Information for heat pump space heaters and heat pump combination heaters Warm climate and Medium temperature

Høiax AS



Warm climate and Medium temperatur	e		Fredrikst	ad, Norway 🔍 SYSTEMS
Model(s):	Høiax amina eco	10 Inverter 400V + Høiax anima eco Tow	er 230/400v	
Air-to-water heat pump:	Yes	Energy efficiency class:		-
Water-to-water heat pump:	No	Controller class:	VI	-
Brine-to-water heat pump:	No	Controller contribution:	4	%
Low-temperature heat pump:	No	Package efficiency:	177	%
Equipped with a supplementary heater:	Yes	Package efficiency class:		-

Heat pump combination heater: Yes

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	η _s	173	%
Declared capacity for heating for outdoor temperature T j	or part load at ind	oor temperatu	re 20 °C and	Declared coefficient of performar load at indoor temperature 20 °C	-		-
T j = – 7 °C	Pdh	na	kW	T j = – 7 °C	COPd	na] -
T j = + 2 °C	Pdh	7,3	kW	T j = +2 °C	COPd	2,36	-
T j = + 7 °C	Pdh	4,6	kW	T j = +7 °C	COPd	4,06	-
T j = + 12 °C	Pdh	2,8	kW	T j = +12 °C	COPd	5,68	-
T j = bivalent temperature	Pdh	7,3	kW	T j = bivalent temperature	COPd	2,36	-
T j = operation limit temperature	Pdh	7,3	kW	T j = operation limit temperature	COPd	2,36	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P cych	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes of	other than active	mode		Supplementary heater			_
Off mode	P _{OFF}	0,014	kW	Rated heat output (*)	Psup	0,0	kW
Thermostat-off mode	Р _{то}	0,014	kW				
Standby mode	P _{SB}	0,014	kW	Type of energy input		Electric	
Crankcase heater mode	Рск	0,000	kW				
Other items		,					
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2350	m3/h
L Sound power level, indoors/ outdoors	L _{WA}	na/53	dB	For water-/brine-to-water heat pumps: Rated brine or water	_	na	m3/h
Annual energy consumption	Q _{HE}	2121	kWh	flow rate, outdoor heat exchanger			1113/11
For heat pump combination hea	ater:						
Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	η_{wh}	122	%
Daily electricity consumption	Qelec	6,232	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1371	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product importance that the	t's life cycle, it mu ne product's refrig	a recycling station or with the installation engi st be sent correctly to a waste station or reselle erant, compressor oil and electrical/electronic Id waste is not permitted.	er offering a serv	ice of that type.	It is of great
Contact details	Høiax AS, Trippevei	en 5, Fredrikstad	, Norway www.	hoiax.no			181005

Information for heat pump space heaters and heat pump combination heaters Warm climate and Low temperature

Høiax AS



Warm climate and Low temperature			Fredrikst	ad, Norway 🔍 SYSTEMS
Model(s):	Høiax amina eco	10 Inverter 400V + Høiax anima eco Tow	er 230/400v	
Air-to-water heat pump:	Yes	Energy efficiency class:		-
Water-to-water heat pump:	No	Controller class:	VI	-
Brine-to-water heat pump:	No	Controller contribution:	4	%
Low-temperature heat pump:	No	Package efficiency:	238	%
Equipped with a supplementary heater:	Yes	Package efficiency class:		-

Heat pump combination heater: Yes

Rated heat output (*)	Prated						
		7	kW	Seasonal space heating energy efficiency	η _s	234	%
Declared capacity for heating for p outdoor temperature T j	oart load at ind	oor temperatu	re 20 °C and	Declared coefficient of performan load at indoor temperature 20 °C			•
T j = – 7 °C	Pdh	na	kW	T j = – 7 °C	COPd	na] -
T j = + 2 °C	Pdh	6,5	kW	T j = +2 °C	COPd	3,47	-
T j = + 7 °C	Pdh	4,4	kW	T j = +7 °C	COPd	6,02	-
T j = + 12 °C	Pdh	2,9	kW	T j = +12 °C	COPd	7,13	-
T j = bivalent temperature	Pdh	6,5	kW	T j = bivalent temperature	COPd	3,47	-
T j = operation limit temperature	Pdh	6,5	kW	T j = operation limit temperature	COPd	3,47	-
For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other	er than active r	node		Supplementary heater			_
Off mode	P _{OFF}	0,014	kW	Rated heat output (*)	Psup	0,0	kW
Thermostat-off mode	P _{TO}	0,014	kW				
Standby mode	P _{SB}	0,014	kW	Type of energy input		Electric	
Crankcase heater mode	Р _{ск}	0,000	kW				
Other items							
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2350	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/53	dB	For water-/brine-to-water heat pumps: Rated brine or water	-	na	m3/h
Annual energy consumption	Q _{HE}	1469	kWh	flow rate, outdoor heat exchanger			
For heat pump combination heate	er:						
Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	η_{wh}	122	%
Daily electricity consumption	Qelec	6,232	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1371	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product importance that the	t's life cycle, it mu ne product's refrig	a recycling station or with the installation engin st be sent correctly to a waste station or reselle erant, compressor oil and electrical/electronic Id waste is not permitted.	r offering a servi	ice of that type. I	It is of great
Contact details Hø	iax AS, Trippev	eien 5, Fredriks	stad, Norway	www.hoiax.no			181005

Information for heat pump space heaters and heat pump combination heaters Average climate and Medium temperature

