	(heat p			requirements neat pump combination heaters)			
Model(s): THAITI 106 M P0							
Air-to-water heat pump		Y		Low-temperature heat pump	N		
Water-to-water heat pump		N		Equipped with a supplementary heater	N		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Medium-temperature application			
Parameters declared for				Average climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	ηs	126	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
$T_j = -7 ^{\circ}\mathbb{C}$	Pdh	5.2	kW	muoor temperature 20°C a	and outdoor t	emperature	
Degradation co-efficient (**)	Cdh	0.99	_	Tj = -7 °C	COPd	1.96	_
Tj = 2 °C	Pdh	6.0	kW				
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 2 ℃	COPd	3.10	_
Ti = 7 ℃	Pdh	6.0	kW				
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 7 ℃	COPd	4.34	_
Tj = 12°C	Pdh	6.0	kW				
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 12℃	COPd	6.82	_
Tj = bivalent temperature	Pdh	5.2	kW	Tj = bivalent temperature	COPd	1.96	_
Tj = operation limit temperature	Pdh	6.0	kW	Tj = operation limit temperature	COPd	2.07	_
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL} < -20^{\circ}\mathbb{C} \text{)}$	COPd	NA	-
Bivalent temperature	Tbiv	-7	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$
				Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C
Power consumption in mo	des other tha	n active mod	le	Supplemen	ntary heater		
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{TO}	0.018	kW				
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.000	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2600	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h
Annual energy consumption	Q_{HE}	3846	kWh	rate, outdoor heat exchanger		11/1	5 /11
Contact details: Via Oltre Ferrovia 33 - 33033 Codro	oipo (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 leat pump combination heaters)				
Model(s): THAITI 106 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
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	6	kW	Seasonal space heating energy efficiency	ηs	105	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and		nance or primary energy ratio for part load 20 °C and outdoor temperature Tj			
$Tj = -7 ^{\circ}\mathbb{C}$	Pdh	6.0	kW	T: 7 %	COD4	2.10		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = −7 °C	COPd	2.10	_	
Tj = 2 ℃	Pdh	6.0	kW	T: - 2 °C	COPd	2.20		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 ℃	COPa	3.30	_	
Tj = 7 ℃	Pdh	6.12	kW	Tj = 7 ℃	COD4	4.77		
Degradation co-efficient (**)	Cdh	0.99	_	IJ = / C	COPd	4.//	_	
Tj = 12℃	Pdh	6.12	kW	T: _ 10°C	COD4	7.20		
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 12℃	COPd	7.30	_	
Tj = bivalent temperature	Pdh	5.2	kW	Tj = bivalent temperature	COPd	1.96	_	
Tj = operation limit temperature	Pdh	6.0	kW	Tj = operation limit temperature	COPd	1.53	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	5.2	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	COPd	1.96	_	
Bivalent temperature	Tbiv	-15	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				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	Supplemen	ntary heater			
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P_{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	2600	m 3 /h	
Sound power level, indoors/outdoors	L_{wa}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	4540	kWh	rate, outdoor heat exchanger	_	14/4	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 33033 Codre	oipo (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 leat pump combination heaters)				
Model(s): THAITI 106 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater		N		
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Medium-temperature application	,			
Parameters declared for				Warmer climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	ηs	156	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and		nce or primary energy ratio for part loa OC and outdoor temperature Tj			
Tj = − 7 °C	Pdh	NA	kW	T: _ 7 %	COD4	NT A		
Degradation co-efficient (**)	Cdh	NA	-	Tj = −7 °C	COPd	NA	_	
Tj = 2 ℃	Pdh	6.8	kW	T: _ 2 °C	COD4	2.20		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 ℃	COPd	2.30	_	
Tj = 7 ℃	Pdh	6.0	kW	T: _ 7 °C	COD4	3.04		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 7 ℃	COPd	3.04	_	
Tj = 12℃	Pdh	6.0	kW	Tj = 12℃	COPd	5.80		
Degradation co-efficient (**)	Cdh	0.98	-	1j = 12 C	COPa	5.80	_	
Tj = bivalent temperature	Pdh	6.8	kW	Tj = bivalent temperature	COPd	2.30	_	
$Tj = operation \ limit \ temperature$	Pdh	6.8	kW	Tj = operation limit temperature	COPd	2.30	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15 ^{\circ}\mathbb{C} (\text{if TOL} < -20 ^{\circ}\mathbb{C})$	COPd	NA	_	
Bivalent temperature	Tbiv	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				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}	0.018	kW	Rated heat output (*)	Psup	0.2	kW	
Thermostat-off mode	P _{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2600	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	2359	kWh	rate, outdoor heat exchanger	_	INA	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 33033 Codro	oipo (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 neat pump combination heaters)			
Model(s): THAITI 106 M P0							
Air-to-water heat pump		Y		Low-temperature heat pump	N		
Water-to-water heat pump		N		Equipped with a supplementary heater	N		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Low-temperature application			
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	185	%
Declared capacity for heating for part		or temperatu	re 20 °C and	Declared coefficient of performance of			
outdoor tem $Tj = -7 ^{\circ}\mathbb{C}$	Pdh	4.2	kW	indoor temperature 20 °C a	and outdoor t	emperature	J
				Tj = −7 °C	COPd	3.12	_
Degradation co-efficient (**)	Cdh	0.99	1-337				
Tj = 2 °C	Pdh	4.0	kW	$Tj = 2 \degree C$	COPd	4.50	_
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = 7 °C	Pdh	4.4	kW	Tj = 7 ℃	COPd	6.60	_
Degradation co-efficient (**)	Cdh	0.97					
Tj = 12℃	Pdh	5.5	kW	Tj = 12℃	COPd	8.50	_
Degradation co-efficient (**)	Cdh	0.97	_				
Tj = bivalent temperature	Pdh	4.2	kW	Tj = bivalent temperature	COPd	3.12	_
Tj = operation limit temperature	Pdh	4.9	kW	Tj = operation limit temperature	COPd	2.50	-
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	-25	°C
				Cycling interval efficiency	СОРсус	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	e	Supplemen	ntary heater		
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0.1	kW
Thermostat-off mode	P _{TO}	0.018	kW				
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.010	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	2600	m 3 /h
Sound power level, indoors/outdoors	L_{w_A}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h
Annual energy consumption	Q_{HE}	2195	kWh	rate, outdoor heat exchanger	_	INA	111 3 /11
Contact details: Via Oltre Ferrovia 33 - 33033 Codro	oipo (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 neat pump combination heaters)			
Model(s): THAITI 106 M P0							
Air-to-water heat pump		Y		Low-temperature heat pump	N		
Water-to-water heat pump		N		Equipped with a supplementary heater	N		
Brine-to-water heat pump		N		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	5	kW	Seasonal space heating energy efficiency	ηs	144	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
$T_j = -7 ^{\circ}\mathbb{C}$	Pdh	3.7	kW	muoor temperature 20°C a	and outdoor t	emperature	
Degradation co-efficient (**)	Cdh	0.98	_	Tj = -7 °C	COPd	3.10	_
Tj = 2 °C	Pdh	3.6	kW				
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 2 ℃	COPd	4.30	_
Ti = 7 ℃	Pdh	4.5	kW				
Degradation co-efficient (**)	Cdh	0.97	_	Tj = 7 ℃	COPd	6.20	_
Tj = 12°C	Pdh	5.6	kW				
Degradation co-efficient (**)	Cdh	0.97	_	Tj = 12℃	COPd	8.50	_
Tj = bivalent temperature	Pdh	4.0	kW	Tj = bivalent temperature	COPd	2.30	_
Tj = operation limit temperature	Pdh	4.2	kW	Tj = operation limit temperature	COPd	2.10	_
For air-to-water heat pumps: $Tj = -15 \degree \text{C} \text{ (if TOL} < -20 \degree \text{C} \text{)}$	Pdh	4.0	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL} < -20^{\circ}\mathbb{C} \text{)}$	COPd	2.30	_
Bivalent temperature	Tbiv	-15	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$
				Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C
Power consumption in mo	des other tha	n active mod	le	Supplemen	ntary heater		
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0.8	kW
Thermostat-off mode	P _{TO}	0.018	kW				
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.000	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2600	m 3 /h
Sound power level, indoors/outdoors	L _{wA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h
Annual energy consumption	Q_{HE}	2862	kWh	rate, outdoor heat exchanger		- 12.2	
Contact details: Via Oltre Ferrovia 33 - 33033 Codro	oipo (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): THAITI 106 M P0	(Heat p	ump space ii		rear pump combination nearers)					
Air-to-water heat pump		Y		Low-temperature heat pump		N			
Water-to-water heat pump		N		Equipped with a supplementary heater		N			
