

Model(s):	Høiax amina eco 22 Inverter 400V + Høiax anima eco Tower 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:	187 %
Equipped with a supplementary heater:	Yes	Package efficiency class:	-
Heat pump combination heater:	Yes		

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	<i>Prated</i>	13	kW	Seasonal space heating energy efficiency	η_s	183	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dH}</i>	na	kW	T _j = -7 °C	<i>COP_d</i>	na	-
T _j = +2 °C	<i>P_{dH}</i>	14,0	kW	T _j = +2 °C	<i>COP_d</i>	2,15	-
T _j = +7 °C	<i>P_{dH}</i>	8,6	kW	T _j = +7 °C	<i>COP_d</i>	4,13	-
T _j = +12 °C	<i>P_{dH}</i>	5,5	kW	T _j = +12 °C	<i>COP_d</i>	6,07	-
T _j = bivalent temperature	<i>P_{dH}</i>	14,0	kW	T _j = bivalent temperature	<i>COP_d</i>	2,15	-
T _j = operation limit temperature	<i>P_{dH}</i>	14,0	kW	T _j = operation limit temperature	<i>COP_d</i>	2,15	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dH}</i>	na	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	na	-
Bivalent temperature	<i>T_{biv}</i>	2	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	2	°C
Cycling interval capacity for heating	<i>P_{cycH}</i>	na	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dH}</i>	0,99	-	Heating water operating limit temperature	<i>WTOL</i>	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,012	kW	Rated heat output (*)	<i>P_{sup}</i>	0,0	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Type of energy input			
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW				
Other items							
Capacity control	Variable						
Sound power level, indoors/ outdoors	<i>L_{WA}</i>	na/55	dB	For air-to-water heat pumps: Rated air flow rate, outdoors	-	4200	m ³ /h
Annual energy consumption	<i>Q_{HE}</i>	3746	kWh	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	na	m ³ /h

For heat pump combination heater:

Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	η_{wh}	112	%
Daily electricity consumption	Q _{elec}	6,835	kWh	Daily fuel consumption	Q _{fuel}	na	kWh
Annual electricity consumption	AEC	1504	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.

Model(s):	Høiax amina eco 22 Inverter 400V + Høiax anima eco Tower 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:	249 %
Equipped with a supplementary heater:	Yes	Package efficiency class:	-
Heat pump combination heater:	Yes		

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	<i>Prated</i>	13	kW	Seasonal space heating energy efficiency	η_s	245	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dH}</i>	na	kW	T _j = -7 °C	<i>COP_d</i>	na	-
T _j = +2 °C	<i>P_{dH}</i>	12,9	kW	T _j = +2 °C	<i>COP_d</i>	3,16	-
T _j = +7 °C	<i>P_{dH}</i>	8,3	kW	T _j = +7 °C	<i>COP_d</i>	5,88	-
T _j = +12 °C	<i>P_{dH}</i>	5,6	kW	T _j = +12 °C	<i>COP_d</i>	7,61	-
T _j = bivalent temperature	<i>P_{dH}</i>	12,9	kW	T _j = bivalent temperature	<i>COP_d</i>	3,16	-
T _j = operation limit temperature	<i>P_{dH}</i>	12,9	kW	T _j = operation limit temperature	<i>COP_d</i>	3,16	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dH}</i>	na	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	na	-
Bivalent temperature	<i>T_{biv}</i>	2	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	2	°C
Cycling interval capacity for heating	<i>P_{cycH}</i>	na	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dH}</i>	0,99	-	Heating water operating limit temperature	<i>WTOL</i>	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,012	kW	Rated heat output (*)	<i>P_{sup}</i>	0,0	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Type of energy input			
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW				
Other items							
Capacity control	Variable						
Sound power level, indoors/ outdoors	<i>L_{WA}</i>	na/55	dB	For air-to-water heat pumps: Rated air flow rate, outdoors	-	4200	m ³ /h
Annual energy consumption	<i>Q_{HE}</i>	2804	kWh	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	na	m ³ /h

For heat pump combination heater:

Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	η_{wh}	112	%
Daily electricity consumption	Qelec	6,835	kWh	Daily fuel consumption	Q _{fuel}	na	kWh
Annual electricity consumption	AEC	1504	kWh	Annual fuel consumption	AFC	na	GJ

Specific precautions and end of life information:

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Model(s):	Høiax amina eco 22 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:	152 %
Equipped with a supplementary heater:	Yes	Package efficiency class:	A+++ -
Heat pump combination heater:	Yes		

