

MAGIS M6 – Product fiches

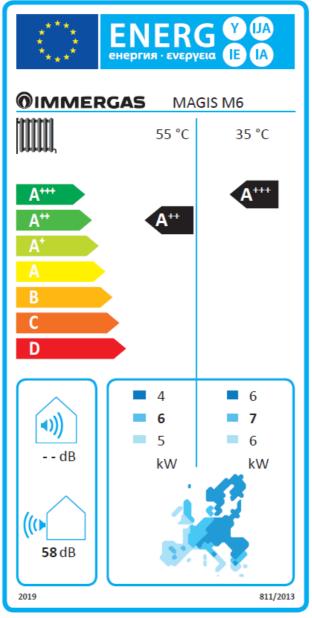
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MAGIS M6

Magis M6 - Energetic labels



Cod. 1.046242 rev 000



Magis M6 - Low temperature table (30/35) average zones

Low temperature table (30/35) average zones

ow temperature table (30/35) average zones													
Model: Magis M6													
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 heate	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	195	%					
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	6.0	kW		$T_i = -7$ °C	COPd	3.09	_					
$T_i = +2 ^{\circ}\text{C}$	Pdh	3.9	kW	1	$T_i = +2 ^{\circ}\text{C}$	COPd	4.85	_					
$T_i = +7 ^{\circ}\text{C}$	Pdh	2.4	kW		$T_i = +7 ^{\circ}\text{C}$	COPd	6.63	_					
$T_i = +12 ^{\circ}\text{C}$	Pdh	1.4	kW	1	$T_i = +12 ^{\circ}\text{C}$	COPd	7.93	_					
T_i = bivalent temperature	Pdh	6.0	kW		T_i = bivalent temperature	COPd	3.09	_					
T_j = operation limit temperature	Pdh	5.4	kW		T_j = temperature operating limit	COPd	2.76	_					
for air-to-water heat pumps: $T_j = -15 \text{ °C}$ (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: 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	er than active mode	e			Supplementary heater	•							
OFF mode	$P_{\scriptscriptstyle OFF}$	0.014	kW		Rated heat output	Psup	1.45	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										
Other items													
Capacity control	Variable				For air-to-water heat pumps: Rated air flow rate, outdoors		2770	m³/h					
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle W\!A}$	-/58	dB		For water-/brine-to-water heat			3 и					
Annual energy consumption	$Q_{{\scriptscriptstyle HE}}$	2845	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	$Q_{\scriptscriptstyle elec}$	-	kWh		Daily fuel consumption	$Q_{ extit{fuel}}$	-	kWh					
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ					
Contact information	IMMERGAS S	.p.A via Cis	a Ligure n.95	- 42041	Brescello (RE) Italy								



Magis M6 - Medium temperature table (47/55) average zones

Medium temperature table (47/55) average zones

Medium temperature table (47/55) average zones												
Model: Magis M6												
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 supplementar	y heater: no											
Heat pump combination heater: no												
The parameters are declared for	r average climat	ic condition	ıs									
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit					
Rated heat output	Prated	6	kW	Seasonal space heating energy efficiency	η_S	138	%					
Declared capacity for heating to 20°C and outdoor temperature		ndoor temp	erature	Declared coefficient of performa load at indoor temperature 20°C	nce or primar and outdoor	ry energy r temperatur	atio for part e T _j					
$T_j = -7$ °C	Pdh	5.0	kW	$T_j = -7$ °C	COPd	2.17	_					
$T_j = +2 ^{\circ}\text{C}$	Pdh	3.1	kW	$T_j = +2 ^{\circ}\text{C}$	COPd	3.51	_					
$T_j = +7 ^{\circ}\text{C}$	Pdh	2.1	kW	$T_j = +7 ^{\circ}\text{C}$	COPd	4.54	_					
$T_j = +12 {}^{\circ}\text{C}$	Pdh	1.3	kW	$T_j = +12 ^{\circ}\text{C}$	COPd	5.59	-					
T_j = bivalent temperature	Pdh	5.0	kW	T_i = bivalent temperature	COPd	2.17	_					
T_j = operation limit temperature	Pdh	4.5	kW	T_j = temperature operating limit	COPd	1.91	-					
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: tem- perature 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	er than active mode)		Supplementary heater								
OFF mode	$P_{\scriptscriptstyle OFF}$	0.014	kW	Rated heat output	Psup	1.18	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_{CK}	0.000	kW									
Other items												
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors		2770	m ³ /h					
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle W\!A}$	-/58	dB	For water-/brine-to-water heat			m³/h					
Annual energy consumption	$Q_{{\scriptscriptstyle HE}}$	3345	kWh or GJ	pumps: Rated brine or water flow rate, outdoor heat exchanger		-	m³/n					
For heat pump combination heater	:											
Declared load profile		-		Water heating energy efficiency	$\eta_{_{wh}}$	-	%					
Daily electricity consumption	$Q_{ m elec}$	-	kWh	Daily fuel consumption	$Q_{ extit{fuel}}$	-	kWh					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact information	IMMERGAS S	.p.A via Cis	a Ligure n.95	- 42041 Brescello (RE) Italy								



