



# MAGIS M4-6-8 EH3

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.

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 **UNIENISO 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.

### **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-contractualliability 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: <u>www.immergas.com</u>

## **TECHNICAL DATA**

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### 1.1 MEDIUM TEMPERATURE APPLICATIONS

		For medium temperature applications						
			M	edium zone temperatur	es			
Model	Energy efficiency class	Sound power of unit	Nominal heat output	Space heating seasonal energy efficiency	For space heating, annual power consumption			
	-	dB	kW	%	kWh			
MAGISM4EH3	A++	55,0	4,4	129,5	2744			
MAGISM6EH3	A++	58,0	5,7	137,9	3345			
MAGIS M8EH3	A++	59,0	6,6	131,5	4056			

	For medium temperature applications						
			(	Cold zones temperature	s		
Model	Energy efficiency class	Sound power of unit	Nominal heat output	Space heating seasonal energy efficiency	For space heating, annual power consumption		
	-	dB	kW	%	kWh		
MAGISM4EH3	A++	55,0	3,4	102,1	3159		
MAGISM6EH3	A++	58,0	4,3	111,1	3681		
MAGIS M8 EH3	A++	59,0	5,8	112,0	4950		

	For medium temperature applications						
			Hotzonestemperatures				
Model	Energy efficiency class	Soundpowerofunit	Nominal heat output	Space heating seasonal energy efficiency	For space heating, annual power consumption		
	-	dB	kW	%	kWh		
MAGISM4EH3	A++	55,0	5,0	162,4	1621		
MAGISM6EH3	A++	58,0	5,1	164,7	1640		
MAGIS M8 EH3	A++	59,0	8,37	176,9	2485		

### 1.2 LOW TEMPERATURE APPLICATIONS

	For low temperature applications						
		Sound power of unit	Medium zone temperatures				
Model	Energy efficiency class		Nominal heat output	Space heating seasonal energy efficiency	For space heating, annual power consumption		
	-	dB	kW	%	kWh		
MAGISM4EH3	A+++	55,0	5,5	191,0	2351		
MAGISM6EH3	A+++	58,0	6,8	195,0	2845		
MAGISM8EH3	A+++	59,0	8,1	206,0	3218		

	For low temperature applications						
			(	Cold zones temperature	s		
Model	Energy efficiency class	Soundpowerofunit	Nominal heat output	Space heating seasonal energy efficiency	For space heating, annual power consumption		
	-	dB	kW	%	kWh		
MAGIS M4EH3	A+++	55,0	4,6	159,5	2769		
MAGISM6EH3	A+++	58,0	5,6	165,3	3300		
MAGISM8EH3	A+++	59,0	7,0	170,0	3976		

	For low temperature applications						
				Hot zones temperatures	5		
Model	Energy efficiency class	Sound power of unit		Spaceheating	For space heating,		
			Nominalheatoutput	seasonalenergy	annualpower		
				efficiency	consumption		
	-	dB	kW	%	kWh		
MAGISM4EH3	A+++	55,0	5,5	255,4	1146		
MAGISM6EH3	A+++	58,0	6,1	259,8	1244		
MAGISM8EH3	A+++	59,0	8,1	276,6	1551		

# 2 PRODUCT DATA SHEET

Space heating appliance with heat pur	np	Unit	MAGISM4 EH3	MAGISM6 EH3	MAGISM8 EH3
	Low temperature medium weather application	dB	55,0	58,0	59,0
Sound power of unit	Medium weather temperature application	dB	55,0	58,0	59,0
Space heating	Energy efficiency class 35°C (low temperature application)	-	A+++	A+++	A+++
Spaceheating	Energy efficiency class 55°C (medium temperature application)	-	A++	A++	A++

Medium weather (design tempe	erature=-10°C)	Unit	MAGISM4 EH3	MAGISM6 EH3	MAGISM8 EH3
	P <sub>rated</sub> (declared heating capacity) @ -10°C	kW	5,5	6,8	8,1
Space heating 35°C	Space heating seasonal energy efficiency $(\eta_s)$	%	191,0	195,0	206,0
	Annual power consumption	kWh	2351	2845	3218
	P <sub>rated</sub> (declared heating capacity) @ -10°C	kW	4,4	5,7	6,6
Space heating 55°C	Space heating seasonal energy efficiency $(\eta_s)$	%	129,5	137,9	131,5
	Annual power consumption	kWh	2744	3345	4056