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	<i>Prated</i>	9	kW	Seasonal space heating energy efficiency	η_s	148	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dh}</i>	7,5	kW	T _j = -7 °C	<i>COP_d</i>	2,41	-
T _j = +2 °C	<i>P_{dh}</i>	4,6	kW	T _j = +2 °C	<i>COP_d</i>	3,81	-
T _j = +7 °C	<i>P_{dh}</i>	4,7	kW	T _j = +7 °C	<i>COP_d</i>	4,76	-
T _j = +12 °C	<i>P_{dh}</i>	5,6	kW	T _j = +12 °C	<i>COP_d</i>	6,15	-
T _j = bivalent temperature	<i>P_{dh}</i>	8,7	kW	T _j = bivalent temperature	<i>COP_d</i>	1,99	-
T _j = operation limit temperature	<i>P_{dh}</i>	8,7	kW	T _j = operation limit temperature	<i>COP_d</i>	1,99	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dh}</i>	na	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	na	-
Bivalent temperature	<i>T_{biv}</i>	-10	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	-10	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	na	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dh}</i>	0,98	-	Heating water operating limit temperature	<i>WTOL</i>	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,012	kW	Rated heat output (*)	<i>P_{sup}</i>	0,0	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Type of energy input Electric			
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4200	m ³ /h
Sound power level, indoors/ outdoors	<i>L_{WA}</i>	na/55	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	na	m ³ /h
Annual energy consumption	<i>Q_{HE}</i>	4656	kWh				

For heat pump combination heater:

Declared load profile	XL	Efficiency class	A	Water heating energy efficiency	η_{wh}	98	%
Daily electricity consumption	Qelec	7,816	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1720	kWh	Annual fuel consumption	AFC	NA	GJ

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Model(s):	Høiax amina eco 22 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:	198 %
Equipped with a supplementary heater:	Yes	Package efficiency class:	A+++ -
Heat pump combination heater:	Yes		

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	<i>Prated</i>	9	kW	Seasonal space heating energy efficiency	η_s	194	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T j			
T j = − 7 °C	<i>Pdh</i>	7,8	kW	T j = − 7 °C	<i>COPd</i>	3,53	-
T j = + 2 °C	<i>Pdh</i>	4,5	kW	T j = +2 °C	<i>COPd</i>	4,97	-
T j = + 7 °C	<i>Pdh</i>	4,8	kW	T j = +7 °C	<i>COPd</i>	5,94	-
T j = + 12 °C	<i>Pdh</i>	5,6	kW	T j = +12 °C	<i>COPd</i>	7,35	-
T j = bivalent temperature	<i>Pdh</i>	8,8	kW	T j = bivalent temperature	<i>COPd</i>	3,04	-
T j = operation limit temperature	<i>Pdh</i>	8,8	kW	T j = operation limit temperature	<i>COPd</i>	3,04	-
For air-to-water heat pumps: T j = − 15 °C (if TOL < − 20 °C)	<i>Pdh</i>	na	kW	For air-to-water heat pumps: T j = − 15 °C (if TOL < − 20 °C)	<i>COPd</i>	na	-
Bivalent temperature	<i>T biv</i>	-10	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	-10	°C
Cycling interval capacity for heating	<i>P cych</i>	na	kW	Cycling interval efficiency	<i>COPcyc</i>	na	-
Degradation co-efficient	<i>Cdh</i>	0,98	-	Heating water operating limit temperature	<i>WTOL</i>	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P OFF</i>	0,012	kW	Rated heat output (*)	<i>Psup</i>	0,0	kW
Thermostat-off mode	<i>P TO</i>	0,012	kW	Type of energy input			
Standby mode	<i>P SB</i>	0,012	kW				
Crankcase heater mode	<i>P CK</i>	0,000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors			
Sound power level, indoors/ outdoors	<i>L WA</i>	na/55	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
Annual energy consumption	<i>Q HE</i>	3567	kWh				

For heat pump combination heater:

Declared load profile	XL	Efficiency class	A	Water heating energy efficiency	η_{wh}	98	%
Daily electricity consumption	Qelec	7,816	kWh	Daily fuel consumption	Q _{fuel}	na	kWh
Annual electricity consumption	AEC	1720	kWh	Annual fuel consumption	AFC	na	GJ

Specific precautions and end of life information:

