For	heat pump co	mbination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	78	%
Daily electricity consumption	Qelec	6.401	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption Contact details:	AEC	1314	kWh	Annual fuel consumption Name of the supplier:	AFC	NA	GJ
Via Oltre Ferrovia 32 - 33033 Codroip	oo (Ud)			RHOSS S.P.A			

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

	(heat p			requirements heat pump combination heaters)				
Model(s): MHAITI 108 / IUT 10	(I	F -1						
Air-to-water heat pump		Y		Low-temperature heat pump		N		
Water-to-water heat pump		N		Equipped with a supplementary heater		Y		
Brine-to-water heat pump		N Heat pump combination heater					Y	
Parameters declared for				Low-temperature application				
Parameters declared for				Warmer climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	ης	217	%	
Declared capacity for heating for part		or temperatu	re 20 °C and	Declared coefficient of performance of				
outdoor tem		37.1		indoor temperature 20 °C a	and outdoor t	emperature 7	ſj	
Tj = −7 °C	Pdh	NA	kW	- Tj = − 7 °C	COPd	NA	_	
Degradation co-efficient (**) $Ti = 2 ^{\circ}C$	Cdh Pdh	NA 8.2	kW					
Degradation co-efficient (**)	Cdh	0.99	KW -	- Tj = 2 ℃	COPd	3.58	_	
$T_{j} = 7 \text{C}$	Pdh	5.4	kW					
Degradation co-efficient (**)	Cdh	0.98	K W	- Tj = 7 ℃	COPd	4.84	_	
$T_i = 12^{\circ}C$	Pdh	5.1	kW					
Degradation co-efficient (**)	Cdh	0.96	_ K VV	- Tj = 12℃	COPd	7.08	_	
Tj = bivalent temperature	Pdh	8.2	kW	Tj = bivalent temperature	COPd	3.58	_	
Tj = operation limit temperature	Pdh	8.2	kW	Tj = operation limit temperature	COPd	3.58	_	
For air-to-water heat pumps: $Tj = -15^{\circ}$ (if $TOL < -20^{\circ}$)	Pdh	NA	kW	For air-to-water heat pumps: $T_i = -15^{\circ}C$ (if TOL $< -20^{\circ}C$)	COPd	NA	_	
Bivalent temperature	Tbiv	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}$	
				Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	$^{\circ}$	
Power consumption in mo	des other tha	n active mod	le	Supplemen	ntary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P _{TO}	0.025	kW					
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.025	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m ³ /h	
Sound power level, indoors/outdoors	L_{WA}	42/67	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	1947	kWh	rate, outdoor heat exchanger		14/4	111 - /11	
		For l	heat pump co	ombination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	110	%	
Daily electricity consumption	Qelec	4.574	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption	AEC	933	kWh	Annual fuel consumption	AFC	NA	GJ	
Contact details: Via Oltre Ferrovia 32 - 33033 Codroi	oo (Ud)			Name of the supplier: RHOSS S.P.A				

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.