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	6	kW	Seasonal space heating energy efficiency	ηs	231	%		
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	F: 7 %	CODI	NIA			
Degradation co-efficient (**)	Cdh	NA	-	Tj = −7 °C	COPd	NA	_		
Tj = 2 ℃	Pdh	6.0	kW	Ti = 2 °C	COPd	2.50			
Degradation co-efficient (**)	Cdh	0.98	-	1j = 2 C	COPa	3.50	_		
Tj = 7 ℃	Pdh	4.8	kW	T; – 7 °C	COPd	5.20			
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 7 °C	COPa	3.20	_		
Tj = 12℃	Pdh	5.5	kW	Tj = 12℃	COPd	7.60			
Degradation co-efficient (**)	Cdh	0.97	_	IJ = 12 C	COPa	7.60	_		
Tj = bivalent temperature	Pdh	6.0	kW	Tj = bivalent temperature	COPd	3.50	_		
Tj = operation limit temperature	Pdh	6.0	kW	Tj = operation limit temperature	COPd	3.50	-		
For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL } < -20^{\circ}\mathbb{C} \text{)}$	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL } < -20^{\circ}\mathbb{C} \text{)}$	COPd	NA	_		
Bivalent temperature	Tbiv	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$		
				Cycling interval efficiency	СОРсус	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	e	Supplemen	itary heater				
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0	kW		
Thermostat-off mode	P_{TO}	0.018	kW						
Standby mode	$P_{\scriptscriptstyle SB}$	0.018	kW	Type of energy input		Electric			
Crankcase heater mode	$P_{\rm CK}$	0.000	kW						
Other	items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2600	m 3 /h		
Sound power level, indoors/outdoors	L_{WA}	-/64	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h		
Annual energy consumption	Q_{HE}	1368	kWh	rate, outdoor heat exchanger	_	IVA	111 3 /11		
Contact details: Via Oltre Ferrovia 33 - 33033 Codro	ipo (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 neat pump combination heaters)				
Model(s): THAITI 108 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Medium-temperature application	1			
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	127	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and		nce or primary energy ratio for part loa O°C and outdoor temperature Tj			
Tj = −7 °C	Pdh	6.0	kW	T: _ 7 %	COD4	2.07		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = −7 °C	COPd	2.07	_	
Tj = 2 ℃	Pdh	6.0	kW	Tj = 2 ℃	COPd	3.10		
Degradation co-efficient (**)	Cdh	0.99	_	1j – 2 C	СОРИ	3.10	_	
$Tj = 7 ^{\circ}\mathbb{C}$	Pdh	6.0	kW	Tj = 7 ℃	COPd	4.34		
Degradation co-efficient (**)	Cdh	0.99	_	1j = / C	СОРИ	4.34	_	
Tj = 12°C	Pdh	6.0	kW	Tj = 12℃	COPd	6.82		
Degradation co-efficient (**)	Cdh	0.98	-	1) – 12 C	СОРИ	0.82	_	
Tj = bivalent temperature	Pdh	6.0	kW	Tj = bivalent temperature	COPd	1.80	_	
$Tj = operation \ limit \ temperature$	Pdh	6.0	kW	Tj = operation limit temperature	COPd	2.07	_	
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	-25	$^{\circ}$	
				Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mo	des other tha	n active mod	le	Supplemen	ntary heater			
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	1.0	kW	
Thermostat-off mode	P _{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	2600	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	-/65	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	4440	kWh	rate, outdoor heat exchanger	_	14/4	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroij	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 leat pump combination heaters)				
Model(s): THAITI 108 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater		N		
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	108	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a	or primary energy ratio for part load and outdoor temperature Tj			
Tj = −7 °C	Pdh	6.0	kW	F: 7.00	CODI	2.10		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = −7 °C	COPd	2.10	_	
Tj = 2 ℃	Pdh	6.0	kW	Tr: 0.00	CODI	2.20		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 2 ℃	COPd	3.30	_	
Tj = 7 ℃	Pdh	6.12	kW	T: 7 °C	COD4	4.77		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 7 ℃	COPd	4.77	_	
Tj = 12°C	Pdh	6.12	kW	T: 10°C	COD4	7.20		
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 12℃	COPd	7.30	_	
Tj = bivalent temperature	Pdh	6.0	kW	Tj = bivalent temperature	COPd	1.96	_	
Tj = operation limit temperature	Pdh	6.0	kW	Tj = operation limit temperature	COPd	1.53	-	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	6.0	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	1.96	_	
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°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 _{OFF}	0.018	kW	Rated heat output (*)	Psup	1.00	kW	
Thermostat-off mode	P _{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2600	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	-/65	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NI A	m 2 /h	
Annual energy consumption	Q_{HE}	5295	kWh	rate, outdoor heat exchanger	_	NA	m 3 /h	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroij	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 neat pump combination heaters)			
Model(s): THAITI 108 M P0							
Air-to-water heat pump		Y		Low-temperature heat pump	N		
Water-to-water heat pump		N		Equipped with a supplementary heater		N	
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Medium-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	ηs	156	%
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	NA	kW	T' 7 °C	CODI	NIA	
Degradation co-efficient (**)	Cdh	NA	-	Tj = −7 °C	COPd	NA	_
Tj = 2 ℃	Pdh	7.8	kW	T: 2 °C	COD4	2.20	
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 ℃	COPd	2.30	_
Tj = 7 ℃	Pdh	6.0	kW	T: _ 7 °C	COD4	3.04	
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 7 ℃	COPd	3.04	_
Tj = 12℃	Pdh	6.0	kW	Tj = 12℃	COPd	5.80	
Degradation co-efficient (**)	Cdh	0.98	-	IJ = 12 C	COPa	5.80	_
Tj = bivalent temperature	Pdh	7.8	kW	Tj = bivalent temperature	COPd	2.30	_
$Tj = operation \ limit \ temperature$	Pdh	7.8	kW	Tj = operation limit temperature	COPd	2.30	_
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL } < -20^{\circ}\mathbb{C} \text{)}$	COPd	NA	_
Bivalent temperature	Tbiv	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$
				Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	le	Supplemen	ntary heater		
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0.2	kW
Thermostat-off mode	P_{TO}	0.018	kW				
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.000	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	2600	m 3 /h
Sound power level, indoors/outdoors	L_{wa}	-/65	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h
Annual energy consumption	Q_{HE}	2684	kWh	rate, outdoor heat exchanger	_	14/4	111 3 /11
Contact details: Via Oltre Ferrovia 33 - 33033 Codroiq	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 neat pump combination heaters)				
Model(s): THAITI 108 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Low-temperature application	1			
Parameters declared for				Average climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	ηs	183	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a	or primary energy ratio for part load and outdoor temperature Tj			
Tj = −7 °C	Pdh	5.2	kW	E: 7.00	CODI	2.05		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = −7 °C	COPd	2.95	_	
Tj = 2 ℃	Pdh	4.0	kW	Tr: 0.00	CODI	4.50		
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 2 ℃	COPd	4.50	_	
Tj = 7 ℃	Pdh	4.4	kW	T: 7 °C	COD4	6.50		
Degradation co-efficient (**)	Cdh	0.97	_	Tj = 7 ℃	COPd	6.50	_	
Tj = 12°C	Pdh	5.5	kW	T: 12°C	COD4	0.50		
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 12℃	COPd	8.50	_	
Tj = bivalent temperature	Pdh	5.2	kW	Tj = bivalent temperature	COPd	2.95	_	
Tj = operation limit temperature	Pdh	4.9	kW	Tj = operation limit temperature	COPd	2.50	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL } < -20^{\circ}\mathbb{C} \text{)}$	COPd	NA	_	
Bivalent temperature	Tbiv	-7	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mo	des other tha	n active mod	le	Supplemen	ntary heater			
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	1.1	kW	
Thermostat-off mode	P _{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.010	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	2600	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	-/65	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	2654	kWh	rate, outdoor heat exchanger		INA	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroij	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 neat pump combination heaters)			
Model(s): THAITI 108 M P0							
Air-to-water heat pump		Y		Low-temperature heat pump	N		
Water-to-water heat pump		N		Equipped with a supplementary heater	N		
Brine-to-water heat pump		N		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	5	kW	Seasonal space heating energy efficiency	ηs	144	%
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	3.7	kW	E: 1 %	CODI	2.10	
Degradation co-efficient (**)	Cdh	0.98	-	$Tj = -7 \degree C$	COPd	3.10	_
Tj = 2 ℃	Pdh	3.6	kW	TI 0.00	gon.	4.20	
Degradation co-efficient (**)	Cdh	0.98		Tj = 2 ℃	COPd	4.30	_
Tj = 7 ℃	Pdh	4.5	kW				
Degradation co-efficient (**)	Cdh	0.97	_	- Tj = 7 ℃	COPd	6.20	_
Tj = 12℃	Pdh	5.6	kW	TI 10°C	gop.	0.50	
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 12℃	COPd	8.50	_