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Model(s):	Høiax amina eco 22 Inverter 400V + Høiax anima eco Tower 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:	140 %
Equipped with a supplementary heater:	Yes	Package efficiency class:	-
Heat pump combination heater:	Yes		

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	ηs	136	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = − 7 °C	Pdh	7,3	kW	Tj = − 7 °C	COPd	2,91	-
Tj = + 2 °C	Pdh	4,6	kW	Tj = +2 °C	COPd	4,53	-
Tj = + 7 °C	Pdh	4,8	kW	Tj = +7 °C	COPd	5,28	-
Tj = + 12 °C	Pdh	5,6	kW	Tj = +12 °C	COPd	6,44	-
Tj = bivalent temperature	Pdh	10,9	kW	Tj = bivalent temperature	COPd	1,46	-
Tj = operation limit temperature	Pdh	4,6	kW	Tj = operation limit temperature	COPd	1,51	-
For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	Pdh	9,6	kW	For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	COPd	1,81	-
Bivalent temperature	Tbiv	-18	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval capacity for heating	Pcych	na	kW	Cycling interval efficiency	COPcyc	na	-
Degradation co-efficient	Cdh	0,99	-	Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	POFF	0,012	kW	Rated heat output (*)	Psup	11,5	kW
Thermostat-off mode	Pto	0,012	kW	Type of energy input			
Standby mode	PSB	0,012	kW				
Crankcase heater mode	PCK	0,000	kW	Electric			
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors			
Sound power level, indoors/ outdoors	LWA	na/55	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
Annual energy consumption	QHE	8159	kWh				

For heat pump combination heater:

Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	η_{wh}	82	%
Daily electricity consumption	Qelec	9,257	kWh	Daily fuel consumption	Q _{fuel}	na	kWh
Annual electricity consumption	AEC	2037	kWh	Annual fuel consumption	AFC	na	GJ

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Model(s):	Høiax amina eco 22 Inverter 400V + Høiax anima eco Tower 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:	172 %
Equipped with a supplementary heater:	Yes	Package efficiency class:	-
Heat pump combination heater:	Yes		

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	<i>Prated</i>	13	kW	Seasonal space heating energy efficiency	η_s	168	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	<i>P_{dh}</i>	7,6	kW	T _j = -7 °C	<i>COP_d</i>	3,67	-
T _j = +2 °C	<i>P_{dh}</i>	4,7	kW	T _j = +2 °C	<i>COP_d</i>	5,49	-
T _j = +7 °C	<i>P_{dh}</i>	4,9	kW	T _j = +7 °C	<i>COP_d</i>	6,70	-
T _j = +12 °C	<i>P_{dh}</i>	5,6	kW	T _j = +12 °C	<i>COP_d</i>	7,77	-
T _j = bivalent temperature	<i>P_{dh}</i>	11,4	kW	T _j = bivalent temperature	<i>COP_d</i>	1,99	-
T _j = operation limit temperature	<i>P_{dh}</i>	4,9	kW	T _j = operation limit temperature	<i>COP_d</i>	1,99	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>P_{dh}</i>	10,3	kW	For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COP_d</i>	2,36	-
Bivalent temperature	<i>T_{biv}</i>	-17	°C	For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	-20	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	na	kW	Cycling interval efficiency	<i>COP_{cyc}</i>	na	-
Degradation co-efficient	<i>C_{dh}</i>	0,98	-	Heating water operating limit temperature	<i>WTOL</i>	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	<i>P_{OFF}</i>	0,012	kW	Rated heat output (*)	<i>P_{sup}</i>	12,5	kW
Thermostat-off mode	<i>P_{TO}</i>	0,012	kW	Type of energy input			
Standby mode	<i>P_{SB}</i>	0,012	kW				
Crankcase heater mode	<i>P_{CK}</i>	0,000	kW				
Other items							
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4200	m ³ /h
Sound power level, indoors/ outdoors	<i>L_{WA}</i>	na/55	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	na	m ³ /h
Annual energy consumption	<i>Q_{HE}</i>	7225	kWh				

For heat pump combination heater:

Declared load profile	XL	Efficiency class	na	Water heating energy efficiency	η_{wh}	82	%
Daily electricity consumption	<i>Q_{elec}</i>	9,257	kWh	Daily fuel consumption	<i>Q_{fuel}</i>	na	kWh
Annual electricity consumption	<i>AEC</i>	2037	kWh	Annual fuel consumption	<i>AFC</i>	na	GJ

Specific precautions and end of life information:

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