

USERS' MANUAL

Instructions and recommendations

IE

\*L047662ENG\*



 **IMMERGAS**

# MAGIS M4-6-8

Block heat pumps  
Single-phase  
Technical Data



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## Dear Customer

*Congratulations for having chosen a top-quality Immergas product, able to assure well-being and safety for a long period of time. As an Immergas customer you can also count on a Qualified Authorised After-Sales Technical Assistance Centre, prepared and updated to guarantee constant efficiency of your appliance. Read the following pages carefully: you will be able to draw useful tips on the proper use of the device, compliance with which will confirm your satisfaction with the Immergas product.*

*For assistance and routine maintenance, contact Authorised Technical Service Centres: they have original spare parts and are specifically trained directly by the manufacturer.*

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The company **IMMERGAS S.p.A.**, with registered office in via Cisa Ligure 95 42041 Brescello (RE), declares that the design, manufacturing and after-sales assistance processes comply with the requirements of standard **UNI EN ISO 9001:2015**.

For further details on the product CE marking, request a copy of the Declaration of Conformity from the manufacturer, specifying the appliance model and the language of the country.

The manufacturer declines all liability due to printing or transcription errors, reserving the right to make any modifications to its technical and commercial documents without forewarning.



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## GENERAL RECOMMENDATIONS

- The instruction booklet is an integral and essential part of the product and must be given to the new user in the case of transfer or succession of ownership.
  - It must be stored with care and consulted carefully, as all of the warnings provide important safety indications for installation, use and maintenance stages.
  - In compliance with the legislation in force, the systems must be designed by qualified professionals, within the dimensional limits established by the Law. Installation and maintenance must be performed in compliance with the regulations in force, according to the manufacturer's instructions and by professionally qualified staff, meaning staff with specific technical skills in the plant sector, as provided for by Law.
  - Improper installation or assembly of the Immergas device and/or components, accessories, kits and devices can cause unexpected problems for people, animals and objects. Read the instructions provided with the product carefully to ensure proper installation.
  - This instructions manual provides technical information for installing Immergas products. As for the other issues related to the installation of products (e.g. safety at the workplace, environmental protection, accident prevention), it is necessary to comply with the provisions of the standards in force and the principles of good practice.
  - All Immergas products are protected with suitable transport packaging.
  - The material must be stored in a dry place protected from the weather.
  - Maintenance must be carried out by skilled technical staff. For example, the Authorised Service Centre that represents a guarantee of qualifications and professionalism.
  - The appliance must only be destined for the use for which it has been expressly declared. Any other use will be considered improper and therefore potentially dangerous.
  - If errors occur during installation, operation and maintenance, due to non-compliance with technical laws in force, standards or instructions contained in this booklet (or however supplied by the manufacturer), the manufacturer is excluded from any contractual and extra-contractual liability for any damages and the device warranty is invalidated.
  - This manual provides a detailed explanation on the precautions to be taken during use.
  - Read this manual carefully before using the wall-mounted control unit to guarantee its proper operation.
  - After you have read this manual, keep it for future consultation.
  - For further information regarding legislative and statutory provisions relative to the installation of heat pumps, consult the Immergas site at the following address: [www.immergas.com](http://www.immergas.com)
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# 1 TECHNICAL DATA

## 1.1 MEDIUM TEMPERATURE APPLICATIONS

Model	For medium temperature applications				
	Energy efficiency class	Sound power of unit	Medium zone temperatures		
			Nominal heat output	Space heating seasonal energy efficiency	For space heating, annual power consumption
			kW	%	kWh
MAGISM4	A++	55,0	4,4	129,5	2744
MAGISM6	A++	58,0	5,7	137,9	3345
MAGISM8	A++	59,0	6,6	131,5	4056

Model	For medium temperature applications				
	Energy efficiency class	Sound power of unit	Cold zones temperatures		
			Nominal heat output	Space heating seasonal energy efficiency	For space heating, annual power consumption
			kW	%	kWh
MAGISM4	A++	55,0	3,4	102,1	3159
MAGISM6	A++	58,0	4,3	111,1	3681
MAGISM8	A++	59,0	5,8	112,0	4950

Model	For medium temperature applications				
	Energy efficiency class	Sound power of unit	Hot zones temperatures		
			Nominal heat output	Space heating seasonal energy efficiency	For space heating, annual power consumption
			kW	%	kWh
MAGISM4	A++	55,0	5,0	162,4	1621
MAGISM6	A++	58,0	5,1	164,7	1640
MAGISM8	A++	59,0	8,37	176,9	2485

## 1.2 LOW TEMPERATURE APPLICATIONS

Model	For low temperature applications				
	Energy efficiency class	Sound power of unit	Medium zone temperatures		
			Nominal heat output	Space heating seasonal energy efficiency	For space heating, annual power consumption
	-	dB	kW	%	kWh
MAGISM4	A+++	55,0	5,5	191,0	2351
MAGISM6	A+++	58,0	6,8	195,0	2845
MAGISM8	A+++	59,0	8,1	205,6	3218

Model	For low temperature applications				
	Energy efficiency class	Sound power of unit	Cold zones temperatures		
			Nominal heat output	Space heating seasonal energy efficiency	For space heating, annual power consumption
	-	dB	kW	%	kWh
MAGISM4	A+++	55,0	4,6	159,5	2769
MAGISM6	A+++	58,0	5,6	165,3	3300
MAGISM8	A+++	59,0	7,0	170,0	3976

Model	For low temperature applications				
	Energy efficiency class	Sound power of unit	Hot zones temperatures		
			Nominal heat output	Space heating seasonal energy efficiency	For space heating, annual power consumption
	-	dB	kW	%	kWh
MAGISM4	A+++	55,0	5,5	255,4	1146
MAGISM6	A+++	58,0	6,1	259,8	1244
MAGISM8	A+++	59,0	8,1	276,6	1551

## 2 PRODUCT DATA SHEET

Space heating appliance with heat pump		Unit	MAGISM4	MAGISM6	MAGISM8
Sound power of unit	Low temperature medium weather application	dB	55,0	58,0	59,0
	Medium weather temperature application	dB	55,0	58,0	59,0
Space heating	Energy efficiency class 35°C (low temperature application)	-	A+++	A+++	A+++
Space heating	Energy efficiency class 55°C (medium temperature application)	-	A++	A++	A++

Medium weather (design temperature = -10°C)		Unit	MAGISM4	MAGISM6	MAGISM8
Space heating 35°C	$P_{rated}$ (declared heating capacity) @ -10°C	kW	5,5	6,8	8,1
	Space heating seasonal energy efficiency ( $\eta_s$ )	%	191,0	195,0	205,6
	Annual power consumption	kWh	2351	2845	3218
Space heating 55°C	$P_{rated}$ (declared heating capacity) @ -10°C	kW	4,4	5,7	6,6
	Space heating seasonal energy efficiency ( $\eta_s$ )	%	129,5	137,9	131,5
	Annual power consumption	kWh	2744	3345	4056

Low temperature application medium weather space heating partial load conditions		Unit	MAGISM4	MAGISM6	MAGISM8
(A) Condition (-7°C)	$P_{dh}$ (Declared heating capacity)	kW	4,88	6,03	7,18
	$COP_d$ (Declared COP)	-	3,19	3,09	3,35
	$C_{dh}$ (Degradation coefficient)	-	0,9	0,9	0,9
(B) Condition (2°C)	$P_{dh}$ (Declared heating capacity)	kW	3,05	3,88	4,65
	$COP_d$ (Declared COP)	-	4,78	4,85	5,09
	$C_{dh}$ (Degradation coefficient)	-	0,9	0,9	0,9
(C) Condition (7°C)	$P_{dh}$ (Declared heating capacity)	kW	1,93	2,39	2,9
	$COP_d$ (Declared COP)	-	6,13	6,63	6,82
	$C_{dh}$ (Degradation coefficient)	-	0,9	0,9	0,9
(D) Condition (12°C)	$P_{dh}$ (Declared heating capacity)	kW	1,48	1,39	1,63
	$COP_d$ (Declared COP)	-	8,05	7,93	8,35
	$C_{dh}$ (Degradation coefficient)	-	0,9	0,9	0,9

Low temperature application medium weather space heating partial load conditions		Unit	MAGISM4	MAGISM6	MAGISM8
(E) Tol (operation limit temperature)	Tol (operation limit temperature)	°C	-10	-10	-10
	P <sub>dh</sub> (Declared heating capacity)	kW	4,41	5,36	6,44
	COP <sub>d</sub> (Declared COP)	-	2,86	2,76	3,04
	W <sub>TOL</sub> (Water heating limit operation)	°C	65	65	65
(F) T <sub>bivalente</sub> temperature	T <sub>blv</sub>	°C	-7	-7	-7
	P <sub>dh</sub> (Declared heating capacity)	kW	4,88	6,03	7,18
	COP <sub>d</sub> (Declared COP)	-	3,19	3,09	3,35
Supplementary capacity to P <sub>design</sub>	P <sub>sup</sub> (@T <sub>designh</sub> : -10°C)	kW	1,11	1,45	1,68

