MUNDOCLIMA Aerotherm

BIBLOC UNIT - AEROTHERM V17

Technical Data Manual

www.mundoclima.com

Thank you very much for purchasing our product.
Before using your unit, please read this manual carefully and keep it for future reference.

SO30160 to SO30172
English

Product Fiche

Import: SALVADOR ESCODA SA

Address: C/ PROVENZA 392 P2 08025 BARCELONA (SPAIN)

Models		Climate condition	Sound power level(indoor/ outdoor), L_{WA} [dB]	Medium-temperature application				Low-temperature application			
Outdoor unit	Indoor unit			Rated heat output [kW]	Energy efficiency	Annual energy consumption [kWh]	Energy efficiency classes	Rated heat output [kW]	Energy efficiency	Annual energy consumption [kWh]	Energy efficiency classes
UE BIBLOC AEROTHERM V17 (4KW)	UI BIBLOC AEROTHERM V17 (4 ~ 8KW)	Average	43 / 62	4	127%	2709	A++	4	182%	1943	A+++
		Colder	/	4	100%	3890	/	4	130%	11711	/
		Warmer	/	4	169%	1055	/	4	172%	4058	/
UE BIBLOC AEROTHERM V17 (6KW)	UI BIBLOC AEROTHERM V17 (4 ~ 8KW)	Average	43 / 66	6	129%	3888	A++	6	184%	2659	A+++
		Colder	/	6	104%	5650	/	6	130%	11711	/
		Warmer	/	6	178%	1505	/	6	172%	4058	/
UE BIBLOC AEROTHERM V17 (8KW)	UI BIBLOC AEROTHERM V17 (4 ~ 8KW)	Average	43 / 69	7	125%	4475	A++	8	170%	3794	A++
		Colder	/	7	110%	6054	/	8	149%	5133	/
		Warmer	/	7	154%	2075	/	8	232%	1561	/
UE BIBLOC AEROTHERM V17 (10KW)	UI BIBLOC AEROTHERM V17 (10 ~ 16KW)	Average	45 / 67	10	122%	6953	A+	10	177%	4568	A+++
		Colder	/	10	98%	9931	/	10	136%	7403	/
		Warmer	/	10	167%	2744	/	10	242%	1859	/
UE BIBLOC AEROTHERM V17 (12KW)	UI BIBLOC AEROTHERM V17 (10 ~ 16KW)	Average	45 / 68	12	127%	7835	A++	12	175%	5561	A++
		Colder	/	12	99%	11694	/	12	144%	8065	/
		Warmer	/	12	170%	3151	/	12	246%	2229	/
UE BIBLOC AEROTHERM V17 (14KW)	UI BIBLOC AEROTHERM V17 (10 ~ 16KW)	Average	45 / 71	14	128%	8692	A++	14	168%	6714	A++
		Colder	/	14	103%	13314	/	14	132%	10310	/
		Warmer	/	14	165%	3780	/	14	211%	2971	/
UE BIBLOC AEROTHERM V17 (16KW)	UI BIBLOC AEROTHERM V17 (10 ~ 16KW)	Average	45 / 72	15	124%	9697	A+	16	158%	8265	A++
		Colder	/	15	98%	14451	/	16	130%	11711	/
		Warmer	/	15	178%	3839	/	16	211%	3429	/
UE BIBLOC AEROTHERM V17 (12KW) (TRIF.)	UI BIBLOC AEROTHERM V17 (10 ~ 16KW) (TRIF.)	Average	45 / 70	12	126%	7630	A++	12	179%	5499	A+++
		Colder	/	12	100%	11507	/	12	142%	7953	/
		Warmer	/	12	169%	3190	/	12	245%	2220	/
UE BIBLOC AEROTHERM V17 (14KW) (TRIF.)	UI BIBLOC AEROTHERM V17 (10 ~ 16KW) (TRIF.)	Average	45 / 72	14	129%	8733	A++	14	182%	6304	A+++
		Colder	/	14	103%	13120	/	14	130%	10154	/
		Warmer	/	14	165%	3807	/	14	212%	2957	/
UE BIBLOC AEROTHERM V17 (16KW) (TRIF.)	UI BIBLOC AEROTHERM V17 (10 ~ 16KW) (TRIF.)	Average	45 / 72	15	128%	9394	A++	16	172%	7405	A++
		Colder	/	15	101%	14002	/	16	131%	11626	/
		Warmer	/	15	178%	3813	/	16	210%	3435	/

