

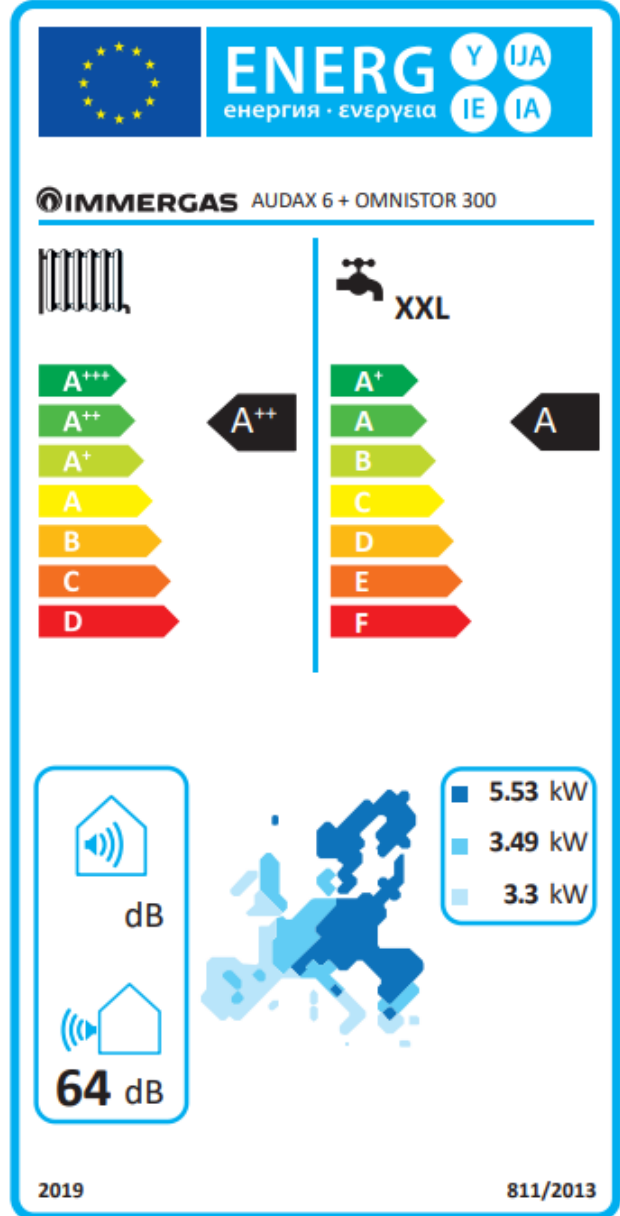
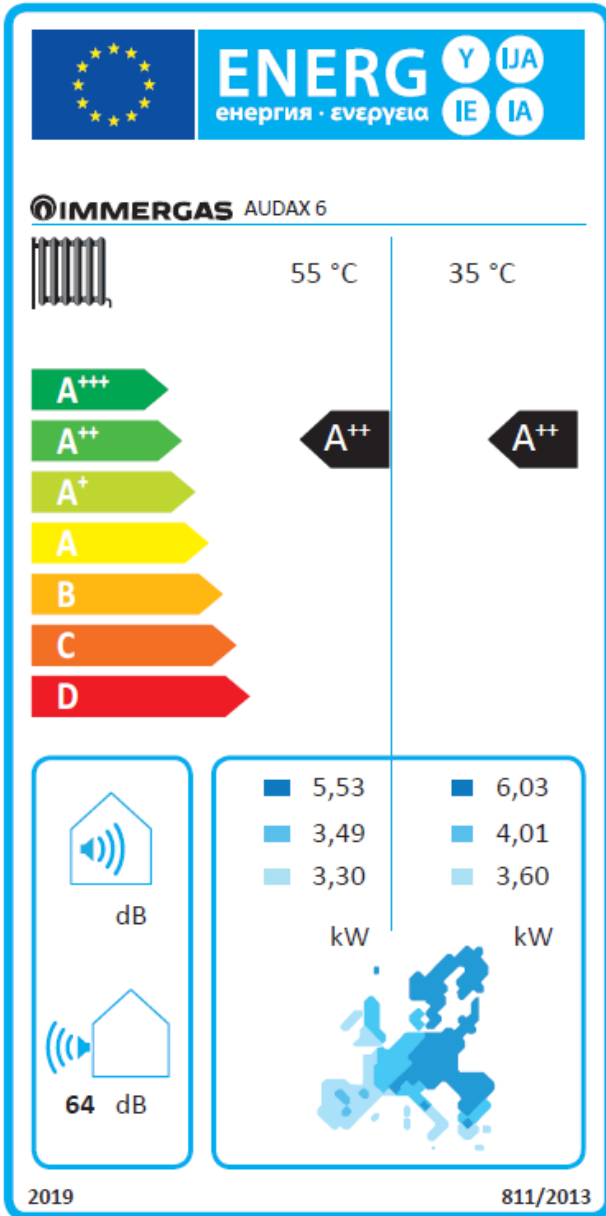
AUDAX 6-8 – Product fiches