Medium temperature application average weather temperature space heating partial load conditions		Unit	MAGISM4	MAGISM6	MAGISM8
(A) Condition (-7°C)	P <sub>dh</sub> (Declared heating capacity)	kW	3,89	5,04	5,84
	COP <sub>d</sub> (Declared COP)	-	2,17	2,17	2,16
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
(B) Condition (2°C)	P <sub>dh</sub> (Declared heating capacity)	kW	2,38	3,12	3,75
	COP <sub>d</sub> (Declared COP)	-	3,30	3,51	3,30
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
(C) Condition (7°C)	P <sub>dh</sub> (Declared heating capacity)	kW	2,94	2,08	2,42
	COP <sub>d</sub> (Declared COP)	-	4,41	4,54	4,34
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
(D) Condition (12°C)	P <sub>dh</sub> (Declared heating capacity)	kW	1,32	1,28	1,39
	COP <sub>d</sub> (Declared COP)	-	5,66	5,59	5,33
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
(E) Tol (operation limit temperature)	Tol (operation limit temperature)	°C	-10	-10	-10
	P <sub>dh</sub> (Declared heating capacity)	kW	3,42	4,52	4,9
	COP <sub>d</sub> (Declared COP)	-	1,91	1,91	1,84
	W <sub>TOL</sub> (Water heating limit operation)	°C	65	65	65
(F) T <sub>bivalente</sub> temperature	T <sub>blv</sub>	°C	-7	-7	-7
	P <sub>dh</sub> (Declared heating capacity)	kW	3,89	5,04	5,84
	COP <sub>d</sub> (Declared COP)	-	2,17	2,17	2,16
Supplementary capacity to P <sub>design</sub>	P <sub>sup</sub> (@T <sub>designh</sub> : -10°C)	kW	0,98	1,18	1,69



Cold weather (Design temperature = -22°C)		Unit	MAGISM4	MAGISM6	MAGISM8
Space heating 35°C	$P_{rated}$ (declared heating capacity) @ -22°C	kW	4,6	5,6	7,0
	Space heating seasonal energy efficiency ( $\eta_s$ )	%	159,5	165,3	170,0
	Annual power consumption	kWh	2769	3300	3976
Space heating 55°C	$P_{rated}$ (declared heating capacity) @ -22°C	kW	3,4	4,3	5,8
	Space heating seasonal energy efficiency ( $\eta_s$ )	%	102,1	111,1	112,0
	Annual power consumption	kWh	3159	3681	4950

Low temperature application cold weather space heating partial load conditions		Unit	MAGISM4	MAGISM6	MAGISM8
(A) Condition (-7°C)	$P_{dh}$ (Declared heating capacity)	kW	2,75	3,42	4,46
	$COP_d$ (Declared COP)	-	3,49	3,59	3,66
	$C_{dh}$ (Degradation coefficient)	-	0,9	0,9	0,9
(B) Condition (2°C)	$P_{dh}$ (Declared heating capacity)	kW	1,77	2,06	2,69
	$COP_d$ (Declared COP)	-	4,95	5,21	5,20
	$C_{dh}$ (Degradation coefficient)	-	0,9	0,9	0,9
(C) Condition (7°C)	$P_{dh}$ (Declared heating capacity)	kW	1,17	1,46	1,65
	$COP_d$ (Declared COP)	-	5,53	6,24	6,53
	$C_{dh}$ (Degradation coefficient)	-	0,9	0,9	0,9
(D) Condition (12°C)	$P_{dh}$ (Declared heating capacity)	kW	1,43	1,44	1,65
	$COP_d$ (Declared COP)	-	7,67	7,66	7,96
	$C_{dh}$ (Degradation coefficient)	-	0,9	0,9	0,9
(E) Tol (operation limit temperature)	Tol (operation limit temperature)	°C	-22	-22	-22
	$P_{dh}$ (Declared heating capacity)	kW	2,8	3,48	4,06
	$COP_d$ (Declared COP)	-	1,97	1,96	1,95
	$W_{TOL}$ (Water heating limit operation)	°C	65	65	65
(F) $T_{bivalente}$ temperature	$T_{blv}$	°C	-15	-15	-15
	$P_{dh}$ (Declared heating capacity)	kW	3,72	4,59	5,69
	$COP_d$ (Declared COP)	-	2,57	2,53	2,83
Supplementary capacity to $P_{design}$	$P_{sup}$ (@ $T_{designh}$ ; -22°C)	kW	1,76	2,15	2,91

Medium temperature application cold weather space heating partial load conditions		Unit	MAGISM4	MAGISM6	MAGISM8
(A) Condition (-7°C)	P <sub>dh</sub> (Declared heating capacity)	kW	2,13	2,70	3,86
	COP <sub>d</sub> (Declared COP)	-	2,32	2,46	2,48
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
(B) Condition (2°C)	P <sub>dh</sub> (Declared heating capacity)	kW	1,28	1,60	2,21
	COP <sub>d</sub> (Declared COP)	-	2,99	3,36	3,35
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
(C) Condition (7°C)	P <sub>dh</sub> (Declared heating capacity)	kW	1,01	1,02	1,44
	COP <sub>d</sub> (Declared COP)	-	3,86	3,94	4,11
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
(D) Condition (12°C)	P <sub>dh</sub> (Declared heating capacity)	kW	1,36	1,37	1,46
	COP <sub>d</sub> (Declared COP)	-	6,28	6,35	5,92
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
(E) Tol (operation limit temperature)	Tol (operation limit temperature)	°C	-22	-22	-22
	P <sub>dh</sub> (Declared heating capacity)	kW	1,64	2,09	2,8
	COP <sub>d</sub> (Declared COP)	-	1,02	1,13	1,22
	W <sub>TOL</sub> (Water heating limit operation)	°C	65	65	65
(F) T <sub>bivalente</sub> temperature	T <sub>blv</sub>	°C	-15	-15	-15
	P <sub>dh</sub> (Declared heating capacity)	kW	2,74	3,47	4,71
	COP <sub>d</sub> (Declared COP)	-	1,74	1,86	1,9
Supplementary capacity to P <sub>design</sub>	P <sub>sup</sub> (@T <sub>designh</sub> : -22°C)	kW	1,72	2,17	2,97

Warm weather (Design temperature = 2°C)		Unit	MAGISM4	MAGISM6	MAGISM8
Space heating 35°C	P <sub>rated</sub> (declared heating capacity) @ -2°C	kW	5,5	6,1	8,1
	Space heating seasonal energy efficiency (η <sub>s</sub> )	%	255,4	259,8	276,6
	Annual power consumption	kWh	1146	1244	1551
Space heating 55°C	P <sub>rated</sub> (declared heating capacity) @ -2°C	kW	5,0	5,1	8,37
	Space heating seasonal energy efficiency (η <sub>s</sub> )	%	162,4	164,7	176,9
	Annual power consumption	kWh	1621	1640	2485

Low temperature application warm weather space heating partial load conditions		Unit	MAGISM4	MAGISM6	MAGISM8
(B) Condition (2°C)	P <sub>dh</sub> (Declared heating capacity)	kW	5,34	5,93	7,56
	COP <sub>d</sub> (Declared COP)	-	3,94	3,91	3,98
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
(C) Condition (7°C)	P <sub>dh</sub> (Declared heating capacity)	kW	3,56	3,93	5,22
	COP <sub>d</sub> (Declared COP)	-	5,92	5,89	6,26
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
(D) Condition (12°C)	P <sub>dh</sub> (Declared heating capacity)	kW	1,63	1,79	2,62
	COP <sub>d</sub> (Declared COP)	-	7,91	8,20	9,23
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
(E) Tol (operation limit temperature)	Tol (operation limit temperature)	°C	2	2	2
	P <sub>dh</sub> (Declared heating capacity)	kW	5,34	5,93	7,56
	COP <sub>d</sub> (Declared COP)	-	3,94	3,91	3,98
	W <sub>TOL</sub> (Water heating limit operation)	°C	65	65	65
(F) T <sub>bivalente</sub> temperature	T <sub>blv</sub>	°C	7	7	7
	P <sub>dh</sub> (Declared heating capacity)	kW	3,56	3,93	5,22
	COP <sub>d</sub> (Declared COP)	-	5,92	5,89	6,26
Supplementary capacity to P <sub>design</sub>	P <sub>sup</sub> (@T <sub>designh</sub> : 2°C)	kW	0,18	0,18	0,55

Medium temperature application warm weather space heating partial load conditions		Unit	MAGISM4	MAGISM6	MAGISM8
(B) Condition (2°C)	P <sub>dh</sub> (Declared heating capacity)	kW	4,83	5,02	7,55
	COP <sub>d</sub> (Declared COP)	-	2,51	2,48	2,59
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
(C) Condition (7°C)	P <sub>dh</sub> (Declared heating capacity)	kW	3,22	3,31	5,38
	COP <sub>d</sub> (Declared COP)	-	3,68	3,67	4,01
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
(D) Condition (12°C)	P <sub>dh</sub> (Declared heating capacity)	kW	1,47	1,60	2,31
	COP <sub>d</sub> (Declared COP)	-	5,15	5,29	5,55
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9

Medium temperature application warm weather space heating partial load conditions		Unit	MAGISM4	MAGISM6	MAGISM8
(E) Tol (operation limit temperature)	Tol (operation limit temperature)	°C	2	2	2
	P <sub>dh</sub> (Declared heating capacity)	kW	4,83	5,02	7,55
	COP <sub>d</sub> (Declared COP)	-	2,51	2,48	2,59
	W <sub>TOL</sub> (Water heating limit operation)	°C	65	65	65
(F) T <sub>bivalente</sub> temperature	T <sub>blv</sub>	°C	7	7	7
	P <sub>dh</sub> (Declared heating capacity)	kW	3,22	3,31	5,38
	COP <sub>d</sub> (Declared COP)	-	3,68	3,67	4,01
Supplementary capacity to P <sub>design</sub>	P <sub>sup</sub> (@T <sub>designh</sub> : 2°C)	kW	0,18	0,12	0,82