Tj = bivalent temperature	Pdh	4.0	kW	Tj = bivalent temperature	COPd	2.3	_
Tj = operation limit temperature	Pdh	4.2	kW	Tj = operation limit temperature	COPd	2.10	-
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	4.0	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL} < -20^{\circ}\mathbb{C} \text{)}$	COPd	2.3	_
Bivalent temperature	Tbiv	-15	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$
				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}	0.018	kW	Rated heat output (*)	Psup	0.8	kW
Thermostat-off mode	P _{TO}	0.018	kW				
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.000	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	2600	m 3 /h
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle WA}$	-/65	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h
Annual energy consumption	Q_{HE}	2862	kWh	rate, outdoor heat exchanger	_	INA	III 3 /II
Contact details: Via Oltre Ferrovia 33 - 33033 Codroij	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): THAITI 108 M P0	(Heat p	ump space ii		react pump combination nearers)				
Air-to-water heat pump		Y		Low-temperature heat pump		N		
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
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	ηs	234	%	
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	F: 7 %	CODI	NIA		
Degradation co-efficient (**)	Cdh	NA	-	Tj = −7 °C	COPd	NA	_	
Tj = 2 ℃	Pdh	7.6	kW	Ti = 2 ℃	COPd	2.40		
Degradation co-efficient (**)	Cdh	0.98	-	1j = 2 C	COPa	3.40	_	
Tj = 7 ℃	Pdh	4.8	kW	T; – 7 °C	COPd	5.20		
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 7 °C	COPu	3.20	_	
Tj = 12℃	Pdh	5.5	kW	Tj = 12℃	COPd	7.60		
Degradation co-efficient (**)	Cdh	0.97	_	1j = 12 C	COPu	7.60	_	
Tj = bivalent temperature	Pdh	7.6	kW	Tj = bivalent temperature	COPd	3.40	-	
Tj = operation limit temperature	Pdh	7.6	kW	Tj = operation limit temperature	COPd	3.40	_	
For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	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	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				Cycling interval efficiency	СОРсус	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	e	Supplemen	itary heater			
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0.4	kW	
Thermostat-off mode	P_{TO}	0.018	kW					
Standby mode	$P_{\scriptscriptstyle SB}$	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	$P_{\rm CK}$	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	2600	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	-/65	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	1368	kWh	rate, outdoor heat exchanger	_	ING	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 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 neat pump combination heaters)				
Model(s): THAITI 110 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Medium-temperature application	,			
Parameters declared for				Average climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy 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	ce or primary energy ratio for part loa °C and outdoor temperature Tj			
Tj = −7 °C	Pdh	7.0	kW	Ti = −7 °C	COD4	2.10		
Degradation co-efficient (**)	Cdh	0.99	-	IJ = - 7 C	COPd	2.10	_	
Tj = 2 ℃	Pdh	6.0	kW	Tj = 2 ℃	COPd	3.10		
Degradation co-efficient (**)	Cdh	0.99	_	1j – 2 C	СОРИ	3.10	_	
$Tj = 7 ^{\circ}C$	Pdh	7.2	kW	Ti = 7 °C	COPd	4.22		
Degradation co-efficient (**)	Cdh	0.99	_	IJ = / C	COPa	4.22	_	
Tj = 12℃	Pdh	9.5	kW	T: 12°C	COD4	C 41		
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 12℃	COPd	6.41	_	
Tj = bivalent temperature	Pdh	7.0	kW	Tj = bivalent temperature	COPd	2.10	_	
Tj = operation limit temperature	Pdh	10.0	kW	Tj = operation limit temperature	COPd	1.77	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL } < -20^{\circ}\mathbb{C} \text{)}$	COPd	NA	_	
Bivalent temperature	Tbiv	-7	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				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	e	Supplemen	ntary heater			
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0	kW	
Thermostat-off mode	P_{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	L_{wa}	-/69	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	5063	kWh	rate, outdoor heat exchanger	_	14/4	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 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 neat pump combination heaters)				
Model(s): THAITI 110 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump		N		
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
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	103	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
$T_j = -7 ^{\circ}\mathbb{C}$	Pdh	6.0	kW	indoor temperature 20°C a	and outdoor t	emperature		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = −7 °C	COPd	2.08	_	
Tj = 2 °C	Pdh	6.0	kW					
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 2 ℃	COPd	2.97	_	
Ti = 7 ℃	Pdh	7.4	kW					
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 7 °C	COPd	4.64	_	
Tj = 12°C	Pdh	9.7	kW					
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 12°C	COPd	6.86	_	
Tj = bivalent temperature	Pdh	6.0	kW	Tj = bivalent temperature	COPd	2.00	_	
Tj = operation limit temperature	Pdh	8.0	kW	Tj = operation limit temperature	COPd	1.50	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	6.0	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \ (\text{if TOL} < -20^{\circ}\mathbb{C} \)$	COPd	2.00	-	
Bivalent temperature	Tbiv	-15	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mo	des other tha	n active mod	le	Supplemen	ntary heater			
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0	kW	
Thermostat-off mode	P _{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4500	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	-/69	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q _{HE}	5544	kWh	rate, outdoor heat exchanger		11/1	5 / 11	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroij	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 leat pump combination heaters)				
Model(s): THAITI 110 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Medium-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	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	or primary energy ratio for part load and outdoor temperature Tj			
$Tj = -7 ^{\circ}C$	Pdh	NA	kW	T: 7 %	COD4	NIA		
Degradation co-efficient (**)	Cdh	NA	-	Tj = −7 °C	COPd	NA	_	
Tj = 2 ℃	Pdh	7.8	kW	Tj = 2 ℃	COPd	2.25		
Degradation co-efficient (**)	Cdh	0.99	_	1) – 2 C	СОРИ	2.23	_	
$Tj = 7 ^{\circ}\mathbb{C}$	Pdh	6.5	kW	Tj = 7 ℃	COPd	2.95		
Degradation co-efficient (**)	Cdh	0.99	_	1j = 7 C	СОРИ	2.93	_	
$Tj = 12^{\circ}C$	Pdh	9.5	kW	Tj = 12℃	COPd	5.45		
Degradation co-efficient (**)	Cdh	0.98	_	IJ = 12 C	СОРИ	3.43	_	
Tj = bivalent temperature	Pdh	7.8	kW	Tj = bivalent temperature	COPd	2.25	-	
$Tj = operation \ limit \ temperature$	Pdh	7.8	kW	Tj = operation limit temperature	COPd	2.25	_	
For air-to-water heat pumps: Tj = -15° C (if TOL < -20° 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	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				Cycling interval efficiency	СОРсус	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	itary heater			
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0.2	kW	
Thermostat-off mode	P_{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	L_{w_A}	-/69	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	2810	kWh	rate, outdoor heat exchanger	_	INA	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 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 neat pump combination heaters)				
Model(s): THAITI 110 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump		N		
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Low-temperature application				
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	176	%	
Declared capacity for heating for part		or temperatu	re 20 °C and	Declared coefficient of performance of				
outdoor tem $Tj = -7 ^{\circ}\text{C}$	Pdh	8.2	kW	indoor temperature 20 °C a	and outdoor t	emperature	l J	
				Tj = −7 °C	COPd	3.00	_	
Degradation co-efficient (**)	Cdh	0.99	1-337					
Tj = 2 °C	Pdh	5.0	kW	$Tj = 2 ^{\circ}C$	COPd	4.20	_	
Degradation co-efficient (**)	Cdh	0.98	-					
Tj = 7 °C	Pdh	7.7	kW	Tj = 7 ℃	COPd	5.70	_	
Degradation co-efficient (**)	Cdh	0.98	-					
Tj = 12°C	Pdh	9.6	kW	Tj = 12℃	COPd	7.9	-	
Degradation co-efficient (**)	Cdh	0.97	-					
Tj = bivalent temperature	Pdh	8.2	kW	Tj = bivalent temperature	COPd	3.00	_	
Tj = operation limit temperature	Pdh	10.0	kW	Tj = operation limit temperature	COPd	2.40	_	
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	-25	°C	
				Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mo	des other tha	n active mod	e	Supplemen	ntary heater			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	Psup	0	kW	
Thermostat-off mode	P _{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.010	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle WA}$	-/69	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	4164	kWh	rate, outdoor heat exchanger	_	INA	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 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.