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AUDAX 6

Audax 6 - Energetic labels



Audax 6 - Low temperature table (30/35) average zones

Low temperature table (30/35) average zones

Model: Audax 6			
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: no			
Heat pump combination heater: no			
The parameters are declared for average climatic conditions			
Element	Symbol	Value	Unit
<u>Rated heat output</u>	P_{rated}	4	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	P_{dh}	3.6	kW
$T_j = +2\text{ °C}$	P_{dh}	2.2	kW
$T_j = +7\text{ °C}$	P_{dh}	1.4	kW
$T_j = +12\text{ °C}$	P_{dh}	1.3	kW
$T_j =$ bivalent temperature	P_{dh}	3.6	kW
$T_j =$ operation limit temperature	P_{dh}	2.9	kW
for air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	P_{dh}	-	kW
Bivalent temperature	T_{biv}	-7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
<u>Degradation co-efficient</u>	C_{dh}	0.9	—
Power consumption in modes other than active mode			
OFF mode	P_{OFF}	0.000	kW
Thermostat-off mode	P_{TO}	0.038	kW
Standby mode	P_{SB}	0.028	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control	Variable		
Sound power level, indoors/outdoors	L_{WA}	- /64	dB
Annual energy consumption	Q_{HE}	1747	kWh or GJ
For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q_{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Contact information	IMMERGAS S.p.A via Cisa Ligure n.95 - 42041 Brescello (RE) Italy		
Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	186	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
$T_j = -7\text{ °C}$	COP_d	3.03	-
$T_j = +2\text{ °C}$	COP_d	4.81	-
$T_j = +7\text{ °C}$	COP_d	6.08	-
$T_j = +12\text{ °C}$	COP_d	7.20	-
$T_j =$ bivalent temperature	COP_d	3.03	-
$T_j =$ temperature operating limit	COP_d	2.44	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$)	COP_d	-	-
For air/water heat pumps: temperature operating limit	TOL	-20	°C
Cycling interval efficiency	COP_{cyc} or PER_{cyc}	-	-
Heating water operating limit temperature	$WTOL$	-	°C
Supplementary heater			
<u>Rated heat output</u>	P_{sup}	-	kW
Type of energy input	Electrical		
For air-to-water heat pumps: Rated air flow rate, outdoors	—	2880	m ³ /h
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	-	m ³ /h
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q_{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