Low temperature application m conditions	nedium weather space heating partial load	Unit	MAGIS M4 EH3	MAGISM6 EH3	MAGISM8 EH3
	<b>P</b> <sub>dh</sub> (Declared heating capacity)	kW	4,88	6,03	7,18
(A) Condition (-7°C)	COP <sub>d</sub> (Declared COP)	-	3,19	3,09	3,35
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	3,05	3,88	4,65
(B) Condition (2°C)	COP <sub>d</sub> (Declared COP)	-	4,78	4,85	5,09
(B) Condition (2°C)	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	1,93	2,39	2,9
(C) Condition (7°C)	COP <sub>d</sub> (Declared COP)	-	6,13	6,63	6,82
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	1,48	1,39	1,63
(D) Condition (12°C)	COP <sub>d</sub> (Declared COP)	-	8,05	7,93	8,35
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9

Low temperature application medium conditions	weather space heating partial load	Unit	MAGISM4 EH3	MAGISM6 EH3	MAGISM8 EH3
	Tol (operation limit temperature)	°C	-10	-10	-10
(T) T-1 (	P <sub>dh</sub> (Declared heating capacity)	kW	4,41	5,36	6,44
(E) Tol (operation limit temperature)	COP <sub>d</sub> (Declared COP)	-	2,86	2,76	3,04
	W <sub>TOL</sub> (Water heating limit operation)	°C	65	65	65
	T <sub>blv</sub>	°C	-7	-7	-7
(F) T <sub>bivalente</sub> temperature	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>	$P_{sup}(@T_{designh}:-10^{\circ}C)$	kW	1,11	1,45	1,68

Medium temperature application aver- partial load conditions	age weather temperature space heating	Unit	MAGISM4 EH3	MAGISM6 EH3	MAGISM8 EH3
	P <sub>dh</sub> (Declared heating capacity)	kW	3,89	5,04	5,84
(A) Condition (-7°C)	COP <sub>d</sub> (Declared COP)	-	2,17	2,17	2,16
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	2,38	3,12	3,75
(B) Condition (2°C)	COP <sub>d</sub> (Declared COP)	-	3,30	3,51	3,30
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	2,94	2,08	2,42
(C) Condition (7°C)	COP <sub>d</sub> (Declared COP)	-	4,41	4,54	4,34
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	1,32	1,28	1,39
(D) Condition (12°C)	COP <sub>d</sub> (Declared COP)	-	5,66	5,59	5,33
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	Tol (operation limit temperature)	°C	-10	-10	-10
	P <sub>dh</sub> (Declared heating capacity)	kW	3,42	4,52	4,9
(E) Tol (operation limit temperature)	COP <sub>d</sub> (Declared COP)	-	1,91	1,91	1,84
	W <sub>TOL</sub> (Water heating limit operation)	°C	65	65	65
	T <sub>blv</sub>	°C	-7	-7	-7
(F) T <sub>bivalente</sub> temperature	P <sub>dh</sub> (Declared heating capacity)	kW	3,89	5,04	5,84
bivalente I	COP <sub>d</sub> (Declared COP)	-	2,17	2,17	2,16
Supplementary capacity to $P_{design}$	$P_{sup}(@T_{designh}:-10^{\circ}C)$	kW	0,98	1,18	1,69

Cold weather (Design temperature	e=-22°C)	Unit	MAGISM4 EH3	MAGISM6 EH3	MAGISM8 EH3
	P <sub>rated</sub> (declared heating capacity) @ -22°C	kW	4,6	5,6	7,0
Space heating 35°C	Space heating seasonal energy efficiency $(\eta_s)$	%	159,5	165,3	170,0
	Annual power consumption	kWh	2769	3300	3976
	P <sub>rated</sub> (declared heating capacity) @ -22°C	kW	3,4	4,3	5,8
Space heating 55°C	Space heating seasonal energy efficiency $(\eta_s)$	%	102,1	111,1	112,0
	Annual power consumption	kWh	3159	3681	4950