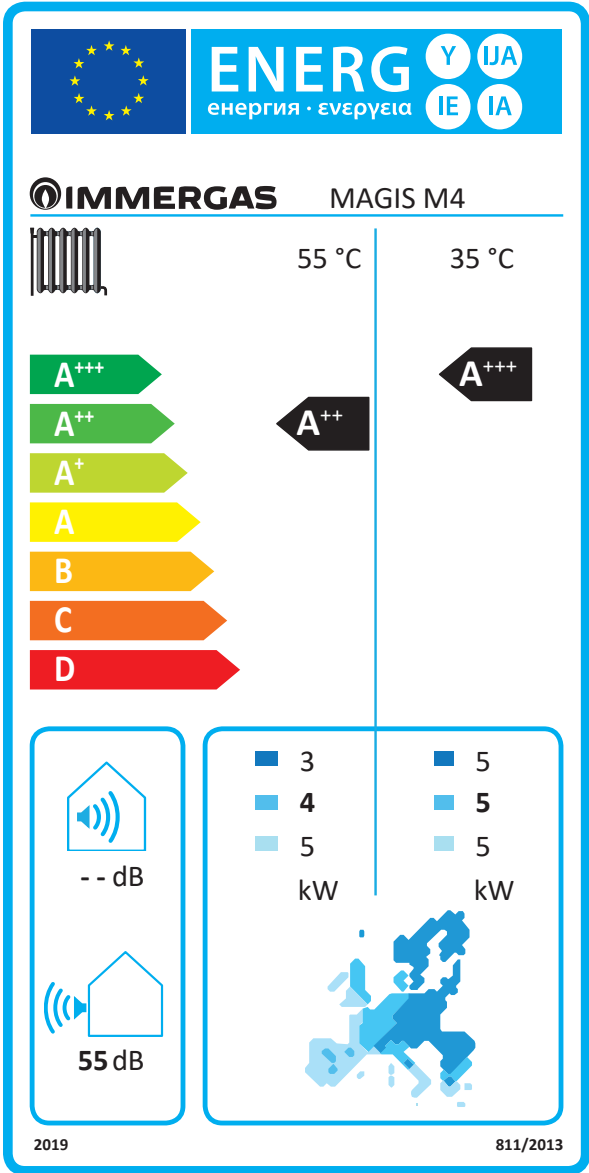
		Unit	MAGISM4	MAGISM6	MAGISM8
Description of the product	Air-water heat pump	Y/N	yes	yes	yes
	Water-water heat pump	Y/N	no	no	no
	Brine to water heat pump	Y/N	no	no	no
	Low temperature heat pump	Y/N	no	no	no
	Equipped with additional heater	Y/N	no	no	no
	Mixed central heating device with heat pump:	Y/N	no	no	no
Air-water unit	Nominal air flow	m <sup>3</sup> /h	2770	2770	4030
Brine/water to water unit	Water/brine at nominal flow rate (H/E outdoor)		/	/	/

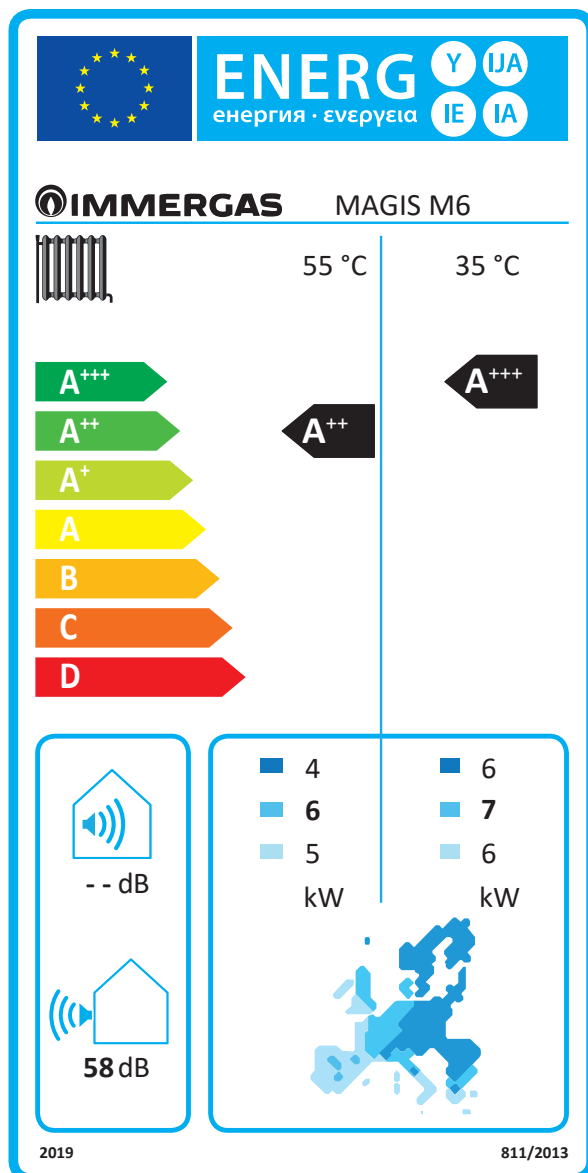
Space heating appliance with heat pump		Unit	MAGISM4	MAGISM6	MAGISM8
Other	Capacity control	-	VARIABLE	VARIABLE	VARIABLE
	P <sub>off</sub> (Power consumption OFF Mode)	kW	0,014	0,014	0,014
	P <sub>to</sub> (Power consumption with thermostat at OFF Mode)	kW	0,024	0,024	0,024
	P <sub>sb</sub> (Power consumption in Standby Mode)	kW	0,014	0,014	0,014
	P <sub>CK</sub> (Electric crankcase heater model)	kW	0,000	0,000	0,000
	Q <sub>elec</sub> (Daily electricity consumption)	kWh	/	/	/
	Q <sub>fuel</sub> (Daily fuel consumption)	kWh	/	/	/

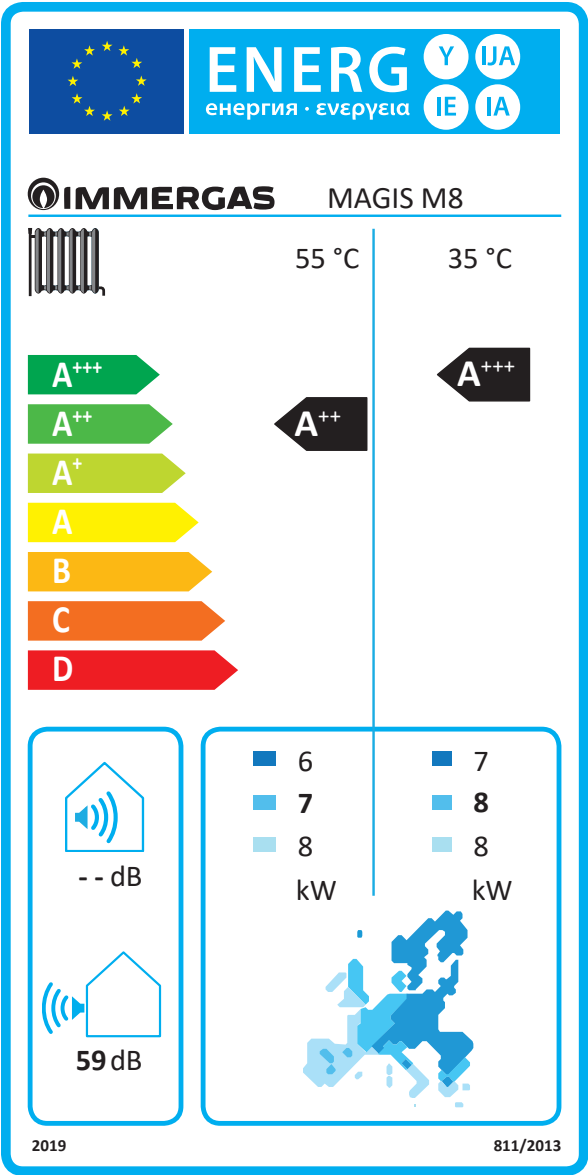
Details and precautions on installation, maintenance and assembly can be found in the use and installation manual.  
Data of the product data sheets according to the directive on energy labelling 2010/30/EC (EU) 811/2013.