Høiax AS



Average climate and Medium tempera		Fredrikst							
Model(s):	Høiax amina eco	Høiax amina eco 10 Inverter 400V + Høiax anima eco Tower 230/400v							
Air-to-water heat pump:	Yes	Energy efficiency class:	A++	-					
Water-to-water heat pump:	No	Controller class:	VI	-					
Brine-to-water heat pump:	Νο	Controller contribution:	4	%					
Low-temperature heat pump:	No	Package efficiency:	147	%					
Equipped with a supplementary heater:	Yes	Package efficiency class:	A++	-					
Heat pump combination heater:	Yes								

Sound power level, indoors/ outdoors L _{WA} Max na/53 MB dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger na m3/h Annual energy consumption Q _{HE} 3743 kWh For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger na m3/h For heat pump combination heater: Declared load profile XL Efficiency class A Water heating energy efficiency nwh 97 % Daily electricity consumption Qelec 7,880 kWh Daily fuel consumption Qfuel NA kWh Annual electricity consumption AEC 1734 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.	ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
outdoor temperature T jT j = - 7 °CPdh5,9kWT j = - 7 °CC QPd2,03-T j = + 7 °CPdh3,6kWT j = - 7 °CC QPd3,81-T j = + 7 °CPdh2,4kWT j = + 7 °CC QPd4,86-T j = + 12 °CPdh2,8kWT j = + 7 °CC QPd4,86-T j = operation limitPdh5,9kWT j = + 12 °CC QPd5,90-T j = operation limitPdh5,3kWT j = operation limitC QPd2,03-T j = operation limitPdh5,3kWT j = operation limitC QPd1,777-For air to water heat pumps:T j = -15 °C (if TOL < -20 °C)Pdhna <t< th=""><th>Rated heat output (*)</th><th>Prated</th><th>7</th><th>kW</th><th></th><th>η_s</th><th>143</th><th>%</th></t<>	Rated heat output (*)	Prated	7	kW		η _s	143	%
T j = + 2 ° CPdh 3.6 kWT j = + 7 ° CCOPd 3.81 .T j = + 12 ° CPdh 2.4 kWT j = + 7 ° CCOPd 4.86 .T j = bivalent temperaturePdh 5.9 kWT j = + 12 ° CCOPd 5.90 .T j = operation limit temperaturePdh 5.3 kWT j = operation limit temperatureCOPd 1.77 .For air-to-water heat pumps: T j = -15 ° C (if TOL < - 20 ° C)		or part load at inc	loor temperatu	re 20 °C and		-		-
TJFPPPPTj = +7 °CCOPd4,86-Tj = +12 °CPPKWTj = +27 °CCOPd4,86Tj = bivalent temperaturePPS,9KWTj = bivalent temperatureCOPd2,03-Tj = operation limitPPS,3KWTj = operation limitCOPd1,77-For air-to-water heat pumps:PPnaKWFor air-to-water heat pumps:COPdna-For air-to-water heat pumps:PnaKWFor air-to-water heat pumps:COPdna-Bivalent temperatureTP-7°CFor air-to-water heat pumps:COL-10°CCycling interval capacity for heatingPnakWCycling interval efficiencyCOPcycna-Degradation co-efficientCdh0,98-Heating water operating limit wTOLS5°CPower consumption in modes other than active mode0,014 kWKWType of energy inputElectricOff modeP0,014 kWKWType of energy inputElectricna/z/hCapacity controlVariableS743 kWhFor air-to-water heat pumps: Rated air flow rate, outdoors-2350m3/hSound power level, indoors/ outdoorsLKWhAWater heating energy end air-couldoor heat exchanger-nam3/h	T j = – 7 °C	Pdh	5,9	kW	T j = – 7 °C	COPd	2,03] -
T j = + 12 °CPdh2,8kWT j = + 12 °CCOPd5,90T j = operation limit temperaturePdh5,9kWT j = operation limit temperatureCOPd2,03T j = operation limit temperaturePdh5,3kWT j = operation limit temperatureCOPd1,77For air-to-water heat pumps: T j = - 15° (if TOL < - 20°C)	,	Pdh		kW	,	COPd		-
T j = bivalent temperaturePdh5,9kWT j = bivalent temperatureCOPd2,03.T j = operation limit temperaturePdh5,3kWT j = operation limit temperatureCOPd1,77.For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	-							
T j = operation limit temperature Pdh $5,3$ kWT j = operation limit temperature $COPd$ $1,77$ \cdot For air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)	T j = + 12 °C	Pdh	2,8	kW	T j = +12 °C	COPd	5,90	
temperaturePah5,3KWtemperatureCOPd1,77-For air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)	T j = bivalent temperature	Pdh	5,9	kW	T j = bivalent temperature	COPd	2,03	-
T j = -15 °C (if TOL < -20 °C)PahnaKWT j = -15 °C (if TOL < -20 °C)CDPana-7Bivalent temperatureT biv-7°CFor air-to-water heat pumps: Operation limit temperatureTOL-10°CCycling interval capacity for heating P_{cych} nakWCycling interval efficiency $COPcyc$ na-Degradation co-efficient Cdh $0,98$ -Heating water operating limit temperature $WTOL$ 55°CPower consumption in modes other than active mode $0,014$ kW Supplementary heater Rated heat output (*) $Psup$ 1,3 kW Thermostat-off mode P_{cor} $0,014$ kW Type of energy inputElectricCrankcase heater mode P_{ss} $0,000$ kW Type of energy inputElectricCapacity controlVariableFor air-to-water heat pumps: Rated air flow rate, outdoors2350 $m3/h$ Sound power level, indoors/ outdoors L_{WA} $na/53$ dB Mare r-brine-owater heat exchangerna $m3/h$ For heat pump combination heater:ToClassAWater heating energy efficiency n_{wh} 977 %Daily electricity consumptionQelec $7,880$ kWhAnnual fuel consumption Q_{tuel} NAKWhAnnual electricity consumptionAEC1734kWhAnnual fuel consumptionAFCNAGJSpecific precautions and end of life formation:Trace frigherar,		Pdh	5,3	kW		COPd	1,77	-
Bavalent temperature T_{biv} -7 </td <td></td> <td>Pdh</td> <td>na</td> <td>kW</td> <td></td> <td>COPd</td> <td>na</td> <td>-</td>		Pdh	na	kW		COPd	na	-
heating P_{cych} nakWCycling interval efficiency $COPyc$ na-Degradation co-efficient Cdh $0,98$ -Heating water operating limit $WTOL$ 55 *CPower consumption in modes other than active mode $0,014$ kW Supplementary heaterSupplementary heaterSupplementary heaterOff mode P_{ore} $0,014$ kW Standby mode P_{ss} $0,014$ kW Thermostat-off mode P_{ro} $0,014$ kW Type of energy inputElectricCrankcase heater mode P_{cx} $0,000$ kW Type of energy inputElectricCapacity controlVariableFor air-to-water heat pumps: Rated air flow rate, outdoors-2350 $m3/h$ Sound power level, indoors/ outdoors L_{WA} $na/53$ dB flow rate, outdoor heat exchanger-na $m3/h$ For heat pump combination heater: D Efficiency classA A $Mater heating energyefficiencyN_{wh}97\%Daily electricity consumptionconsumptionQelec7,880kWhAAMater heating energyefficiencyN_{wh}M_{wh}Specific precautions and endof life information:The packaging must be deposited at a reycling station or with the instaltation engineer for correct waste management. At theend of the product's iffergrant, compressor oil and electrical/electronic equipment are properly disposed d.Disposing of the product is not permitted.$	Bivalent temperature	T _{biv}	-7	°C		TOL	-10	°C
Degradation co-efficient Cdh 0,98 - temperature W10L 55 *C Power consumption in modes other than active mode Off mode Porr 0,014 kW Supplementary heater Rated heat output (*) Psup 1,3 kW Thermostat-off mode Pro 0,014 kW Rated heat output (*) Psup 1,3 kW Standby mode Pss 0,014 kW Type of energy input Electric Electric Crankcase heater mode Pcx 0,000 kW Type of energy input Electric m3/h Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoors - na m3/h Sound power level, indoors/ outdoors L na/53 dB B For water/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - na m3/h For heat pump combination heater: Efficiency A Water heating energy n _{wh} 97 % Daily electricity consumption Qelec 7,880 kWh Annual electricity Annual electricity Annual fuel consumption Qfuel		P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	_