Specific precautions when the space heater is assembled, installed or maintained:

(1) This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

(2) Turn off the main power supply switch or breaker before attempting any electrical work.Make sure all power switches are off.Failure to do so may cause electric shock.

(3) Perform installation work properly according to the Installation Manual.

(4) Install the heat pump securely in a location where the base can sustain the weight adequately.Perform the specified installation work to guard against an earthquake.If the heat pump is not installed appropriately, accidents may occur due to the falling units.

(5) Conform to the regulations of the local electric company when wiring the power supply.Inappropriate grounding may cause electric shock.

(6) Before cleaning, be sure to stop the operation, turn the breaker off or pull out the supply cord.

(7) Do not operate the heat pump with a wet hand.

(8) Never touch the internal parts of the units.

(9) The company reserves the right to revise product technical parameter without having to notify the clients individually.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (4KW) / UI BIBLOC AEROTHERM V17 (4 ~ 8KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	3.8	kW
Tj = 2 ℃	Pdh	2.4	kW
Tj = 7 ℃	Pdh	1.6	kW
Tj = 12 ℃	Pdh	1.6	kW
Tj = bivalent temperature	Pdh	4.3	kW
Tj = operating limit	Pdh	4.3	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-10	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.051	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	127	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	1.98	-
Tj = 2 ℃	COPd	3.13	-
Tj = 7 ℃	COPd	4.31	-
Tj = 12 ℃	COPd	6.62	-
Tj = bivalent temperature	COPd	1.81	-
Tj = operating limit	COPd	1.81	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	43 / 62	dB
Annual energy consumption	Q_{HE}	2709	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	3180	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (4KW) / UI BIBLOC AEROTHERM V17 (4 ~ 8KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	3.8	kW
Tj = 2 ℃	Pdh	2.4	kW
Tj = 7 ℃	Pdh	1.9	kW
Tj = 12 ℃	Pdh	1.6	kW
Tj = bivalent temperature	Pdh	3.0	kW
Tj = operating limit	Pdh	3.5	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-12	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.051	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	100	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	2.18	-
Tj = 2 ℃	COPd	3.17	-
Tj = 7 ℃	COPd	4.61	-
Tj = 12 ℃	COPd	7.05	-
Tj = bivalent temperature	COPd	1.95	-
Tj = operating limit	COPd	1.32	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	4.1	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	3890	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	3180	m^3/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:								
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (4KW) / UI BIBLOC AEROTHERM V17 (4 ~ 8KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	-	kW
Tj = 2 ℃	Pdh	4.0	kW
Tj = 7 ℃	Pdh	3.0	kW
Tj = 12 ℃	Pdh	1.8	kW
Tj = bivalent temperature	Pdh	4.0	kW
Tj = operating limit	Pdh	4.0	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	2	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.051	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	169	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	-	-
Tj = 2 ℃	COPd	2.28	-
Tj = 7 ℃	COPd	3.40	-
Tj = 12 ℃	COPd	7.10	-
Tj = bivalent temperature	COPd	2.28	-
Tj = operating limit	COPd	2.28	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	1055	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	3180	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (6KW) / UI BIBLOC AEROTHERM V17 (4 ~ 8KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	5.0	kW
Tj = 2 ℃	Pdh	3.4	kW
Tj = 7 ℃	Pdh	2.2	kW
Tj = 12 ℃	Pdh	1.6	kW
Tj = bivalent temperature	Pdh	5.0	kW
Tj = operating limit	Pdh	4.4	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-5	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.051	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	129	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	2.04	-
Tj = 2 ℃	COPd	3.16	-
Tj = 7 ℃	COPd	4.66	-
Tj = 12 ℃	COPd	7.05	-
Tj = bivalent temperature	COPd	2.16	-
Tj = operating limit	COPd	1.73	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	1.9	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	43 / 66	dB
Annual energy consumption	Q_{HE}	3888	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	3180	m^3/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (6KW) / UI BIBLOC AEROTHERM V17 (4 ~ 8KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	3.8	kW
