

MAGIS M14 – Product fiches

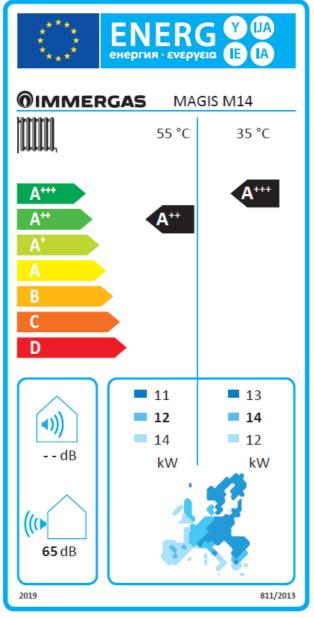
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MAGIS M14

Magis M14 - Energetic labels



Cod. 1.046247 rev 000



Magis M14 - Low temperature table (30/35) average zones

Low temperature table (30/35) average zones

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Model: Magis M14											
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	14	kW	Seasonal space heating energy efficiency	η_S	186	%				
Declared capacity for heating f 20°C and outdoor temperature	or part load at ir Tj	ndoor temp	erature	Declared coefficient of performal load at indoor temperature 20°C a	nce or primar	ry energy r emperatur	atio for part e T _j				
$T_i = -7$ °C	Pdh	12.1	kW	$T_i = -7 ^{\circ}\text{C}$	COPd	2.79	_				
$T_i = +2 ^{\circ}\text{C}$	Pdh	7.9	kW	$T_i = +2 ^{\circ}\text{C}$	COPd	4.52	_				
$T_i = +7 ^{\circ}\text{C}$	Pdh	5.2	kW	$T_i = +7 ^{\circ}\text{C}$	COPd	6.68	_				
$T_i = + 12 ^{\circ}\text{C}$	Pdh	3.8	kW	$T_i = +12 ^{\circ}\text{C}$	COPd	8.52	_				
T_i = bivalent temperature	Pdh	12.1	kW	T_i = bivalent temperature	COPd	2.79					
			K	, .							
T_j = operation limit temperature	Pdh	11.5	kW	T_j = temperature operating limit	COPd	2.59	-				
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	2.23	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		4060	m³/h				
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle W\!A}$	-/65	dB	For water-/brine-to-water heat			3 n				
Annual energy consumption	$Q_{{\scriptscriptstyle HE}}$	6012	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	$Q_{\scriptscriptstyle fuel}$	-	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 M14 - Medium temperature table (47/55) average zones

Medium temperature table ((47/55) average z	ones										
Model: Magis M14												
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 supplementa	ary heater: no											
Heat pump combination heat	er: no											
The parameters are declared	for average climat	ic condition	ıs									
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit					
Rated heat output	Prated	12	kW	Seasonal space heating energy efficiency	η_S	136	%					
Declared capacity for heating 20°C and outdoor temperature	g for part load at in re Tj	ndoor temp	erature	Declared coefficient of performa load at indoor temperature 20°C	ance or primar	ry energy r	atio for part e T _j					
$T_i = -7$ °C	Pdh	10.7	kW	$T_i = -7 ^{\circ}\text{C}$	COPd	2.01	_					
$T_i = +2 ^{\circ}\text{C}$	Pdh	6.9	kW	$T_i = +2$ °C	COPd	3.43	-					
$T_i = +7 ^{\circ}\text{C}$	Pdh	4.6	kW	$T_i = +7 ^{\circ}\text{C}$	COPd	4.66	_					
$T_i = +12 ^{\circ}\text{C}$	Pdh	3.3	kW	$T_i = +12 ^{\circ}\text{C}$	COPd	6.13	_					
T_i = bivalent temperature	Pdh	10.7	kW	T_i = bivalent temperature	COPd	2.01	_					
T_j = operation limit temperature	Pdh	9.2	kW	T_j = temperature operating limit	COPd	1.76	_					
for air-to-water heat pumps: $T_j = -15 \text{ °C}$ (if TOL < -20 °C)	Pdh	-	kW	For air-to-water heat pumps: $T_i = -15$ °C (if TOL < -20 °C)	COPd	-	_					
Bivalent temperature	$T_{\scriptscriptstyle biv}$	-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	-	ı					
Degradation co-efficient	Cdh	0.9	_	Heating water operating limit temperature	WTOL	65	°C					
Power consumption in modes of	her than active mode	e		Supplementary heater								
OFF mode	$P_{\scriptscriptstyle OFF}$	0.014	kW	Rated heat output	Psup	2.91	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		4060	m ³ /h					
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle W\!A}$	-/65	dB	For water-/brine-to-water heat			m³/h					
Annual energy consumption	$Q_{{\scriptscriptstyle HE}}$	7202	kWh or GJ	pumps: Rated brine or water flow rate, outdoor heat exchanger		-	m ⁻ /n					
For heat pump combination heat	er:											
Declared load profile		-		Water heating energy efficiency	$\eta_{_{wh}}$	-	%					
Daily electricity consumption	$Q_{\scriptscriptstyle elec}$	-	kWh	Daily fuel consumption	$Q_{\scriptscriptstyle fuel}$	-	kWh					
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
Contact information	IMMERGAS S	s.p.A via Cis	a Ligure n.95	- 42041 Brescello (RE) Italy								