Audax 6 - Medium temperature table (47/55) average zones

Medium temperature table (47/55) average zones

Model: Audax 6			
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: no			
Heat pump combination heater: no			
The parameters are declared for average climatic conditions			
Element	Symbol	Value	Unit
<u>Rated heat output</u>	<i>Prated</i>	3.5	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7 °C	<i>Pdh</i>	3.1	kW
T _j = +2 °C	<i>Pdh</i>	1.9	kW
T _j = +7 °C	<i>Pdh</i>	1.2	kW
T _j = +12 °C	<i>Pdh</i>	1.1	kW
T _j = bivalent temperature	<i>Pdh</i>	3.1	kW
T _j = operation limit temperature	<i>Pdh</i>	2.6	kW
for air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>Pdh</i>	-	kW
Bivalent temperature	<i>T_{biv}</i>	-7	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	-	kW
<u>Degradation co-efficient</u>	<i>Cdh</i>	0.9	—
Power consumption in modes other than active mode			
OFF mode	<i>P_{OFF}</i>	0.000	kW
Thermostat-off mode	<i>P_{TO}</i>	0.036	kW
Standby mode	<i>P_{SB}</i>	0.028	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>	- /64	dB
Annual energy consumption	<i>Q_{HE}</i>	2170	kWh or GJ
For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	<i>Q_{elec}</i>	-	kWh
Annual electricity consumption	<i>AEC</i>	-	kWh
Contact information	IMMERGAS S.p.A via Cisa Ligure n.95 - 42041 Brescello (RE) Italy		
Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	<i>η_s</i>	130	%
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>COPd</i>	2.15	-
T _j = +2 °C	<i>COPd</i>	3.30	-
T _j = +7 °C	<i>COPd</i>	4.35	-
T _j = +12 °C	<i>COPd</i>	4.62	-
T _j = bivalent temperature	<i>COPd</i>	2.15	-
T _j = temperature operating limit	<i>COPd</i>	2.14	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COPd</i>	-	-
For air/water heat pumps: temperature operating limit	<i>TOL</i>	-10	°C
Cycling interval efficiency	<i>COP_{cyc} or PER_{cyc}</i>	-	-
Heating water operating limit temperature	<i>WTOL</i>	-	°C
Supplementary heater			
<u>Rated heat output</u>	<i>P_{sup}</i>	-	kW
Type of energy input	Electrical		
For air-to-water heat pumps: Rated air flow rate, outdoors	—	2880	m ³ /h
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	-	m ³ /h
Water heating energy efficiency	<i>η_{wh}</i>	-	%
Daily fuel consumption	<i>Q_{fuel}</i>	-	kWh
Annual fuel consumption	<i>AFC</i>	-	GJ

Audax 6 + Omnistor 300 - Low temperature table (30/35) average zones

Low temperature table (30/35) average zones

Model: Audax 6 + Omnistor 300			
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: no			
Heat pump combination heater: yes			
The parameters are declared for average climatic conditions			
Element	Symbol	Value	Unit
<u>Rated heat output</u>	<i>Prated</i>	4	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7 °C	<i>Pdh</i>	3.6	kW
T _j = +2 °C	<i>Pdh</i>	2.2	kW
T _j = +7 °C	<i>Pdh</i>	1.4	kW
T _j = +12 °C	<i>Pdh</i>	1.3	kW
T _j = bivalent temperature	<i>Pdh</i>	3.6	kW
T _j = operation limit temperature	<i>Pdh</i>	2.9	kW
for air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>Pdh</i>	-	kW
Bivalent temperature	<i>T_{biv}</i>	-7	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	-	kW
<u>Degradation co-efficient</u>	<i>Cdh</i>	0.9	—
Power consumption in modes other than active mode			
OFF mode	<i>P_{OFF}</i>	0.000	kW
Thermostat-off mode	<i>P_{TO}</i>	0.038	kW
Standby mode	<i>P_{SB}</i>	0.028	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>	- /64	dB
Annual energy consumption	<i>Q_{HE}</i>	1747	kWh or GJ
For heat pump combination heater:			
Declared load profile	XXL		
Daily electricity consumption	<i>Q_{elec}</i>	9.975	kWh
Annual electricity consumption	<i>AEC</i>	2191	kWh
Contact information	IMMERGAS S.p.A via Cisa Ligure n.95 - 42041 Brescello (RE) Italy		
Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	<i>η_s</i>	186	%
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>COPd</i>	3.03	—
T _j = +2 °C	<i>COPd</i>	4.81	—
T _j = +7 °C	<i>COPd</i>	6.08	—
T _j = +12 °C	<i>COPd</i>	7.20	—
T _j = bivalent temperature	<i>COPd</i>	3.03	—
T _j = temperature operating limit	<i>COPd</i>	2.44	—
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COPd</i>	-	—
For air/water heat pumps: temperature operating limit	<i>TOL</i>	-20	°C
Cycling interval efficiency	<i>COP_{cyc} or PER_{cyc}</i>	-	—
Heating water operating limit temperature	<i>WTOL</i>	-	°C
Supplementary heater			
<u>Rated heat output</u>	<i>P_{sup}</i>	-	kW
Type of energy input	Electrical		
For air-to-water heat pumps: Rated air flow rate, outdoors	—	2880	m ³ /h
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	-	m ³ /h
Water heating energy efficiency	<i>η_{wh}</i>	98	%
Daily fuel consumption	<i>Q_{fuel}</i>	-	kWh
Annual fuel consumption	<i>AFC</i>	-	GJ