Tj = 2 ℃	Pdh	2.4	kW
Tj = 7 ℃	Pdh	1.9	kW
Tj = 12 ℃	Pdh	1.6	kW
Tj = bivalent temperature	Pdh	4.5	kW
Tj = operating limit	Pdh	3.5	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-12	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.051	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	104	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	2.18	-
Tj = 2 ℃	COPd	3.17	-
Tj = 7 ℃	COPd	4.61	-
Tj = 12 ℃	COPd	7.05	-
Tj = bivalent temperature	COPd	1.90	-
Tj = operating limit	COPd	1.32	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	6.1	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	5650	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	3180	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (6KW) / UI BIBLOC AEROTHERM V17 (4 ~ 8KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	-	kW
Tj = 2 ℃	Pdh	6.0	kW
Tj = 7 ℃	Pdh	4.0	kW
Tj = 12 ℃	Pdh	1.8	kW
Tj = bivalent temperature	Pdh	6.0	kW
Tj = operating limit	Pdh	6.0	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	2	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.051	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	178	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	-	-
Tj = 2 ℃	COPd	2.32	-
Tj = 7 ℃	COPd	3.52	-
Tj = 12 ℃	COPd	7.10	-
Tj = bivalent temperature	COPd	2.32	-
Tj = operating limit	COPd	2.32	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	1505	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	3180	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (8KW) / UI BIBLOC AEROTHERM V17 (4 ~ 8KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	6.1	kW
Tj = 2 ℃	Pdh	3.8	kW
Tj = 7 ℃	Pdh	2.5	kW
Tj = 12 ℃	Pdh	2.2	kW
Tj = bivalent temperature	Pdh	6.1	kW
Tj = operating limit	Pdh	6.2	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.051	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	125	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	2.00	-
Tj = 2 ℃	COPd	3.10	-
Tj = 7 ℃	COPd	4.28	-
Tj = 12 ℃	COPd	6.53	-
Tj = bivalent temperature	COPd	2.00	-
Tj = operating limit	COPd	1.71	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0.7	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	43 / 69	dB
Annual energy consumption	Q_{HE}	4475	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	5116	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (8KW) / UI BIBLOC AEROTHERM V17 (4 ~ 8KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	4.3	kW
Tj = 2 ℃	Pdh	2.7	kW
Tj = 7 ℃	Pdh	2.3	kW
Tj = 12 ℃	Pdh	2.4	kW
Tj = bivalent temperature	Pdh	5.5	kW
Tj = operating limit	Pdh	4.8	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-14	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.051	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	110	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	2.26	-
Tj = 2 ℃	COPd	3.43	-
Tj = 7 ℃	COPd	4.63	-
Tj = 12 ℃	COPd	6.73	-
Tj = bivalent temperature	COPd	1.86	-
Tj = operating limit	COPd	1.35	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	7.0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	6054	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	5116	m^3/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (8KW) / UI BIBLOC AEROTHERM V17 (4 ~ 8KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	-	kW
Tj = 2 ℃	Pdh	7.2	kW
Tj = 7 ℃	Pdh	4.7	kW
Tj = 12 ℃	Pdh	2.1	kW
Tj = bivalent temperature	Pdh	7.2	kW
Tj = operating limit	Pdh	7.2	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	2	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.051	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	154	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	-	-
Tj = 2 ℃	COPd	2.25	-
Tj = 7 ℃	COPd	3.27	-
Tj = 12 ℃	COPd	5.33	-
Tj = bivalent temperature	COPd	2.25	-
Tj = operating limit	COPd	2.25	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	2075	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	5116	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (10KW) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	9.6	kW
Tj = 2 ℃	Pdh	5.9	kW
Tj = 7 ℃	Pdh	3.5	kW
Tj = 12 ℃	Pdh	2.5	kW
Tj = bivalent temperature	Pdh	10.4	kW
Tj = operating limit	Pdh	10.4	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-10	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	122	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	1.97	-
Tj = 2 ℃	COPd	3.02	-
Tj = 7 ℃	COPd	4.05	-
Tj = 12 ℃	COPd	5.81	-
Tj = bivalent temperature	COPd	1.76	-
Tj = operating limit	COPd	1.76	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0.1	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	45 / 67	dB