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	(heat n			requirements neat pump combination heaters)				
Model(s): MHAITI 110 / IUT 10	(пеат р	ump space n		near pump combination neaters)				
Air-to-water heat pump		Y		Low-temperature heat pump		N		
Water-to-water heat pump		N		Equipped with a supplementary	Y			
Brine-to-water heat pump		N		heater Heat pump combination heater	Y			
Parameters declared for				Medium-temperature application				
Parameters declared for								
	1.1	1	.,	Average climate condition		1	.,	
Item	symbol	value	unit	Item Seasonal space heating energy	symbol	value	unit	
Rated heat output (*)	Prated	8	kW	efficiency	ηs	127	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
Tj = − 7 °C	Pdh	6.9	kW	Tj=-7 ℃	COPd	2.12	_	
Degradation co-efficient (**)	Cdh	0.99	-	1J=-7 C	СОРИ	2.12	_	
Tj = 2 ℃	Pdh	4.2	kW	Tj = 2 °C	COPd	3.09		
Degradation co-efficient (**)	Cdh	0.98	_	1j 2 C	Coru	3.07		
Tj = 7 ℃	Pdh	4.3	kW	Ti = 7 °C	COPd	4.34	_	
Degradation co-efficient (**)	Cdh	0.97	_	IJ / C	COTU	7.57		
Tj = 12°C	Pdh	4.9	kW	Tj = 12℃	COPd	5.91	_	
Degradation co-efficient (**)	Cdh	0.97	-	15 12 0	Coru	3.71		
Tj = bivalent temperature	Pdh	6.9	kW	Tj = bivalent temperature	COPd	2.12	_	
Tj = operation limit temperature	Pdh	6.8	kW	Tj = operation limit temperature	COPd	1.75	-	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	-	
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$	
Cycling interval capacity for heating	David	NA	kW	Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	INA	K VV	Heating water operating limit temperature	WTOL	60	$^{\circ}$	
Power consumption in mo	des other tha	n active mod	le	Supplemer	ntary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	1.2	kW	
Thermostat-off mode	P_{TO}	0.025	kW					
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric		
Crankcase heater mode	P _{CK}	0.025	kW					
Other	items		-					
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m ³ /h	
Sound power level, indoors/outdoors	L_{WA}	42/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	\boldsymbol{Q}_{HE}	5091	kWh	rate, outdoor heat exchanger			,11	
		For	heat pump co	ombination heater:				
Declared load profile		L		Water heating energy efficiency	ηwh	89	%	
Daily electricity consumption	Qelec	5.632	kWh	Daily fuel consumption	Qfuel	NA	kWh	
Annual electricity consumption Contact details:	AEC	1152	kWh	Annual fuel consumption Name of the supplier:	AFC	NA	GJ	
Via Oltre Ferrovia 32 - 33033 Codroip	oo (Ud)			RHOSS S.P.A				

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

	(heat n			requirements neat pump combination heaters)			
Model(s): MHAITI 110 / IUT 10	(пеат р	ump space i	- arcis and i	teat pump combination neaters)			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	Y		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for		,		Medium-temperature application		,	
Parameters declared for				Colder climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	ηs	110	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = − 7 °C	Pdh	5.3	kW				
Degradation co-efficient (**)	Cdh	0.99	_	Tj = − 7 °C	COPd	2.42	_
Tj = 2 ℃	Pdh	3.1	kW	T: 0.00	CODI	2.22	
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 2 ℃	COPd	3.23	_
Tj = 7 ℃	Pdh	4.2	kW	T: 7.00	gon.	4.50	
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 7 °C	COPd	4.78	_
Tj = 12℃	Pdh	4.8	kW	m; 1200			
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 12℃	COPd	5.91	_
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.83	-
Tj = operation limit temperature	Pdh	3.3	kW	Tj = operation limit temperature	COPd	1.22	-
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{if TOL} < -20^{\circ})$	Pdh	6.7	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C \text{ (if TOL} < -20^{\circ}C \text{)}$	COPd	1.83	_
Bivalent temperature	Tbiv	-15	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$
	D 1	NIA	1.007	Cycling interval efficiency	COPcyc	NA	-
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	${\mathbb C}$
Power consumption in mod	des other tha	n active mod	le	Supplemer	ntary heater		
Off mode	$P_{\rm OFF}$	0.025	kW	Rated heat output (*)	Psup	4.7	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	$P_{\scriptscriptstyle SB}$	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.025	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	42/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m ³ /h
Annual energy consumption	\boldsymbol{Q}_{HE}	6985	kWh	rate, outdoor heat exchanger		IVA	111 /11
		For	heat pump co	ombination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	78	%
Daily electricity consumption	Qelec	6.401	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1314	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: Via Oltre Ferrovia 32 - 33033 Codroip	oo (Ud)			Name of the supplier: RHOSS S.P.A	sign load for		

