

MAGIS M8 – Product fiches

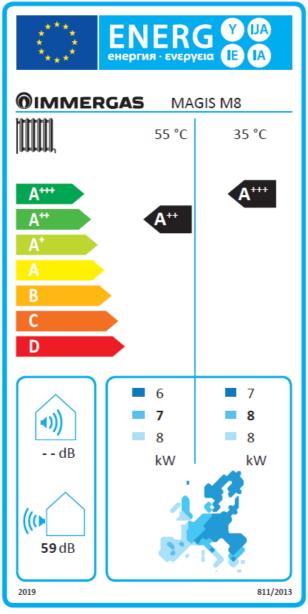
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MAGIS M8

Magis M8 - Energetic labels



Cod. 1.046243 rev 000



Magis M8 - Low temperature table (30/35) average zones

Low temperature table (30/35) average zones

ow temperature table (30/35) average zones													
Model: Magis M8													
Air-to-water heat pump: yes													
Water-to-water heat pump: no													
Brine-to-water heat pump: no													
Low-temperature heat pump: n	Low-temperature heat pump: no												
Equipped with a supplementary heater: no													
Heat pump combination heater: no													
The parameters are declared for	The parameters are declared for average climatic conditions												
Element	Symbol	Value	Unit		Element	Symbol	Value	Unit					
Rated heat output	Prated	8	kW		Seasonal space heating energy efficiency	η_S	206	%					
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _i Declared coefficient of performance or primary energy ratio for load at indoor temperature T _i													
$T_i = -7$ °C	Pdh	7.2	kW		$T_i = -7$ °C	COPd	3.35	_					
$T_i = +2 ^{\circ}\text{C}$	Pdh	4.7	kW		$T_i = +2 ^{\circ}\text{C}$	COPd	5.09	_					
$T_i = +7 ^{\circ}\text{C}$	Pdh	2.9	kW	1	$T_i = +7 ^{\circ}\text{C}$	COPd	6.82	_					
$T_i = +12 ^{\circ}\text{C}$	Pdh	1.6	kW		$T_i = +12 ^{\circ}\text{C}$	COPd	8.35	_					
T_i = bivalent temperature	Pdh	7.2	kW		T_i = bivalent temperature	COPd	3.35	_					
T_j = operation limit temperature	Pdh	6.4	kW		T_j = temperature operating limit	COPd	3.04	_					
for air-to-water heat pumps: $T_j = -15 ^{\circ}\text{C}$ (if TOL < $-20 ^{\circ}\text{C}$)	Pdh	-	kW	•	For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	COPd	-	_					
Bivalent temperature	$T_{_{biv}}$	-7	°C		For air/water heat pumps: tem- perature operating limit	TOL	-10	°C					
Cycling interval capacity for heating	Pcych	-	kW		Cycling interval efficiency	COPcyc or PERcyc	-	-					
Degradation co-efficient	Cdh	0.9	_		Heating water operating limit temperature	WTOL	65	°C					
Power consumption in modes other	r than active mode	;			Supplementary heater								
OFF mode	$P_{\scriptscriptstyle OFF}$	0.014	kW		Rated heat output	Psup	1.68	kW					
Thermostat-off mode	$P_{_{TO}}$	0.024	kW										
Standby mode	$P_{_{SB}}$	0.014	kW]	Type of energy input	Electrical							
Crankcase heater mode	$P_{\scriptscriptstyle CK}$	0.000	kW]									
Other items	•		-]		•							
Capacity control	Variable				For air-to-water heat pumps: Rated air flow rate, outdoors		4030	m³/h					
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle W\!A}$	-/59	dB		For water-/brine-to-water heat			3 11					
Annual energy consumption	$Q_{{\scriptscriptstyle HE}}$	3218	kWh or GJ		pumps: Rated brine or water flow rate, outdoor heat exchanger		-	m³/h					
For heat pump combination heater	:												
Declared load profile		-			Water heating energy efficiency	$\eta_{_{wh}}$	-	%					
Daily electricity consumption	$Q_{ m elec}$	-	kWh		Daily fuel consumption	$Q_{\scriptscriptstyle fuel}$	-	kWh					
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ					
Contact information	IMMERGAS S	.p.A via Cisa	a Ligure n.95	- 42041	Brescello (RE) Italy								