	(heat p			requirements neat pump combination heaters)				
Model(s): THAITI 110 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
Brine-to-water heat pump		N		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	7	kW	Seasonal space heating energy efficiency	ηs	141	%	
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	5.7	kW	T: 7 %	COPI	2.10		
Degradation co-efficient (**)	Cdh	0.98	-	$Tj = -7 \degree C$	COPd	3.10	_	
Tj = 2 ℃	Pdh	4.5	kW	T: _ 2 °C	COPd	4.20		
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 2 ℃	COPa	4.20	_	
Tj = 7 ℃	Pdh	7.8	kW	Tj = 7 °C	COD4	5.81		
Degradation co-efficient (**)	Cdh	0.97	_	IJ = / C	COPd	5.81	_	
Tj = 12℃	Pdh	9.8	kW	T; _ 12°C	COD4	9.00		
Degradation co-efficient (**)	Cdh	0.97	_	Tj = 12℃	COPd	8.00	_	
Tj = bivalent temperature	Pdh	5.4	kW	Tj = bivalent temperature	COPd	2.20	_	
Tj = operation limit temperature	Pdh	9.2	kW	Tj = operation limit temperature	COPd	2.00	_	
For air-to-water heat pumps: Tj = -15° C (if TOL < -20° C)	Pdh	5.4	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	COPd	2.20	_	
Bivalent temperature	Tbiv	-15	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				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	Supplemen	ntary heater			
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0	kW	
Thermostat-off mode	P_{TO}	0.018	kW					
Standby mode	$P_{\scriptscriptstyle SB}$	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle WA}$	-/69	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	4057	kWh	rate, outdoor heat exchanger	_	INA	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 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): THAITI 110 M P0	(Heat p	ump space ii		react pump combination nearers)			
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	N		
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	10	kW	Seasonal space heating energy efficiency	ηs	224	%
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	F: 7 %	CODI	NIA	
Degradation co-efficient (**)	Cdh	NA	-	Tj = −7 °C	COPd	NA	_
Tj = 2 ℃	Pdh	9.5	kW	Ti = 2 ℃	COPd	2.20	
Degradation co-efficient (**)	Cdh	0.99	-	1j = 2 C	COPa	3.30	_
Tj = 7 ℃	Pdh	8.4	kW	T; _ 7 °C	COPd	5.00	
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 7 °C	COPu	3.00	_
Tj = 12℃	Pdh	9.6	kW	Tj = 12℃	COPd	7.20	
Degradation co-efficient (**)	Cdh	0.97	_	1j = 12 C	COPu	7.20	_
Tj = bivalent temperature	Pdh	9.5	kW	Tj = bivalent temperature	COPd	3.30	-
Tj = operation limit temperature	Pdh	9.5	kW	Tj = operation limit temperature	COPd	3.30	-
For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	-
Bivalent temperature	Tbiv	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$
				Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	$^{\circ}$
Power consumption in mod	des other tha	n active mod	e	Supplemen	itary heater		
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0.5	kW
Thermostat-off mode	P_{TO}	0.018	kW				
Standby mode	$P_{\scriptscriptstyle SB}$	0.018	kW	Type of energy input		Electric	
Crankcase heater mode	$P_{\rm CK}$	0.000	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	-/69	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h
Annual energy consumption	Q_{HE}	2356	kWh	rate, outdoor heat exchanger	_	ING	111 3 /11
Contact details: Via Oltre Ferrovia 33 - 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): THAITI 112 M P0							
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	N		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Medium-temperature application			
Parameters declared for				Average climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	ηѕ	126	%
Declared capacity for heating for part		or temperatu	re 20 °C and				
outdoor ten	Pdh	8.4	kW	indoor temperature 20 °C a	and outdoor t	emperature	J
Degradation co-efficient (**)	Cdh	0.99	K W	Tj = − 7 °C	COPd	2.01	_
$T_j = 2 \text{ °C}$	Pdh	6.8	kW				
Degradation co-efficient (**)	Cdh	0.99	K VV	- Tj = 2 ℃	COPd	3.06	_
$T_{j} = 7 \text{ °C}$	Pdh	7.3	kW				
Degradation co-efficient (**)	Cdh	0.99	_	- Tj = 7 ℃	COPd	4.25	_
$T_i = 12^{\circ}C$	Pdh	9.5	kW				
Degradation co-efficient (**)	Cdh	0.98		Tj = 12℃	COPd	6.50	_
Tj = bivalent temperature	Pdh	8.4	kW	Tj = bivalent temperature	COPd	2.01	_
Tj = operation limit temperature	Pdh	10.1	kW	Tj = operation limit temperature	COPd	1.78	_
For air-to-water heat pumps: $Tj = -15^{\circ} \text{ (if TOL} < -20^{\circ} \text{ ()}$	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	-25	°C
				Cycling interval efficiency	СОРсус	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C
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	kW
Thermostat-off mode	P _{TO}	0.025	kW				
Standby mode	P_{SB}	0.020	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.000	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4500	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	-/69	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h
Annual energy consumption	Q_{HE}	6119	kWh	rate, outdoor heat exchanger		1111	5 /11
Contact details: Via Oltre Ferrovia 33 - 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.

	(heat p			requirements heat pump combination heaters)			
Model(s): THAITI 112 M P0							
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	N		
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	103	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Ti=-7 °C	Pdh	6.0	kW	midoor temperature 20°C a	ina outaoor t	emperature	
Degradation co-efficient (**)	Cdh	0.99	_	Tj = − 7 °C	COPd	2.09	_
Tj = 2 °C	Pdh	6.0	kW				
Degradation co-efficient (**)	Cdh	0.99	_	- Tj = 2 ℃	COPd	2.99	_
Ti = 7 °C	Pdh	7.4	kW				
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 7 ℃	COPd	4.66	_
Tj = 12℃	Pdh	9.7	kW				
Degradation co-efficient (**)	Cdh	0.99	_	- Tj = 12°C	COPd	6.96	_
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.91	-
Tj = operation limit temperature	Pdh	8.0	kW	Tj = operation limit temperature	COPd	1.51	-
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{if TOL} < -20^{\circ} (\text{c}))$	Pdh	6.7	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if TOL $< -20^{\circ}C$)	COPd	1.91	-
Bivalent temperature	Tbiv	-15	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$
				Cycling interval efficiency	COPcyc	NA	-
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C
Power consumption in mo	des other tha	n active mod	le	Supplemen	ntary heater		
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	0	kW
Thermostat-off mode	P _{TO}	0.025	kW				
Standby mode	P_{SB}	0.020	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.000	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4500	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	-/69	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h
Annual energy consumption	Q_{HE}	7691	kWh	rate, outdoor heat exchanger		INA	111 3 /11
Contact details: Via Oltre Ferrovia 33 - 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.

	(heat p			requirements heat pump combination heaters)			
Model(s): THAITI 112 M P0							
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	N		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Medium-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	ηѕ	150	%
Declared capacity for heating for part		or temperatu	re 20 °C and	Declared coefficient of performance of			
outdoor tem $Ti = -7 ^{\circ}\mathbb{C}$	Pdh	NA	kW	indoor temperature 20 °C a	and outdoor t	emperature	l J
Degradation co-efficient (**)	Cdh	NA NA	_ K VV	Tj = −7 °C	COPd	NA	-
$T_{j} = 2 \text{C}$	Pdh	7.8	kW				
Degradation co-efficient (**)	Cdh	0.99	K W	- Tj = 2 ℃	COPd	2.27	_
$T_{j} = 7 ^{\circ}\text{C}$	Pdh	6.5	kW				
Degradation co-efficient (**)	Cdh	0.99	KW _	- Tj = 7 ℃	COPd	2.97	_
$T_i = 12^{\circ}C$	Pdh	9.5	kW				
Degradation co-efficient (**)	Cdh	0.98	K W	Tj = 12°C	COPd	5.52	_
T _i = bivalent temperature	Pdh	7.8	kW	Tj = bivalent temperature	COPd	2.27	_
Tj = operation limit temperature	Pdh	7.8	kW	Tj = operation limit temperature	COPd	2.27	_
For air-to-water heat pumps:				For air-to-water heat pumps:			_
Tj = -15° C (if TOL $< -20^{\circ}$ C)	Pdh	NA	kW	Tj = -15° C (if TOL $< -20^{\circ}$ C)	COPd	NA	-
Bivalent temperature	Tbiv	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
				Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C
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	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.020	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.000	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4500	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	-/69	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h
Annual energy consumption	Q_{HE}	2723	kWh	rate, outdoor heat exchanger		11/14	111 3 /11
Contact details: Via Oltre Ferrovia 33 - 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.