Magis M6 + Omnistor 300 - Low temperature table (30/35) average zones

Low temperature table (30/35) average zones

Low temperature table (30/35) average zones													
Model: Magis M6 + Omnisto	r 300												
Air-to-water heat pump: yes	Air-to-water heat pump: yes												
Water-to-water heat pump: no	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:	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	195	%						
Declared capacity for heating for 20°C and outdoor temperature		door tempe	erature	Declared coefficient of performa load at indoor temperature 20°C	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T _i								
$T_i = -7 ^{\circ}\text{C}$	Pdh	6.0	kW	$T_i = -7$ °C	COPd	3.09	_						
$T_i = +2 ^{\circ}\text{C}$	Pdh	3.9	kW	$T_i = +2 ^{\circ}\text{C}$	COPd	4.85	_						
$T_i = +7 ^{\circ}\text{C}$	Pdh	2.4	kW	$T_i = +7 ^{\circ}\text{C}$	COPd	6.63	_						
$T_i = +12 ^{\circ}\text{C}$	Pdh	1.4	kW	$T_{i} = +12 ^{\circ}\text{C}$	COPd	7.93	_						
T_i = bivalent temperature	Pdh	6.0	kW	T_i = bivalent temperature	COPd	3.09	_						
T_j = operation limit temperature	Pdh	5.4	kW	T_j = temperature operating limit	COPd	2.76	_						
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_{OFF}	0.014	kW	Rated heat output	Psup	1.45	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	I CA				I.								
Capacity control	Variable			For air-to-water heat pumps: Rated air flow rate, outdoors		2770	m ³ /h						
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle W\!A}$	-/58	dB	For water-/brine-to-water heat			2						
Annual energy consumption	$Q_{{\scriptscriptstyle HE}}$	2845	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	$oldsymbol{\eta}_{wh}$	104	%						
Daily electricity consumption	$Q_{\scriptscriptstyle elec}$	7.987	kWh	Daily fuel consumption	$Q_{\scriptscriptstyle fuel}$	-	kWh						
Annual electricity consumption	AEC	1605	kWh	Annual fuel consumption	AFC	-	GJ						
Contact information	IMMERGAS S	p.A via Cisa	Ligure n.95	- 42041 Brescello (RE) Italy									



Magis M6 + Omnistor 300 - Medium temperature table (47/55) average zones

Medium temperature table (47/55) average zones

1edium temperature table (47/55) average zones												
Model: Magis M6 + 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	6	kW	-	Seasonal space heating energy efficiency	η_S	138	%				
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 part e T _j				
$T_i = -7 ^{\circ}\text{C}$	Pdh	5.0	kW	1	$T_i = -7 ^{\circ}\text{C}$	COPd	2.17	_				
$T_i = +2 ^{\circ}\text{C}$	Pdh	3.1	kW	1	$T_i = +2 ^{\circ}\text{C}$	COPd	3.51	_				
$T_i = +7 ^{\circ}\text{C}$	Pdh	2.1	kW	1	$T_i = +7$ °C	COPd	4.54	_				
$T_i = +12 ^{\circ}\text{C}$	Pdh	1.3	kW	1	$T_i = +12 ^{\circ}\text{C}$	COPd	5.59	_				
T_i = bivalent temperature	Pdh	5.0	kW	1	T_i = bivalent temperature	COPd	2.17	_				
T_j = operation limit temperature	Pdh	4.5	kW	-	T_j = temperature operating limit	COPd	1.91	_				
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 oth	er than active mode				Supplementary heater							
OFF mode	P_{OFF}	0.014	kW		Rated heat output	Psup	1.18	kW				
Thermostat-off mode	$P_{_{TO}}$	0.024	kW	1				-				
Standby mode	$P_{\scriptscriptstyle SB}$	0.014	kW	1	Type of energy input	Electrical						
Crankcase heater mode	P_{CK}	0.000	kW	1								
Other items				1		•						
Capacity control	Variable			•	For air-to-water heat pumps: Rated air flow rate, outdoors		2770	m ³ /h				
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle W\!A}$	-/58	dB		For water-/brine-to-water heat			3 /1				
Annual energy consumption	$Q_{{\scriptscriptstyle HE}}$	3345	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	$\eta_{_{wh}}$	104	%				
Daily electricity consumption	$Q_{\scriptscriptstyle elec}$	7.987	kWh		Daily fuel consumption	$Q_{\scriptscriptstyle fuel}$	-	kWh				
Annual electricity consumption	AEC	1605	kWh		Annual fuel consumption	AFC	-	GJ				
Contact information	IMMERGAS S	.p.A via Cis	a Ligure n.95	5 - 4204	l Brescello (RE) Italy							



Additional DHW data

Model: Magis M6 + Omnistor 300												
Heat pump with storage tank												
Declared Load Profile		XL			Water heating energy efficiency		104.4	%				
Daily electricity consumption	Q_{elec}	7.987 kW	kWh		Daily fuel consumption	Q_{fuel}	-	kWh				
Annual electricity consumption	Sumption AEC 1605 KWh		Annual fuel consumption	AFC	-	GJ						
Standby Heat Loss				Reference hot water temperature	$ heta'_{WH}$	55.24	°C					
Volume of DHW accounted for in test	268.1 L		L		Heating water operating limit temperature	WTOL	65	°C				
Test data as per EN 16147:20	017											
Contact information	IMMERGAS S.p.A via Cisa Ligure n.95 - 42041 Brescello (RE) Italy											