Magis M8 - Medium temperature table (47/55) average zones

Medium temperature table (47/55) average zones

Medium temperature table (47/55) average zones												
Model: Magis M8												
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	Element	Symbol	Value	Unit					
Rated heat output	Prated	7	kW	Seasonal space heating energy efficiency	η_S	132	%					
Declared capacity for heating for 20°C and outdoor temperature?		door tempo	erature	Declared coefficient of performa load at indoor temperature 20°C								
$T_j = -7 ^{\circ}\text{C}$	Pdh	5.8	kW	$T_j = -7$ °C	COPd	2.16	-					
$T_j = +2 ^{\circ}\text{C}$	Pdh	3.8	kW	$T_j = +2 ^{\circ}\text{C}$	COPd	3.30	ı					
$T_j = +7 ^{\circ}\text{C}$	Pdh	2.4	kW	$T_j = +7 ^{\circ}\text{C}$	COPd	4.34	-					
$T_i = +12 ^{\circ}\text{C}$	Pdh	1.4	kW	$T_i = +12 ^{\circ}\text{C}$	COPd	5.33	_					
T_j = bivalent temperature	Pdh	5.8	kW	T_i = bivalent temperature	COPd	2.16	_					
T_j = operation limit temperature	Pdh	4.9	kW	T_j = temperature operating limit	COPd	1.84	-					
for air-to-water heat pumps: $T_j = -15 ^{\circ}\text{C}$ (if TOL < -20 $^{\circ}\text{C}$)	Pdh	-	kW	For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	COPd	-	-					
Bivalent temperature	T_{biv}	-7	°C	For air/water heat pumps: temperature operating limit	TOL	-10	°C					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc or PERcyc	-	I					
Degradation co-efficient	Cdh	0.9	_	Heating water operating limit temperature	WTOL	65	°C					
Power consumption in modes other	than active mode	;		Supplementary heater								
OFF mode	P_{OFF}	0.014	kW	Rated heat output	Psup	1.69	kW					
Thermostat-off mode	P_{TO}	0.024	kW									
Standby mode	$P_{\scriptscriptstyle SB}$	0.014	kW	Type of energy input	Electrical							
Crankcase heater mode	$P_{\scriptscriptstyle CK}$	0.000	kW									
Other items												
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors		4030	m³/h					
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle W\!A}$	-/59	dB	For water-/brine-to-water heat			3 <i>n</i>					
Annual energy consumption	$Q_{{\scriptscriptstyle HE}}$	4056	kWh or GJ	pumps: Rated brine or water flow rate, outdoor heat exchanger		-	m ³ /h					
For heat pump combination heater:												
Declared load profile		-		Water heating energy efficiency	$\eta_{_{wh}}$	-	%					
Daily electricity consumption	$Q_{ m elec}$	-	kWh	Daily fuel consumption	$Q_{\scriptscriptstyle fuel}$	-	kWh					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact information	IMMERGAS S	.p.A via Cisa	a Ligure n.95	- 42041 Brescello (RE) Italy								



Magis M8 + Omnistor 300 - Low temperature table (30/35) average zones

Low temperature table (30/35) average zones

Low temperature table (50/55) average zones													
Model: Magis M8 + 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	1 1												
Equipped with a supplementary heater: no													
Heat pump combination heater: yes													
The parameters are declared for average climatic conditions													
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit						
Rated heat output	Prated	8	kW	Seasonal space heating energy efficiency	η_S	206	%						
Declared capacity for heating for 20°C and outdoor temperature		door temp	erature	Declared coefficient of performal load at indoor temperature 20°C									
$T_i = -7$ °C	Pdh	7.2	kW	$T_i = -7 ^{\circ}\text{C}$	COPd	3.35	_						
$T_i = +2 ^{\circ}\text{C}$	Pdh	4.7	kW	$T_i = +2 ^{\circ}\text{C}$	COPd	5.09	_						
$T_i = +7 ^{\circ}\text{C}$	Pdh	2.9	kW	$T_i = +7 ^{\circ}\text{C}$	COPd	6.82	_						
$T_i = +12 ^{\circ}\text{C}$	Pdh	1.6	kW	T_{i} = + 12 °C	COPd	8.35	_						
T_i = bivalent temperature	Pdh	7.2	kW	T_i = bivalent temperature	COPd	3.35	_						
T_j = operation limit temperature	Pdh	6.4	kW	T_j = temperature operating limit	COPd	3.04	_						
for air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	Pdh	-	kW	For air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	COPd	-	_						
Bivalent temperature	T_{biv}	-7	°C	For air/water heat pumps: temperature operating limit	TOL	-10	°C						
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc or PERcyc	-	_						
Degradation co-efficient	Cdh	0.9	_	Heating water operating limit temperature	WTOL	65	°C						
Power consumption in modes other	than active mode	;		Supplementary heater									
OFF mode	$P_{\scriptscriptstyle OFF}$	0.014	kW	Rated heat output	Psup	1.68	kW						
Thermostat-off mode	$P_{_{TO}}$	0.024	kW										
Standby mode	$P_{_{SB}}$	0.014	kW	Type of energy input	Electrical								
Crankcase heater mode	$P_{\scriptscriptstyle CK}$	0.000	kW										
Other items													
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors		4030	m³/h						
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle WA}$	-/59	dB	For water-/brine-to-water heat			3 11						
Annual energy consumption	$Q_{{\scriptscriptstyle HE}}$	3218	kWh or GJ	pumps: Rated brine or water flow rate, outdoor heat exchanger		-	m ³ /h						
For heat pump combination heater:				· '									
Declared load profile		XL		Water heating energy efficiency	$oldsymbol{\eta}_{wh}$	105	%						
Daily electricity consumption	$Q_{ m elec}$	7.883	kWh	Daily fuel consumption	$Q_{\scriptscriptstyle fuel}$	-	kWh						
Annual electricity consumption	AEC	1595	kWh	Annual fuel consumption	AFC	-	GJ						
Contact information	IMMERGAS S	.p.A via Cis	a Ligure n.95	- 42041 Brescello (RE) Italy									