	(heat p			requirements heat pump combination heaters)				
Model(s): THAITI 112 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump		N		
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Low-temperature application				
Parameters declared for				Average climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	ηѕ	177	%	
Declared capacity for heating for part		or temperatu	re 20 °C and					
outdoor tem $Ti = -7 ^{\circ}\mathbb{C}$	Pdh	9.4	kW	indoor temperature 20 °C a	and outdoor t	emperature	i j	
Degradation co-efficient (**)	Cdh	0.99	_	- Tj = −7 °C	COPd	3.07	_	
Tj = 2 °C	Pdh	5.8	kW					
Degradation co-efficient (**)	Cdh	0.98	_	- Tj = 2 ℃	COPd	4.24	_	
Tj=7 °C	Pdh	7.7	kW					
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 7 ℃	COPd	5.82	_	
Ti = 12℃	Pdh	9.6	kW					
Degradation co-efficient (**)	Cdh	0.97	_	Tj = 12°C	COPd	8.21	_	
Tj = bivalent temperature	Pdh	9.4	kW	T _i = bivalent temperature	COPd	3.07	_	
Tj = operation limit temperature	Pdh	10.8	kW	T _j = operation limit temperature	COPd	2.42	_	
For air-to-water heat pumps: $Tj = -15^{\circ}$ (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	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mo	des other tha	n active mod	le	Supplemen	ntary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	0.14	kW	
Thermostat-off mode	P _{TO}	0.025	kW					
Standby mode	P_{SB}	0.020	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.010	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4500	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	-/69	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	Q_{HE}	4902	kWh	rate, outdoor heat exchanger		1111	5 /11	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroij	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 $\sup(T_j)$. (**) 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): THAITI 112 M P0							
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	N		
Brine-to-water heat pump		N		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	141	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Ti=-7 °C	Pdh	6.6	kW	maoor temperature 20 C	and Julidooi t	omporature :	.,
Degradation co-efficient (**)	Cdh	0.98	_	Tj = − 7 °C	COPd	3.03	_
Tj = 2 °C	Pdh	5.2	kW				
Degradation co-efficient (**)	Cdh	0.98	_	- Tj = 2 ℃	COPd	4.15	_
Ti = 7 °C	Pdh	7.8	kW				
Degradation co-efficient (**)	Cdh	0.97	_	Tj = 7 ℃	COPd	5.93	_
Tj = 12°C	Pdh	9.8	kW				
Degradation co-efficient (**)	Cdh	0.97	_	- Tj = 12°C	COPd	8.26	_
Tj = bivalent temperature	Pdh	6.5	kW	Tj = bivalent temperature	COPd	2.22	_
Tj = operation limit temperature	Pdh	9.2	kW	Tj = operation limit temperature	COPd	2.01	-
For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	Pdh	6.5	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	2.22	_
Bivalent temperature	Tbiv	-15	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	C
				Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C
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	kW
Thermostat-off mode	P_{TO}	0.025	kW				
Standby mode	P_{SB}	0.020	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.000	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	-/69	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h
Annual energy consumption	Q_{HE}	5444	kWh	rate, outdoor heat exchanger		14/1	111 3 /11
Contact details: Via Oltre Ferrovia 33 - 33033 Codroij	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 neat pump combination heaters)			
Model(s): THAITI 112 M P0							
Air-to-water heat pump		Y		Low-temperature heat pump		N	
Water-to-water heat pump		N		Equipped with a supplementary heater	N		
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	11	kW	Seasonal space heating energy efficiency	ηs	227	%
Declared capacity for heating for part		or temperatu	re 20 °C and	Declared coefficient of performance of			
outdoor tem $Ti = -7 ^{\circ}\mathbb{C}$	Pdh	NA	kW	indoor temperature 20 °C a	and outdoor t	emperature	l J
3				Tj = − 7 °C	COPd	NA	_
Degradation co-efficient (**)	Cdh	NA 11.0	-				
Tj = 2 ℃	Pdh	11.0	kW	Tj = 2 ℃	COPd	3.24	_
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = 7 ℃	Pdh	8.4	kW	- Tj = 7 ℃	COPd	5.10	_
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = 12℃	Pdh	9.6	kW	Tj = 12℃	COPd	7.39	_
Degradation co-efficient (**)	Cdh	0.97	-	-			
Tj = bivalent temperature	Pdh	11.0	kW	Tj = bivalent temperature	COPd	3.24	_
Tj = operation limit temperature	Pdh	11.0	kW	Tj = operation limit temperature	COPd	3.24	-
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15 \degree \text{C} \text{ (if TOL} < -20 \degree \text{C)}$	COPd	NA	-
Bivalent temperature	Tbiv	2	C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
				Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C
Power consumption in mo-	des other tha	n active mod	le	Supplemen	tary heater		
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	0	kW
Thermostat-off mode	P _{TO}	0.025	kW				
Standby mode	P_{SB}	0.020	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.000	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4500	m 3 /h
Sound power level, indoors/outdoors	L _{wa}	-/69	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NIA	m 2 /h
Annual energy consumption	Q_{HE}	2555	kWh	rate, outdoor heat exchanger	_	NA	m 3 /h
Contact details: Via Oltre Ferrovia 33 - 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 $\sup(T_j)$. (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

	(heat p			requirements neat pump combination heaters)				
Model(s): THAITI 114 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater		N		
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Medium-temperature application				
Parameters declared for				Average climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	ηs	125	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a	or primary energy ratio for part load and outdoor temperature Tj			
$Tj = -7 ^{\circ}C$	Pdh	9.8	kW	T: 7.00	CODI	1.01		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = − 7 °C	COPd	1.91	_	
Tj = 2 ℃	Pdh	6.0	kW	T: 0.%	CODI	2.10		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 2 ℃	COPd	3.10	_	
Tj = 7 ℃	Pdh	7.2	kW	T: 7 °C	COD4	4.22		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 7 ℃	COPd	4.22	_	
Tj = 12℃	Pdh	9.5	kW	T: 12°C	COD4	C 41		
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 12℃	COPd	6.41	_	
Tj = bivalent temperature	Pdh	9.8	kW	Tj = bivalent temperature	COPd	1.91	-	
Tj = operation limit temperature	Pdh	10.0	kW	Tj = operation limit temperature	COPd	1.77	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL} < -20^{\circ}\mathbb{C} \text{)}$	COPd	NA	-	
Bivalent temperature	Tbiv	-7	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°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 mod	des other tha	n active mod	le	Supplemen	ntary heater			
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	1.0	kW	
Thermostat-off mode	P_{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	L_{w_A}	-/70	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	7086	kWh	rate, outdoor heat exchanger	_	INA	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroiq	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 neat pump combination heaters)				
Model(s): THAITI 114 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
Brine-to-water heat pump		N		Heat pump combination heater		Y		
Parameters declared for				Medium-temperature application	1			
Parameters declared for				Colder climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	ηs	102	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
$Tj = -7 ^{\circ}\mathbb{C}$	Pdh	6.9	kW	T. 7.00	CODI	2.10		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = − 7 °C	COPd	2.10	_	
Tj = 2 ℃	Pdh	6.0	kW	TI 0.00	gon!	2.07		
Degradation co-efficient (**)	Cdh	0.99		Tj = 2 ℃	COPd	2.97	_	
Tj = 7 ℃	Pdh	7.4	kW					
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 7 ℃	COPd	4.64	_	
Tj = 12℃	Pdh	9.7	kW					
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 12°C	COPd	6.86	_	
Tj = bivalent temperature	Pdh	7.8	kW	Tj = bivalent temperature	COPd	1.82	_	
Tj = operation limit temperature	Pdh	8.0	kW	Tj = operation limit temperature	COPd	1.50	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	7.8	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	1.82	_	
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C	
				Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mo	des other tha	n active mod	e	Supplemer	ntary heater			
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0	kW	
Thermostat-off mode	P _{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	L_{w_A}	-/70	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	7979	kWh	rate, outdoor heat exchanger	_	INA	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroij	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 neat pump combination heaters)			
Model(s): THAITI 114 M P0				· · ·			
Air-to-water heat pump		Y		Low-temperature heat pump	N		
Water-to-water heat pump		N		Equipped with a supplementary heater	N		
Brine-to-water heat pump		N		Heat pump combination heater		Y	
Parameters declared for				Medium-temperature application	1		
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	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			
$Tj = -7 ^{\circ}\mathbb{C}$	Pdh	NA	kW	E. 7 %	COPI	DT A	
Degradation co-efficient (**)	Cdh	NA	-	$Tj = -7 \degree C$	COPd	NA	_
Tj = 2 ℃	Pdh	7.8	kW	TI. 0.10	gon!	2.25	
Degradation co-efficient (**)	Cdh	0.99		$Tj = 2 \degree C$	COPd	2.25	_
Tj = 7 ℃	Pdh	6.5	kW				
Degradation co-efficient (**)	Cdh	0.99	_	$Tj = 7 \degree C$	COPd	2.95	_
Tj = 12℃	Pdh	9.5	kW				
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 12℃	COPd	5.45	_
Tj = bivalent temperature	Pdh	7.8	kW	Tj = bivalent temperature	COPd	2.25	_
Tj = operation limit temperature	Pdh	7.8	kW	Tj = operation limit temperature	COPd	2.25	_
For air-to-water heat pumps: $Tj = -15 ^{\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	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
				Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C
Power consumption in mo	des other tha	n active mod	e	Supplemen	ntary heater		
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0	kW
Thermostat-off mode	P _{TO}	0.018	kW				
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.000	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h
Sound power level, indoors/outdoors	L_{wa}	-/70	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h
Annual energy consumption	Q_{HE}	2810	kWh	rate, outdoor heat exchanger	_	INA	III 3 /II
Contact details: Via Oltre Ferrovia 33 - 33033 Codroij	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 neat pump combination heaters)				
Model(s): THAITI 114 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Low-temperature application	l .			
