Technical parameters for heat pump space heaters and heat pump combination heaters

COMMISSION REGULATION (EU) No 813/2013 of 2 August 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign

requirements for space heaters and combination heaters. ANNEX II, point 5, Table 2.

COMMISSION DELEGATED REGULATION (EU) No 811/2013 of 18 February 2013 supplementing Directive 2010/30/EU of the European Parliament and of the Council with

regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater,

temperature control and solar device. ANNEX V, Table 8.

temperature control and solar device. ANNE	X V, Table 8.						
Model(s)				PROCIDA AWM T16			
Air-to-water heat pump	x Yes	o No					
Water-to-water heat pump	o Yes	x No					
Brine-to-water heat pump	o Yes	x No					
Low-temperature heat pump	o Yes	x No					
Equipped with a supplementary heater	o Yes	x No					
Heat pump combination heater	o Yes	x No					
Climate conditions	x Average			o Colder	o Warmer		
Temperature application	x Medium (55	i°C)		o Low (35°C)			
Applied Standards	EN14825						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
				Seasonal space heating energy	-		%
Rated heat output	Prated	13	kW	efficiency	ηs	128	%
Declared capacity for heating for part lo	ad at indoor te	mperature	20 °C and	Declared coefficient of performance or p	primary energy	ratio for pa	rt load at
outdoor temperature Tj				indoor temperature 20 °C and outdoor t	emperature Tj		
Tj = - 7°C	Pdh	11.2	kW	T: 7%C	6004	1.00	
Degradation co-efficient	Cdh	0.99	-	Tj = - 7°C	COPd	1.96	-
Tj = + 2°C	Pdh	6.8	kW	T:	60D.I	2.22	
Degradation co-efficient	Cdh	0.99	-	Tj = + 2°C	COPd	3.22	-
Tj = + 7°C	Pdh	7.3	kW		0001		
Degradation co-efficient	Cdh	0.99	-	Tj = + 7°C	COPd	4.25	-
Tj = + 12°C	Pdh	9.5	kW	T: 1000	000	<i></i>	
Degradation co-efficient	Cdh	0.98	-	Tj = + 12°C	COPd	6.49	-
Tj = bivalent temperature	Pdh	11.2	kW	Tj = bivalent temperature	COPd	1.96	-
Tj = operation limit temperature	Pdh	10.1	kW	Tj = operation limit temperature	COPd	1.78	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
· · · · · · · · · · · · · · · · · · ·				Cycling interval efficiency	COPcyc	-	-
Cycling interval capacity for heating	Pcych	-	kW	Heating water operating limit			
	,			temperature	WTOL	60	°C
Power consumption in modes other	than active n	node		Supplementary heater			
Off mode	POFF	0.018	kW	Rated heat output	Psup	3,0	kW
Thermostat-off mode	PTO	0.018	kW				
Standby mode	PSB	0.018	kW	Type of energy input		Electric	
Crankcase heater mode	РСК	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	4500	m3/h
Sound power level, indoors/ outdoors	LWA	-/72	dB	Rated brine or water flow rate, outdoor	_	-	m3/h
Annual energy consumption	QHE	7945	kWh	heat exchanger			

Contact details

Fondital S.p.A Via Cerreto 40, 25079 Vobarno (BS) - Italy

Technical parameters for heat pump space heaters and heat pump combination heaters

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temperature control and solar device. ANNEX V, Table 8.