2.1 PRODUCT LABELS

Magis M4







### 3 TECHNICAL PARAMETERS

Model		MAGISM4							
Air/water heat pump			yes	Low temperature heat pump			no		
Water/water heat pump			no	With Supplementary heater			no		
Brine/water heat pump			no	Mixed central heating device with heat pump:			no		
Declared weather condition: MEDIUM									
The parameters are declared for the medium temperature application.									
Element		Symbol	Value	Unit	Element		Symbol	Value	Unit
Rated heat output (*)		P <sub>rated</sub>	4,4	kW	Room central heating seasonal energy efficiency		η <sub>s</sub>	129,5	%
Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>					Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>				
T <sub>j</sub> = - 7 °C		P <sub>dh</sub>	3,89	kW	T <sub>j</sub> = - 7 °C		COP <sub>d</sub>	2,17	-
T <sub>j</sub> = + 2 °C		P <sub>dh</sub>	2,38	kW	T <sub>j</sub> = + 2 °C		COP <sub>d</sub>	3,30	-
T <sub>j</sub> = + 7 °C		P <sub>dh</sub>	2,94	kW	T <sub>j</sub> = + 7 °C		COP <sub>d</sub>	4,41	-
T <sub>j</sub> = + 12 °C		P <sub>dh</sub>	1,32	kW	T <sub>j</sub> = + 12 °C		COP <sub>d</sub>	5,66	-
T <sub>j</sub> = bivalent temperature		P <sub>dh</sub>	3,89	kW	T <sub>j</sub> = bivalent temperature		COP <sub>d</sub>	2,17	-
T <sub>j</sub> = operating limit temperature		P <sub>dh</sub>	3,42	kW	T <sub>j</sub> = operating limit temperature		COP <sub>d</sub>	1,91	-
For air-water heat pumps: T <sub>j</sub> = -15°C		P <sub>dh</sub>	-	kW	For air-water heat pumps: T <sub>j</sub> = -15°C		COP <sub>d</sub>	-	-
Bivalent temperature		T <sub>biv</sub>	-7	°C	For air/water heat pumps: Operating limit temperature		TOL	-10	°C
Capacity of the cycle range for central heating		P <sub>cych</sub>	-	kW	Efficiency of cycle range		COP <sub>cyc</sub>	-	-
Degradation coefficient (**)		C <sub>dh</sub>	0,9	-	Heating water operation limit temperature		W <sub>TOLp</sub>	65	°C
Power consumption in modes other than active mode					Additional heater				
OFF mode		P <sub>OFF</sub>	0,014	kW	Rated heat output (*)		P <sub>sup</sub>	0,98	kW
Standby Mode		P <sub>TO</sub>	0,014	kW	Type of energy supplied		electrical		
Thermostat OFF mode		P <sub>SB</sub>	0,024	kW					
Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW					
Other items									
Capacity control		VARIABLE			For air-water heat pumps: Rated air flow rate outdoors		-	2770	m³\h
Indoor/outdoor sound level		L <sub>WA</sub>	-/55,0	dB	For water or brine-water heat pumps: Rated water or brine flow rate, heat exchanger outdoors		-	-	m³\h
Annual energy consumption		Q <sub>HE</sub>	2744	kWh					
For mixed central heating appliances with a heat pump									
Stated load profile		-			Water central heating energy efficiency		η <sub>wh</sub>	-	%
Daily electrical power consumption		Q <sub>elec</sub>	-	kWh	Daily fuel consumption		Q <sub>fuel</sub>	-	kWh
Annual electrical power consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact information		Immergas S.p.A. via Cisa Ligure n.95							
(*) For heat pump appliances for space heating and heating appliances mixed with heat pump, the rated heat output P <sub>rated</sub> is equal to the design load for heating. P <sub>designh</sub> and the rated heat output of an additional heater P <sub>sup</sub> is equal to the supplementary heating capacity sup(T <sub>j</sub> ).									
(**) If C <sub>dh</sub> is not determined by measuring, the default degradation coefficient is C <sub>dh</sub> = 0.9.									



Model		MAGISM4					
Air/water heat pump			yes	Low temperature heat pump			no
Water/water heat pump			no	With Supplementary heater			no
Brine/water heat pump			no	Mixed central heating device with heat pump:			no
Declared weather condition: COLD							
The parameters are declared for the medium temperature application.							
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit
Rated heat output (*)	P <sub>rated</sub>	3,4	kW	Room central heating seasonal energy efficiency	η <sub>s</sub>	102,1	%
Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>				Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	2,13	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2,32	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	1,28	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2,99	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	1,01	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3,86	-
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	1,36	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub>	6,28	-
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	2,74	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1,74	-
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	1,64	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub>	1,02	-
For air-water heat pumps: T <sub>j</sub> = -15°C	P <sub>dh</sub>	-	kW	For air-water heat pumps: T <sub>j</sub> = -15°C	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-15	°C	For air/water heat pumps: Operating limit temperature	TOL	-22	°C
Capacity of the cycle range for central heating	P <sub>cych</sub>	-	kW	Efficiency of cycle range	COP <sub>cyc</sub>	-	-
Degradation coefficient (**)	C <sub>dh</sub>	0,9	-	Heating water operation limit temperature	W <sub>TOLp</sub>	65	°C
Power consumption in modes other than active mode				Additional heater			
OFF mode	P <sub>OFF</sub>	0,014	kW	Rated heat output (*)	P <sub>sup</sub>	1,72	kW
Standby Mode	P <sub>TO</sub>	0,014	kW	Type of energy supplied	electrical		
Thermostat OFF mode	P <sub>SB</sub>	0,024	kW				
Crankcase heater mode electrical	P <sub>CK</sub>	0,000	kW				
Other items							
Capacity control	VARIABLE			For air-water heat pumps: Rated air flow rate outdoors	-	2770	m³\h
Indoor/outdoor sound level	L <sub>WA</sub>	-/-	dB	For water or brine-water heat pumps: Rated water or brine flow rate, heat exchanger outdoors	-	-	m³\h
Annual energy consumption	Q <sub>HE</sub>	3159	kWh				
For mixed central heating appliances with a heat pump							
Stated load profile	-			Water central heating energy efficiency	η <sub>wh</sub>	-	%
Daily electrical power consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
Annual electrical power consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact information	Immergas S.p.A. via Cisa Ligure n.95						
(*) For heat pump appliances for space heating and heating appliances mixed with heat pump, the rated heat output P <sub>rated</sub> is equal to the design load for heating. P <sub>designh</sub> and the rated heat output of an additional heater P <sub>sup</sub> is equal to the supplementary heating capacity sup(T <sub>j</sub> ).							
(**) If C <sub>dh</sub> is not determined by measuring, the default degradation coefficient is C <sub>dh</sub> = 0.9.							

Model		MAGIS M4							
Air/water heat pump			yes	Low temperature heat pump			no		
Water/water heat pump			no	With Supplementary heater			no		
Brine/water heat pump			no	Mixed central heating device with heat pump:			no		
Declared weather condition: WARM									
The parameters are declared for the medium temperature application.									
Element		Symbol	Value	Unit	Element		Symbol	Value	Unit
Rated heat output (*)		P <sub>rated</sub>	5,0	kW	Room central heating seasonal energy efficiency		η <sub>s</sub>	162,4	%
Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>					Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>				
T <sub>j</sub> = - 7 °C		P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C		COP <sub>d</sub>	-	-
T <sub>j</sub> = + 2 °C		P <sub>dh</sub>	4,83	kW	T <sub>j</sub> = + 2 °C		COP <sub>d</sub>	2,51	-
T <sub>j</sub> = + 7 °C		P <sub>dh</sub>	3,22	kW	T <sub>j</sub> = + 7 °C		COP <sub>d</sub>	3,68	-
T <sub>j</sub> = + 12 °C		P <sub>dh</sub>	1,47	kW	T <sub>j</sub> = + 12 °C		COP <sub>d</sub>	5,15	-
T <sub>j</sub> = bivalent temperature		P <sub>dh</sub>	3,22	kW	T <sub>j</sub> = bivalent temperature		COP <sub>d</sub>	3,68	-
T <sub>j</sub> = operating limit temperature		P <sub>dh</sub>	4,83	kW	T <sub>j</sub> = operating limit temperature		COP <sub>d</sub>	2,51	-
For air-water heat pumps: T <sub>j</sub> = -15°C		P <sub>dh</sub>	-	kW	For air-water heat pumps: T <sub>j</sub> = -15°C		COP <sub>d</sub>	-	-
Bivalent temperature		T <sub>biv</sub>	7	°C	For air/water heat pumps: Operating limit temperature		TOL	2	°C
Capacity of the cycle range for central heating		P <sub>cych</sub>	-	kW	Efficiency of cycle range		COP <sub>cyc</sub>	-	-
Degradation coefficient (**)		C <sub>dh</sub>	0,9	-	Heating water operation limit temperature		W <sub>TOLp</sub>	65	°C
Power consumption in modes other than active mode					Additional heater				
OFF mode		P <sub>OFF</sub>	0,014	kW	Rated heat output (*)		P <sub>sup</sub>	0,18	kW
Standby Mode		P <sub>TO</sub>	0,014	kW	Type of energy supplied		electrical		
Thermostat OFF mode		P <sub>SB</sub>	0,024	kW					
Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW					
Other items									
Capacity control		VARIABLE			For air-water heat pumps: Rated air flow rate outdoors		-	2770	m³\h
Indoor/outdoor sound level		L <sub>WA</sub>	-/-	dB	For water or brine-water heat pumps: Rated water or brine flow rate, heat exchanger outdoors		-	-	m³\h
Annual energy consumption		Q <sub>HE</sub>	1621	kWh					
For mixed central heating appliances with a heat pump									
Stated load profile		-			Water central heating energy efficiency		η <sub>wh</sub>	-	%
Daily electrical power consumption		Q <sub>elec</sub>	-	kWh	Daily fuel consumption		Q <sub>fuel</sub>	-	kWh
Annual electrical power consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact information		Immergas S.p.A. via Cisa Ligure n.95							
(*) For heat pump appliances for space heating and heating appliances mixed with heat pump, the rated heat output P <sub>rated</sub> is equal to the design load for heating. P <sub>designh</sub> and the rated heat output of an additional heater P <sub>sup</sub> is equal to the supplementary heating capacity sup(T <sub>j</sub> ).									
(**) If C <sub>dh</sub> is not determined by measuring, the default degradation coefficient is C <sub>dh</sub> = 0.9.									