Off mode P orr 0,014 kW Rated heat output (*) P sup 1,3 kW Thermostat-off mode P ro 0,014 kW Type of energy input Electric Standby mode P sa 0,014 kW Type of energy input Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Other items Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoors - 2350 m3/h Sound power level, indoors/ outdoors L WA na/53 dB Annual energy consumption Q HE 3743 kWh For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger - na m3/h For heat pump combination heater: Declared load profile XL Efficiency class A Water heating energy efficiency N_wh 97 % Daily electricity consumption Qelec 7,880 kWh Annual fuel consumption Qfuel NA kWh Annual electricity consumption AEC 1734 kWh Annual fuel consumption AFC NA G	Degradation co-efficient	Cdh	0,98	-	а , а	WTOL	55	°C
Thermostat-off mode $P_{\tau 0}$ $0,014$ kW Standby mode P_{58} $0,014$ kW Crankcase heater mode P_{cx} $0,000$ kW Other items $0,000$ kW Capacity controlVariableFor air-to-water heat pumps: Rated air flow rate, outdoors-2350 $m3/h$ Sound power level, indoors/ outdoors L_{WA} $na/53$ dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoors-na $m3/h$ Annual energy consumption Q_{HE} 3743 kWh Water heating energy efficiencynwh 97 %Daily electricity consumptionQelec $7,880$ kWhMaurual fuel consumptionQfuelNAkWhAnnual electricity consumptionAEC 1734 kWhAnnual fuel consumptionAFCNAGJSpecific precautions and end of life information:The packaging must be deposited at a recycling station or with the installation engineer of ro correct waste management. At the emportance that the product's if erycling station or with the installation engineer of correct waste management. At the end of the product's if erycling station or with the installation engineer of correct waste management. At the end of the product's if erycling station or with the installation engineer of correct waste management. At the end of the product's if erycling station or with the installation engineer of correct waste management. At the end of the product's if erycling station or with the installation engineer of engine	Power consumption in modes	other than active	mode		Supplementary heater			_
Standby mode P 58 0,014 kW Type of energy input Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Other items - <t< td=""><td>Off mode</td><td>P _{OFF}</td><td>0,014</td><td>kW</td><td>Rated heat output (*)</td><td>Psup</td><td>1,3</td><td>kW</td></t<>	Off mode	P _{OFF}	0,014	kW	Rated heat output (*)	Psup	1,3	kW
Crankcase heater mode P ck 0,000 kW Other items Other items For air-to-water heat pumps: Rated air flow rate, outdoors - 2350 m3/h Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoors - 2350 m3/h Sound power level, indoors/ outdoors L wA na/53 dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - na m3/h Annual energy consumption Q HE 3743 kWh Rechards and and are consumption - na m3/h For heat pump combination heater: Efficiency A Water heating energy - na m3/h Daily electricity consumption Qelec 7,880 kWh Daily fuel consumption Qfuel NA kWh Annual electricity AEC 1734 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's iffecycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's	Thermostat-off mode	Р _{то}	0,014	kW				
Other items Capacity control Variable Sound power level, indoors/ outdoors L wA Max na/53 Max Annual energy consumption Q HE 3743 kWh For water./brine-to-water heat pumps: Rated air flow rate, outdoors - Annual energy consumption Q HE 3743 kWh For heat pump combination heater: Declared load profile XL Efficiency class A Daily electricity consumption Qelec 7,880 kWh Daily fuel consumption Qelec 7,880 kWh Annual fuel consumption Qfuel NA kWh Annual fuel consumption AEC 1734 kWh Annual fuel consumption AFC NA AGJ The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent corrective to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permilted.	Standby mode	P _{SB}	0,014	kW	Type of energy input		Electric	
Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoors 2350 m3/h Sound power level, indoors/ outdoors L _{WA} na/53 dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - na m3/h Annual energy consumption Q _{HE} 3743 kWh For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - na m3/h For heat pump combination heater: Efficiency class A Water heating energy efficiency n _{wh} 97 % Daily electricity consumption Qelec 7,880 kWh Daily fuel consumption Qfuel NA kWh Annual electricity consumption AEC 1734 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer of correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product is not permitted.	Crankcase heater mode	Р _{ск}	0,000	kW				
Capacity control Variable Rated air flow rate, outdoors 2350 m3/n Sound power level, indoors/ outdoors L WA na/53 dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger na m3/n Annual energy consumption Q HE 3743 kWh Reter heating energy efficiency na m3/n For heat pump combination heater: Efficiency A Water heating energy n_wh 97 % Daily electricity consumption Qelec 7,880 kWh Daily fuel consumption Qfuel NA kWh Annual electricity consumption AEC 1734 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.	Other items		1 1					
outdoors L WA na/53 dB pumps: Rated brine or water na m3/h Annual energy consumption Q HE 3743 kWh dB pumps: Rated brine or water na m3/h For heat pump combination heater: Declared load profile XL Efficiency A Water heating energy nwh 97 % Daily electricity consumption Qelec 7,880 kWh Daily fuel consumption Qfuel NA kWh Annual electricity AEC 1734 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's life cycle, it must be sent correctly delectronic equipment are properly disposed of. Disposing of the product's net prigrant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.	Capacity control		Variable			-	2350	m3/h
Annual energy consumption Q HE 3743 kWh flow rate, outdoor heat exchanger For heat pump combination heater: Peclared load profile XL Efficiency class A Water heating energy efficiency efficiency efficiency and efficiency of the state of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product as household waste is not permitted.	•	L _{WA}	na/53	dB	pumps: Rated brine or water	_	na	m3/h
Declared load profile XL Efficiency class A Water heating energy efficiency η_{wh} 97 % Daily electricity consumption Qelec 7,880 kWh Daily fuel consumption Qfuel NA kWh Annual electricity consumption AEC 1734 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.	Annual energy consumption	Q _{HE}	3743	kWh				
Declared load profile XL class A efficiency I wh 97 % Daily electricity consumption Qelec 7,880 kWh Daily fuel consumption Qfuel NA kWh Annual electricity AEC 1734 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product a service of that type. It is of great importance that the product as household waste is not permitted.	For heat pump combination he	eater:						
Annual electricity consumption AEC 1734 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.	Declared load profile	XL	-	Α		η_{wh}	97	%
AEC 1734 KWh Annual fuel consumption AFC NA GJ consumption Specific precautions and end of the product's life cycle, it must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted. Disposing of the product as household waste is not permitted.	Daily electricity consumption	Qelec	7,880	kWh	Daily fuel consumption	Qfuel	NA	kWh
Specific precautions and end end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.	•	AEC	1734	kWh	Annual fuel consumption	AFC	NA	GJ
	Specific precautions and end		end of the product importance that the	t's life cycle, it mu ne product's refrig	st be sent correctly to a waste station or reselle erant, compressor oil and electrical/electronic	er offering a servi	ice of that type.	It is of great
Contact details Høiax AS, Trippeveien 5, Fredrikstad, Norway www.hoiax.no 181005	Contact details	Høiax AS, Trippev	veien 5, Fredriks	stad, Norway	www.hoiax.no			181005