Low temperature application cold weat	her space heating partial load conditions	Unit	MAGISM4 EH3	MAGISM6 EH3	MAGISM8 EH3
	P <sub>dh</sub> (Declared heating capacity)	kW	2,75	3,42	4,46
(A) Condition (-7°C)	COP <sub>d</sub> (Declared COP)	-	3,49	3,59	3,66
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	1,77	2,06	2,69
(B) Condition (2°C)	COP <sub>d</sub> (Declared COP)	-	4,95	5,21	5,20
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	1,17	1,46	1,65
(C) Condition (7°C)	COP <sub>d</sub> (Declared COP)	-	5,53	6,24	6,53
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	1,43	1,44	1,65
(D) Condition (12°C)	COP <sub>d</sub> (Declared COP)	-	7,67	7,66	7,96
	$m(-7^{\circ}C) = \frac{P_{dh}(Declared heating capacity)}{COP_{d}(Declared COP)}$ $C_{dh}(Degradation coefficient)$ $P_{dh}(Declared heating capacity)$ $COP_{d}(Declared COP)$ $C_{dh}(Degradation coefficient)$ $Tol(operation limit temperature)$ $P_{dh}(Declared heating capacity)$ $COP_{d}(Declared COP)$ $Tol(OP_{d}(Declared COP)$ $COP_{d}(Declared COP)$ $Tol(OP_{d}(Declared COP)$ $Tol(OP_{d}(Declared COP)$ $T_{blv}$ $P_{dh}(Declared heating capacity)$ $COP_{d}(Declared COP)$ $T_{blv}$ $P_{dh}(Declared heating capacity)$ $COP_{d}(Declared COP)$	-	0,9	0,9	0,9
	Tol (operation limit temperature)	°C	-22	-22	-22
(E) Tol (an excition limit terms excitance)	$P_{dh}$ (Declared heating capacity)	kW	2,8	3,48	4,06
(E) 101 (operation limit temperature)	COP <sub>d</sub> (Declared COP)	-	1,97	1,96	1,95
	W <sub>TOL</sub> (Water heating limit operation)	°C	65	65	65
	T <sub>blv</sub>	°C	-15	-15	-15
(F) T <sub>bivalente</sub> temperature	P <sub>dh</sub> (Declared heating capacity)	kW	3,72	4,59	5,69
	COP <sub>d</sub> (Declared COP)	-	2,57	2,53	2,83
Supplementary capacity to $P_{design}$	P <sub>sup</sub> (@T <sub>designh</sub> :-22°C)	kW	1,76	2,15	2,91

Medium temperature application cold conditions	weather space heating partial load	Unit	MAGISM4 EH3	MAGISM6 EH3	MAGISM8 EH3
	P <sub>dh</sub> (Declared heating capacity)	kW	2,13	2,70	3,86
(A) Condition (-7°C)	COP <sub>d</sub> (Declared COP)	-	2,32	2,46	2,48
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	EH3         EH3           2,13         2,70           2,32         2,46	2,21	
(B) Condition (2°C)	COP <sub>d</sub> (Declared COP)	-	2,99	3,36	3,35
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	1,01	1,02	1,44
(C) Condition (7°C)	COP <sub>d</sub> (Declared COP)	-	3,86	3,94	4,11
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	1,36	1,37	1,46
(D) Condition (12°C)	COP <sub>d</sub> (Declared COP)	-	6,28	6,35	5,92
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	Tol (operation limit temperature)	°C	-22	-22	-22
(T) T-1(	P <sub>dh</sub> (Declared heating capacity)	Unit         EH3         EH3           dheating capacity)         kW         2,13         2,70           ared COP)         -         2,32         2,46           ation coefficient)         -         0,9         0,9           dheating capacity)         kW         1,28         1,60           ared COP)         -         2,99         3,36           ation coefficient)         -         0,9         0,9           dheating capacity)         kW         1,01         1,02           ation coefficient)         -         0,9         0,9           dheating capacity)         kW         1,01         1,02           ation coefficient)         -         0,9         0,9           dheating capacity)         kW         1,36         1,37           ation coefficient)         -         0,9         0,9           officient)         -         0,9         0,9           on limit temperature)         °C         -22         -22           ored COP)         -         1,02         1,13           on limit temperature)         °C         65         65           °C         -15         -15         -15	2,09	2,8	
(E) Tol (operation limit temperature)	COP <sub>d</sub> (Declared COP)	-	1,02	1,13	1,22
	W <sub>TOL</sub> (Water heating limit operation)	°C	65	65	65
	T <sub>blv</sub>	°C	-15	-15	-15
(F) T <sub>bivalente</sub> temperature	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>	$P_{sup}(@T_{designh}:-22^{\circ}C)$	kW	1,72	2,17	2,97