Model		MAGISM6					
Air/water heat pump			yes	Low temperature heat pump			no
Water/water heat pump			no	With Supplementary heater			no
Brine/water heat pump			no	Mixed central heating device with heat pump:			no
Declared weather condition: MEDIUM							
The parameters are declared for the medium temperature application.							
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit
Rated heat output (*)	P <sub>rated</sub>	5,7	kW	Room central heating seasonal energy efficiency	η <sub>s</sub>	137,9	%
Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>				Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	5,04	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2,17	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	3,12	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3,51	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	2,08	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4,54	-
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	1,28	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub>	5,59	-
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	5,04	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2,17	-
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	4,52	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub>	1,91	-
For air-water heat pumps: T <sub>j</sub> = -15°C	P <sub>dh</sub>	-	kW	For air-water heat pumps: T <sub>j</sub> = -15°C	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	For air/water heat pumps: Operating limit temperature	TOL	-10	°C
Capacity of the cycle range for central heating	P <sub>cych</sub>	-	kW	Efficiency of cycle range	COP <sub>cyc</sub>	-	-
Degradation coefficient (**)	C <sub>dh</sub>	0,9	-	Heating water operation limit temperature	W <sub>TOLp</sub>	65	°C
Power consumption in modes other than active mode				Additional heater			
OFF mode	P <sub>OFF</sub>	0,014	kW	Rated heat output (*)	P <sub>sup</sub>	1,18	kW
Standby Mode	P <sub>TO</sub>	0,014	kW	Type of energy supplied	electrical		
Thermostat OFF mode	P <sub>SB</sub>	0,024	kW				
Crankcase heater mode electrical	P <sub>CK</sub>	0,000	kW				
Other items							
Capacity control	VARIABLE			For air-water heat pumps: Rated air flow rate outdoors	-	2770	m³\h
Indoor/outdoor sound level	L <sub>WA</sub>	-/58,0	dB	For water or brine-water heat pumps: Rated water or brine flow rate, heat exchanger outdoors	-	-	m³\h
Annual energy consumption	Q <sub>HE</sub>	3345	kWh				
For mixed central heating appliances with a heat pump							
Stated load profile	-			Water central heating energy efficiency	η <sub>wh</sub>	-	%
Daily electrical power consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
Annual electrical power consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact information	Immergas S.p.A. via Cisa Ligure n.95						
(*) For heat pump appliances for space heating and heating appliances mixed with heat pump, the rated heat output P <sub>rated</sub> is equal to the design load for heating. P <sub>designh</sub> and the rated heat output of an additional heater P <sub>sup</sub> is equal to the supplementary heating capacity sup(T <sub>j</sub> ).							
(**) If C <sub>dh</sub> is not determined by measuring, the default degradation coefficient is C <sub>dh</sub> = 0.9.							

Model		MAGIS M6							
Air/water heat pump			yes	Low temperature heat pump			no		
Water/water heat pump			no	With Supplementary heater			no		
Brine/water heat pump			no	Mixed central heating device with heat pump:			no		
Declared weather condition: COLD									
The parameters are declared for the medium temperature application.									
Element		Symbol	Value	Unit	Element		Symbol	Value	Unit
Rated heat output (*)		P <sub>rated</sub>	4,3	kW	Room central heating seasonal energy efficiency		η <sub>s</sub>	111,1	%
Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>					Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>				
T <sub>j</sub> = - 7 °C		P <sub>dh</sub>	2,70	kW	T <sub>j</sub> = - 7 °C		COP <sub>d</sub>	2,46	-
T <sub>j</sub> = + 2 °C		P <sub>dh</sub>	1,60	kW	T <sub>j</sub> = + 2 °C		COP <sub>d</sub>	3,36	-
T <sub>j</sub> = + 7 °C		P <sub>dh</sub>	1,02	kW	T <sub>j</sub> = + 7 °C		COP <sub>d</sub>	3,94	-
T <sub>j</sub> = + 12 °C		P <sub>dh</sub>	1,37	kW	T <sub>j</sub> = + 12 °C		COP <sub>d</sub>	6,35	-
T <sub>j</sub> = bivalent temperature		P <sub>dh</sub>	3,47	kW	T <sub>j</sub> = bivalent temperature		COP <sub>d</sub>	1,86	-
T <sub>j</sub> = operating limit temperature		P <sub>dh</sub>	2,09	kW	T <sub>j</sub> = operating limit temperature		COP <sub>d</sub>	1,13	-
For air-water heat pumps: T <sub>j</sub> = -15°C		P <sub>dh</sub>	-	kW	For air-water heat pumps: T <sub>j</sub> = -15°C		COP <sub>d</sub>	-	-
Bivalent temperature		T <sub>biv</sub>	-15	°C	For air/water heat pumps: Operating limit temperature		TOL	-22	°C
Capacity of the cycle range for central heating		P <sub>cych</sub>	-	kW	Efficiency of cycle range		COP <sub>cyc</sub>	-	-
Degradation coefficient (**)		C <sub>dh</sub>	0,9	-	Heating water operation limit temperature		W <sub>TOLp</sub>	65	°C
Power consumption in modes other than active mode					Additional heater				
OFF mode		P <sub>OFF</sub>	0,014	kW	Rated heat output (*)		P <sub>sup</sub>	2,17	kW
Standby Mode		P <sub>TO</sub>	0,014	kW	Type of energy supplied		electrical		
Thermostat OFF mode		P <sub>SB</sub>	0,024	kW					
Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW					
Other items									
Capacity control		VARIABLE			For air-water heat pumps: Rated air flow rate outdoors		-	2770	m³\h
Indoor/outdoor sound level		L <sub>WA</sub>	-/-	dB	For water or brine-water heat pumps: Rated water or brine flow rate, heat exchanger outdoors		-	-	m³\h
Annual energy consumption		Q <sub>HE</sub>	3681	kWh					
For mixed central heating appliances with a heat pump									
Stated load profile		-			Water central heating energy efficiency		η <sub>wh</sub>	-	%
Daily electrical power consumption		Q <sub>elec</sub>	-	kWh	Daily fuel consumption		Q <sub>fuel</sub>	-	kWh
Annual electrical power consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact information		Immergas S.p.A. via Cisa Ligure n.95							
(*) For heat pump appliances for space heating and heating appliances mixed with heat pump, the rated heat output P <sub>rated</sub> is equal to the design load for heating. P <sub>designh</sub> and the rated heat output of an additional heater P <sub>sup</sub> is equal to the supplementary heating capacity sup(T <sub>j</sub> ).									
(**) If C <sub>dh</sub> is not determined by measuring, the default degradation coefficient is C <sub>dh</sub> = 0.9.									

Model		MAGISM6						
Air/water heat pump		yes		Low temperature heat pump			no	
Water/water heat pump		no		With Supplementary heater			no	
Brine/water heat pump		no		Mixed central heating device with heat pump:			no	
Declared weather condition: WARM								
The parameters are declared for the medium temperature application.								
Element		Symbol	Value	Unit	Element	Symbol	Value	Unit
Rated heat output (*)		P <sub>rated</sub>	5,1	kW	Room central heating seasonal energy efficiency	η <sub>s</sub>	164,7	%
Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>				Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>				
T <sub>j</sub> = - 7 °C		P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
T <sub>j</sub> = + 2 °C		P <sub>dh</sub>	5,02	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2,48	-
T <sub>j</sub> = + 7 °C		P <sub>dh</sub>	3,31	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3,67	-
T <sub>j</sub> = + 12 °C		P <sub>dh</sub>	1,60	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub>	5,29	-
T <sub>j</sub> = bivalent temperature		P <sub>dh</sub>	3,31	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	3,67	-
T <sub>j</sub> = operating limit temperature		P <sub>dh</sub>	5,02	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub>	2,48	-
For air-water heat pumps: T <sub>j</sub> = -15°C		P <sub>dh</sub>	-	kW	For air-water heat pumps: T <sub>j</sub> = -15°C	COP <sub>d</sub>	-	-
Bivalent temperature		T <sub>biv</sub>	7	°C	For air/water heat pumps: Operating limit temperature	TOL	2	°C
Capacity of the cycle range for central heating		P <sub>cych</sub>	-	kW	Efficiency of cycle range	COP <sub>cyc</sub>	-	-
Degradation coefficient (**)		C <sub>dh</sub>	0,9	-	Heating water operation limit temperature	W <sub>TOLp</sub>	65	°C
Power consumption in modes other than active mode				Additional heater				
OFF mode		P <sub>OFF</sub>	0,014	kW	Rated heat output (*)	P <sub>sup</sub>	0,12	kW
Standby Mode		P <sub>TO</sub>	0,014	kW	Type of energy supplied	electrical		
Thermostat OFF mode		P <sub>SB</sub>	0,024	kW				
Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW				
Other items								
Capacity control		VARIABLE		For air-water heat pumps: Rated air flow rate outdoors		-	2770	m³\h
Indoor/outdoor sound level		L <sub>WA</sub>	-/-	dB	For water or brine-water heat pumps: Rated water or brine flow rate, heat exchanger outdoors		-	-
Annual energy consumption		Q <sub>HE</sub>	1640	kWh				m³\h
For mixed central heating appliances with a heat pump								
Stated load profile		-		Water central heating energy efficiency		η <sub>wh</sub>	-	%
Daily electrical power consumption		Q <sub>elec</sub>	-	kWh	Daily fuel consumption		Q <sub>fuel</sub>	-
Annual electrical power consumption		AEC	-	kWh	Annual fuel consumption		AFC	-
Contact information		Immergas S.p.A. via Cisa Ligure n.95						
(*) For heat pump appliances for space heating and heating appliances mixed with heat pump, the rated heat output P <sub>rated</sub> is equal to the design load for heating. P <sub>designh</sub> and the rated heat output of an additional heater P <sub>sup</sub> is equal to the supplementary heating capacity sup(T <sub>j</sub> ).								
(**) If C <sub>dh</sub> is not determined by measuring, the default degradation coefficient is C <sub>dh</sub> = 0.9.								