Information for heat pump space heaters and heat pump combination heaters Average climate and Low temperature

Høiax AS



Average climate and Low temperature			Fredriksta	d, Norway Osystems			
Model(s):	Høiax amina eco	Høiax amina eco 10 Inverter 400V + Høiax anima eco Tower 230/400v					
Air-to-water heat pump:	Yes	Energy efficiency class:	A+++	-			
Water-to-water heat pump:	No	Controller class:	VI	-			
Brine-to-water heat pump:	No	Controller contribution:	4	%			
Low-temperature heat pump:	No	Package efficiency:	193	%			
Equipped with a supplementary heater:	Yes	Package efficiency class:	A+++	-			
Heat pump combination heater:	Yes						

Rated heat output (*)	Prated						
	i i uteu	6	kW	Seasonal space heating energy efficiency	η _s	189	%
Declared capacity for heating for p outdoor temperature T j	oart load at ind	oor temperatu	re 20 °C and	Declared coefficient of performan load at indoor temperature 20 °C	-		-
T j = – 7 °C	Pdh	5,6	kW	T j = – 7 °C	COPd	3,03] -
T j = + 2 °C	Pdh	3,5	kW	T j = +2 °C	COPd	5,14	-
T j = + 7 °C	Pdh	2,5	kW	T j = +7 °C	COPd	5,83	-
T j = + 12 °C	Pdh	2,9	kW	T j = +12 °C	COPd	7,27	-
T j = bivalent temperature	Pdh	5,9	kW	T j = bivalent temperature	COPd	2,66	-
T j = operation limit temperature	Pdh	5,7	kW	T j = operation limit temperature	COPd	2,59	-
For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	Pdh	na	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	na	-
Bivalent temperature	T _{biv}	-9	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes oth	er than active i	mode		Supplementary heater			
Off mode	P _{OFF}	0,014	kW	Rated heat output (*)	Psup	0,3	kW
Thermostat-off mode	P _{TO}	0,014	kW				
Standby mode	P _{SB}	0,014	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items							
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2350	m3/h
Sound power level, indoors/ outdoors	L _{WA}	na/53	dB	For water-/brine-to-water heat pumps: Rated brine or water	-	na	m3/h
Annual energy consumption	Q _{HE}	2579	kWh	flow rate, outdoor heat exchanger			
For heat pump combination heate	er:						
Declared load profile	XL	Efficiency class	Α	Water heating energy efficiency	η_{wh}	97	%
Daily electricity consumption	Qelec	7,880	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1734	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the produc importance that the	t's life cycle, it mu he product's refrig	a recycling station or with the installation enging st be sent correctly to a waste station or reselled erant, compressor oil and electrical/electronic and waste is not permitted.	er offering a servi	ice of that type. I	t is of great
Contact details Hø	iax AS, Trippev	eien 5, Fredrik	stad, Norwav	www.hoiax.no			190911

Information for heat pump space heaters and heat pump combination heaters **Cold climate and Medium temperature**

Høiax AS



Cold climate and Medium temperature			Fredrikst		SYSTEMS
Model(s):	Høiax amina eco	10 Inverter 400V + Høiax anima eco Tow	er 230/400v		
Air-to-water heat pump:	Yes	Energy efficiency class:		-	
Water-to-water heat pump:	No	Controller class:	VI	-	
Brine-to-water heat pump:	No	Controller contribution:	4	%	
Low-temperature heat pump:	No	Package efficiency:	128	%	
Equipped with a supplementary heater:	Yes	Package efficiency class:		-	