Audax 6 + Omnistor 300 - Medium temperature table (47/55) average zones

Medium temperature table (47/55) average zones

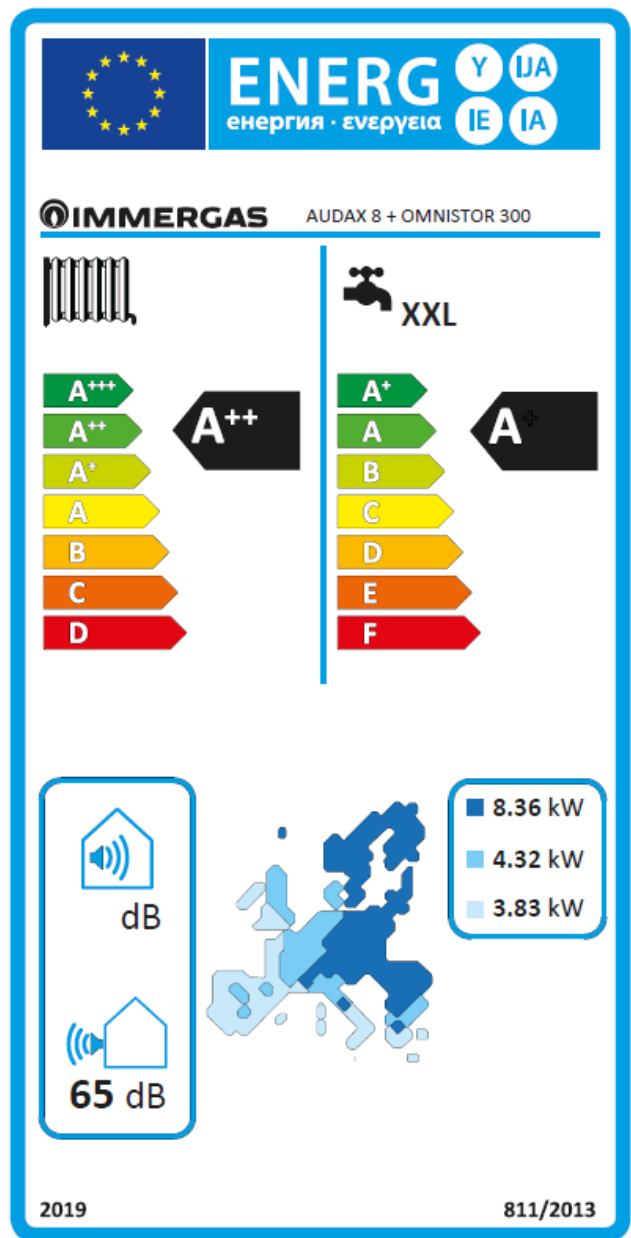
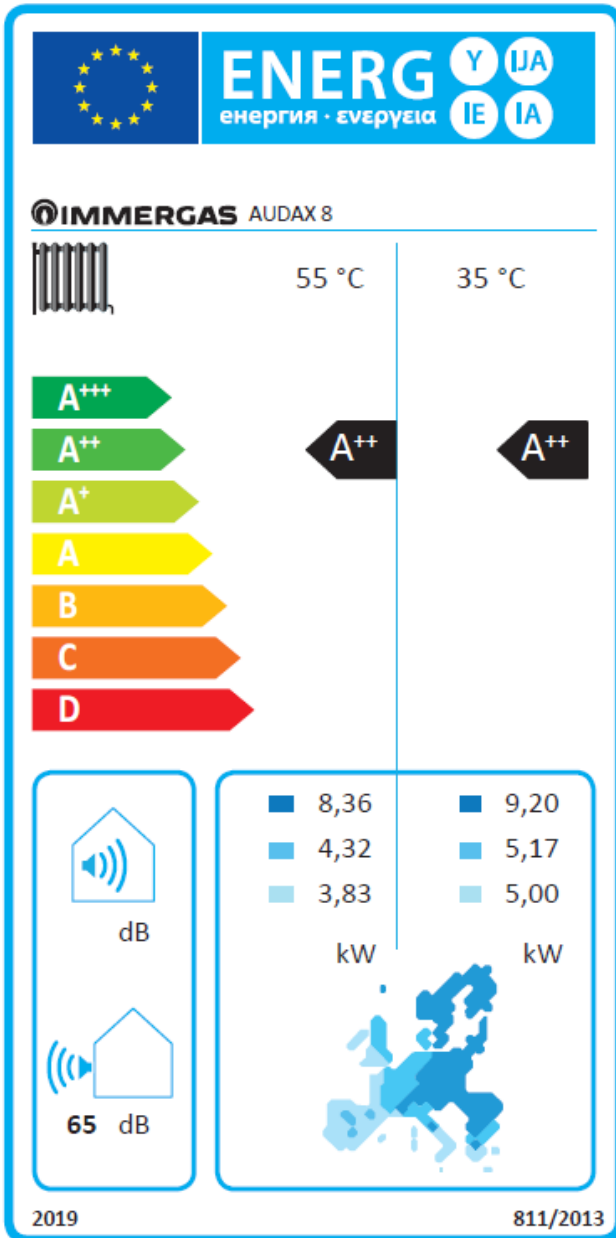
Model: Audax 6 + Omnistor 300			
Air-to-water heat pump: yes			
Water-to-water heat pump: no			
Brine-to-water heat pump: no			
Low-temperature heat pump: no			
Equipped with a supplementary heater: no			
Heat pump combination heater: yes			
The parameters are declared for average climatic conditions			
Element	Symbol	Value	Unit
<u>Rated heat output</u>	<i>Prated</i>	3.5	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7 °C	<i>Pdh</i>	3.1	kW
T _j = +2 °C	<i>Pdh</i>	1.9	kW
T _j = +7 °C	<i>Pdh</i>	1.2	kW
T _j = +12 °C	<i>Pdh</i>	1.1	kW
T _j = bivalent temperature	<i>Pdh</i>	3.1	kW
T _j = operation limit temperature	<i>Pdh</i>	2.6	kW
for air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>Pdh</i>	-	kW
Bivalent temperature	<i>T_{biv}</i>	-7	°C
Cycling interval capacity for heating	<i>Pcych</i>	-	kW
<u>Degradation co-efficient</u>	<i>Cdh</i>	0.9	—
Power consumption in modes other than active mode			
OFF mode	<i>P_{OFF}</i>	0.000	kW
Thermostat-off mode	<i>P_{TO}</i>	0.036	kW
Standby mode	<i>P_{SB}</i>	0.028	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>	- /64	dB
