

# MAGIS M12 – Product fiches

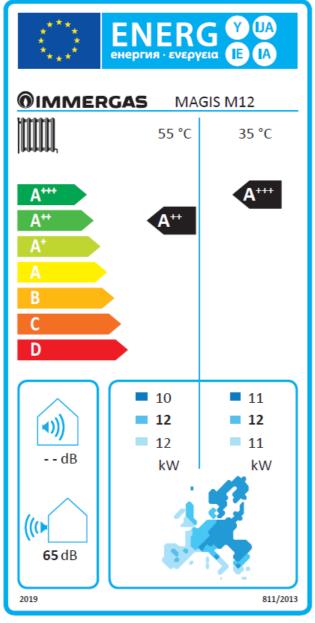
## Summary

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### MAGIS M12

## Magis M12 - Energetic labels



Cod. 1.046245 rev 000



## Magis M12 - Low temperature table (30/35) average zones

### Low temperature table (30/35) average zones

National Magis Magis Marie Marie pump; no Series de la pump pro se direction de la pump pro l'ancient material pump; no Series de la pump control material pump no series de la pump combination heater: "Series de	Bow temperature table (corec)	average zones	'										
Water-to-water heat pump; no Instruction water heat pump in Since-to-water heat pump in Signature water heat pump in Signature heat pump combination heater: no Signature water heat pump combination heater: no Signature water water													
Brine-to-water heat pump: no	Air-to-water heat pump: yes												
Low-temperature heat pumps no biling of the parameter has supplementary heater: no	Water-to-water heat pump: no												
Heat pump combination heater: no The parameters are declared for average climatic conditions. The parameters are declared for part load at indoor temperature of COPd and a dark of the parameters. The parameters are parameters are provided at indoor temperature correctly. The parameters are parameters are provided at indoor temperature correctly. The parameters are parameters are provided at indoor temperature correctly. The parameters are parameters are provided at indoor temperature correctly. The parameters are parameters are provided at indoor temperature. The parameters are parameters are parameters. The parameters are parameters are paramete	Brine-to-water heat pump: no												
The parameters are declared for average climatic conditions. Significant of the parameters are declared for average climatic conditions. The parameters are declared for average climatic clima	Low-temperature heat pump: no	· ·											
The parameters are declared for average climatic conditions. Significant of the parameters are declared for average climatic conditions. The parameters are declared for average climatic clima													
Element         Symbol         Value         Unit         Element         Symbol         Value         Unit         Element         Symbol         Value         Unit         Element         Symbol         Value         Unit           Ratch Read output         Practed         12         kw         Seasonal space heating conflictions of the pattern of the													
Element         Symbol         Value         Unit           Rated heat output $Prated$ 12         kW           Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature 17°C and outdoor 17°C and outdoor 18°C and	· ·												
Rated heat output         Praised         12         kW           Declared capacity for heating for part load at indoor temperature T2°C and outdoor temperature T3°C.         10.6         kW $T_1 = 7 \circ C$ Pdh         10.6         kW $T_2 = 2 \circ C$ Pdh         6.7         kW $T_1 = +7 \circ C$ Pdh         4.4         kW $T_1 = +7 \circ C$ Pdh         3.7         kW $T_1 = 12 \circ C$ Pdh         3.7         kW $T_1 = 12 \circ C$ Pdh         10.6         kW $T_1 = 15 \circ C$ Pdh         10.7         kW           for air-to-water heat pumps: $T_1 = 15 \circ C$ Pdh         10.7         kW           for air-to-water heat pumps: $T_1 = 15 \circ C$ Pdh         10.7         kW           Degradation co-efficient         Cdh         0.9         -           Power consumption in modes ofter than earlive motive material pumps: $T_2 = 15 \circ C$ COPd         2.8         -           Power consumption in modes ofter than earlive motive material pumps in in modes ofter than earlive motive material pumps: $T_2 = 15 \circ C$ COPd         2.0         2.0           Sundly mode         P <sub>2</sub> or 10.00         kW         10.0         10.	-				Element	Symbol	Value	Unit					
Solition of temperature Tj   T = -7 °C   Pdh   10.6   kW   T = +12 °C   Pdh   4.4   kW   T = +12 °C   Pdh   10.6   kW   T = -7 °C   Pdh   10.6   P					Seasonal space heating								
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Declared capacity for heating for 20°C and outdoor temperature?	or part load at ir Γj	door temp	erature	Declared coefficient of performance or primary energy ratio for part								