Model		MAGIS M8							
Air/water heat pump			yes	Low temperature heat pump			no		
Water/water heat pump			no	With Supplementary heater			no		
Brine/water heat pump			no	Mixed central heating device with heat pump:			no		
Declared weather condition: MEDIUM									
The parameters are declared for the medium temperature application.									
Element		Symbol	Value	Unit	Element		Symbol	Value	Unit
Rated heat output (*)		P <sub>rated</sub>	6,6	kW	Room central heating seasonal energy efficiency		η <sub>s</sub>	131,5	%
Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>					Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>				
T <sub>j</sub> = - 7 °C		P <sub>dh</sub>	5,84	kW	T <sub>j</sub> = - 7 °C		COP <sub>d</sub>	2,16	-
T <sub>j</sub> = + 2 °C		P <sub>dh</sub>	3,75	kW	T <sub>j</sub> = + 2 °C		COP <sub>d</sub>	3,30	-
T <sub>j</sub> = + 7 °C		P <sub>dh</sub>	2,42	kW	T <sub>j</sub> = + 7 °C		COP <sub>d</sub>	4,34	-
T <sub>j</sub> = + 12 °C		P <sub>dh</sub>	1,39	kW	T <sub>j</sub> = + 12 °C		COP <sub>d</sub>	5,33	-
T <sub>j</sub> = bivalent temperature		P <sub>dh</sub>	5,84	kW	T <sub>j</sub> = bivalent temperature		COP <sub>d</sub>	2,16	-
T <sub>j</sub> = operating limit temperature		P <sub>dh</sub>	4,9	kW	T <sub>j</sub> = operating limit temperature		COP <sub>d</sub>	1,84	-
For air-water heat pumps: T <sub>j</sub> = -15°C		P <sub>dh</sub>	-	kW	For air-water heat pumps: T <sub>j</sub> = -15°C		COP <sub>d</sub>	-	-
Bivalent temperature		T <sub>biv</sub>	-7	°C	For air/water heat pumps: Operating limit temperature		TOL	-10	°C
Capacity of the cycle range for central heating		P <sub>cych</sub>	-	kW	Efficiency of cycle range		COP <sub>cyc</sub>	-	-
Degradation coefficient (**)		C <sub>dh</sub>	0,9	-	Heating water operation limit temperature		W <sub>TOLp</sub>	65	°C
Power consumption in modes other than active mode					Additional heater				
OFF mode		P <sub>OFF</sub>	0,014	kW	Rated heat output (*)		P <sub>sup</sub>	1,69	kW
Standby Mode		P <sub>TO</sub>	0,014	kW	Type of energy supplied		electrical		
Thermostat OFF mode		P <sub>SB</sub>	0,024	kW					
Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW					
Other items									
Capacity control		VARIABLE			For air-water heat pumps: Rated air flow rate outdoors		-	4030	m³\h
Indoor/outdoor sound level		L <sub>WA</sub>	-/59,0	dB	For water or brine-water heat pumps: Rated water or brine flow rate, heat exchanger outdoors		-	-	m³\h
Annual energy consumption		Q <sub>HE</sub>	4056	kWh					
For mixed central heating appliances with a heat pump									
Stated load profile		-			Water central heating energy efficiency		η <sub>wh</sub>	-	%
Daily electrical power consumption		Q <sub>elec</sub>	-	kWh	Daily fuel consumption		Q <sub>fuel</sub>	-	kWh
Annual electrical power consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact information		Immergas S.p.A. via Cisa Ligure n.95							
(*) For heat pump appliances for space heating and heating appliances mixed with heat pump, the rated heat output P <sub>rated</sub> is equal to the design load for heating. P <sub>designh</sub> and the rated heat output of an additional heater P <sub>sup</sub> is equal to the supplementary heating capacity sup(T <sub>j</sub> ).									
(**) If C <sub>dh</sub> is not determined by measuring, the default degradation coefficient is C <sub>dh</sub> = 0.9.									

Model			MAGISM8				
Air/water heat pump			yes	Low temperature heat pump			no
Water/water heat pump			no	With Supplementary heater			no
Brine/water heat pump			no	Mixed central heating device with heat pump:			no
Declared weather condition: COLD							
The parameters are declared for the medium temperature application.							
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit
Rated heat output (*)	P <sub>rated</sub>	5,8	kW	Room central heating seasonal energy efficiency	η <sub>s</sub>	112,0	%
Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>				Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	3,86	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2,48	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	2,21	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3,35	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	1,44	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4,11	-
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	1,46	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub>	5,92	-
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	4,71	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1,9	-
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	2,8	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub>	1,22	-
For air-water heat pumps: T <sub>j</sub> = -15°C	P <sub>dh</sub>	-	kW	For air-water heat pumps: T <sub>j</sub> = -15°C	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-15	°C	For air/water heat pumps: Operating limit temperature	TOL	-22	°C
Capacity of the cycle range for central heating	P <sub>cych</sub>	-	kW	Efficiency of cycle range	COP <sub>cyc</sub>	-	-
Degradation coefficient (**)	C <sub>dh</sub>	0,9	-	Heating water operation limit temperature	W <sub>TOLp</sub>	65	°C
Power consumption in modes other than active mode				Additional heater			
OFF mode	P <sub>OFF</sub>	0,014	kW	Rated heat output (*)	P <sub>sup</sub>	2,97	kW
Standby Mode	P <sub>TO</sub>	0,014	kW	Type of energy supplied	electrical		
Thermostat OFF mode	P <sub>SB</sub>	0,024	kW				
Crankcase heater mode electrical	P <sub>CK</sub>	0,000	kW				
Other items							
Capacity control	VARIABLE			For air-water heat pumps: Rated air flow rate outdoors	-	4030	m³\h
Indoor/outdoor sound level	L <sub>WA</sub>	-/-	dB	For water or brine-water heat pumps: Rated water or brine flow rate, heat exchanger outdoors	-	-	m³\h
Annual energy consumption	Q <sub>HE</sub>	4950	kWh				
For mixed central heating appliances with a heat pump							
Stated load profile	-			Water central heating energy efficiency	η <sub>wh</sub>	-	%
Daily electrical power consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
Annual electrical power consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact information	Immergas S.p.A. via Cisa Ligure n.95						
(*) For heat pump appliances for space heating and heating appliances mixed with heat pump, the rated heat output P <sub>rated</sub> is equal to the design load for heating. P <sub>designh</sub> and the rated heat output of an additional heater P <sub>sup</sub> is equal to the supplementary heating capacity sup(T <sub>j</sub> ).							
(**) If C <sub>dh</sub> is not determined by measuring, the default degradation coefficient is C <sub>dh</sub> = 0.9.							

Model		MAGIS M8							
Air/water heat pump			yes	Low temperature heat pump			no		
Water/water heat pump			no	With Supplementary heater			no		
Brine/water heat pump			no	Mixed central heating device with heat pump:			no		
Declared weather condition: WARM									
The parameters are declared for the medium temperature application.									
Element		Symbol	Value	Unit	Element		Symbol	Value	Unit
Rated heat output (*)		P <sub>rated</sub>	8,37	kW	Room central heating seasonal energy efficiency		η <sub>s</sub>	176,9	%
Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>					Central heating capacity declared for a partial load at indoor temperature of 20°C and outdoor temperature T <sub>j</sub>				
T <sub>j</sub> = - 7 °C		P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C		COP <sub>d</sub>	-	-
T <sub>j</sub> = + 2 °C		P <sub>dh</sub>	7,55	kW	T <sub>j</sub> = + 2 °C		COP <sub>d</sub>	2,59	-
T <sub>j</sub> = + 7 °C		P <sub>dh</sub>	5,38	kW	T <sub>j</sub> = + 7 °C		COP <sub>d</sub>	4,01	-
T <sub>j</sub> = + 12 °C		P <sub>dh</sub>	2,31	kW	T <sub>j</sub> = + 12 °C		COP <sub>d</sub>	5,55	-
T <sub>j</sub> = bivalent temperature		P <sub>dh</sub>	5,38	kW	T <sub>j</sub> = bivalent temperature		COP <sub>d</sub>	4,01	-
T <sub>j</sub> = operating limit temperature		P <sub>dh</sub>	7,55	kW	T <sub>j</sub> = operating limit temperature		COP <sub>d</sub>	2,59	-
For air-water heat pumps: T <sub>j</sub> = -15°C		P <sub>dh</sub>	-	kW	For air-water heat pumps: T <sub>j</sub> = -15°C		COP <sub>d</sub>	-	-
Bivalent temperature		T <sub>biv</sub>	7	°C	For air/water heat pumps: Operating limit temperature		TOL	2	°C
Capacity of the cycle range for central heating		P <sub>cych</sub>	-	kW	Efficiency of cycle range		COP <sub>cyc</sub>	-	-
Degradation coefficient (**)		C <sub>dh</sub>	0,9	-	Heating water operation limit temperature		W <sub>TOLp</sub>	65	°C
Power consumption in modes other than active mode					Additional heater				
OFF mode		P <sub>OFF</sub>	0,014	kW	Rated heat output (*)		P <sub>sup</sub>	0,82	kW
Standby Mode		P <sub>TO</sub>	0,014	kW	Type of energy supplied		electrical		
Thermostat OFF mode		P <sub>SB</sub>	0,024	kW					
Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW					
Other items									
Capacity control		VARIABLE			For air-water heat pumps: Rated air flow rate outdoors		-	4030	m³\h
Indoor/outdoor sound level		L <sub>WA</sub>	-/-	dB	For water or brine-water heat pumps: Rated water or brine flow rate, heat exchanger outdoors		-	-	m³\h
Annual energy consumption		Q <sub>HE</sub>	2485	kWh					
For mixed central heating appliances with a heat pump									
Stated load profile		-			Water central heating energy efficiency		η <sub>wh</sub>	-	%
Daily electrical power consumption		Q <sub>elec</sub>	-	kWh	Daily fuel consumption		Q <sub>fuel</sub>	-	kWh
Annual electrical power consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact information		Immergas S.p.A. via Cisa Ligure n.95							
(*) For heat pump appliances for space heating and heating appliances mixed with heat pump, the rated heat output P <sub>rated</sub> is equal to the design load for heating. P <sub>designh</sub> and the rated heat output of an additional heater P <sub>sup</sub> is equal to the supplementary heating capacity sup(T <sub>j</sub> ).									
(**) If C <sub>dh</sub> is not determined by measuring, the default degradation coefficient is C <sub>dh</sub> = 0.9.									