Annual energy consumption	<i>Q_{HE}</i>	2170	kWh or GJ
For heat pump combination heater:			
Declared load profile	XXL		
Daily electricity consumption	<i>Q_{elec}</i>	9.975	kWh
Annual electricity consumption	<i>AEC</i>	2191	kWh
Contact information	IMMERGAS S.p.A via Cisa Ligure n.95 - 42041 Brescello (RE) Italy		
Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	<i>η_s</i>	130	%
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>COPd</i>	2.15	—
T _j = +2 °C	<i>COPd</i>	3.30	—
T _j = +7 °C	<i>COPd</i>	4.35	—
T _j = +12 °C	<i>COPd</i>	4.62	—
T _j = bivalent temperature	<i>COPd</i>	2.15	—
T _j = temperature operating limit	<i>COPd</i>	2.14	—
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COPd</i>	-	—
For air/water heat pumps: temperature operating limit	<i>TOL</i>	-10	°C
Cycling interval efficiency	<i>COP_{cyc} or PER_{cyc}</i>	-	—
Heating water operating limit temperature	<i>WTOL</i>	-	°C
Supplementary heater			
<u>Rated heat output</u>	<i>P_{sup}</i>	-	kW
Type of energy input	Electrical		
For air-to-water heat pumps: Rated air flow rate, outdoors			
	—	2880	m ³ /h
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
	—	-	m ³ /h
Water heating energy efficiency	<i>η_{wh}</i>	98	%
Daily fuel consumption	<i>Q_{fuel}</i>	-	kWh
Annual fuel consumption	<i>AFC</i>	-	GJ