Model(s)				PROCIDA AWM T16				
Air-to-water heat pump	x Yes	o No						
Water-to-water heat pump	o Yes	x No						
Brine-to-water heat pump	o Yes	x No						
Low-temperature heat pump	o Yes	x No						
Equipped with a supplementary heater	o Yes	x No						
Heat pump combination heater	o Yes	x No						
Climate conditions	o Average			x Colder	o Warmer			
Temperature application	x Medium (55	Medium (55°C) o Low (35°C)						
Applied Standards	EN14825							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	11	kW	Seasonal space heating energy	20	100	%	
Rated heat output	Frateu	11	K V V	efficiency	ηs	100	/0	
Declared capacity for heating for part lo outdoor temperature Tj	ad at indoor te	mperature 2	20 °C and	Declared coefficient of performance or pl indoor temperature 20 °C and outdoor te		ratio for pa	rt load a	
$Tj = -7^{\circ}C$	Pdh	7.8	kW					
Degradation co-efficient	Cdh	0.99		Tj = - 7°C	COPd	1.91	-	
$T_i = +2^{\circ}C$	Pdh	6.0	kW					
Degradation co-efficient	Cdh	0.99	-	Tj = + 2°C	COPd	2.98	-	
Ti = + 7°C	Pdh	7.4	kW					
Degradation co-efficient	Cdh	0.99		Tj = + 7°C	COPd	4.66	-	
$T_j = + 12^{\circ}C$	Pdh	9.7	kW					
Degradation co-efficient	Cdh	0.99	K V V	Tj = + 12°C	COPd	6.92	-	
Tj = bivalent temperature	Pdh	8.9	- kW	Tj = bivalent temperature	COPd	1.86		
	Pdh	8.1		Tj = operation limit temperature	COPd	1.50		
Tj = operation limit temperature	Pdh	8.9	kW				-	
Tj = -15 °C (if TOL < -20 °C)			kW	Tj = -15 °C (if TOL < -20 °C)	COPd	1.86		
Bivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-25	°C	
	Davish		1.3.47	Cycling interval efficiency	COPcyc	-		
Cycling interval capacity for heating	Pcych	-	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other	than active n	node		Supplementary heater				
Off mode	POFF	0.018	kW	Rated heat output	Psup	3,0	kW	
Thermostat-off mode	PTO	0.018	kW					
Standby mode	PSB	0.018	kW	Type of energy input	Electric			
Crankcase heater mode	PCK	0.000	kW					
Other items								
Capacity control		variable		Rated air flow rate, outdoors	-	4500	m3/l	
Sound power level, indoors/ outdoors	LWA	-/72	dB	Rated brine or water flow rate, outdoor	_	-	m3/ł	
Annual energy consumption	QHE	10532	kWh	heat exchanger				
Contact details				Fondital S Via Cerreto 40, 25079 V	•	- Italy		

Via Cerreto 40, 25079 Vobarno (BS) - Italy

Technical parameters for heat pump space heaters and heat pump combination heaters

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requirements for space heaters and combination heaters. ANNEX II, point 5, Table 2.

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regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater,

temperature control and solar device. ANNEX V, Table 8.

Model(s)	PROCIDA AWM T16							
Air-to-water heat pump	x Yes	o No						
Water-to-water heat pump	o Yes	x No						
Brine-to-water heat pump	o Yes	x No						
Low-temperature heat pump	o Yes	x No						
Equipped with a supplementary heater	o Yes	x No						
Heat pump combination heater	o Yes	x No						
Climate conditions	o Average			o Colder	x Warmer			
Femperature application	x Medium (55	ledium (55°C) o Low (35°C)						
Applied Standards	EN14825							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output	Prated	9	kW	Seasonal space heating energy efficiency	ηs	150	%	
Declared capacity for heating for part loa outdoor temperature Tj	ad at indoor te	mperature 2	20 °C and	Declared coefficient of performance or p indoor temperature 20 °C and outdoor to		ratio for pa	rt load a	
'j = - 7°C	Pdh	-	kW					
Degradation co-efficient	Cdh	-	-	Tj = - 7°C	COPd	-	-	
Γj = + 2°C	Pdh	8.8	kW					
Degradation co-efficient	Cdh	1.00	-	Tj = + 2°C	COPd	2.17	-	
	Pdh	6.5	kW		000.1			
Degradation co-efficient	Cdh	0.99	-	Tj = + 7°C	COPd	2.96	-	
i = + 12°C	Pdh	9.5	kW	T:				
Degradation co-efficient	Cdh	0.98	-	Tj = + 12°C	COPd	5.49	-	
j = bivalent temperature	Pdh	8.8	kW	Tj = bivalent temperature	COPd	2.17	-	
[j = operation limit temperature	Pdh	8.8	kW	Tj = operation limit temperature	COPd	2.17	-	
[j = − 15 °C (if TOL < − 20 °C)	Pdh	-	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-	
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C	
				Cycling interval efficiency	Cycling interval efficiency COPcyc	-	-	
Cycling interval capacity for heating	Pcych	-	kW	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other	than active n	node		Supplementary heater				
Off mode	POFF	0.018	kW	Rated heat output	Psup	-	kW	
Thermostat-off mode	РТО	0.018	kW					
Standby mode	PSB	0.018	kW	Type of energy input		-		
Crankcase heater mode	PCK	0.000	kW					
Other items								
		variable		Rated air flow rate, outdoors	-	4500	m3/h	
Other items Capacity control Sound power level, indoors/ outdoors	LWA	variable -/72	dB	Rated air flow rate, outdoors Rated brine or water flow rate, outdoor heat exchanger	-	4500	m3/h m3/h	

Contact details

Fondital S.p.A Via Cerreto 40, 25079 Vobarno (BS) - Italy

Technical parameters for heat pump space heaters and heat pump combination heaters

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requirements for space heaters and combination heaters. ANNEX II, point 5, Table 2.