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$T_i = -7$ °C	Pdh	10.6	kW	$T_i = -7 ^{\circ}\text{C}$	COPd	2.88	_					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	,	Pdh	6.7	kW	<u> </u>			_					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	,			kW		COPd	6.62	_					
T <sub>i</sub> = bivalent temperature $Pdh$ 10.6 kW $T_i$ = operation limit temperature $Pdh$ 10.7 kW for air-to-water heat pumps: $T_i = 15  ^{\circ}\text{C}$ (if $TOL < -20  ^{\circ}\text{C}$ ) $Pdh$ 2.7 kW $T_i = 15  ^{\circ}\text{C}$ (if $TOL < -20  ^{\circ}\text{C}$ ) $Pdh$ 2.7 kW $T_i = 15  ^{\circ}\text{C}$ (if $TOL < -20  ^{\circ}\text{C}$ ) $Pdh$ 2.7 cC $T_i = 15  ^{\circ}\text{C}$ (if $TOL < -20  ^{\circ}\text{C}$ ) $Pdh$ 2.8 kW $T_i = 15  ^{\circ}\text{C}$ (if $TOL < -20  ^{\circ}\text{C}$ ) $Pdh$ 2.7 cC $T_i = 15  ^{\circ}\text{C}$ (if $TOL < -20  ^{\circ}\text{C}$ ) $T_i = 15  ^{\circ}\text{C}$ (if $TOL < -20  ^{\circ}\text{C}$ ) $T_i = 15  ^{\circ}\text{C}$ (if $TOL < -20  ^{\circ}\text{C}$ ) $TOL = 10  ^{\circ}\text{C}$ $TOL = $						COPd	8.47	_					
The operation limit temperature $Pdh$ 10.7 kW for air-to-water heat pumps: $T_1 = 15^{\circ} \text{C}$ (if TOL < - 20 °C)  Bivalent temperature $Polh$ - kW for different temperature $Polh$ - kW for different temperature $Polh$ - kW for air-to-water heat pumps: $Polh$ - look water heat pumps:	1				· ·	COPd	2.88	_					
temperature $Path$ $Pa$	1			1211	, ,								
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	temperature	Pdh	10.7	kW	límit	COPd	2.77	-					
Bryalent temperature   $I_{biv}$   $I_{$	$T_j = -15$ °C	Pdh	-	kW	$T_j = -15 ^{\circ}\text{C}$	COPd	-	-					
heating       Peyen       -       kW       Cycling interval efficiency       PERcyc       -       -         Degradation co-efficient $Cdh$ $0.9$ -       Heating water operating limit temperature $WTOL$ $65$ °C         Power consumption in modes other than active mode         OFF mode $P_{orr}$ $0.014$ kW         Thermostat-off mode $P_{ro}$ $0.024$ kW         Standby mode $P_{sg}$ $0.014$ kW         Crankcase heater mode $P_{cx}$ $0.000$ kW         Other items       For air-to-water heat pumps: Rated brine or water flow rate, outdoors $A060$ $m^3/h$ Sound power level, indoors/outdoors $L_{wA}$ $-/65$ dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoors $A060$ $m^3/h$ Annual energy consumption $Q_{ne}$ $5152$ kWh or GJ $A060$ $A$	Bivalent temperature	$T_{biv}$	-7	°C		TOL	-10	°C					
Degradation co-efficient		Pcych	-	kW	Cycling interval efficiency		-	-					
OFF mode $P_{OFF}$ 0.014       kW         Thermostat-off mode $P_{TO}$ 0.024       kW         Standby mode $P_{SR}$ 0.014       kW         Crankcase heater mode $P_{CK}$ 0.000       kW         Other items       For air-to-water heat pumps: Rated air flow rate, outdoors       Anough power level, indoors/outdoors       LwA       -/65       dB         Annual energy consumption $Q_{HE}$ 5152       kWh or GJ       For air-to-water heat pumps: Rated brine or water flow rate, outdoors       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       - m³/h         For heat pump combination heater:         Declared load profile       Water heating energy efficiency $\eta_{uh}$ - %         Daily electricity consumption $Q_{elec}$ - kWh         Daily fuel consumption $Q_{fuel}$ - kWh         Annual electricity consumption       AFC       - kWh	Degradation co-efficient	Cdh	0.9	_		WTOL	65	°C					
Thermostat-off mode $P_{TO}$ 0.024 kW Standby mode $P_{SB}$ 0.014 kW Crankcase heater mode $P_{CK}$ 0.000 kW Other items  Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoors Rated brine or water flow rate, outdoor heat exchanger $P_{CK}$ 1.5152 kWh or all pumps combination heater:  Declared load profile $P_{CK}$ 2.5152 kWh or annual electricity consumption $P_{CK}$ 2.5152 kWh or annual electricity consumption $P_{CK}$ 3.5152 kWh or annual fuel consumption $P_{CK}$ 3.5152 kWh or annual fuel consumption $P_{CK}$ 4.5152 kWh or annual fuel consumption $P_{CK}$ 4.5153 kWh or annual fuel consumption $P_{CK}$ 4.5153 kWh or annual fuel consumption $P_{CK}$ 4.5154 kWh or annual fuel consumption $P_{CK}$ 5.5154 kWh or annual fuel consumption $P_{CK}$ 5.5155 kWh or annual fuel consumption $P_{CK}$ 6.5155 kWh or annual fuel consumption $P_{CK}$ 6.51	Power consumption in modes other	than active mode	;		Supplementary heater								