Additional DHW data

Model: Audax 6 + Omnistor 300						
Heat pump with storage tank						
Declared Load Profile	XXL			Water heating energy efficiency	η_{wh}	98 %
Daily electricity consumption	Q_{elec}	9.975	kWh	Daily fuel consumption	Q_{fuel}	- kWh
Annual electricity consumption	AEC	2191	kWh	Annual fuel consumption	AFC	- GJ
Standby Heat Loss		2.18	kWh /day	Reference hot water temperature	θ'_{WH}	49.9 °C
Volume of DHW accounted for in test		300	L	Heating water operating limit temperature	$WTOL$	60 °C
<i>Test data as per EN 16147:2017</i>						
Contact information	Immergas s.p.a via Cisa Ligure n.95					

AUDAX 8

Audax 8 - Energetic labels



Audax 8 - Low temperature table (30/35) average zones

Low temperature table (30/35) average zones

Model: Audax 8			
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: no			
Heat pump combination heater: no			
The parameters are declared for average climatic conditions			
Element	Symbol	Value	Unit
<u>Rated heat output</u>	<i>Prated</i>	5.2	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7 °C	<i>Pdh</i>	4.6	kW
T _j = +2 °C	<i>Pdh</i>	2.7	kW
T _j = +7 °C	<i>Pdh</i>	1.8	kW
T _j = +12 °C	<i>Pdh</i>	1.1	kW
T _j = bivalent temperature	<i>Pdh</i>	4.6	kW
T _j = operation limit temperature	<i>Pdh</i>	4.6	kW
for air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>Pdh</i>	-	kW
Bivalent temperature	<i>T_{biv}</i>	-7	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	-	kW
<u>Degradation co-efficient</u>	<i>Cdh</i>	0.9	—
Power consumption in modes other than active mode			
OFF mode	<i>P_{OFF}</i>	0.000	kW
Thermostat-off mode	<i>P_{TO}</i>	0.046	kW
Standby mode	<i>P_{SB}</i>	0.028	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>	- /65	dB
Annual energy consumption	<i>Q_{HE}</i>	2273	kWh or GJ
For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	<i>Q_{elec}</i>	-	kWh
Annual electricity consumption	<i>AEC</i>	-	kWh
Contact information	IMMERGAS S.p.A via Cisa Ligure n.95 - 42041 Brescello (RE) Italy		
Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	<i>η_s</i>	184	%
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>COPd</i>	2.66	-
T _j = +2 °C	<i>COPd</i>	4.62	-
T _j = +7 °C	<i>COPd</i>	6.33	-
T _j = +12 °C	<i>COPd</i>	8.63	-
T _j = bivalent temperature	<i>COPd</i>	2.66	-
T _j = temperature operating limit	<i>COPd</i>	2.54	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COPd</i>	-	-
For air/water heat pumps: temperature operating limit	<i>TOL</i>	-10	°C
Cycling interval efficiency	<i>COP_{cyc} or PER_{cyc}</i>	-	-
Heating water operating limit temperature	<i>WTOL</i>	-	°C
Supplementary heater			
<u>Rated heat output</u>	<i>P_{sup}</i>	-	kW
Type of energy input	Electrical		
For air-to-water heat pumps: Rated air flow rate, outdoors	—	2880	m ³ /h
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	-	m ³ /h
Water heating energy efficiency	<i>η_{wh}</i>	-	%
Daily fuel consumption	<i>Q_{fuel}</i>	-	kWh
Annual fuel consumption	<i>AFC</i>	-	GJ