## 4 INFORMATION REQUIREMENTS FOR SPACE CHILLERS

Information requirements for space chillers									
Model				MAGIS M4					
Heat exchanger:				Air-Water					
Type:				Steam compression cycle					
Compressor start-up:				Electric motor					
Element		Symbol	Value	Unit	Element		Symbol	Value	Unit
Rated cooling capacity		P <sub>rated,c</sub>	4,7	kW	Space heating seasonal energy efficiency		η <sub>s,c</sub>	196,2	%
Cooling capacity declared for partial load at a given outdoor temperature T <sub>j</sub>				Cooling capacity declared for partial load at a given outdoor temperature T <sub>j</sub>					
T <sub>j</sub> = +35°C		P <sub>dc</sub>	4,70	kW	T <sub>j</sub> = +35°C		EER <sub>d</sub>	3,45	-
T <sub>j</sub> = +30°C		P <sub>dc</sub>	3,66	kW	T <sub>j</sub> = +30°C		EER <sub>d</sub>	4,76	-
T <sub>j</sub> = +25°C		P <sub>dc</sub>	2,21	kW	T <sub>j</sub> = +25°C		EER <sub>d</sub>	5,72	-
T <sub>j</sub> = +20°C		P <sub>dc</sub>	0,94	kW	T <sub>j</sub> = +20°C		EER <sub>d</sub>	5,72	-
Degradation coefficient for chillers (*)		C <sub>dc</sub>	0,9	-					
Power consumption in modes other than “active mode”									
OFF mode		P <sub>OFF</sub>	0,014	kW	Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW
Thermostat OFF mode		P <sub>TO</sub>	0,010	kW	Standby Mode		P <sub>SB</sub>	0,014	kW
Other items									
Capacity control		VARIABLE		For air-water emergency chillers: air flow rate, measured outdoors		-	2770	m³\h	
Sound power level, indoors/outdoors		L <sub>WA</sub>	- \ 56						dB
Emissions of nitrogen oxides (if applicable)		NO <sub>x</sub> (**)	-	mg\ kWh input GCV	For water / brine-water chillers: brine or rated brine water flow rate, outdoors side heat exchanger		-	-	m³\h
GWP of refrigerant		-	675	kg CO <sub>2eq</sub>					
Standard rating conditions used		Low temperature application							
Contact information		Immergas S.p.A. via Cisa Ligure n.95							
(*) If C <sub>dc</sub> is not determined by measuring, the standard degradation coefficient of chillers must be 0.9.									
(**) Since September 26, 2018									

Information requirements for space chillers									
Model				MAGISM4					
Heat exchanger:				Air-Water					
Type:				Steam compression cycle					
Compressor start-up:				Electric motor					
Element		Symbol	Value	Unit	Element		Symbol	Value	Unit
Rated cooling capacity		P <sub>rated,c</sub>	4,5	kW	Space heating seasonal energy efficiency		η <sub>s,c</sub>	307,4	%
Cooling capacity declared for partial load at a given outdoor temperature Tj				Cooling capacity declared for partial load at a given outdoor temperature Tj					
Tj = +35°C		P <sub>dc</sub>	4,50	kW	Tj = +35°C		EER <sub>d</sub>	5,50	-
Tj = +30°C		P <sub>dc</sub>	3,44	kW	Tj = +30°C		EER <sub>d</sub>	7,23	-
Tj = +25°C		P <sub>dc</sub>	2,19	kW	Tj = +25°C		EER <sub>d</sub>	8,94	-
Tj = +20°C		P <sub>dc</sub>	1,13	kW	Tj = +20°C		EER <sub>d</sub>	10,48	-
Degradation coefficient for chillers (*)		C <sub>dc</sub>	0,9	-					
Power consumption in modes other than “active mode”									
OFF mode		P <sub>OFF</sub>	0,014	kW	Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW
Thermostat OFF mode		P <sub>TO</sub>	0,010	kW	Standby Mode		P <sub>SB</sub>	0,014	kW
Other items									
Capacity control		VARIABLE		For air-water emergency chillers: air flow rate, measured outdoors		-	2770	m³\h	
Sound power level, indoors/outdoors		L <sub>WA</sub>	- \ 56	dB	For water / brine-water chillers: brine or rated brine water flow rate, outdoors side heat exchanger		-	-	m³\h
Emissions of nitrogen oxides (if applicable)		NO <sub>x</sub> (**)	-	mg\ kWh input GCV					
GWP of refrigerant		-	675	kg CO <sub>2eq</sub>					
Standard rating conditions used		Medium temperature application							
Contact information		Immergas S.p.A. via Cisa Ligure n.95							
(*) If C <sub>dc</sub> is not determined by measuring, the standard degradation coefficient of chillers must be 0.9.									
(**) Since September 26, 2018									

Information requirements for space chillers									
Model				MAGISM6					
Heat exchanger:				Air-Water					
Type:				Steam compression cycle					
Compressor start-up:				Electric motor					
Element		Symbol	Value	Unit	Element		Symbol	Value	Unit
Rated cooling capacity		P <sub>rated,c</sub>	7,0	kW	Space heating seasonal energy efficiency		η <sub>s,c</sub>	209,5	%
Cooling capacity declared for partial load at a given outdoor temperature T <sub>j</sub>				Cooling capacity declared for partial load at a given outdoor temperature T <sub>j</sub>					
T <sub>j</sub> = +35°C		P <sub>dc</sub>	7,00	kW	T <sub>j</sub> = +35°C		EER <sub>d</sub>	3,00	-
T <sub>j</sub> = +30°C		P <sub>dc</sub>	5,13	kW	T <sub>j</sub> = +30°C		EER <sub>d</sub>	4,00	-
T <sub>j</sub> = +25°C		P <sub>dc</sub>	3,48	kW	T <sub>j</sub> = +25°C		EER <sub>d</sub>	6,45	-
T <sub>j</sub> = +20°C		P <sub>dc</sub>	1,53	kW	T <sub>j</sub> = +20°C		EER <sub>d</sub>	7,73	-
Degradation coefficient for chillers (*)		C <sub>dc</sub>	0,9	-					
Power consumption in modes other than “active mode”									
OFF mode		P <sub>OFF</sub>	0,014	kW	Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW
Thermostat OFF mode		P <sub>TO</sub>	0,010	kW	Standby Mode		P <sub>SB</sub>	0,014	kW
Other items									
Capacity control		VARIABLE		For air-water emergency chillers: air flow rate, measured outdoors		-	2770	m³\h	
Sound power level, indoors/outdoors		L <sub>WA</sub>	- \60						dB
Emissions of nitrogen oxides (if applicable)		NO <sub>x</sub> (**)	-	mg\ kWh input GCV	For water / brine-water chillers: brine or rated brine water flow rate, outdoors side heat exchanger		-	-	m³\h
GWP of refrigerant		-	675	kg CO <sub>2eq</sub>					
Standard rating conditions used		Low temperature application							
Contact information		Immergas S.p.A. via Cisa Ligure n.95							
(*) If C <sub>dc</sub> is not determined by measuring, the standard degradation coefficient of chillers must be 0.9.									
(**) Since September 26, 2018									