Warm weather (Design temperatur	re=2°C)	Unit	MAGISM4 EH3	MAGISM6 EH3	MAGISM8 EH3
	P <sub>rated</sub> (declared heating capacity) @ -2°C	kW	5,5	6,1	8,1
Prated $P_{rated}$ (declared heating capacity) @ -2°Cpace heating 35°CSpace heating seasonal energy efficiency ( $\eta_s$ )Annual power consumptionPratedPrated(declared heating capacity) @ -2°CSpace heating seasonal energy efficiency ( $\eta_s$ )PratedSpace heating seasonal energy efficiency ( $\eta_s$ )		%	255,4	259,8	276,6
	kWh	1146	1244	1551	
	P <sub>rated</sub> (declared heating capacity) @ -2°C	kW	5,0	5,1	8,37
Spaceheating 55°C	1 0 07	%	162,4	164,7	176,9
	Annual power consumption	kWh	1621	1640	2485

Low temperature application warm we tions	ather space heating partial load condi-	Unit	MAGISM4 EH3	MAGISM6 EH3	MAGISM8 EH3
	P <sub>dh</sub> (Declared heating capacity)	kW	5,34	5,93	7,56
(B) Condition (2°C)	COP <sub>d</sub> (Declared COP)	-	3,94	3,91	3,98
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	3,56	3,93	5,22
(C) Condition (7°C)	COP <sub>d</sub> (Declared COP)	-	5,92	5,89	6,26
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	1,63	1,79	2,62
D) Condition (12°C)	COP <sub>d</sub> (Declared COP)	-	7,91	8,20	9,23
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9
	Tol (operation limit temperature)	°C	2	2	2
	$\begin{array}{c} & \overbrace{COP_{d}(Declared COP)} \\ \hline & \hline{CoP_{d}(Declared COP)} \\ \hline & \hline{C_{dh}(Degradation coefficient)} \\ \hline & P_{dh}(Declared heating capacity) \\ \hline & \hline{COP_{d}(Declared COP)} \\ \hline & \hline{C_{dh}(Degradation coefficient)} \\ \hline & \hline{COP_{d}(Declared heating capacity)} \\ \hline & \hline{COP_{d}(Declared COP)} \\ \hline & \hline{C_{dh}(Degradation coefficient)} \\ \hline & \hline{CoP_{d}(Declared COP)} \\ \hline & \hline{C_{dh}(Degradation coefficient)} \\ \hline & \hline{P_{dh}(Declared heating capacity)} \\ \hline & \hline{COP_{d}(Declared heating capacity)} \\ \hline & \hline{COP_{d}(Declared heating capacity)} \\ \hline & \hline{COP_{d}(Declared COP)} \\ \hline & \hline{W_{TOL}(Water heating limit operation)} \\ \hline & \hline{T_{blv}} \\ \hline & \hline{P_{dh}(Declared heating capacity)} \\ \hline & \hline{COP_{d}(Declared heating capacity)} \\ \hline \hline & \hline{COP_{d}(Declared heating capacity)} \\ \hline & \hline \hline \\ \hline & \hline \hline \\ \hline \hline \hline \hline \hline \hline \hline \hline \hline$	kW	5,34	5,93	7,56
(E) Tol (operation limit temperature)	COP <sub>d</sub> (Declared COP)	-	3,94	3,91	3,98
	W <sub>TOL</sub> (Water heating limit operation)	°C	65	65	65
	T <sub>blv</sub>	°C	7	7	7
(F) T <sub>bivalente</sub> temperature		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>	$P_{sup}(@T_{designh}:2^{\circ}C)$	kW	0,18	0,18	0,55