Annual energy consumption	Q_{HE}	6953	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (10KW) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	6.2	kW
Tj = 2 ℃	Pdh	3.9	kW
Tj = 7 ℃	Pdh	2.4	kW
Tj = 12 ℃	Pdh	1.1	kW
Tj = bivalent temperature	Pdh	8.3	kW
Tj = operating limit	Pdh	7.1	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-15	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	98	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	2.15	-
Tj = 2 ℃	COPd	2.98	-
Tj = 7 ℃	COPd	3.93	-
Tj = 12 ℃	COPd	2.89	-
Tj = bivalent temperature	COPd	1.66	-
Tj = operating limit	COPd	1.30	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	10.2	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	9931	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (10KW) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	-	kW
Tj = 2 ℃	Pdh	10.3	kW
Tj = 7 ℃	Pdh	6.7	kW
Tj = 12 ℃	Pdh	5.2	kW
Tj = bivalent temperature	Pdh	10.3	kW
Tj = operating limit	Pdh	10.3	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	2	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	167	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	-	-
Tj = 2 ℃	COPd	2.34	-
Tj = 7 ℃	COPd	3.54	-
Tj = 12 ℃	COPd	6.28	-
Tj = bivalent temperature	COPd	2.34	-
Tj = operating limit	COPd	2.34	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	2744	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (12KW) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	10.9	kW
Tj = 2 ℃	Pdh	7.0	kW
Tj = 7 ℃	Pdh	4.2	kW
Tj = 12 ℃	Pdh	2.5	kW
Tj = bivalent temperature	Pdh	10.3	kW
Tj = operating limit	Pdh	10.3	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-10	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	127	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	2.02	-
Tj = 2 ℃	COPd	3.05	-
Tj = 7 ℃	COPd	4.49	-
Tj = 12 ℃	COPd	5.97	-
Tj = bivalent temperature	COPd	1.73	-
Tj = operating limit	COPd	1.73	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	2.0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	45 / 68	dB
Annual energy consumption	Q_{HE}	7835	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (12KW) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	7.7	kW
Tj = 2 ℃	Pdh	4.6	kW
Tj = 7 ℃	Pdh	2.9	kW
Tj = 12 ℃	Pdh	2.4	kW
Tj = bivalent temperature	Pdh	9.9	kW
Tj = operating limit	Pdh	7.0	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-15	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	99	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	2.12	-
Tj = 2 ℃	COPd	2.91	-
Tj = 7 ℃	COPd	4.08	-
Tj = 12 ℃	COPd	6.00	-
Tj = bivalent temperature	COPd	1.78	-
Tj = operating limit	COPd	1.28	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	12.1	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	11694	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m^3/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (12KW) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	-	kW
Tj = 2 ℃	Pdh	12.0	kW
Tj = 7 ℃	Pdh	7.8	kW
Tj = 12 ℃	Pdh	5.3	kW
Tj = bivalent temperature	Pdh	12.0	kW
Tj = operating limit	Pdh	12.0	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	2	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	170	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	-	-
Tj = 2 ℃	COPd	2.41	-
Tj = 7 ℃	COPd	3.52	-
Tj = 12 ℃	COPd	6.33	-
Tj = bivalent temperature	COPd	2.41	-
Tj = operating limit	COPd	2.41	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	3151	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (14KW) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	12.2	kW
Tj = 2 ℃	Pdh	8.3	kW
Tj = 7 ℃	Pdh	5.0	kW
Tj = 12 ℃	Pdh	2.7	kW
Tj = bivalent temperature	Pdh	12.3	kW
Tj = operating limit temperature	Pdh	10.3	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	128	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	2.00	-
Tj = 2 ℃	COPd	3.14	-
Tj = 7 ℃	COPd	4.56	-
Tj = 12 ℃	COPd	6.24	-
Tj = bivalent temperature	COPd	2.00	-
Tj = operating limit temperature	COPd	1.66	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	3.5	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	45 / 71	dB
Annual energy consumption	Q_{HE}	8692	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m^3/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (14KW) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	8.8	kW
Tj = 2 ℃	Pdh	5.3	kW
Tj = 7 ℃	Pdh	3.3	kW
Tj = 12 ℃	Pdh	2.4	kW
Tj = bivalent temperature	Pdh	10.5	kW
Tj = operating limit temperature	Pdh	7.1	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-12	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	103	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	2.19	-