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regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater,

temperature control and solar device. ANNEX V, Table 8.

Model(s)				PROCIDA AWM T16			
Air-to-water heat pump	x Yes	o No					
Water-to-water heat pump	o Yes	x No					
Brine-to-water heat pump	o Yes	x No					
Low-temperature heat pump	o Yes	x No					
Equipped with a supplementary heater	o Yes	x No					
Heat pump combination heater	o Yes	x No					
Climate conditions	x Average			o Colder	o Warmer		
Temperature application	o Medium (55	5°C)		x Low (35°C)			
Applied Standards	EN14825						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	13	kW	Seasonal space heating energy efficiency	ηs	166	%
Declared capacity for heating for part lo	ad at indoor te	mperature 2	20 °C and	Declared coefficient of performance or p	rimary energy	ratio for pa	rt load at
outdoor temperature Tj				indoor temperature 20 °C and outdoor te	emperature Tj		
Tj = - 7°C	Pdh	11.4	kW	Tj = - 7°C	COPd	2.65	_
Degradation co-efficient	Cdh	0.99	-	ij/c	COFU	2.05	-
Tj = + 2°C	Pdh	7.0	kW	— Tj = + 2°C	COPd	3.98	_
Degradation co-efficient	Cdh	0.98	-	1] - + 2 C	COFU	5.50	-
Tj = + 7°C	Pdh	7.7	kW	Tj = + 7°C	COPd	5.82	
Degradation co-efficient	Cdh	0.98	-			5.82	-
Tj = + 12°C	Pdh	9.6	kW	T: _ + 12°C	COD4	0 21	
Degradation co-efficient	Cdh	0.97	-	Tj = + 12°C	COPd	8.21	-
Tj = bivalent temperature	Pdh	11.4	kW	Tj = bivalent temperature	COPd	2.65	-
Tj = operation limit temperature	Pdh	10.8	kW	Tj = operation limit temperature	COPd	2.43	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
				Cycling interval efficiency	COPcyc	-	-
Cycling interval capacity for heating	Pcych	-	kW	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other	than active n	node		Supplementary heater			
Off mode	POFF	0.000	kW	Rated heat output	Psup	3,0	kW
Thermostat-off mode	PTO	0.025	kW				
Standby mode	PSB	0.025	kW	Type of energy input	Electric		
Crankcase heater mode	РСК	0.010	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	4500	m3/h
Sound power level, indoors/ outdoors	LWA	-/72	dB	Rated brine or water flow rate, outdoor	_	-	m3/h
Annual energy consumption	QHE	6276	kWh	heat exchanger			
Contact details				Fondital S Via Cerreto 40, 25079 V	•	- Italy	

Technical parameters for heat pump space heaters and heat pump combination heaters

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temperature control and solar device. ANNEX V, Table 8.