Heat pump combination heater: Yes

Rated heat output (*)Prated7kWResisting space heating energy estimation of temperature124%Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T jDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature 20 °C and outdoor temperature T jDeclared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T jT j = -7 °C T j = -7 °C T j = -7 °C T j = +12 °C T j = +12 °C P dh T j = +12 °C P dh T j = +12 °C P dh P dhA,0 A,4 WW T j = +2 °C C C OPd A,0 T j = +12 °C C OPd A,0 T j = +12 °C C OPd A,0 C P dhA,0 C A,0 C A,0 A,0 C A,0 C A,0A,0 C A,0 C A,0 C A,0 C A,0 C A,0 C A,0 C A,0 C A,0T j = operation limit temperature P or lar-to-water heat pumps: T j = -15 °C (if TOL < -20 °C) P of alr-to-water heat pumps: T j = -15 °C (if TOL < -20 °C) P of alr-to-water heat pumps: T j = -15 °C (if TOL < -20 °C) P of alr-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)-22 C °C C OPd A ,75Bwalent temperature For alr-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)-13 P cych°C P or alr-to-water heat pumps: T c C 1 C C P cyc P or alr-to-water heat pumps: T c C 1 C C C P cyc P or alr-to-water heat pumps: R and A now P c_a O,014-13 WW°C P or alr-to-water heat pumps: P or cyce P or alr-to-water heat pumps: R and heat output (°)-22 P cyce P cyceCycling interval efficiency C notorio <t< th=""><th>ltem</th><th>Symbol</th><th>Value</th><th>Unit</th><th>Item</th><th>Symbol</th><th>Value</th><th>Unit</th></t<>	ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
outdoor temperature T jT j = - 7 °CPdh4.0T j = - 7 °CPdh2.3T j = + 7 °CPdh2.4T j = + 7 °CPdh2.4KWT j = + 7 °CCOPdT j = + 12 °CPdh2.9KWT j = + 7 °CCOPdJ = obvialent temperaturePdhP obvialent temperaturePdhP obvialent temperaturePdhJ = obvialent temperaturePdhJ = obvialent temperaturePdhJ = obvialent temperaturePdhJ = obvialent temperatureCOPdJ = obvialent temperatureCOPdJ = obvialent temperatureCOPdJ = obvialent temperatureT j = obvialent temperatureFor air-to-water heat pumps:COPdJ = -15 °C (if TOL < -20 °C)	Rated heat output (*)	Prated	7	kW		η _s	124	%
T j = + 2 ° CPain2.3WWT j = + 2 ° CCOPd4.11T j = + 12 ° CPain2.4KWT j = + 7 ° CCOPd5.08-T j = bivalent temperaturePain2.9KWT j = + 12 ° CCOPd6.08-T j = operation limitPain3.6KWT j = operation limitCOPd1.75-T j = operation limitPain3.6KWT j = operation limitCOPd1.75-For air to water heat pumps:Pain 14, 50KWT j = -15 ° C (if TOL < - 20 ° C)		or part load at ind	loor temperatu	re 20 °C and	-	-		-
Tj = + 7 * CPdh $2,4$ kWTj = + 7 * CCOPd $5,08$ -Tj = + 12 * CPdh2,9kWT= + 12 * CCOPd $6,08$ -Tj = bivalent temperaturePdh3,6kWT= hallent temperatureCOPd $1,75$ -Tj = operation limitPdh3,6kWT= operation limitCOPd $1,75$ -For air-to-water heat pumps:Pdh4,7kWFor air-to-water heat pumps:COPd $1,75$ -Tj = -15 * C (if TOL < - 20 * C)	T j = – 7 °C	Pdh	4,0	kW	T j = – 7 °C	COPd	2,66] -
T j = + 12 °CPdh2,9KWT j = +12 °CCOPd6,08.T j = bivalent temperaturePdh5,0KWT j = bivalent temperatureCOPd1,75.T j = operation limit temperaturePdh3,6KWT j = operation limit temperatureCOPd1,25.For air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)	T j = + 2 °C	Pdh	2,3	kW	T j = +2 °C	COPd	4,11	-
T j = bivalent temperaturePdh5,0kWT j = bivalent temperatureCOPd1,75.T j = operation limit temperaturePdh3,6kWT j = operation limit temperatureCOPd1,75.For air-to-water heat pumps: T j = -15 °C (if TOL < -20 °C)	T j = + 7 °C	Pdh	2,4	kW	T j = +7 °C	COPd	5,08	-
T j = operation limit temperaturePdh3,6KWT j = operation limit temperatureCOPd1,25For air-to-water heat pumps: T j = -15 *C (if TOL < - 20 *C)	T j = + 12 °C	Pdh	2,9	kW	T j = +12 °C	COPd	6,08	-
temperaturePdn5,6KWtemperatureCDPd1,25-For air-to-water heat pumps: T j = -15 °C (if TOL < - 20 °C)	T j = bivalent temperature	Pdh	5,0	kW	T j = bivalent temperature	COPd	1,75	-
T j = - 15 °C (if TOL < - 20 °C)Pdn4,7KWT j = - 15 °C (if TOL < - 20 °C)CDPa1,75-Bivalent temperatureT biv-13°CFor air-to-water heat pumps: Operation limit temperatureTOL-222°CCycling interval capacity for heatingP cychnakWCycling interval efficiencyCOPcycna-Degradation co-efficientCdh0,98-Heating water operating limit temperatureWTOL55°CPower consumption in modes other than active mode0,014kWSupplementary heater Rated heat output (*)Psup2,9kWThermostat-off modeP cor 0,0140,014kWType of energy inputElectricCapacity controlVariableFor air-to-water heat pumps: Rated air flow rate, outdoors-2350m3/hSound power level, indoors/ outdoorsL wA MAna/53dB flow rate, outdoor heat exchanger-nam3/hFor heat pump combination heater:Efficiency classnaWater heating energy efficiencyna%Declared load profileXLEfficiency classnaWater heating energy efficiencyNa%Daily electricity consumptionQelec9,257kWhAnnual fuel consumptionQftuelNAkWhAnnual electricity consumptionAEC2037kWhAnnual fuel consumptionAFCNAGJSpecific precautions and end of the product as household waste is not		Pdh	3,6	kW		COPd	1,25	-