Tj = 2 ℃	COPd	3.17	-
Tj = 7 ℃	COPd	4.40	-
Tj = 12 ℃	COPd	6.15	-
Tj = bivalent temperature	COPd	1.85	-
Tj = operating limit temperature	COPd	1.29	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	14.3	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	13314	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (14KW) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	-	kW
Tj = 2 ℃	Pdh	14.0	kW
Tj = 7 ℃	Pdh	9.3	kW
Tj = 12 ℃	Pdh	4.2	kW
Tj = bivalent temperature	Pdh	14.0	kW
Tj = operating limit	Pdh	14.0	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	2	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	165	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	-	-
Tj = 2 ℃	COPd	2.31	-
Tj = 7 ℃	COPd	3.45	-
Tj = 12 ℃	COPd	5.76	-
Tj = bivalent temperature	COPd	2.31	-
Tj = operating limit	COPd	2.31	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	3780	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m^3/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (16KW) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	11.5	kW
Tj = 2 ℃	Pdh	8.1	kW
Tj = 7 ℃	Pdh	5.2	kW
Tj = 12 ℃	Pdh	2.5	kW
Tj = bivalent temperature	Pdh	12.0	kW
Tj = operating limit	Pdh	10.3	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-5	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	124	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	1.95	-
Tj = 2 ℃	COPd	3.05	-
Tj = 7 ℃	COPd	4.52	-
Tj = 12 ℃	COPd	5.96	-
Tj = bivalent temperature	COPd	2.05	-
Tj = operating limit	COPd	1.70	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	4.6	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	45 / 72	dB
Annual energy consumption	Q_{HE}	9697	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (16KW) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	8.8	kW
Tj = 2℃	Pdh	5.3	kW
Tj = 7℃	Pdh	3.3	kW
Tj = 12℃	Pdh	2.4	kW
Tj = bivalent temperature	Pdh	10.1	kW
Tj = operating limit	Pdh	7.1	kW
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-10	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	98	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	COPd	2.19	-
Tj = 2℃	COPd	3.17	-
Tj = 7℃	COPd	4.40	-
Tj = 12℃	COPd	6.15	-
Tj = bivalent temperature	COPd	1.85	-
Tj = operating limit	COPd	1.29	-
For air-to-water heat pumps: Tj = -15℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	14.8	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	14451	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (16KW) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	-	kW
Tj = 2 ℃	Pdh	15.3	kW
Tj = 7 ℃	Pdh	9.9	kW
Tj = 12 ℃	Pdh	4.4	kW
Tj = bivalent temperature	Pdh	15.3	kW
Tj = operating limit	Pdh	15.3	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	2	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	178	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	-	-
Tj = 2 ℃	COPd	2.42	-
Tj = 7 ℃	COPd	3.80	-
Tj = 12 ℃	COPd	6.08	-
Tj = bivalent temperature	COPd	2.42	-
Tj = operating limit	COPd	2.42	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	3839	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (12KW) /TRIF.) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW) (TRIF.)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	10.7	kW
Tj = 2 ℃	Pdh	6.6	kW
Tj = 7 ℃	Pdh	4.2	kW
Tj = 12 ℃	Pdh	3.5	kW
Tj = bivalent temperature	Pdh	11.5	kW
Tj = operating limit	Pdh	10.9	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-9	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	126	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	1.96	-
Tj = 2 ℃	COPd	3.02	-
Tj = 7 ℃	COPd	4.51	-
Tj = 12 ℃	COPd	6.69	-
Tj = bivalent temperature	COPd	1.77	-
Tj = operating limit	COPd	1.67	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	1.0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	45 / 70	dB
Annual energy consumption	Q_{HE}	7630	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (12KW) /TRIF.) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW) (TRIF.)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	7.4	kW
Tj = 2 ℃	Pdh	4.5	kW
Tj = 7 ℃	Pdh	2.9	kW
Tj = 12 ℃	Pdh	2.4	kW
Tj = bivalent temperature	Pdh	9.8	kW
Tj = operating limit	Pdh	7.0	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-15	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	100	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	2.15	-
Tj = 2 ℃	COPd	2.92	-
Tj = 7 ℃	COPd	4.08	-
Tj = 12 ℃	COPd	6.00	-
Tj = bivalent temperature	COPd	1.78	-
Tj = operating limit	COPd	1.28	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	12.0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	11507	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (12KW) /TRIF.) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW) (TRIF.)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	-	kW