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

	(heat n			requirements neat pump combination heaters)			
Model(s): MHAITI 110 / IUT 10	(пеат р	ump space i	- arcis and i	teat pump combination neaters)			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	Y		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Medium-temperature application	<u> </u>		
Parameters declared for				Warmer climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	ηs	161	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = − 7 °C	Pdh	NA	kW				
Degradation co-efficient (**)	Cdh	NA	_	Tj = − 7 °C	COPd	NA	_
Tj = 2 ℃	Pdh	9.0	kW	T: 0.00	CODI	2.40	
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 ℃	COPd	2.48	_
Tj = 7 ℃	Pdh	5.9	kW	T: 7.00	CODI	2.56	
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 7 °C	COPd	3.56	_
Tj = 12℃	Pdh	5.2	kW	T: 12°C	CODI	5.20	
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 12℃	COPd	5.30	_
Tj = bivalent temperature	Pdh	9.0	kW	Tj = bivalent temperature	COPd	2.48	-
Tj = operation limit temperature	Pdh	9.0	kW	Tj = operation limit temperature	COPd	2.48	-
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{if TOL} < -20^{\circ})$	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C \text{ (if TOL} < -20^{\circ}C \text{)}$	COPd	NA	_
Bivalent temperature	Tbiv	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}$
	D 1	NIA	1.007	Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	le	Supplemer	ntary heater		
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.025	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	42/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m ³ /h
Annual energy consumption	\boldsymbol{Q}_{HE}	2927	kWh	rate, outdoor heat exchanger		11/21	111 /11
		For	heat pump co	ombination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	110	%
Daily electricity consumption	Qelec	4.574	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption Contact details:	AEC	933	kWh	Annual fuel consumption Name of the supplier:	AFC	NA	GJ
Via Oltre Ferrovia 32 - 33033 Codroip	oo (Ud)			RHOSS S.P.A			

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

	(heat n			requirements neat pump combination heaters)			
Model(s): MHAITI 110 / IUT 10	(пеат р	ump space n	- arcis and i	teat pump combination neaters)			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	Y		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Low-temperature application	<u> </u>		
Parameters declared for				Average climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	ηs	181	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = − 7 °C	Pdh	7.7	kW				
Degradation co-efficient (**)	Cdh	0.99	_	Tj = − 7 °C	COPd	2.87	_
Tj = 2 ℃	Pdh	4.8	kW	T: 0 %	CODI	4.24	
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 2 ℃	COPd	4.34	_
Tj = 7 ℃	Pdh	3.1	kW	T: 7 %	CODI	6.50	
Degradation co-efficient (**)	Cdh	0.95	_	Tj = 7 °C	COPd	6.58	_
Tj = 12°C	Pdh	3.7	kW	T: 12°C	CODI	0.27	
Degradation co-efficient (**)	Cdh	0.94	_	Tj = 12℃	COPd	8.37	_
Tj = bivalent temperature	Pdh	7.7	kW	Tj = bivalent temperature	COPd	2.87	_
Tj = operation limit temperature	Pdh	7.1	kW	Tj = operation limit temperature	COPd	2.59	_
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	COPd	NA	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	$^{\circ}$
Cooling internal consists for booking	Dl-	NA	kW	Cycling interval efficiency	COPcyc	NA	-
Cycling interval capacity for heating	Pcych	INA	K VV	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	le	Supplemer	ntary heater		
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	1.9	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.025	kW			,	
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	3300	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	42/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m ³ /h
Annual energy consumption	$\boldsymbol{Q}_{\text{HE}}$	4038	kWh	rate, outdoor heat exchanger		1171	111 /11
		For l	heat pump co	ombination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	89	%
Daily electricity consumption	Qelec	5.632	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1152	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: Via Oltre Ferrovia 32 - 33033 Codroip	oo (Ud)			Name of the supplier: RHOSS S.P.A			