Bivalent temperature T_{biv} -13 C_{c} Operation limit temperature IOL -22 C_{c} Cycling interval capacity for heating P_{cych} nakWOperation limit temperature IOL -22 C_{c} Degradation co-efficient Cdh $0,98$ - $Cycling interval efficiencyCOPcycna-Power consumption in modes other than active mode0,98-Heating water operating limitWTOL55°CPower consumption in modes other than active mode0,014kWRed heat output (*)Psup2,9kWThermostat-off modeP_{crc}0,014kWType of energy inputElectricCrankcase heater modeP_{cc}0,000kWType of energy inputElectricCapacity controlVariableVariableFor air-to-water heat pumps:Rated air flow rate, outdoorsRated air flow rate, outdoorsRated air flow rate, outdoorsna/hSound power level, indoors/outdoorsL_{WA}na/53dBB^{or}Mater heating energyefficiencynam3/hAnnual energy consumptionoutdoorsQ_{elec}9,257RWhAnnual fuel consumptionQ_{fuel}NAKWhAnnual electricityconsumptionAEC2037KWhAnnual fuel consumptionAFCNAKWhAnnual electricityconsumptionAEC2037KWhAnnual fuel consumptionAFCNA$		Pdh	4,7	kW		COPd	1,75	-
heating P_{cych} nakWCycling interval efficiency $COPcyc$ naDegradation co-efficient Cdh $0,98$ -Heating water operating limit temperature $WTOL$ 55 *CPower consumption in modes other than active mode $O,014$ kW Supplementary heater Rated heat output (*) $Psup$ $2,9$ kW Thermosta-off mode P_{orr} $0,014$ kW Type of energy input $Electric$ Crankcase heater mode P_{cx} $0,000$ kW Type of energy input $Electric$ Capacity controlVariableFor air-to-water heat pumps: Rated air flow rate, outdoors2350 $m3/h$ Sound power level, indoors/ outdoors L_{WA} $na/53$ dB flow rate, outdoors na $m3/h$ For heat pump combination heater: $Efficiency$ na an $m3/h$ $m3/h$ Declared load profileXLEfficiency na $efficiency$ n_{wh} 822 %Daily electricityAEC2037kWhAnnual fuel consumption AFC NA GJ Specific precautions and end of life information:The packaging must be deposited at a recycling station or reseller offering a service of that type. It is of great imports reported in a service of that type. It is of great imports reported is not service of that type. It is of great imports reports disposed d.Delared load profileXLEfficiency class na $ercycling station or reseller offering a service of that type. It is of greatimportance that the product$	Bivalent temperature	T _{biv}	-13	°C		TOL	-22	°C
Degradation co-efficient Can 0,98 - temperature W10L 55 *C Power consumption in modes other than active mode Off mode Porr 0,014 kW Supplementary heater Off mode Porr 0,014 kW Rated heat output (*) Psup 2,9 kW Thermostat-off mode Pro 0,014 kW Type of energy input Electric Electric Crankcase heater mode Por 0,000 kW Type of energy input Electric m3/h Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoors - 2350 m3/h Sound power level, indoors/ outdoors L _{WA} na/53 dB B For water/brine-to-water heat pumps: Rated brine or water flow rate, outdoors heat - na m3/h Annual energy consumption QHE 5052 kWh Water heating energy na m3/h Daily electricity consumption Qelec 9,257 kWh Annual fuel consumption Qfuel NA kWh Annual electricity AEC 2037 kWh Annual fuel con		P _{cych}	na	kW	Cycling interval efficiency	СОРсус	na	-
Off mode P orr 0,014 kW Rated heat output (*) Psup 2,9 kW Thermostat-off mode P ro 0,014 kW Type of energy input Electric Standby mode P ss 0,014 kW Type of energy input Electric Crankcase heater mode P cr 0,000 kW Type of energy input Electric Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoors - 2350 m3/h Sound power level, indoors/ outdoors L WA na/53 dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger - na m3/h For heat pump combination heater: Efficiency na Water heating energy efficiency nwh 82 % Daily electricity consumption Qelec 9,257 kWh Daily fuel consumption Qfuel NA kWh Annual electricity consumption AEC 2037 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: Disposing of the product's fife cycelet at a recepting st	Degradation co-efficient	Cdh	0,98	-		WTOL	55	°C
Thermostat-off mode P TO 0,014 kW Standby mode P SB 0,014 kW Crankcase heater mode P CK 0,000 kW Other items - - - Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoors - 2350 m3/h Sound power level, indoors/ outdoors L WA na/53 dB - For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat - na m3/h Annual energy consumption Q HE 5052 kWh Water heating energy - na m3/h Daily electricity consumption heater: - Efficiency na efficiency na m3/h Daily electricity consumption Qelec 9,257 kWh Annual fuel consumption Qfuel NA kWh Annual electricity AEC 2037 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of the product's flef cycie, it must be sent correctly to a waste station or resulter offering a serior of that the product's flef cycie, it must be sent correctly to a waste station or resulter offering a serior of	Power consumption in modes	other than active	mode		Supplementary heater			_
Standby mode P 38 0,014 kW Type of energy input Electric Crankcase heater mode P cx 0,000 kW Type of energy input Electric Other items - <t< td=""><td>Off mode</td><td>P _{OFF}</td><td>0,014</td><td>kW</td><td>Rated heat output (*)</td><td>Psup</td><td>2,9</td><td>kW</td></t<>	Off mode	P _{OFF}	0,014	kW	Rated heat output (*)	Psup	2,9	kW
Crankcase heater mode P_{CK} 0,000 kW Other items For air-to-water heat pumps: Rated air flow rate, outdoors - 2350 m3/h Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoors - 2350 m3/h Sound power level, indoors/ outdoors L wA na/53 dB For water-/brine-to-water heat pumps: Rated brine or water - na m3/h Annual energy consumption Q_HE 5052 kWh Retring energy - na m3/h For heat pump combination heater: Efficiency na Oalsy fificiency na Mater heating energy nwh 82 % Daily electricity consumption Qelec 9,257 kWh Daily fuel consumption Qfuel NA kWh Annual electricity AEC 2037 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.	Thermostat-off mode	P _{TO}	0,014	kW				