Medium temperature application conditions	warm weather space heating partial load	Unit	MAGISM4 EH3	MAGISM6 EH3	MAGISM8 EH3
	P <sub>dh</sub> (Declared heating capacity)	kW	4,83	5,02	7,55
(B) Condition (2°C)	COP <sub>d</sub> (Declared COP)	-	2,51	2,48	2,59
	C <sub>dh</sub> (Degradation coefficient)       P <sub>dh</sub> (Declared heating capacity)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	3,22	3,31	5,38
(C) Condition (7°C)	COP <sub>d</sub> (Declared COP)	-	3,68	3,67	4,01
	$C_{dh}$ (Degradation coefficient)	-	0,9	0,9	0,9
	P <sub>dh</sub> (Declared heating capacity)	kW	1,47	1,60	2,31
D) Condition (12°C) D) Condition (12°C) COP <sub>d</sub> (Declared heating capacity)	COP <sub>d</sub> (Declared COP)	-	5,15	5,29	5,55
	dition (7°C) COP <sub>d</sub> (Declared COP) C <sub>dh</sub> (Degradation coefficient) P <sub>dh</sub> (Declared heating capacity)	-	0,9	0,9	0,9

Medium temperature application warm conditions	n weather space heating partial load	Unit	MAGISM4 EH3	MAGISM6 EH3	MAGISM8 EH3
	Tol (operation limit temperature)	°C	2	2	2
(T) T-1(	$P_{n} (Declared heating capacity) kW 4,83 5,02 7,55$	7,55			
(E) Tol (operation limit temperature)	COP <sub>d</sub> (Declared COP)	-	2,51	2,48	2,59
	W <sub>TOL</sub> (Water heating limit operation)	°C	65	65	65
	T <sub>blv</sub>	°C	7	7	7
(F) T <sub>bivalente</sub> temperature	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

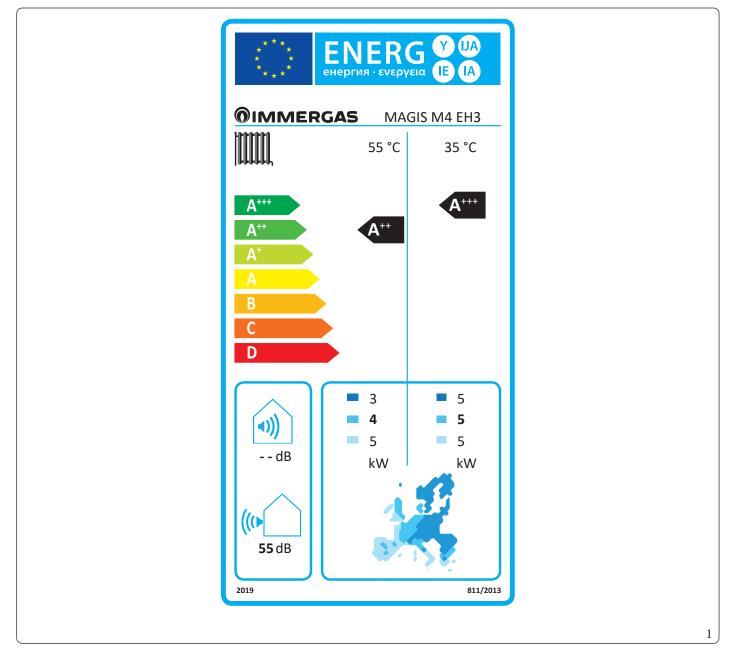
		Unit	MAGISM4 EH3	MAGISM6 EH3	MAGISM8 EH3
	Air-water heat pump	Y/N	SI	SI	SI
	Water-water heat pump	Y/N	NO	NO	NO
<b>Description of the product</b>	Brine to water heat pump	Y/N	NO	NO	NO
	Low temperature heat pump	Y/N	NO	NO	NO
	Equipped with additional heater	Y/N	SI	SI	SI
	Mixed central heating device with heat pump:	Y/N	NO	NO	NO
Air-water unit	Nominalairflow	m³/h	2770	2770	4030
Brine/water to water unit	Water/brine at nominal flow rate (H/E outdoor)		/	/	/

Space heating appliance with heat j	pump	Unit	MAGISM4 EH3	MAGISM6 EH3	MAGISM8 EH3
	Capacity control	-	VARIABLE	VARIABLE	VARIABLE
	P <sub>off</sub> (Power consumption OFF Mode)	kW	0,014	0,014	0,014
	$P_{to}$ (Power consumption with thermostat at OFF Mode)	kW	0,024	0,024	0,024
Other	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
	$Q_{elec}$ (Daily electricity consumption)	kWh	/	/	/
	Q <sub>fuel</sub> (Daily fuel consumption)	kWh	/	/	/