Audax 8 - Medium temperature table (47/55) average zones

Medium temperature table (47/55) average zones

Model: Audax 8			
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: no			
Heat pump combination heater: no			
The parameters are declared for average climatic conditions			
Element	Symbol	Value	Unit
<u>Rated heat output</u>	<i>Prated</i>	4.3	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7 °C	<i>Pdh</i>	3.8	kW
T _j = +2 °C	<i>Pdh</i>	2.4	kW
T _j = +7 °C	<i>Pdh</i>	1.4	kW
T _j = +12 °C	<i>Pdh</i>	0.9	kW
T _j = bivalent temperature	<i>Pdh</i>	3.8	kW
T _j = operation limit temperature	<i>Pdh</i>	3.6	kW
for air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>Pdh</i>	-	kW
Bivalent temperature	<i>T_{biv}</i>	-7	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	-	kW
<u>Degradation co-efficient</u>	<i>Cdh</i>	0.9	—
Power consumption in modes other than active mode			
OFF mode	<i>P_{OFF}</i>	0.000	kW
Thermostat-off mode	<i>P_{TO}</i>	0.038	kW
Standby mode	<i>P_{SB}</i>	0.028	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>	- /65	dB
Annual energy consumption	<i>Q_{HE}</i>	2651	kWh or GJ
For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	<i>Q_{elec}</i>	-	kWh
Annual electricity consumption	<i>AEC</i>	-	kWh
Contact information	IMMERGAS S.p.A via Cisa Ligure n.95 - 42041 Brescello (RE) Italy		
Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	<i>η_s</i>	131	%
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>COPd</i>	2.08	-
T _j = +2 °C	<i>COPd</i>	3.29	-
T _j = +7 °C	<i>COPd</i>	4.30	-
T _j = +12 °C	<i>COPd</i>	6.26	-
T _j = bivalent temperature	<i>COPd</i>	2.08	-
T _j = temperature operating limit	<i>COPd</i>	1.88	-
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COPd</i>	-	-
For air/water heat pumps: temperature operating limit	<i>TOL</i>	-10	°C
Cycling interval efficiency	<i>COP_{cyc} or PER_{cyc}</i>	-	-
Heating water operating limit temperature	<i>WTOL</i>	-	°C
Supplementary heater			
<u>Rated heat output</u>	<i>P_{sup}</i>	-	kW
Type of energy input	Electrical		
For air-to-water heat pumps: Rated air flow rate, outdoors	—	2880	m ³ /h
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	-	m ³ /h
Water heating energy efficiency	<i>η_{wh}</i>	-	%
Daily fuel consumption	<i>Q_{fuel}</i>	-	kWh
Annual fuel consumption	<i>AFC</i>	-	GJ

Audax 8 + Omnistor 300 - Low temperature table (30/35) average zones

Low temperature table (30/35) average zones

Model: Audax 8 + Omnistor 300			
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: no			
Heat pump combination heater: yes			
The parameters are declared for average climatic conditions			
Element	Symbol	Value	Unit
<u>Rated heat output</u>	<i>Prated</i>	5.2	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7 °C	<i>Pdh</i>	4.6	kW
T _j = +2 °C	<i>Pdh</i>	2.7	kW
T _j = +7 °C	<i>Pdh</i>	1.8	kW
T _j = +12 °C	<i>Pdh</i>	1.1	kW
T _j = bivalent temperature	<i>Pdh</i>	4.6	kW
T _j = operation limit temperature	<i>Pdh</i>	4.6	kW
for air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>Pdh</i>	-	kW
Bivalent temperature	<i>T_{biv}</i>	-7	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	-	kW
<u>Degradation co-efficient</u>	<i>Cdh</i>	0.9	—
Power consumption in modes other than active mode			
OFF mode	<i>P_{OFF}</i>	0.000	kW
Thermostat-off mode	<i>P_{TO}</i>	0.046	kW
Standby mode	<i>P_{SB}</i>	0.028	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>	- /65	dB
Annual energy consumption	<i>Q_{HE}</i>	2273	kWh or GJ
For heat pump combination heater:			
Declared load profile	XXL		
Daily electricity consumption	<i>Q_{elec}</i>	9.517	kWh
Annual electricity consumption	<i>AEC</i>	2090	kWh
Contact information	IMMERGAS S.p.A via Cisa Ligure n.95 - 42041 Brescello (RE) Italy		
Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	<i>η_s</i>	184	%
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>COPd</i>	2.66	—
T _j = +2 °C	<i>COPd</i>	4.62	—
T _j = +7 °C	<i>COPd</i>	6.33	—
T _j = +12 °C	<i>COPd</i>	8.63	—
T _j = bivalent temperature	<i>COPd</i>	2.66	—
T _j = temperature operating limit	<i>COPd</i>	2.54	—
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COPd</i>	-	—
For air/water heat pumps: temperature operating limit	<i>TOL</i>	-10	°C
Cycling interval efficiency	<i>COP_{cyc} or PER_{cyc}</i>	-	—
Heating water operating limit temperature	<i>WTOL</i>	-	°C
Supplementary heater			
<u>Rated heat output</u>	<i>P_{sup}</i>	-	kW
Type of energy input	Electrical		
For air-to-water heat pumps: Rated air flow rate, outdoors			
	—	2880	m ³ /h
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
	—	-	m ³ /h
Water heating energy efficiency	<i>η_{wh}</i>	103	%
Daily fuel consumption	<i>Q_{fuel}</i>	-	kWh
Annual fuel consumption	<i>AFC</i>	-	GJ