Magis M8 + Omnistor 300 - Medium temperature table (47/55) average zones

Medium temperature table (47/55) average zones

Aedium temperature table (47/55) average zones													
Model: Magis M8 + Omnis	Model: Magis M8 + 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		Element	Symbol	Value	Unit					
Rated heat output	Prated	7	kW	-	Seasonal space heating energy efficiency	η_S	132	%					
Declared capacity for heating 20°C and outdoor temperature		ndoor temp	erature	-	Declared coefficient of performation load at indoor temperature 20°C	ance or primar	ry energy r temperatur	atio for par e T _i					
$T_i = -7 ^{\circ}\text{C}$	Pdh	5.8	kW		$T_i = -7 ^{\circ}\text{C}$	COPd	2.16	_					
$T_i = +2 ^{\circ}\text{C}$	Pdh	3.8	kW	1	$T_i = +2 ^{\circ}\text{C}$	COPd	3.30	_					
$T_i = +7 ^{\circ}\text{C}$	Pdh	2.4	kW	1	$T_i = +7 ^{\circ}\text{C}$	COPd	4.34	_					
$T_i = +12 ^{\circ}\text{C}$	Pdh	1.4	kW	1	$T_i = +12 ^{\circ}\text{C}$	COPd	5.33	_					
T_i = bivalent temperature	Pdh	5.8	kW		T_i = bivalent temperature	COPd	2.16	_					
T_j operation limit temperature	Pdh	4.9	kW	-	T_j broaden temperature T_j = temperature operating limit	COPd	1.84	_					
for air-to-water heat pumps: $T_j = -15$ °C (if TOL < -20 °C)	Pdh	-	kW	-	For air-to-water heat pumps: $T_j = -15 ^{\circ}\text{C}$ (if TOL < -20 $^{\circ}\text{C}$)	COPd	-	-					
Bivalent temperature	T_{biv}	-7	°C		For air/water heat pumps: temperature operating limit	TOL	-10	°C					
Cycling interval capacity for heating	Pcych	-	kW		Cycling interval efficiency	COPcyc or PERcyc	-	_					
Degradation co-efficient	Cdh	0.9	_		Heating water operating limit temperature	WTOL	65	°C					
Power consumption in modes oth	er than active mode	2		1	Supplementary heater		ı						
OFF mode	$P_{\scriptscriptstyle OFF}$	0.014	kW	1	Rated heat output	Psup	1.69	kW					
Thermostat-off mode	P_{TO}	0.024	kW	1	*								
Standby mode	P_{SB}	0.014	kW	1	Type of energy input	Electrical							
Crankcase heater mode	$P_{\scriptscriptstyle CK}$	0.000	kW	1									
Other items			•	1		1							
Capacity control	Variable			-	For air-to-water heat pumps: Rated air flow rate, outdoors		4030	m³/h					
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle W\!A}$	-/59	dB		For water-/brine-to-water heat			3					
Annual energy consumption	$Q_{\scriptscriptstyle HE}$	4056	kWh or GJ		pumps: Rated brine or water flow rate, outdoor heat exchanger		-	m ³ /h					
For heat pump combination heate	r:			•	•	•							
Declared load profile		XL			Water heating energy efficiency	$\eta_{_{wh}}$	105	%					
Daily electricity consumption	$Q_{\scriptscriptstyle elec}$	7.883	kWh		Daily fuel consumption	$Q_{\scriptscriptstyle fuel}$	-	kWh					
Annual electricity consumption	AEC	1595	kWh	1	Annual fuel consumption	AFC	-	GJ					
Contact information	IMMERGAS S	.p.A via Cis	a Ligure n.95	5 - 4204	1 Brescello (RE) Italy								



Additional DHW data

Model: Magis M8 + Omnistor 300												
Heat pump with storage tank												
Declared Load Profile	XL				Water heating energy efficiency	η_{wh}	105,0	%				
Daily electrical energy consumption	Q_{elec}	7.883	kWh		COP (at 7°C)	СОРгни	2.42					
Annual electrical energy consumption	AEC	1595	kWh	kWh	Thermostat temperature	-	55	°C				
Standby Heat Loss	P_{stby}	6.72			Reference hot water temperature	$ heta'_{W\!H}$	54.84	°C				
Storage volume	V_m	268.1	L		Volume of mixed water at 40°C	V_{40}	384.1	L				
Test data as per EN 16147:2017												
Contact information IMMERGAS S.p.A via Cisa Ligure n.95 - 42041 Brescello (RE) Italy												