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

	(heat n			requirements neat pump combination heaters)			
Model(s): MHAITI 110 / IUT 10	(пеат р	ump space n		near pump combination neaters)			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary	Y		
Brine-to-water heat pump		N		heater Heat pump combination heater	Y		
Parameters declared for			-	Low-temperature application			
Parameters declared for			-				
				Colder climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	ηs	149	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = − 7 °C	Pdh	5.2	kW	Tj=-7 ℃	COPd	3.25	
Degradation co-efficient (**)	Cdh	0.98	-	1) == / C	СОРИ	3.23	_
Tj = 2 ℃	Pdh	3.2	kW	Tj = 2 ℃	COPd	4.31	_
Degradation co-efficient (**)	Cdh	0.97	_	1j 2 C	Coru	7.31	
Tj = 7 ℃	Pdh	4.3	kW	Tj = 7 ℃	COPd	6.11	_
Degradation co-efficient (**)	Cdh	0.96	_	1j / C	COTU	0.11	
Tj = 12°C	Pdh	4.9	kW	Tj = 12℃	COPd	7.30	_
Degradation co-efficient (**)	Cdh	0.96	-	15 12 0	Coru	7.50	
Tj = bivalent temperature	Pdh	6.4	kW	Tj = bivalent temperature	COPd	2.69	_
Tj = operation limit temperature	Pdh	5.6	kW	Tj = operation limit temperature	COPd	1.67	-
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	6.4	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	2.69	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	$^{\circ}$
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Feyen	INA	K VV	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	le	Supplemen	ntary heater		
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	2.4	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0.025	kW				
Other	items		-				
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	42/68	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m ³ /h
Annual energy consumption	\boldsymbol{Q}_{HE}	5201	kWh	rate, outdoor heat exchanger		11/21	111 /11
		For	heat pump co	ombination heater:			
Declared load profile		L		Water heating energy efficiency	ηwh	78	%
Daily electricity consumption	Qelec	6.401	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1314	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: Via Oltre Ferrovia 32 - 33033 Codroip	oo (Ud)			Name of the supplier: RHOSS S.P.A			

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

	(heat p			requirements heat pump combination heaters)			
Model(s): MHAITI 110 / IUT 10							
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	Y		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Low-temperature application			
Parameters declared for				Warmer climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	ηs	217	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = − 7 °C	Pdh	NA	kW	maoor temperature 20°C t	ina outaoor t	emperature	.)
Degradation co-efficient (**)	Cdh	NA	_	Tj = −7 °C	COPd	NA	_
Tj = 2 ℃	Pdh	8.8	kW				
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 2 °C	COPd	3.15	_
Tj = 7 ℃	Pdh	5.8	kW				
Degradation co-efficient (**)	Cdh	0.98	_	- Tj = 7 ℃	COPd	4.86	_
Tj = 12℃	Pdh	5.1	kW				
Degradation co-efficient (**)	Cdh	0.96	_	Tj = 12°C	COPd	7.18	_
Tj = bivalent temperature	Pdh	8.8	kW	Tj = bivalent temperature	COPd	3.15	-
Tj = operation limit temperature	Pdh	8.8	kW	Tj = operation limit temperature	COPd	3.15	_
For air-to-water heat pumps: Tj = -15	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	_
Bivalent temperature	Tbiv	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	2	$^{\circ}$ C
				Cycling interval efficiency	COPcyc	NA	-
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mo-	des other tha	n active mod	le	Supplemen	itary heater		
Off mode	$P_{\rm OFF}$	0.025	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.025	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.025	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	3300	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	42/68	dB	For water- or brine-to-water heat		NIA	m ³ /h
Annual energy consumption	Q_{HE}	2183	kWh	pumps: Rated brine or water flow rate, outdoor heat exchanger	_	NA	in - /n
		For l	heat pump co	ombination heater:			•
Declared load profile		L		Water heating energy efficiency	ηwh	110	%
Daily electricity consumption	Qelec	4.574	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	933	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: Via Oltre Ferrovia 32 - 33033 Codroi	oo (Ud)			Name of the supplier: RHOSS S.P.A	1		1

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.