Parameters declared for				Average climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	11	kW	Seasonal space heating energy efficiency	ηs	168	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a	or primary energy ratio for part load and outdoor temperature Tj			
Tj = −7 °C	Pdh	10.1	kW	T. 5.00	gop.	2.01		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = −7 °C	COPd	2.81	_	
Tj = 2 ℃	Pdh	6.2	kW	Tr: 0.00	CODI	4.00		
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 2 ℃	COPd	4.00	_	
Tj = 7 ℃	Pdh	7.7	kW	T: _ 7 °C	COD4	5.70		
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 7 ℃	COPd	5.70	_	
Tj = 12℃	Pdh	9.6	kW	Tj = 12℃	COPd	7.90		
Degradation co-efficient (**)	Cdh	0.97	_	1j = 12 C	COPa	7.90	_	
Tj = bivalent temperature	Pdh	10.1	kW	Tj = bivalent temperature	COPd	2.81	_	
Tj = operation limit temperature	Pdh	10.0	kW	Tj = operation limit temperature	COPd	2.40	_	
For air-to-water heat pumps: Tj = -15° C (if TOL < -20° 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	-25	$^{\circ}$	
				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}	0.018	kW	Rated heat output (*)	Psup	1.0	kW	
Thermostat-off mode	P _{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.010	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	-/70	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	5327	kWh	rate, outdoor heat exchanger		INA	III 3 /II	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroij	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 neat pump combination heaters)				
Model(s): THAITI 114 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
Brine-to-water heat pump		N		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	9	kW	Seasonal space heating energy efficiency	ηs	137	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a	or primary energy ratio for part load and outdoor temperature Tj			
$Tj = -7 ^{\circ}C$	Pdh	7.1	kW	T' 7 °C	CODI	2.00		
Degradation co-efficient (**)	Cdh	0.98	-	Tj = −7 °C	COPd	2.90	_	
Tj = 2 ℃	Pdh	5.6	kW	T: - 2 °C	COD4	4.00		
Degradation co-efficient (**)	Cdh	0.98	-	$Tj = 2 \degree C$	COPd	4.00	_	
Tj = 7 ℃	Pdh	7.8	kW	Tj = 7 ℃	COPd	5.80		
Degradation co-efficient (**)	Cdh	0.97	_	IJ = / C	COPa	5.80	_	
Tj = 12℃	Pdh	9.8	kW	Tj = 12℃	COPd	8.00		
Degradation co-efficient (**)	Cdh	0.97	-	IJ = 12 C	COPa	8.00	_	
Tj = bivalent temperature	Pdh	7.6	kW	Tj = bivalent temperature	COPd	2.20	_	
$Tj = operation \ limit \ temperature$	Pdh	9.2	kW	Tj = operation limit temperature	COPd	2.00	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	7.6	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL } < -20^{\circ}\mathbb{C} \text{)}$	COPd	2.20	_	
Bivalent temperature	Tbiv	-15	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				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}	0.018	kW	Rated heat output (*)	Psup	0	kW	
Thermostat-off mode	P _{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	-/70	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	5404	kWh	rate, outdoor heat exchanger		INA	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroij	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): THAITI 114 M P0	(Heat p	mip space ii		reac 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	N			
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	12	kW	Seasonal space heating energy efficiency	ηs	224	%	
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	11.8	kW	TI 0.00	GOD!	2.10		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 ℃	COPd	3.10	_	
Tj = 7 °C	Pdh	8.4	kW	T: 7 %	CODI	5.00		
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 7 °C	COPd	5.00	_	
Tj = 12℃	Pdh	9.6	kW	T: 10°C	COD4	7.20		
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 12℃	COPd	7.20	_	
Tj = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	3.10	-	
Tj = operation limit temperature	Pdh	11.8	kW	Tj = operation limit temperature	COPd	3.10	-	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL} < -20^{\circ}\mathbb{C} \text{)}$	COPd	NA	-	
Bivalent temperature	Tbiv	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				Cycling interval efficiency	COPcyc	NA	-	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	$^{\circ}$	
Power consumption in mod	des other tha	n active mod	e	Supplemen	itary heater			
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0.2	kW	
Thermostat-off mode	P_{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	-/70	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	2825	kWh	rate, outdoor heat exchanger	_	INA	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 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.



	(heat p			requirements neat pump combination heaters)				
Model(s): THAITI 116 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater		N		
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Medium-temperature application				
Parameters declared for				Average climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	ηs	125	%	
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	11.2	kW	E: 7.00	CODI	1.00		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = −7 °C	COPd	1.98	_	
Tj = 2 ℃	Pdh	6.8	kW	Tr' 0.00	CODI	2.05		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 2 ℃	COPd	3.05	_	
Tj = 7 ℃	Pdh	7.2	kW	T: 7 °C	COD4	4.22		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 7 ℃	COPd	4.22	_	
Tj = 12℃	Pdh	9.5	kW	T: 12°C	COD4	C 41		
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 12℃	COPd	6.41	_	
Tj = bivalent temperature	Pdh	11.2	kW	Tj = bivalent temperature	COPd	1.98	_	
Tj = operation limit temperature	Pdh	10.0	kW	Tj = operation limit temperature	COPd	1.77	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL } < -20^{\circ}\mathbb{C} \text{)}$	COPd	NA	-	
Bivalent temperature	Tbiv	-7	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				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}	0.018	kW	Rated heat output (*)	Psup	3.0	kW	
Thermostat-off mode	P _{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	-/72	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	8406	kWh	rate, outdoor heat exchanger	_	INA	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroij	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 neat pump combination heaters)				
Model(s): THAITI 116 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
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	11	kW	Seasonal space heating energy efficiency	ηs	97	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a	e or primary energy ratio for part load C and outdoor temperature Tj			
Tj = − 7 °C	Pdh	7.8	kW	T: 7 %	COD4	1.00		
Degradation co-efficient (**)	Cdh	0.99	_	$Tj = -7 \degree C$	COPd	1.90	_	
Tj = 2 ℃	Pdh	6.0	kW	T: _ 2 °C	COD4	2.07		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 ℃	COPd	2.97	_	
Tj = 7 ℃	Pdh	7.4	kW	Tj = 7 °C	COD4	4.64		
Degradation co-efficient (**)	Cdh	0.99	_	IJ = / C	COPd	4.04	_	
Tj = 12℃	Pdh	9.7	kW	T; _ 12°C	COD4	6 96		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 12℃	COPd	6.86	_	
Tj = bivalent temperature	Pdh	8.9	kW	Tj = bivalent temperature	COPd	1.60	_	
Tj = operation limit temperature	Pdh	8.0	kW	Tj = operation limit temperature	COPd	1.50	_	
For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL} < -20^{\circ}\mathbb{C} \text{)}$	Pdh	8.9	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL } < -20^{\circ}\mathbb{C} \text{)}$	COPd	1.60	_	
Bivalent temperature	Tbiv	-15	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				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	Supplemen	ntary heater			
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	3.0	kW	
Thermostat-off mode	P_{TO}	0.018	kW					
Standby mode	$P_{\scriptscriptstyle SB}$	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle WA}$	-/72	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	9207	kWh	rate, outdoor heat exchanger	_	14/4	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 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 neat pump combination heaters)				
Model(s): THAITI 116 M P0			-					
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater		N		
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Medium-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	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	or primary energy ratio for part load and outdoor temperature Tj			
Tj = − 7 °C	Pdh	NA	kW	T: 7 %	COPI	NT A		
Degradation co-efficient (**)	Cdh	NA	-	Tj = −7 °C	COPd	NA	_	
Tj = 2 ℃	Pdh	8.8	kW	T: 2 °C	COD4	2.15		
Degradation co-efficient (**)	Cdh	0.99	_	$Tj = 2 \degree C$	COPd	2.15	_	
Tj = 7 ℃	Pdh	6.5	kW	T: _ 7 °C	COD4	2.95		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 7 ℃	COPd	2.95	_	
Tj = 12℃	Pdh	9.5	kW	Tj = 12℃	COD4	5.45		
Degradation co-efficient (**)	Cdh	0.98	-	IJ = 12 C	COPd	3.43	_	
Tj = bivalent temperature	Pdh	8.8	kW	Tj = bivalent temperature	COPd	2.15	_	
$Tj = operation \ limit \ temperature$	Pdh	8.8	kW	Tj = operation limit temperature	COPd	2.15	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL } < -20^{\circ}\mathbb{C} \text{)}$	COPd	NA	_	
Bivalent temperature	Tbiv	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				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}	0.018	kW	Rated heat output (*)	Psup	0.2	kW	
Thermostat-off mode	P_{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	L_{w_A}	-/72	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	3165	kWh	rate, outdoor heat exchanger		INA	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroij	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 neat pump combination heaters)			
Model(s): THAITI 116 M P0							
Air-to-water heat pump		Y		Low-temperature heat pump	N		
Water-to-water heat pump		N		Equipped with a supplementary heater	N		
Brine-to-water heat pump		N		Heat pump combination heater	Y		
Parameters declared for				Low-temperature application	I.		