Crankcase heater mode P cx 0,000 kW Other items Other items For air-to-water heat pumps: Rated air flow rate, outdoors - 2350 m3/h Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoors - 2350 m3/h Sound power level, indoors/ outdoors L wA na/53 dB For water-/brine-to-water heat pumps: Rated brine or water - na m3/h Annual energy consumption Q_HE 5052 kWh For water-/brine-to-water heat pumps: Rated brine or water - na m3/h For heat pump combination heater: - Declared load profile XL Efficiency class na m3/h Daily electricity consumption Qelec 9,257 kWh Daily fuel consumption Qfuel NA kWh Annual electricity consumption AEC 2037 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as house	Standby mode	P _{SB}	0,014	kW	Type of energy input		Electric	
Other items Variable Capacity control Variable Sound power level, indoors/ outdoors L wa na/53 dB Annual energy consumption Q HE 5052 kWh For heat pump combination heater: Efficiency class na m3/h Declared load profile XL Efficiency class na Water heating energy efficiency n_wh 82 % Daily electricity consumption Qelec 9,257 kWh Daily fuel consumption Qfuel NA kWh Annual electricity consumption AEC 2037 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's life cycle, it must be one correctly to a more station or is not permitted. Disposing of the product service of that type. It is of great importance that the product's infergreant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product service of that type. It is of great	Crankcase heater mode	P _{CK}	0,000	kW				
Capacity control Variable Rated air flow rate, outdoors - 2350 m3/h Sound power level, indoors/ outdoors L _{WA} na/53 dB For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger na m3/h Annual energy consumption Q _{HE} 5052 kWh Reter heating energy efficiency na m3/h For heat pump combination heater: Efficiency class na Water heating energy efficiency n _{wh} 82 % Daily electricity consumption Qelec 9,257 kWh Daily fuel consumption Qfuel NA kWh Annual electricity consumption AEC 2037 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's life cycle, it must be sent correctly to a w	Other items	-						
outdoors L WA na/53 dB pumps: Rated brine or water Annual energy consumption Q HE 5052 kWh flow rate, outdoor heat - na m3/h For heat pump combination heater: Declared load profile XL Efficiency class na Water heating energy officiency nwh 82 % Daily electricity consumption Qelec 9,257 kWh Daily fuel consumption Qfuel NA kWh Annual electricity consumption AEC 2037 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigreant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.	Capacity control		Variable			-	2350	m3/h
Annual energy consumption Q HE 5052 kWh flow rate, outdoor heat exchanger For heat pump combination heater:		L _{WA}	na/53	dB	pumps: Rated brine or water	_	na	m3/h
Declared load profile XL Efficiency class na Water heating energy efficiency n _{wh} 82 % Daily electricity consumption Qelec 9,257 kWh Daily fuel consumption Qfuel NA kWh Annual electricity consumption AEC 2037 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.	Annual energy consumption	Q _{HE}	5052	kWh				
Declared load profile XL class na efficiency Ilwh 82 % Daily electricity consumption Qelec 9,257 kWh Daily fuel consumption Qfuel NA kWh Annual electricity consumption AEC 2037 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.	For heat pump combination he	eater:						
Annual electricity consumption AEC 2037 kWh Annual fuel consumption AFC NA GJ Specific precautions and end of life information: The packaging must be deposited at a recycling station or with the installation engineer for correct waste management. At the end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.	Declared load profile	XL	-	na		η_{wh}	82	%
AEC 2037 kWh Annual fuel consumption AFC NA GJ consumption Specific precautions and end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted.	Daily electricity consumption	Qelec	9,257	kWh	Daily fuel consumption	Qfuel	NA	kWh
Specific precautions and end end of the product's life cycle, it must be sent correctly to a waste station or reseller offering a service of that type. It is of great of life information: importance that the product's refrigerant, compressor oil and electrical/electronic equipment are properly disposed of. Disposing of the product as household waste is not permitted. importance that the product as household waste is not permitted.	•	AEC	2037	kWh	Annual fuel consumption	AFC	NA	GJ
Contact detailsHøiax AS, Trippeveien 5, Fredrikstad, Norway www.hoiax.no181005	Specific precautions and end		end of the produc importance that the	t's life cycle, it mu ne product's refrig	st be sent correctly to a waste station or reselle erant, compressor oil and electrical/electronic	er offering a serv	ice of that type.	It is of great
	Contact details	Høiax AS, Trippev	veien 5, Fredrik	stad, Norway	www.hoiax.no			181005