Standby mode $P_{SB}$ 0.014       kW         Crankcase heater mode $P_{CK}$ 0.000       kW         Other items       Capacity control       Variable       For air-to-water heat pumps: Rated air flow rate, outdoors       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       Town attributed by the consumption of the consum	OFF mode	$P_{\scriptscriptstyle OFF}$	0.014	kW	Rated heat output	Psup	1.26	kW					
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 <sub>WA</sub> -/65       dB         Annual energy consumption $Q_{HE}$ 5152       kWh or GJ         For heat pump combination heater:         Declared load profile       -       Water heating energy efficiency $\eta_{vh}$ -       %         Daily electricity consumption $Q_{elec}$ -       kWh         Annual electricity consumption $AEC$ -       kWh         Annual fuel consumption $AFC$ -       GJ	Thermostat-off mode	$P_{TO}$	0.024	kW									
Other items       Capacity control       Variable       For air-to-water heat pumps: Rated air flow rate, outdoors       For air-to-water heat pumps: Rated air flow rate, outdoors       4060       m³/h         Sound power level, indoors/outdoors $L_{wA}$ -/65       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       - $m³/h$ Annual energy consumption heater:       -       Water heating energy efficiency $\eta_{wh}$ -       %         Daily electricity consumption $Q_{elec}$ -       kWh       Daily fuel consumption $Q_{fuel}$ -       kWh         Annual electricity consumption $AEC$ -       kWh       Annual fuel consumption $AFC$ -       GJ	Standby mode		0.014	kW	Type of energy input	Electrical							
Other items       Capacity control       Variable       For air-to-water heat pumps: Rated air flow rate, outdoors       For air-to-water heat pumps: Rated air flow rate, outdoors       4060       m³/h         Sound power level, indoors/outdoors $L_{wA}$ -/65       dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger       - $m³/h$ Annual energy consumption heater:       -       Water heating energy efficiency $\eta_{wh}$ -       %         Daily electricity consumption $Q_{elec}$ -       kWh       Daily fuel consumption $Q_{fuel}$ -       kWh         Annual electricity consumption $AEC$ -       kWh       Annual fuel consumption $AFC$ -       GJ	Crankcase heater mode	$P_{\scriptscriptstyle CK}$	0.000	kW									
Rated air flow rate, outdoors  Sound power level, indoors/outdoors  Annual energy consumption $Q_{HE}$ $S_{0}$ $S_{0$	Other items												
indoors/outdoors $L_{WA}$ $-765$ dB       For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger $m^3/h$ For heat pump combination heater:       Declared load profile $L_{WA}$ $L$	Capacity control	Variable					4060	m³/h					
Annual energy consumption $Q_{HE}$ 5152 kWh or $GJ$ rate, outdoor heat exchanger  For heat pump combination heater:    Water heating energy efficiency   $\eta_{wh}$   -   %		$L_{\scriptscriptstyle WA}$	-/65	dB				m3/L					
Declared load profile       -       Water heating energy efficiency $\eta_{wh}$ -       %         Daily electricity consumption $Q_{elec}$ -       kWh       Daily fuel consumption $Q_{fuel}$ -       kWh         Annual electricity consumption $AEC$ -       kWh       Annual fuel consumption $AFC$ -       GJ	Annual energy consumption	$Q_{{\scriptscriptstyle HE}}$	5152				-	m <sup>-</sup> /n					
Daily electricity consumption $Q_{elec}$ - kWh Daily fuel consumption $Q_{fuel}$ - kWh Annual fuel consumption $AFC$ - GJ	For heat pump combination heater:												
consumption $Q_{\text{fuel}}$ $Wh$ Daily fuel consumption $Q_{\text{fuel}}$ $Wh$ Annual electricity consumption $AEC$ - kWh Annual fuel consumption $AFC$ - GJ	Declared load profile		-			$\eta_{_{wh}}$	-	%					
			-	kWh	Daily fuel consumption	$Q_{\scriptscriptstyle fuel}$	-	kWh					
Contact information IMMERGAS S.p.A via Cisa Ligure n.95 - 42041 Brescello (RE) Italy	Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ					
	Contact information	IMMERGAS S	.p.A via Cisa	a Ligure n.95	5 - 42041 Brescello (RE) Italy								