Parameters declared for				Average climate condition			
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	ηs	164	%
Declared capacity for heating for part		or temperatu	re 20 °C and	Declared coefficient of performance of			
outdoor tem $Tj = -7 ^{\circ}\mathbb{C}$	Pdh	11.4	kW	indoor temperature 20 °C a	and outdoor t	emperature	l J
				Tj = −7 °C	COPd	2.62	_
Degradation co-efficient (**)	Cdh	0.99	1-337				
Tj = 2 ℃	Pdh	7.0	kW	$Tj = 2 ^{\circ}C$	COPd	3.93	_
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = 7 ℃	Pdh	7.7	kW	Tj = 7 ℃	COPd	5.70	_
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = 12°C	Pdh	9.6	kW	Tj = 12℃	COPd	7.90	_
Degradation co-efficient (**)	Cdh	0.97	_				
Tj = bivalent temperature	Pdh	11.4	kW	Tj = bivalent temperature	COPd	2.62	_
Tj = operation limit temperature	Pdh	10.0	kW	Tj = operation limit temperature	COPd	2.40	_
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15 \degree \text{C} \text{ (if TOL} < -20 \degree \text{C)}$	COPd	NA	-
Bivalent temperature	Tbiv	-7	$^{\circ}$ C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C
				Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C
Power consumption in mo	des other tha	n active mod	e	Supplemen	ntary heater		
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	3.0	kW
Thermostat-off mode	P _{TO}	0.018	kW				
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric	
Crankcase heater mode	P_{CK}	0.010	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	-/72	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h
Annual energy consumption	Q_{HE}	6458	kWh	rate, outdoor heat exchanger		14/4	111 3 /11
Contact details: Via Oltre Ferrovia 33 - 33033 Codroi	00 (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 neat pump combination heaters)				
Model(s): THAITI 116 M P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
Brine-to-water heat pump		N		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	11	kW	Seasonal space heating energy efficiency	ηs	134	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a	or primary energy ratio for part load and outdoor temperature Tj			
Tj = − 7 °C	Pdh	8.0	kW	F: 7 %	CODI	2.00		
Degradation co-efficient (**)	Cdh	0.98	-	$Tj = -7 \degree C$	COPd	2.90	_	
Tj = 2 ℃	Pdh	6.3	kW	T: _ 2 °C	COPd	2.02		
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 2 ℃	COPa	3.93	_	
Tj = 7 ℃	Pdh	7.8	kW	Tj = 7 °C	COD4	5.80		
Degradation co-efficient (**)	Cdh	0.97	_	IJ = / C	COPd	5.80	_	
Tj = 12℃	Pdh	9.8	kW	T; _ 12°C	COD4	9.00		
Degradation co-efficient (**)	Cdh	0.97	_	Tj = 12℃	COPd	8.00	_	
Tj = bivalent temperature	Pdh	8.6	kW	Tj = bivalent temperature	COPd	2.20	_	
Tj = operation limit temperature	Pdh	9.2	kW	Tj = operation limit temperature	COPd	2.00	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	8.6	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL } < -20^{\circ}\mathbb{C} \text{)}$	COPd	2.20	_	
Bivalent temperature	Tbiv	-15	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mo	des other tha	n active mod	e	Supplemen	ntary heater			
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0	kW	
Thermostat-off mode	P_{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle WA}$	-/72	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	6758	kWh	rate, outdoor heat exchanger	_	14/4	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 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): THAITI 116 M P0	(Heat p	mip space ii		react pump combination neacts)			
Air-to-water heat pump		Y		Low-temperature heat pump	N		
Water-to-water heat pump		N		Equipped with a supplementary heater	N		
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	13	kW	Seasonal space heating energy efficiency	ηs	224	%
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	F: 7 %	CODI	NIA	
Degradation co-efficient (**)	Cdh	NA	-	Tj = −7 °C	COPd	NA	_
Tj = 2 ℃	Pdh	13.3	kW	T: _ 2 °C	COD4	2.00	
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 ℃	COPd	3.00	_
Tj = 7 ℃	Pdh	8.4	kW	T: _ 7 °C	COD4	5.00	
Degradation co-efficient (**)	Cdh	0.98	-	$Tj = 7 \degree C$	COPd	5.00	_
Tj = 12℃	Pdh	9.6	kW	T' 10°C	CODI	7.20	
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 12℃	COPd	7.20	_
Tj = bivalent temperature	Pdh	13.3	kW	Tj = bivalent temperature	COPd	3.00	-
Tj = operation limit temperature	Pdh	13.3	kW	Tj = operation limit temperature	COPd	3.00	-
For air-to-water heat pumps: $Tj = -15 \degree \text{C} \text{ (if TOL} < -20 \degree \text{C} \text{)}$	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	-25	$^{\circ}$
				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	e	Supplemen	itary heater		
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0	kW
Thermostat-off mode	P_{TO}	0.018	kW				
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric	
Crankcase heater mode	$P_{\rm CK}$	0.000	kW				
Other	items						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	-/72	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h
Annual energy consumption	Q_{HE}	3063	kWh	rate, outdoor heat exchanger	_	ING	111 3 /11
Contact details: Via Oltre Ferrovia 33 - 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 neat pump combination heaters)				
Model(s): THAITI 116 T P0				, , , , , , , , , , , , , , , , , , ,				
Air-to-water heat pump	Y			Low-temperature heat pump	N			
Water-to-water heat pump		N	,	Equipped with a supplementary heater	N			
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Medium-temperature application				
Parameters declared for				Average climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	ηs	125	%	
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a				
$Tj = -7 ^{\circ}\mathbb{C}$	Pdh	11.2	kW	T: 7 %		1.98		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = −7 °C	COPd		_	
Tj = 2 ℃	Pdh	6.8	kW	T: _ 2 °C	COD4	3.05		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 2 ℃	COPd	3.03		
Tj = 7 ℃	Pdh	7.2	kW	Ti = 7 °C	COPd	4.22		
Degradation co-efficient (**)	Cdh	0.99	_	IJ = / C	COFU	4.22	_	
Tj = 12℃	Pdh	9.5	kW	T: 12°C	COD4	6.41		
Degradation co-efficient (**)	Cdh	0.98	_	Tj = 12℃	COPd	6.41	_	
Tj = bivalent temperature	Pdh	11.2	kW	Tj = bivalent temperature	COPd	1.98	_	
Tj = operation limit temperature	Pdh	10.0	kW	Tj = operation limit temperature	COPd	1.77	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL } < -20^{\circ}\mathbb{C} \text{)}$	COPd	NA	_	
Bivalent temperature	Tbiv	-7	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mo	des other tha	n active mod	e	Supplementary heater				
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	3.0	kW	
Thermostat-off mode	P_{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	L_{wa}	-/72	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	8406	kWh	rate, outdoor heat exchanger	_	INA	m 3/II	
Contact details: Via Oltre Ferrovia 33 - 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 neat pump combination heaters)				
Model(s): THAITI 116 T P0								
Air-to-water heat pump	Y			Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater		N		
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	11	kW	Seasonal space heating energy efficiency	ηs	97	%	
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	7.8	kW	F: 7.%		1.90		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = −7 °C	COPd		_	
Tj = 2 ℃	Pdh	6.0	kW			2.07		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 2 ℃	COPd	2.97	_	
Tj = 7 ℃	Pdh	7.4	kW	T: 7 °C	COD4	4.64		
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 7 ℃	COPd	4.64	_	
Tj = 12℃	Pdh	9.7	kW	Tr: 12°C	CODI	6.06		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = 12℃	COPd	6.86	_	
Tj = bivalent temperature	Pdh	8.9	kW	Tj = bivalent temperature	COPd	1.60	_	
Tj = operation limit temperature	Pdh	8.0	kW	Tj = operation limit temperature	COPd	1.50	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	8.9	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	COPd	1.60	-	
Bivalent temperature	Tbiv	-15	$^{\circ}$ C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°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 mod	des other tha	n active mod	le	Supplementary heater				
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	3.0	kW	
Thermostat-off mode	P_{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	0.018 kW Type of energy input			Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	-/72	1 or water	For water- or brine-to-water heat pumps: Rated brine or water flow		NT A	m 3 /h	
Annual energy consumption	Q_{HE}	9207	kWh	rate, outdoor heat exchanger	_	NA	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroiq	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 neat pump combination heaters)				
Model(s): THAITI 116 T P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater		N		
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Medium-temperature application	1			
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	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	NA	kW	E: 7.00	CODI	NA		
Degradation co-efficient (**)	Cdh	NA	-	Tj = −7 °C	COPd		_	
Tj = 2 ℃	Pdh	8.8	kW	TI 0.00	gon!	2.15		
Degradation co-efficient (**)	Cdh	0.99		Tj = 2 ℃	COPd		_	
Tj = 7 ℃	Pdh	6.5	kW		COPd			
Degradation co-efficient (**)	Cdh	0.99	_	$Tj = 7 \degree C$		2.95	_	
Tj = 12℃	Pdh	9.5	kW	TI 10 °C	COPd 5			
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 12℃		5.45	_	
Tj = bivalent temperature	Pdh	8.8	kW	Tj = bivalent temperature	COPd	2.15	_	
Tj = operation limit temperature	Pdh	8.8	kW	Tj = operation limit temperature	COPd	2.15	_	
For air-to-water heat pumps: $Tj = -15^{\circ} (\text{ if TOL} < -20^{\circ} (\text{ of TOL}))$	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	_	
Bivalent temperature	Tbiv	2	$^{\circ}$ C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°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	e	Supplementary heater				
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	Psup	0.2	kW	
Thermostat-off mode	P _{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	W Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	L_{wa}	-/72	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	Q_{HE}	3165	kWh	rate, outdoor heat exchanger	_	INA	III 3 /II	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroij	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 neat pump combination heaters)				
Model(s): THAITI 116 T P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
Brine-to-water heat pump		N		Heat pump combination heater	Y			
Parameters declared for				Low-temperature application				