Information for heat pump space heaters and heat pump combination heaters **Cold climate and Low temperature**

Høiax AS



Cold climate and Low temperature			Fredrikst	ad, Norway 🔍 SYSTEMS
Model(s):	Høiax amina eco	10 Inverter 400V + Høiax anima eco Tow	er 230/400v	
Air-to-water heat pump:	Yes	Energy efficiency class:		-
Water-to-water heat pump:	No	Controller class:	VI	-
Brine-to-water heat pump:	No	Controller contribution:	4	%
Low-temperature heat pump:	No	Package efficiency:	164	%
Equipped with a supplementary heater:	Yes	Package efficiency class:		-
Heat pump combination heater:	Yes			

Heat pump combination heater:

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating energy efficiency	η _s	160	%
Declared capacity for heating for outdoor temperature T j	er part load at inc	loor temperatu	re 20 °C and	Declared coefficient of performar load at indoor temperature 20 °C			-
T j = – 7 °C	Pdh	4,3	kW	T j = – 7 °C	COPd	3,61] -
T j = + 2 °C	Pdh	2,4	kW	T j = +2 °C	COPd	5,08	-
T j = + 7 °C	Pdh	2,5	kW	T j = +7 °C	COPd	6,00	-
T j = + 12 °C	Pdh	2,9	kW	T j = +12 °C	COPd	7,13	-
T j = bivalent temperature	Pdh	5,2	kW	T j = bivalent temperature	COPd	2,52	-
T j = operation limit temperature	Pdh	4,0	kW	T j = operation limit temperature	COPd	1,91	-
For air-to-water heat pumps: T j = - 15 °C (if TOL < - 20 °C)	Pdh	5,0	kW	For air-to-water heat pumps: T j = – 15 °C (if TOL < – 20 °C)	COPd	2,44	-
Bivalent temperature	T _{biv}	-14	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P cych	na	kW	Cycling interval efficiency	СОРсус	na	-
Degradation co-efficient	Cdh	0,98	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes o	ther than active	mode		Supplementary heater			_
Off mode	P _{OFF}	0,014	kW	Rated heat output (*)	Psup	2,6	kW
Thermostat-off mode	Р _{то}	0,014	kW				
Standby mode	P _{SB}	0,014	kW	Type of energy input		Electric	
Crankcase heater mode	P _{CK}	0,000	kW				
Other items	Ch.	.,					
Capacity control		Variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2350	m3/h
L Sound power level, indoors/ outdoors	L _{WA}	na/53	dB	For water-/brine-to-water heat pumps: Rated brine or water		na	m3/h
Annual energy consumption	Q _{HE}	3932	kWh	flow rate, outdoor heat exchanger			1113/11
For heat pump combination hea	ater:						
Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	η_{wh}	82	%
Daily electricity consumption	Q_{elec}	9,257	kWh	Daily fuel consumption	\mathbf{Q}_{fuel}	NA	kWh
Annual electricity consumption	AEC	2037	kWh	Annual fuel consumption	AFC	NA	GJ
Specific precautions and end of life information:		end of the product importance that t	t's life cycle, it mu he product's refrig	a recycling station or with the installation enging st be sent correctly to a waste station or reselle grant, compressor oil and electrical/electronic old waste is not permitted.	er offering a serv	ice of that type.	It is of great
Contact details	Høiax AS, Trippe	veien 5, Fredrik	stad, Norway	www.hoiax.no			181005