Tj = 2 ℃	Pdh	12.1	kW
Tj = 7 ℃	Pdh	7.9	kW
Tj = 12 ℃	Pdh	5.3	kW
Tj = bivalent temperature	Pdh	12.1	kW
Tj = operating limit	Pdh	12.1	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	2	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	169	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	-	-
Tj = 2 ℃	COPd	2.35	-
Tj = 7 ℃	COPd	3.50	-
Tj = 12 ℃	COPd	6.33	-
Tj = bivalent temperature	COPd	2.35	-
Tj = operating limit	COPd	2.35	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	3190	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m^3/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (14KW) /TRIF.) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW) (TRIF.)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	12.4	kW
Tj = 2 ℃	Pdh	7.5	kW
Tj = 7 ℃	Pdh	5.0	kW
Tj = 12 ℃	Pdh	3.4	kW
Tj = bivalent temperature	Pdh	12.4	kW
Tj = operating limit temperature	Pdh	10.1	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	129	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	2.02	-
Tj = 2 ℃	COPd	3.08	-
Tj = 7 ℃	COPd	4.71	-
Tj = 12 ℃	COPd	6.72	-
Tj = bivalent temperature	COPd	2.02	-
Tj = operating limit temperature	COPd	1.65	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	3.8	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	45 / 72	dB
Annual energy consumption	Q_{HE}	8733	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (14KW) /TRIF.) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW) (TRIF.)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	8.8	kW
Tj = 2℃	Pdh	5.3	kW
Tj = 7℃	Pdh	3.5	kW
Tj = 12℃	Pdh	2.4	kW
Tj = bivalent temperature	Pdh	10.4	kW
Tj = operating limit temperature	Pdh	7.1	kW
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-12	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	103	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	COPd	2.19	-
Tj = 2℃	COPd	3.17	-
Tj = 7℃	COPd	4.45	-
Tj = 12℃	COPd	6.15	-
Tj = bivalent temperature	COPd	1.88	-
Tj = operating limit temperature	COPd	1.29	-
For air-to-water heat pumps: Tj = -15℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	14.1	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	13120	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (14KW) /TRIF.) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW) (TRIF.)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	-	kW
Tj = 2 ℃	Pdh	14.1	kW
Tj = 7 ℃	Pdh	9.3	kW
Tj = 12 ℃	Pdh	4.2	kW
Tj = bivalent temperature	Pdh	14.1	kW
Tj = operating limit	Pdh	14.1	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	2	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	165	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	-	-
Tj = 2 ℃	COPd	2.31	-
Tj = 7 ℃	COPd	3.45	-
Tj = 12 ℃	COPd	5.76	-
Tj = bivalent temperature	COPd	2.31	-
Tj = operating limit	COPd	2.31	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	3807	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (16KW) /TRIF.) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW) (TRIF.)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	13.0	kW
Tj = 2 ℃	Pdh	8.2	kW
Tj = 7 ℃	Pdh	5.4	kW
Tj = 12 ℃	Pdh	3.6	kW
Tj = bivalent temperature	Pdh	12.6	kW
Tj = operating limit	Pdh	10.9	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-6	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	128	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	2.01	-
Tj = 2 ℃	COPd	3.05	-
Tj = 7 ℃	COPd	4.74	-
Tj = 12 ℃	COPd	7.03	-
Tj = bivalent temperature	COPd	2.07	-
Tj = operating limit	COPd	1.67	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	4.0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	45 / 72	dB
Annual energy consumption	Q_{HE}	9394	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (14KW) /TRIF.) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW) (TRIF.)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	9.0	kW
Tj = 2 ℃	Pdh	5.5	kW
Tj = 7 ℃	Pdh	3.5	kW
Tj = 12 ℃	Pdh	2.4	kW
Tj = bivalent temperature	Pdh	10.1	kW
Tj = operating limit	Pdh	7.1	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-10	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	101	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	2.15	-
Tj = 2 ℃	COPd	3.20	-
Tj = 7 ℃	COPd	4.42	-
Tj = 12 ℃	COPd	6.15	-
Tj = bivalent temperature	COPd	1.85	-
Tj = operating limit	COPd	1.29	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	14.8	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	14002	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