Parameters declared for				Average climate condition				
Item	symbol	value	unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	ηs	164	%	
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	11.4	kW	E: 1 %	CODI	2.62		
Degradation co-efficient (**)	Cdh	0.99	-	Tj = -7 °C	COPd		_	
Tj = 2 ℃	Pdh	7.0	kW	TI 0.00	gop.	3.93		
Degradation co-efficient (**)	Cdh	0.98	-	Tj = 2 ℃	COPd		_	
Tj = 7 ℃	Pdh	7.7	kW		COPd	5.70		
Degradation co-efficient (**)	Cdh	0.98	_	- Tj = 7 ℃			_	
Tj = 12℃	Pdh	9.6	kW		GODI			
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 12℃	COPd	7.90	_	
Tj = bivalent temperature	Pdh	11.4	kW	Tj = bivalent temperature	COPd	2.62	_	
Tj = operation limit temperature	Pdh	10.0	kW	Tj = operation limit temperature	COPd	2.40	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C} \text{ (if TOL} < -20^{\circ}\mathbb{C} \text{)}$	COPd	NA	_	
Bivalent temperature	Tbiv	-7	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				Cycling interval efficiency	COPcyc	NA	_	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in mo	des other tha	n active mod	le	Supplementary heater				
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	3.0	kW	
Thermostat-off mode	P _{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	kW Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.010	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	L_{WA}	-/72	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h	
Annual energy consumption	Q_{HE}	6458	kWh	rate, outdoor heat exchanger	_	INA	III 3 /II	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroij	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 neat pump combination heaters)				
Model(s): THAITI 116 T P0								
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
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	11	kW	Seasonal space heating energy efficiency	ηs	134	%	
Declared capacity for heating for part		or temperatu	re 20 °C and	Declared coefficient of performance of				
outdoor tem $Tj = -7 ^{\circ}\mathbb{C}$	Pdh	8.0	kW	indoor temperature 20 °C a	and outdoor t	emperature	l J	
				Tj = −7 °C	COPd	3.93	_	
Degradation co-efficient (**)	Cdh	0.98	1-337				 	
Tj = 2 °C	Pdh	6.3	kW	$Tj = 2 ^{\circ}C$	COPd		_	
Degradation co-efficient (**)	Cdh	0.98	-					
Tj = 7 °C	Pdh	7.8	kW	Tj = 7 ℃	COPd	5.80	_	
Degradation co-efficient (**)	Cdh	0.97	-					
Tj = 12℃	Pdh	9.8	kW	- Tj = 12℃	COPd	8.00	_	
Degradation co-efficient (**)	Cdh	0.97	_					
Tj = bivalent temperature	Pdh	8.6	kW	Tj = bivalent temperature	COPd	2.20	_	
Tj = operation limit temperature	Pdh	9.2	kW	Tj = operation limit temperature	COPd	2.00	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	8.6	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	2.20	-	
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-25	°C	
				Cycling interval efficiency	СОРсус	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	e	Supplementary heater				
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	Psup	0	kW	
Thermostat-off mode	P _{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other	items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	_	4500	m 3 /h	
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle WA}$	-/72	Tor water or ornic to water near	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	6758	kWh	rate, outdoor heat exchanger	_	14/4	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroipo (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): THAITI 116 T P0	(near p	mip space ii		teat pump combination reactis)				
Air-to-water heat pump		Y		Low-temperature heat pump	N			
Water-to-water heat pump		N		Equipped with a supplementary heater	N			
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		unit	Item	symbol	value	unit	
Rated heat output (*)	Prated	13	kW	Seasonal space heating energy efficiency	ηs	224	%	
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	13.3	kW					
Degradation co-efficient (**)	Cdh	0.99	_	Tj = 2 ℃	COPd	3.00	_	
Tj = 7 ℃	Pdh	8.4	kW	T: 7.00	CODI	5.00		
Degradation co-efficient (**)	Cdh	0.98	-	$Tj = 7 \degree C$	COPd	5.00	_	
Tj = 12℃	Pdh	9.6	kW	Ti' 10 °C	COPd	7.20		
Degradation co-efficient (**)	Cdh	0.97	-	Tj = 12℃			_	
Tj = bivalent temperature	Pdh	13.3	kW	Tj = bivalent temperature	COPd	3.00	-	
Tj = operation limit temperature	Pdh	13.3	kW	Tj = operation limit temperature	COPd	3.00	-	
For air-to-water heat pumps: $Tj = -15^{\circ}\mathbb{C}$ (if $TOL < -20^{\circ}\mathbb{C}$)	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	2	$^{\circ}$	For air-to-water heat pumps: Operation limit temperature	TOL	-25	$^{\circ}$	
				Cycling interval efficiency	COPcyc	NA	-	
Cycling interval capacity for heating	Pcych	NA	kW	Heating water operating limit temperature	WTOL	60	$^{\circ}$	
Power consumption in mod	des other tha	n active mod	e	Supplementary heater				
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0	kW	
Thermostat-off mode	P_{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input		Electric		
Crankcase heater mode	P_{CK}	0.000	kW					
Other items								
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4500	m 3 /h	
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle WA}$	-/72	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	$\boldsymbol{Q}_{\text{HE}}$	3063	kWh	rate, outdoor heat exchanger		144	111 3 /11	
Contact details: Via Oltre Ferrovia 33 - 33033 Codroi		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.



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 Pompa di calore Mista	heater Heat pump combination	chauffage d'appoint Dispositif de chauffage mixte par	Kombiheizgerät mit Wärmepumpe	complementario Calefactor combinado con
Pompa di calore ivista	heater	pompe à chaleur	Kombineizgerat mit warmepumpe	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	Puissance calorifique déclarée à	Angegebene Leistung für Teillast bei	Capacidad de calefacción declarada para una carga
con temperatura interna pari a	heating for part load at indoor temperature 20 °C	charge partielle pour une température intérieure de 20 C	Raumlufttemperatur 20 C und	parcial a una temperatura
20 °C e temperatura esterna Ti	and outdoor temperature T j	et une température extérieure Tj	Außenlufttemperatur Tj	interior de 20 C y una temperatura exterior Tj
T j = temperatura bivalente	T j = bivalent temperature	Tj = température bivalente	Tj = Bivalenztemperatur	Tj = temperatura bivalente
T j = temperatura limite di esercizio	T j = operation limit temperature	Tj = température limite de fonctionnement	Tj=Betriebstemperaturgrenzwert	Tj = temperatura límite de funcionamiento
Temperatura bivalente	Bivalent temperature	Température bivalente	Bivalenztemperatur	Temperatura bivalente
Ciclicità degli intervalli di	Cycling interval capacity for	Puissance calorifique sur un	Leistung bei zyklischem Intervall-	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 termostato spento	Thermostat-off mode	Mode arrêt par thermostat	Thermostat-aus-Zustand	Modo desactivado por termostato
Modo stand-by	Standby mode	Mode veille	Bereitschaftszustand	Modo de espera
Modo riscaldamento del carter	Crankcase heater mode	Mode résistance de carter active	Betriebszustand mit Kurbelgehäuseheizung	Modo de calentador del cárter
Altri elementi	Other items	Autres caractéristiques	Sonstige Elemente	Otros elementos
Controllo della capacità Livello della potenza sonora,	Capacity control Sound power level, indoors/	Régulation de la puissance Niveau de puissance	Leistungssteuerung	Control de capacidad Nivel de potencia acústica
all'interno/all'esterno	outdoors fixed/variable	acoustique, à l'intérieur/à l'extérieur fixe/variable	Schallleistungspegel, innen/außen fest/veränderlich	(interior/exterior)
fisso/variabile	lixeu/variable	lixe/variable	lestiverandenich	fijo/variable
Efficienza energetica stagionale del riscaldamento d'ambiente	Seasonal space heating energy efficiency	Efficacité énergétique saisonnière pour le chauffage des locaux	Jahreszeitbedingte Raumheizungs- Energieeffizienz	Eficiencia energética estacional de calefacción
Coefficiente di prestazione dichiarato o indice di energia	Declared coefficient of	Coefficient de performance déclaré ou coefficient sur		Coeficiente de rendimiento declarado o factor energético
primaria per carico parziale,	performance or primary energy ratio for part load at	énergie primaire déclaré à	Angegebene Leistungszahl oder Heizzahl für Teillast bei Raumlufttemperatur 20 °C	primario para una carga
con temperatura interna pari a 20 °C e temperatura esterna	indoor temperature 20 °C	charge partielle pour une température intérieure de 20 °C	und Außenlufttemperatur Tj	parcial a una temperatura interior de 20 °C y una
Tj ·	and outdoor temperature T j	et une température extérieure Tj		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 esercizio	T j = operation limit temperature	T _j = température limite de fonctionnement	T_j = Betriebstemperaturgrenzwert	T _j = temperatura límite de funcionamiento
Efficienza della ciclicità degli	For air-to-water heat pumps:	Pour les pompes à chaleur air- eau: température limite de	Für Luft-Wasser-Wärmepumpen:	Para bombas de calor aire- agua: Temperatura límite de
intervalli Temperatura limite di	Operation limit temperature	fonctionnement	Betriebsgrenzwert-Temperatur	funcionamiento
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		l'extérieur Pour les pompes à chaleur eau-		nominal (exterior) Para bombas de calor
acqua/acqua e salamoia/acqua: flusso di	For water-/brine-to-water heat pumps: Rated brine or	eau ou eau glycolée-eau: débit	Für Wasser/Sole-Wasser-Wärmepumpen:	agua/salmuera a agua: Caudal de salmuera o de
salamoia o acqua nominale,	water flow rate, outdoor heat	nominal d'eau glycolée ou d'eau, échangeur thermique	Wasser- oder Sole-Nenndurchsatz	agua nominal,
scambiatore di calore all'esterno	exchanger	extérieur		intercambiador de calor de exterior
(*) Temperatura d'uscita variabile	(*) Variable outlet temperature	(*) Sortie variable de tempèrature	(*) Temperatur variable Ausgangs	(*) Variable de temperatura de salida
		·	kältor	
Più Freddo Medio	Colder Average	Plus froides Moyennes	kälter durchshnittl	Mas frias media
Più caldo	Warmer	Plus chaudes	wärmer	Mas calida
		Consommation annuelle		
Consumo energetico annuo Classe di efficienza	Annual energy consumption	d'énergie	Jährlichen Energieverbrauch	Consumo anual de energía
energetica	Energy efficiency classes	Clases de eficiencia energética	Classes d'efficacité énergétique	Energieeffizienzklassen