Information requirements for space chillers									
Model				MAGISM6					
Heat exchanger:				Air-Water					
Type:				Steam compression cycle					
Compressor start-up:				Electric motor					
Element		Symbol	Value	Unit	Element		Symbol	Value	Unit
Rated cooling capacity		P <sub>rated,c</sub>	6,5	kW	Space heating seasonal energy efficiency		η <sub>s,c</sub>	325,9	%
Cooling capacity declared for partial load at a given outdoor temperature T <sub>j</sub>					Cooling capacity declared for partial load at a given outdoor temperature T <sub>j</sub>				
T <sub>j</sub> = +35°C		P <sub>dc</sub>	6,50	kW	T <sub>j</sub> = +35°C		EER <sub>d</sub>	4,80	-
T <sub>j</sub> = +30°C		P <sub>dc</sub>	4,48	kW	T <sub>j</sub> = +30°C		EER <sub>d</sub>	7,16	-
T <sub>j</sub> = +25°C		P <sub>dc</sub>	3,26	kW	T <sub>j</sub> = +25°C		EER <sub>d</sub>	9,64	-
T <sub>j</sub> = +20°C		P <sub>dc</sub>	1,41	kW	T <sub>j</sub> = +20°C		EER <sub>d</sub>	11,48	-
Degradation coefficient for chillers (*)		C <sub>dc</sub>	0,9	-					
<b>Power consumption in modes other than “active mode”</b>									
OFF mode		P <sub>OFF</sub>	0,014	kW	Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW
Thermostat OFF mode		P <sub>TO</sub>	0,010	kW	Standby Mode		P <sub>SB</sub>	0,014	kW
<b>Other items</b>									
Capacity control		VARIABLE			For air-water emergency chillers: air flow rate, measured outdoors		-	2770	m³\h
Sound power level, indoors/outdoors		L <sub>WA</sub>	- \58	dB					
Emissions of nitrogen oxides (if applicable)		NO <sub>x</sub> (**)	-	mg\ kWh input GCV	For water / brine-water chillers: brine or rated brine water flow rate, outdoors side heat exchanger		-	-	m³\h
GWP of refrigerant		-	675	kg CO <sub>2eq</sub>					
Standard rating conditions used		Medium temperature application							
Contact information		Immergas S.p.A. via Cisa Ligure n.95							
(*) If C <sub>dc</sub> is not determined by measuring, the standard degradation coefficient of chillers must be 0.9.									
(**) Since September 26, 2018									

Information requirements for space chillers									
Model				MAGISM8					
Heat exchanger:				Air-Water					
Type:				Steam compression cycle					
Compressor start-up:				Electric motor					
Element		Symbol	Value	Unit	Element		Symbol	Value	Unit
Rated cooling capacity		P <sub>rated,c</sub>	7,45	kW	Space heating seasonal energy efficiency		η <sub>s,c</sub>	229,9	%
Cooling capacity declared for partial load at a given outdoor temperature T <sub>j</sub>				Cooling capacity declared for partial load at a given outdoor temperature T <sub>j</sub>					
T <sub>j</sub> = +35°C		P <sub>dc</sub>	7,45	kW	T <sub>j</sub> = +35°C		EER <sub>d</sub>	3,35	-
T <sub>j</sub> = +30°C		P <sub>dc</sub>	5,72	kW	T <sub>j</sub> = +30°C		EER <sub>d</sub>	4,71	-
T <sub>j</sub> = +25°C		P <sub>dc</sub>	3,62	kW	T <sub>j</sub> = +25°C		EER <sub>d</sub>	6,65	-
T <sub>j</sub> = +20°C		P <sub>dc</sub>	1,64	kW	T <sub>j</sub> = +20°C		EER <sub>d</sub>	8,55	-
Degradation coefficient for chillers (*)		C <sub>dc</sub>	0,9	-					
Power consumption in modes other than “active mode”									
OFF mode		P <sub>OFF</sub>	0,014	kW	Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW
Thermostat OFF mode		P <sub>TO</sub>	0,010	kW	Standby Mode		P <sub>SB</sub>	0,014	kW
Other items									
Capacity control		VARIABLE			For air-water emergency chillers: air flow rate, measured outdoors		-	4030	m³\h
Sound power level, indoors/outdoors		L <sub>WA</sub>	- \60	dB					
Emissions of nitrogen oxides (if applicable)		NO <sub>x</sub> (**)	-	mg\ kWh input GCV	For water / brine-water chillers: brine or rated brine water flow rate, outdoors side heat exchanger		-	-	m³\h
GWP of refrigerant		-	675	kg CO <sub>2eq</sub>					
Standard rating conditions used		Low temperature application							
Contact information		Immergas S.p.A. via Cisa Ligure n.95							
(*) If C <sub>dc</sub> is not determined by measuring, the standard degradation coefficient of chillers must be 0.9.									
(**) Since September 26, 2018									

Information requirements for space chillers									
Model				MAGISM8					
Heat exchanger:				Air-Water					
Type:				Steam compression cycle					
Compressor start-up:				Electric motor					
Element		Symbol	Value	Unit	Element		Symbol	Value	Unit
Rated cooling capacity		P <sub>rated,c</sub>	8,3	kW	Space heating seasonal energy efficiency		η <sub>s,c</sub>	354,7	%
Cooling capacity declared for partial load at a given outdoor temperature T <sub>j</sub>					Cooling capacity declared for partial load at a given outdoor temperature T <sub>j</sub>				
T <sub>j</sub> = +35°C		P <sub>dc</sub>	8,30	kW	T <sub>j</sub> = +35°C		EER <sub>d</sub>	5,05	-
T <sub>j</sub> = +30°C		P <sub>dc</sub>	6,47	kW	T <sub>j</sub> = +30°C		EER <sub>d</sub>	7,02	-
T <sub>j</sub> = +25°C		P <sub>dc</sub>	4,31	kW	T <sub>j</sub> = +25°C		EER <sub>d</sub>	10,67	-
T <sub>j</sub> = +20°C		P <sub>dc</sub>	1,80	kW	T <sub>j</sub> = +20°C		EER <sub>d</sub>	13,61	-
Degradation coefficient for chillers (*)		C <sub>dc</sub>	0,9	-					
<b>Power consumption in modes other than “active mode”</b>									
OFF mode		P <sub>OFF</sub>	0,014	kW	Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW
Thermostat OFF mode		P <sub>TO</sub>	0,010	kW	Standby Mode		P <sub>SB</sub>	0,014	kW
<b>Other items</b>									
Capacity control		VARIABLE			For air-water emergency chillers: air flow rate, measured outdoors		-	4030	m³\h
Sound power level, indoors/outdoors		L <sub>WA</sub>	- \ 60	dB					
Emissions of nitrogen oxides (if applicable)		NO <sub>x</sub> (**)	-	mg\ kWh input GCV	For water / brine-water chillers: brine or rated brine water flow rate, outdoors side heat exchanger		-	-	m³\h
GWP of refrigerant		-	675	kg CO <sub>2eq</sub>					
Standard rating conditions used		Medium temperature application							
Contact information		Immergas S.p.A. via Cisa Ligure n.95							
(*) If C <sub>dc</sub> is not determined by measuring, the standard degradation coefficient of chillers must be 0.9.									
(**) Since September 26, 2018									

## 5 TECHNICAL DATA TABLE ON ENVIRONMENTAL CONDITIONS

Conditions (°C)		MAGISM4	MAGISM6	MAGISM8
Room Temperature: 35/24 Water Temperature: 12/7	Capacity (kW)	4,7	7,0	7,45
	Absorbed power (kW)	1,36	2,33	2,22
	EER/COP (/)	3,45	3,0	3,35
Room Temperature: 35/24 Water Temperature: 23/18	Capacity (kW)	4,5	6,5	8,3
	Absorbed power (kW)	0,82	1,35	1,64
	EER/COP (/)	5,5	4,8	5,05
Room Temperature: 7/6 Water Temperature: 30/35	Capacity (kW)	4,2	6,35	8,4
	Absorbed power (kW)	0,82	1,28	1,63
	EER/COP (/)	5,1	4,95	5,15
Room Temperature: 2/1 Water Temperature: 30/35	Capacity (kW)	4,40	5,50	7,1
	Absorbed power (kW)	1,10	1,41	1,73
	EER/COP (/)	4,00	3,9	4,10
Room Temperature: -7/-8 Water Temperature: 30/35	Capacity (kW)	4,70	6,00	7,00
	Absorbed power (kW)	1,52	2,00	2,19
	EER/COP (/)	3,10	3,00	3,20
Room Temperature: 7/6 Water Temperature: 40/45	Capacity (kW)	4,3	6,3	8,1
	Absorbed power (kW)	1,13	1,7	2,1
	EER/COP (/)	3,8	3,7	3,85
Room Temperature: 2/1 Water Temperature: 40/45	Capacity (kW)	5,10	5,80	7,40
	Absorbed power (kW)	1,70	1,93	2,28
	EER/COP (/)	3,00	3,00	3,25
Room Temperature: -7/-8 Water Temperature: 40/45	Capacity (kW)	4,30	5,40	6,60
	Absorbed power (kW)	1,83	2,25	2,59
	EER/COP (/)	2,35	2,40	2,55
Room Temperature: 7/6 Water Temperature: 47/55	Capacity (kW)	4,4	6,0	7,5
	Absorbed power (kW)	1,49	2,03	2,36
	EER/COP (/)	2,95	2,95	3,18
Room Temperature: 2/1 Water Temperature: 47/55	Capacity (kW)	5,10	5,65	7,10
	Absorbed power (kW)	2,08	2,31	2,73
	EER/COP (/)	2,45	2,45	2,60
Room Temperature: -7/-8 Water Temperature: 47/55	Capacity (kW)	4,00	5,15	6,15
	Absorbed power (kW)	2,05	2,58	3,00
	EER/COP (/)	1,95	2,00	2,05



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