Technical parameters

Model(s):	UE BIBLOC AEROTHERM V17 (14KW) /TRIF.) / UI BIBLOC AEROTHERM V17 (10 ~ 16KW) (TRIF.)
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	Pdh	-	kW
Tj = 2 ℃	Pdh	15.2	kW
Tj = 7 ℃	Pdh	9.9	kW
Tj = 12 ℃	Pdh	4.4	kW
Tj = bivalent temperature	Pdh	15.2	kW
Tj = operating limit	Pdh	15.2	kW
For air-to-water heat pumps: Tj = -15 ℃	Pdh	-	kW
Bivalent temperature	T_{biv}	2	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.019	kW
Standby mode	P_{sb}	0.019	kW
Thermostat-off mode	P_{to}	0.078	kW
Crankcase heater mode	P_{ck}	0.014	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	178	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 ℃	COPd	-	-
Tj = 2 ℃	COPd	2.42	-
Tj = 7 ℃	COPd	3.80	-
Tj = 12 ℃	COPd	6.08	-
Tj = bivalent temperature	COPd	2.42	-
Tj = operating limit	COPd	2.42	-
For air-to-water heat pumps: Tj = -15 ℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-	dB
Annual energy consumption	Q_{HE}	3813	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m^3/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			**Water heating energy efficiency**	η_{wh}	-	%
Daily electricity consumption	Q_{elec}	-	kWh	Daily fuel consumption	Q_{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	SALVADOR ESCODA SA PROVENZA, 392 P2, BARCELONA (SPAIN)

(*) 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.

MUNDOCLIMA®
Aerotherm

www.mundoclima.com

ASK FOR MORE INFORMATION
Phone: (+34) 93 446 27 81
eMail: info@mundoclima.com

TECHNICAL ASSISTANCE
Phone: (+34) 93 652 53 57