## Magis M12 - Medium temperature table (47/55) average zones

Medium temperature table (	(47/55) average z	ones										
Model: Magis M12												
Air-to-water heat pump: yes	9											
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	tic condition	ıs									
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit					
Rated heat output	Prated	12	kW	Seasonal space heating energy efficiency	$\eta_S$	135	%					
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 prima	ry energy r temperatur	atio for part e T <sub>j</sub>					
$T_i = -7$ °C	Pdh	10.2	kW	$T_i = -7 ^{\circ}\text{C}$	COPd	2.01	_					
$T_i = +2 ^{\circ}\text{C}$	Pdh	6.5	kW	$T_i = +2 ^{\circ}\text{C}$	COPd	3.44	_					
$T_i = +7 ^{\circ}\text{C}$	Pdh	4.4	kW	$T_i = +7 ^{\circ}\text{C}$	COPd	4.59	_					
$T_i = +12 ^{\circ}\text{C}$	Pdh	3.3	kW	$T_i = +12 ^{\circ}\text{C}$	COPd	6.05	_					
$T_i$ = bivalent temperature	Pdh	10.2	kW	$T_i$ = bivalent temperature	COPd	2.01	_					
$T_j$ = operation limit temperature	Pdh	9.1	kW	$T_j$ = temperature operating limit	COPd	1.79	_					
for air-to-water heat pumps: $T_j = -15 \text{ °C}$ (if TOL < $-20 \text{ °C}$ )	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	-	-					
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	2.5	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 <sup>3</sup> /h					
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle W\!A}$	-/65	dB	For water-/brine-to-water heat			m³/h					
Annual energy consumption	$Q_{{\scriptscriptstyle HE}}$	6927	kWh or GJ	pumps: Rated brine or water flow rate, outdoor heat exchanger		-	m <sup>-</sup> /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 M12 + Omnistor 300 - Low temperature table (30/35) average zones