ITALIANO	ENGLISH	FRANCAIS	DEUTSCH	ESPANOL
MODELLO: Pompa di calore Aria-Acqua	MODEL Air to Water heat pump	MODÈLE(S) Pompes à chaleur air-eau	MODELL(E) Luft-Wasser-Wärmepumpe	MODELOS Bomba de calor aire-agua
Pompa di calore Acqua-	Water to Water heat pump	Pompes à chaleur eau-eau	Wasser-Wasser-Wärmepumpe	Bomba de calor agua-agua
Acqua Pompa di calore Acqua glicolata-Acqua	Brine to Water heat pump	Pompe à chaleur eau glycolée- eau	Sole-Wasser-Wärmepumpe	Bomba de calor salmuera- agua
Pompa di calore a Bassa Temperatura	Low temperature heat pump	Pompes à chaleur basse température	Niedertemperatur-Wärmepumpe	Bomba de calor de baja temperatura
Equipaggiata con riscaldatore	Equipped with supplemetary	Équipée d'un dispositif de	Mit Zusatzheizgerät	Equipado con un calefactor
supplementare	heater Heat pump combination	chauffage d'appoint Dispositif de chauffage mixte par		complementario Calefactor combinado con
Pompa di calore Mista	heater	pompe à chaleur	Kombiheizgerät mit Wärmepumpe	bomba de calor
Elemento	Item	Caractéristique	Angabe	Elemento
Simbolo Clima	Symbol Climate	Symbole Conditions climatiques	Symbol Klimaverhältnisse	Símbolo Condiciones climáticas
Valore	Value	Valeur	Wert	Valor
Unità	Unit	Unité	Einheit	Unidad
Potenza termica nominale	Rated heat output	Puissance thermique nominale	Wärmenennleistung	Potencia calorífica nominal
Capacità di riscaldamento dichiarata a carico parziale,	Declared capacity for heating for part load at	Puissance calorifique déclarée à charge partielle pour une	Angegebene Leistung für Teillast bei	Capacidad de calefacción declarada para una carga
con temperatura interna pari a 20 °C e temperatura esterna	indoor temperature 20 °C	température intérieure de 20 C	Raumlufttemperatur 20 C und Außenlufttemperatur Tj	parcial a una temperatura interior de 20 C y una
	and outdoor temperature T j	et une température extérieure Tj	, ,	temperatura exterior Tj
T j = temperatura bivalente T j = temperatura limite di	T j = bivalent temperature T j = operation limit	Tj = température bivalente Tj = température limite de	Tj = Bivalenztemperatur	Tj = temperatura bivalente Tj = temperatura límite de
esercizio	temperature	fonctionnement	Tj=Betriebstemperaturgrenzwert	funcionamiento
Temperatura bivalente Ciclicità degli intervalli di	Bivalent temperature Cycling interval capacity for	Température bivalente Puissance calorifique sur un	Bivalenztemperatur Leistung bei zyklischem Intervall-	Temperatura bivalente Eficiencia del intervalo cíclico
capacità per il riscaldamento Coefficiente di degradazione	heating Degradation co-efficient	intervalle cyclique Coefficient de dégradation	Heizbetrieb Minderungsfaktor	para calefacción Coeficiente de degradación
Consumo energetico in modi	Power consumption in	Consommation d'électricité dans	Stromverbrauch in anderen Betriebsarten	Consumo de electricidad en
diversi dal modo attivo	modes other than active mode	les modes autres que le mode actif	als dem Betriebszustand	modos distintos del activo
Modo spento	Off mode	Mode arrêt	Aus-Zustand	Modo desactivado Modo desactivado por
Modo termostato spento	Thermostat-off mode	Mode arrêt par thermostat	Thermostat-aus-Zustand	termostato
Modo stand-by Modo riscaldamento del	Standby mode	Mode veille	Bereitschaftszustand Betriebszustand mit	Modo de espera Modo de calentador del
carter	Crankcase heater mode	Mode résistance de carter active	Kurbelgehäuseheizung	cárter
Altri elementi Controllo della capacità	Other items Capacity control	Autres caractéristiques Régulation de la puissance	Sonstige Elemente Leistungssteuerung	Otros elementos Control de capacidad
Livello della potenza sonora, all'interno/all'esterno	Sound power level, indoors/ outdoors	Niveau de puissance acoustique, à l'intérieur/à l'extérieur	Schallleistungspegel, innen/außen	Nivel de potencia acústica (interior/exterior)