Audax 8 + Omnistor 300 - Medium temperature table (47/55) average zones

Medium temperature table (47/55) average zones

Model: Audax 8 + Omnistor 300			
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: no			
Heat pump combination heater: yes			
The parameters are declared for average climatic conditions			
Element	Symbol	Value	Unit
<u>Rated heat output</u>	<i>Prated</i>	4.3	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7 °C	<i>Pdh</i>	3.8	kW
T _j = +2 °C	<i>Pdh</i>	2.4	kW
T _j = +7 °C	<i>Pdh</i>	1.4	kW
T _j = +12 °C	<i>Pdh</i>	0.9	kW
T _j = bivalent temperature	<i>Pdh</i>	3.8	kW
T _j = operation limit temperature	<i>Pdh</i>	3.6	kW
for air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>Pdh</i>	-	kW
Bivalent temperature	<i>T_{biv}</i>	-7	°C
Cycling interval capacity for heating	<i>P_{cych}</i>	-	kW
<u>Degradation co-efficient</u>	<i>Cdh</i>	0.9	—
Power consumption in modes other than active mode			
OFF mode	<i>P_{OFF}</i>	0.000	kW
Thermostat-off mode	<i>P_{TO}</i>	0.038	kW
Standby mode	<i>P_{SB}</i>	0.028	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>	- /65	dB
Annual energy consumption	<i>Q_{HE}</i>	2651	kWh or GJ
For heat pump combination heater:			
Declared load profile	XXL		
Daily electricity consumption	<i>Q_{elec}</i>	9.517	kWh
Annual electricity consumption	<i>AEC</i>	2090	kWh
Contact information	IMMERGAS S.p.A via Cisa Ligure n.95 - 42041 Brescello (RE) Italy		
Element	Symbol	Value	Unit
Seasonal space heating energy efficiency	<i>η_s</i>	131	%
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>COPd</i>	2.08	—
T _j = +2 °C	<i>COPd</i>	3.29	—
T _j = +7 °C	<i>COPd</i>	4.30	—
T _j = +12 °C	<i>COPd</i>	6.26	—
T _j = bivalent temperature	<i>COPd</i>	2.08	—
T _j = temperature operating limit	<i>COPd</i>	1.88	—
For air-to-water heat pumps: T _j = -15 °C (if TOL < -20 °C)	<i>COPd</i>	-	—
For air/water heat pumps: temperature operating limit	<i>TOL</i>	-10	°C
Cycling interval efficiency	<i>COP_{cyc} or PER_{cyc}</i>	-	—
Heating water operating limit temperature	<i>WTOL</i>	-	°C
Supplementary heater			
<u>Rated heat output</u>	<i>P_{sup}</i>	-	kW
Type of energy input	Electrical		
For air-to-water heat pumps: Rated air flow rate, outdoors			
	—	2880	m ³ /h
For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
	—	-	m ³ /h
Water heating energy efficiency	<i>η_{wh}</i>	103	%
Daily fuel consumption	<i>Q_{fuel}</i>	-	kWh
Annual fuel consumption	<i>AFC</i>	-	GJ

Additional DHW data

Model: Audax 8 + Omnistor 300						
Heat pump with storage tank						
Declared Load Profile	XXL			Water heating energy efficiency	η_{wh}	103 %
Daily electricity consumption	Q_{elec}	9.517	kWh	Daily fuel consumption	Q_{fuel}	- kWh
Annual electricity consumption	AEC	2090	kWh	Annual fuel consumption	AFC	- GJ
Standby Heat Loss		2.18	kWh /day	Reference hot water temperature	θ'_{WH}	50.6 °C
Volume of DHW accounted for in test		300	L	Heating water operating limit temperature	$WTOL$	60 °C
<i>Test data as per EN 16147:2017</i>						
Contact information	Immergas s.p.a via Cisa Ligure n.95					