rage dium (55 825 mbol ated	Value 11 nperature 2 8.0 0.98 6.3 0.98	Unit kW 20 °C and kW - kW	x Colder x Low (35°C) Item Seasonal space heating energy efficiency Declared coefficient of performance or p indoor temperature 20 °C and outdoor temperature 20		Value 136 ratio for pa 2.83	Unit % rt load a -
rage dium (55 325 ated adoor ter adh adh adh adh	x No x No x No x No c) Value 11 mperature 2 8.0 0.98 6.3 0.98	kW 20 °C and kW -	x Low (35°C) Item Seasonal space heating energy efficiency Declared coefficient of performance or p indoor temperature 20 °C and outdoor te Tj = - 7°C	Symbol ns primary energy emperature Tj COPd	136 ratio for pa	%
rage dium (55 325 ated adoor ter adh adh adh adh	x No x No x No °C) Value 11 nperature 2 8.0 0.98 6.3 0.98	kW 20 °C and kW -	x Low (35°C) Item Seasonal space heating energy efficiency Declared coefficient of performance or p indoor temperature 20 °C and outdoor te Tj = - 7°C	Symbol ns primary energy emperature Tj COPd	136 ratio for pa	%
rage dium (55 825 ated adoor ter adh Cdh Cdh Cdh	x No x No °C) Value 11 nperature 2 8.0 0.98 6.3 0.98	kW 20 °C and kW -	x Low (35°C) Item Seasonal space heating energy efficiency Declared coefficient of performance or p indoor temperature 20 °C and outdoor te Tj = - 7°C	Symbol ns primary energy emperature Tj COPd	136 ratio for pa	%
rage dium (55 825 ated adoor ter adh Cdh Cdh	x No x No °C) Value 11 mperature 2 8.0 0.98 6.3 0.98	kW 20 °C and kW -	x Low (35°C) Item Seasonal space heating energy efficiency Declared coefficient of performance or p indoor temperature 20 °C and outdoor te Tj = - 7°C	Symbol ns primary energy emperature Tj COPd	136 ratio for pa	%
rage dium (55 825 mbol ated door ter rdh Cdh Cdh Cdh	x No °C) Value 11 nperature 2 8.0 0.98 6.3 0.98	kW 20 °C and kW -	x Low (35°C) Item Seasonal space heating energy efficiency Declared coefficient of performance or p indoor temperature 20 °C and outdoor te Tj = - 7°C	Symbol ns primary energy emperature Tj COPd	136 ratio for pa	%
rage dium (55 825 mbol ated ndoor ter rdh Cdh Cdh Cdh	°C) Value 11 nperature 2 8.0 0.98 6.3 0.98	kW 20 °C and kW -	x Low (35°C) Item Seasonal space heating energy efficiency Declared coefficient of performance or p indoor temperature 20 °C and outdoor te Tj = - 7°C	Symbol ns primary energy emperature Tj COPd	136 ratio for pa	%
dium (55 325 mbol ated idoor ter idh idh idh idh	Value 11 nperature 2 8.0 0.98 6.3 0.98	kW 20 °C and kW -	x Low (35°C) Item Seasonal space heating energy efficiency Declared coefficient of performance or p indoor temperature 20 °C and outdoor te Tj = - 7°C	Symbol ns primary energy emperature Tj COPd	136 ratio for pa	%
825 mbol ated door ter Pdh Edh Edh Edh	Value 11 nperature 2 8.0 0.98 6.3 0.98	kW 20 °C and kW -	Item Seasonal space heating energy efficiency Declared coefficient of performance or p indoor temperature 20 °C and outdoor te Tj = - 7°C	ns primary energy emperature Tj COPd	136 ratio for pa	%
mbol ated ndoor ter 2dh 2dh 2dh 2dh	11 nperature 2 8.0 0.98 6.3 0.98	kW 20 °C and kW -	Seasonal space heating energy efficiency Declared coefficient of performance or p indoor temperature 20 °C and outdoor te Tj = - 7°C	ns primary energy emperature Tj COPd	136 ratio for pa	%
ated ndoor ter 2dh 2dh 2dh 2dh	11 nperature 2 8.0 0.98 6.3 0.98	kW 20 °C and kW -	Seasonal space heating energy efficiency Declared coefficient of performance or p indoor temperature 20 °C and outdoor te Tj = - 7°C	ns primary energy emperature Tj COPd	136 ratio for pa	%
ndoor ter Pdh Cdh Pdh Cdh	8.0 0.98 6.3 0.98	20 °C and kW -	efficiency Declared coefficient of performance or p indoor temperature 20 °C and outdoor te Tj = - 7°C	orimary energy emperature Tj COPd	ratio for pa	
Pdh Cdh Pdh Cdh	8.0 0.98 6.3 0.98	kW -	indoor temperature 20 °C and outdoor te Tj = - 7°C	emperature Tj COPd		rt load a -
Cdh Pdh Cdh	0.98 6.3 0.98	-	Tj = - 7°C	COPd	2.83	_
Cdh Pdh Cdh	0.98 6.3 0.98	-			2.83	_
èdh Cdh	6.3 0.98	- kW			2.05	-
dh	0.98	kW	Tj = + 2°C	COD4		
		-	11 - + 2 C		3.98	_
dh			-	COPU	5.50	-
uli	7.8	kW	Ti = + 7°C	COPd	5.0/	
Cdh	0.97	-	1] = + 7 C	COPU	5.54	-
dh	9.8	kW	Ti = + 12°C	COD4	8 26	-
dh	0.97	-	1] - + 12 C	COPU	0.20	_
dh	8.7	kW	Tj = bivalent temperature	COPd	2.22	-
dh	9.2	kW	Tj = operation limit temperature	COPd	2.01	-
dh	8.7	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	2.22	-
biv	-15	°C	Operation limit temperature	TOL	-25	°C
lent temperature Tbiv -15 °C		Cycling interval efficiency	COPcyc	-	-	
cych	-	kW	Heating water operating limit temperature	WTOL	60	°C
active m	ode		Supplementary heater			
OFF	0.018	kW	Rated heat output	Psup	-	kW
то	0.018	kW				
PSB	0.018	kW	Type of energy input	-		
СК	0.000	kW				
	variable		Rated air flow rate, outdoors	-	4500	m3/ł
WA	-/72	dB	Rated brine or water flow rate, outdoor	_	-	m3/ł
(HE	7553	kWh	heat exchanger			,
	dh dh dh dh biv ych DFF TO vSB CK	dh 0.97 dh 9.8 dh 0.97 dh 8.7 dh 9.2 dh 8.7 biv -15 biv -15 ych - ctive mode DFF 0.018 70 0.018 VSB 0.018 CK 0.000	dh 0.97 - dh 9.8 kW dh 0.97 - dh 8.7 kW dh 9.2 kW dh 8.7 kW dh 9.2 kW dh 8.7 kW biv -15 °C ych - kW biv 0.15 °C ych - kW biv 0.018 kW PFF 0.018 kW VSB 0.018 kW CK 0.000 kW	dh 0.97 $-$ dh 9.8 kWdh 0.97 $-$ dh 8.7 kWdh 9.2 kWdh 9.2 kWdh 8.7 kWdh 8.7 kWbiv -15 °Cych $-$ kWSupplementary heatervariableSupplementary heaterNA $-/72$ dBHE7553kWh	dh0.97-COPddh9.8KWTj = + 7°CCOPddh9.8KWTj = + 12°CCOPddh8.7kWTj = bivalent temperatureCOPddh8.7kWTj = operation limit temperatureCOPddh8.7kWTj = -15°C (if TOL < -20°C)	dh 0.97 $-$ IJ = + 7°CCOPd 5.94 dh 9.8 KWdh 0.97 $-$ dh 8.7 KWdh 9.2 KWdh 9.2 KWdh 8.7 KWdh 8.7 KWdh 8.7 KWdh 8.7 KWbiv -15 °Cych -15 °Cych $-$ KWSupplementary lefticiencyCOPd 2.22 Operation limit temperatureTOL -25 Cycling interval efficiencyCOPcyc $-$ Heating water operating limit temperatureWTOL 60 Supplementary heaterRated heat output 75 0.018 KW 75 0.000 kWRated air flow rate, outdoors $ 4500$ NA $-/72$ dB HE 7553 KWh