fisso/variabile	fixed/variable	fixe/variable	fest/veränderlich	fijo/variable
Efficienza energetica	Seasonal space heating	Efficacité énergétique	Jahreszeitbedingte Raumheizungs-	Eficiencia energética
stagionale del riscaldamento d'ambiente	energy efficiency	saisonnière pour le chauffage des locaux	Energieeffizienz	estacional de calefacción
Coefficiente di prestazione dichiarato o indice di energia	Declared coefficient of performance or primary	Coefficient de performance déclaré ou coefficient sur	Angegebene Leistungszahl oder Heizzahl	Coeficiente de rendimiento declarado o factor energético
primaria per carico parziale, con temperatura interna pari a	energy ratio for part load at	énergie primaire déclaré à charge partielle pour une	für Teillast bei Raumlufttemperatur 20 °C	primario para una carga parcial a una temperatura
20 °C e temperatura esterna Ti	indoor temperature 20 °C and outdoor temperature T j	température intérieure de 20 °C et une température extérieure Tj	und Außenlufttemperatur Tj	interior de 20 °C y una temperatura exterior Tj
T j = temperatura limite di esercizio	T j = bivalent temperature	T_j = température bivalente	T_j = Bivalenztemperatur	T_j = temperatura bivalente
Per le pompe di calore aria/ acqua: temperatura limite di	T j = operation limit	T _j = température limite de	T _i = Betriebstemperaturgrenzwert	T _j = temperatura límite de
esercizio	temperature	fonctionnement Pour les pompes à chaleur air-	, ,	funcionamiento Para bombas de calor aire-
Efficienza della ciclicità degli intervalli	For air-to-water heat pumps: Operation limit temperature	eau: température limite de fonctionnement	Für Luft-Wasser-Wärmepumpen: Betriebsgrenzwert-Temperatur	agua: Temperatura límite de funcionamiento
Temperatura limite di esercizio di riscaldamento dell'acqua	Cycling interval efficiency	Efficacité sur un intervalle cyclique	Leistungszahl bei zyklischem Intervallbetrieb	Eficiencia del intervalo cíclico
T j = temperatura limite di esercizio	For air-to-water heat pumps: Operation limit temperature	Température maximale de service de l'eau de chauffage	Grenzwert der Betriebstemperatur des Heizwassers	Temperatura límite de calentamiento de agua
Per le pompe di calore aria/ acqua: portata d'aria,	For air-to-water heat pumps: Rated air flow rate, outdoors	Pour les pompes à chaleur air- eau: débit d'air nominal, à	Für Luft-Wasser-Wärmepumpen: Nenn- Luftdurchsatz, außen	Para bombas de calor aire- agua: Caudal de aire
all'esterno Per le pompe di calore	rated an now rate, outdoors	l'extérieur	Landaronouz, duberr	nominal (exterior) Para bombas de calor
acqua/acqua e	For water-/brine-to-water	Pour les pompes à chaleur eau- eau ou eau glycolée-eau: débit	Für Wasser/Cole Wasser Wärmenumnen	agua/salmuera a agua:
salamoia/acqua: flusso di salamoia o acqua nominale,	heat pumps: Rated brine or water flow rate, outdoor heat	nominal d'eau glycolée ou d'eau, échangeur thermique	Für Wasser/Sole-Wasser-Wärmepumpen: Wasser- oder Sole-Nenndurchsatz	Caudal de salmuera o de agua nominal,
scambiatore di calore all'esterno	exchanger	extérieur		intercambiador de calor de exterior
	(*) Variable outlet	(*) Sartia variable de		(*) Variable de temperature
(*) Temperatura d'uscita variabile	(*) Variable outlet temperature	(*) Sortie variable de tempèrature	(*) Temperatur variable Ausgangs	(*) Variable de temperatura de salida
Più Freddo	Colder	Plus froides	kälter	Mas frias
Medio	Average	Moyennes	durchshnittl	media
Più caldo	Warmer	Plus chaudes	wärmer	Mas calida
Consumo energetico annuo	Annual energy consumption	Consommation annuelle d'énergie	Jährlichen Energieverbrauch	Consumo anual de energía
Classe di efficienza energetica	Energy efficiency classes	Clases de eficiencia energética	Classes d'efficacité énergétique	Energieeffizienzklassen
Chergenod	ı		I	1