Magis M14 + Omnistor 300 - Low temperature table (30/35) average zones

Low temperature table (30/35) average zones

Low temperature table (30/35)	average zones	5											
Model: Magis M14 + Omnis	tor 300												
Air-to-water heat pump: yes													
Water-to-water heat pump: no	• • • • • • • • • • • • • • • • • • • •												
Brine-to-water heat pump: no	A A												
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 climat	ic condition	ıs										
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit						
Rated heat output	Prated	14	kW	Seasonal space heating energy efficiency	η_S	186	%						
Declared capacity for heating for 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						
$T_i = -7$ °C	Pdh	12.1	kW	$T_i = -7 ^{\circ}\text{C}$	COPd	2.79	_						
$T_i = +2 ^{\circ}\text{C}$	Pdh	7.9	kW	$T_i = +2 ^{\circ}\text{C}$	COPd	4.52	_						
$T_i = +7 ^{\circ}\text{C}$	Pdh	5.2	kW	$T_i = +7 ^{\circ}\text{C}$	COPd	6.68	_						
$T_i = +12 ^{\circ}\text{C}$	Pdh	3.8	kW	$T_i = +12 ^{\circ}\text{C}$	COPd	8.52	_						
T_i = bivalent temperature	Pdh	12.1	kW	T_i = bivalent temperature	COPd	2.79	_						
T_j = operation limit temperature	Pdh	11.5	kW	T_j = temperature operating limit	COPd	2.59	-						
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	-	_						
Degradation co-efficient	Cdh	0.9	_	Heating water operating limit temperature	WTOL	65	°C						
Power consumption in modes other	than active mode	e		Supplementary heater									
OFF mode	$P_{\scriptscriptstyle OFF}$	0.014	kW	Rated heat output	Psup	2.23	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		4060	m³/h						
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle W\!A}$	-/65	dB	For water-/brine-to-water heat			3 11						
Annual energy consumption	$Q_{\scriptscriptstyle HE}$	6012	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	$\eta_{_{wh}}$	91	%						
Daily electricity consumption	$Q_{ m elec}$	9.061	kWh	Daily fuel consumption	$Q_{ extit{fuel}}$	-	kWh						
Annual electricity consumption	AEC	1850	kWh	Annual fuel consumption	AFC	-	GJ						
Contact information	IMMERGAS S	S.p.A via Cis	a Ligure n.95	- 42041 Brescello (RE) Italy									



Magis M14 + Omnistor 300 - Medium temperature table (47/55) average zones

Medium temperature table (47/55) average zones

Medium temperature table (4)	(155) average z	ones										
Model: Magis M14 + 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	12	kW	Seasonal space heating energy efficiency	η_S	136	%					
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	10.7	kW	$T_i = -7$ °C	COPd	2.01	_					
$T_i = +2 ^{\circ}\text{C}$	Pdh	6.9	kW	$T_i = +2 ^{\circ}\text{C}$	COPd	3.43	_					
$T_i = +7 ^{\circ}\text{C}$	Pdh	4.6	kW	$T_i = +7 ^{\circ}\text{C}$	COPd	4.66	_					
$T_i = +12 ^{\circ}\text{C}$	Pdh	3.3	kW	$T_i = +12 ^{\circ}\text{C}$	COPd	6.13	_					
T_i = bivalent temperature	Pdh	10.7	kW	T_i = bivalent temperature	COPd	2.01	_					
T_j = operation limit temperature	Pdh	9.2	kW	T_j = temperature operating limit	COPd	1.76	_					
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	r than active mode	;		Supplementary heater								
OFF mode	P_{OFF}	0.014	kW	Rated heat output	Psup	2.91	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		4060	m³/h					
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle W\!A}$	-/65	dB	For water-/brine-to-water heat			3.11					
Annual energy consumption	$Q_{{\scriptscriptstyle HE}}$	7202	kWh or GJ	pumps: Rated brine or water flow rate, outdoor heat exchanger		-	m³/h					
For heat pump combination heater:												
Declared load profile		XL		Water heating energy efficiency	$\eta_{_{wh}}$	91	%					
Daily electricity consumption	$Q_{ m elec}$	9.061	kWh	Daily fuel consumption	$Q_{\scriptscriptstyle fuel}$	-	kWh					
Annual electricity consumption	AEC	1850	kWh	Annual fuel consumption	AFC	-	GJ					
Contact information	IMMERGAS S	.p.A via Cis	a Ligure n.95	- 42041 Brescello (RE) Italy								



Additional DHW data

Model: Magis M14 + Omnistor 300												
Heat pump with storage tank												
Declared Load Profile	XL				Water heating energy efficiency	η_{wh}	90.5	%				
Daily electrical energy consumption	Qelec	9.061	kWh	kWh	COP (at 7°C)	СОРгни	2.10					
Annual electrical energy consumption	AEC	1850	kWh		Thermostat temperature	-	55	°C				
Standby Heat Loss	P_{stby}	6.89	kWh /day	Reference hot water temperature	$ heta'_{W\!H}$	54.82	°C					
Storage volume	V_m	268.1	L		Volume of mixed water at 40°C	V_{40}	383.2	L				
Test data as per EN 16147:2017												
Contact information IMMERGAS S.p.A via Cisa Ligure n.95 - 42041 Brescello (RE) Italy												