Via Cerreto 40, 25079 Vobarno (BS) - Italy

Technical parameters for heat pump space heaters and heat pump combination heaters

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temperature control and solar device. ANNEX V, Table 8.

Model(s)				PROCIDA AWM T16			
Air-to-water heat pump	x Yes	o No					
Water-to-water heat pump	o Yes	x No					
Brine-to-water heat pump	o Yes	x No					
Low-temperature heat pump	o Yes	x No					
Equipped with a supplementary heater	o Yes	x No					
Heat pump combination heater	o Yes	x No					
Climate conditions	o Average			o Colder	x Warmer		
Temperature application	o Medium (55	5°C)		x Low (35°C)			
Applied Standards	EN14825						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	13	kW	Seasonal space heating energy efficiency	ηs	228	%
Declared capacity for heating for part lo outdoor temperature Tj	ad at indoor te	mperature 2	20 °C and	Declared coefficient of performance or p indoor temperature 20 °C and outdoor te		ratio for pa	rt load a
Tj = - 7°C	Pdh	-	kW	Ti - 7°C	COD4		
Degradation co-efficient	Cdh	-	-	Tj = - 7°C	COPd	-	-
Tj = + 2°C	Pdh	13.2	kW	T: _ + 2°C	COD4	2.04	
Degradation co-efficient	Cdh	0.99	-	Tj = + 2°C	COPd	3.04	-
Tj = + 7°C	Pdh	8.4	kW	T: _ + 7°C	COD4	F 10	
Degradation co-efficient	Cdh	0.98	-	Tj = + 7°C	COPd	5.10	-
Tj = + 12°C	Pdh	9.6	kW	Tj = + 12°C	COPd	7.39	-
Degradation co-efficient	Cdh	0.97	-	IJ = + 12 C	COPa	7.39	-
Tj = bivalent temperature	Pdh	13.2	kW	Tj = bivalent temperature	COPd	3.04	-
Tj = operation limit temperature	Pdh	13.2	kW	Tj = operation limit temperature	COPd	3.04	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
				Cycling interval efficiency	COPcyc	-	-
Cycling interval capacity for heating	Pcych	-	- kW	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other	than active n	node		Supplementary heater			
Off mode	POFF	0.018	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	PTO	0.018	kW		-		
Standby mode	PSB	0.018	kW	Type of energy input			
Crankcase heater mode	РСК	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	4500	m3/ł
Sound power level, indoors/ outdoors	LWA	-/72	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m3/h
Annual energy consumption	QHE	3070	kWh				

Contact details

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