### Low temperature table (30/35) average zones

Low temperature table (30/35)	average zones	3											
Model: Magis M12 + Omnis	tor 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 climat	ic condition	ıs										
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit						
Rated heat output	Prated	12	kW	Seasonal space heating energy efficiency	$\eta_S$	189	%						
Declared capacity for heating for 20°C and outdoor temperature		ndoor temp	erature	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>									
$T_i = -7$ °C	Pdh	10.6	kW	$T_i = -7 ^{\circ}\text{C}$	COPd	2.88	_						
$T_i = +2 ^{\circ}\text{C}$	Pdh	6.7	kW	$T_i = +2 ^{\circ}\text{C}$	COPd	4.65	_						
$T_i = +7 ^{\circ}\text{C}$	Pdh	4.4	kW	$T_i = +7 ^{\circ}\text{C}$	COPd	6.62	_						
$T_i = +12 ^{\circ}\text{C}$	Pdh	3.7	kW	$T_i = +12 ^{\circ}\text{C}$	COPd	8.47	-						
$T_i$ = bivalent temperature	Pdh	10.6	kW	$T_i$ = bivalent temperature	COPd	2.88	_						
$T_j$ = operation limit temperature	Pdh	10.7	kW	$T_j$ = temperature operating limit	COPd	2.77	-						
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	1.26	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	$Q_{\scriptscriptstyle HE}$	5152	kWh or GJ	pumps: Rated brine or water flow rate, outdoor heat exchanger		-	m <sup>3</sup> /h						
For heat pump combination heater:													
Declared load profile		XL		Water heating energy efficiency	$\eta_{_{wh}}$	91	%						
Daily electricity consumption	$Q_{ m elec}$	9.045	kWh	Daily fuel consumption	$Q_{ extit{fuel}}$	-	kWh						
Annual electricity consumption	AEC	1839	kWh	Annual fuel consumption	AFC	-	GJ						
Contact information	IMMERGAS S	.p.A via Cis	a Ligure n.95	- 42041 Brescello (RE) Italy									



## Magis M12 + Omnistor 300 - Medium temperature table (47/55) average zones

### Medium temperature table (47/55) average zones

Medium temperature table (47	ree) average z	ones										
Model: Magis M12 + 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	$\eta_S$	135	%					
Declared capacity for heating for 20°C and outdoor temperature		door temp	erature	Declared coefficient of performance or primary energy ratio for par load at indoor temperature 20°C and outdoor temperature T <sub>i</sub>								
$T_i = -7$ °C	Pdh	10.2	kW	$T_i = -7$ °C	COPd	2.01	_					
$T_i = +2 ^{\circ}\text{C}$	Pdh	6.5	kW	$T_i = +2 ^{\circ}\text{C}$	COPd	3.44	_					
$T_i = +7 ^{\circ}\text{C}$	Pdh	4.4	kW	$T_i = +7 ^{\circ}\text{C}$	COPd	4.59	_					
$T_i = +12 ^{\circ}\text{C}$	Pdh	3.3	kW	$T_i = +12 {}^{\circ}\text{C}$	COPd	6.05	_					
$T_i$ = bivalent temperature	Pdh	10.2	kW	$T_i$ = bivalent temperature	COPd	2.01	_					
$T_j$ = operation limit temperature	Pdh	9.1	kW	$T_j$ = temperature operating limit	COPd	1.79	_					
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	<b>;</b>		Supplementary heater								
OFF mode	$P_{\scriptscriptstyle OFF}$	0.014	kW	Rated heat output	Psup	2.5	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	m³/h					
Sound power level, indoors/outdoors	$L_{\scriptscriptstyle W\!A}$	-/65	dB	For water-/brine-to-water heat			m³/h					
Annual energy consumption	$Q_{{\scriptscriptstyle HE}}$	6927	kWh or GJ	pumps: Rated brine or water flow rate, outdoor heat exchanger		,	m <sup>-</sup> /n					
For heat pump combination heater:												
Declared load profile		XL		Water heating energy efficiency	$\eta_{_{wh}}$	91	%					
Daily electricity consumption	$Q_{\scriptscriptstyle elec}$	9.045	kWh	Daily fuel consumption	$Q_{\scriptscriptstyle fuel}$	-	kWh					
Annual electricity consumption	AEC	1839	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 M12 + Omnistor 300												
Heat pump with storage tank												
Declared Load Profile	XL				Water heating energy efficiency	$\eta_{wh}$	91.1	%				
Daily electrical energy consumption	Qelec	9.045	kWh		COP (at 7°C)	СОРин	2.11					
Annual electrical energy consumption	AEC	1839	kWh		Thermostat temperature	-	55	°C				
Standby Heat Loss	$P_{athy}$ 731	kWh /day		Reference hot water temperature	$ heta'_{WH}$	55.33	°C					
Storage volume	$V_m$	268.1	L		Volume of mixed water at 40°C	$V_{40}$	389	L				
Test data as per EN 16147:2017												
Contact information	IMMEI	IMMERGAS S.p.A via Cisa Ligure n.95 - 42041 Brescello (RE) Italy										