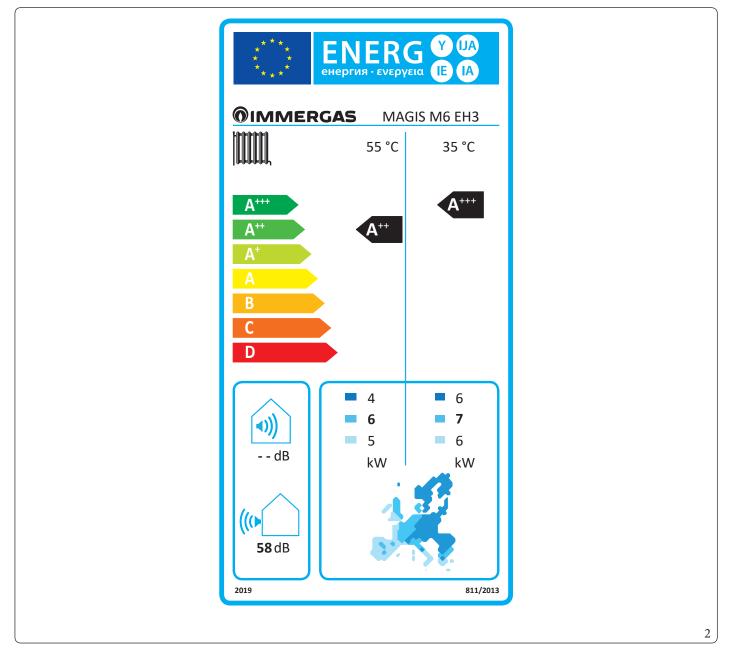
Details and precautions on installation, maintenance and assembly can be found in the use and installation manual. Data of the product data sheets according to the directive on energy labelling 2010/30/EC (EU) 811/2013.

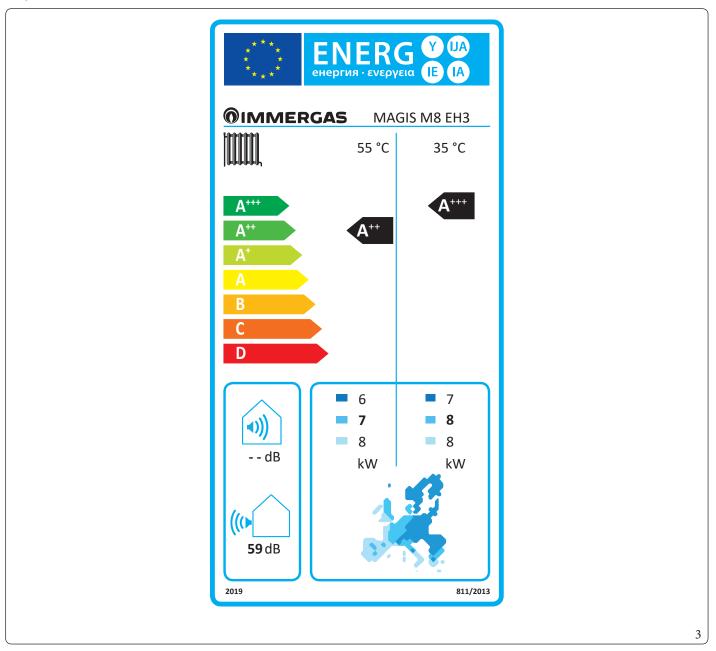
### 2.1 PRODUCT LABELS

#### Magis M4 EH3



### Magis M6 EH3





# TECHNICAL PARAMETERS

Model	MAGISM	14EH3					
Air/water heat pump			SI	Low temperature heat pump		-	NO
Water/water heat pump			NO	WithSupplementaryheater			SI
Brine/water heat pump			NO	Mixed central heating device with heat pump	p:		NO
Declared weather condition: MEDIUM							
The parameters are declared for the mediu	m temperatu	reapplica	ation.				
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit
Rated heat output (*)	P <sub>rated</sub>	4,4	kW	Room central heating seasonal energy efficiency	$\eta_s$	129,5	%
Central heating capacity declared for a part ture of 20°C and outdoor temperature Tj	ialload at in	doortemj	pera-	Central heating capacity declared for a partia ture of 20°C and outdoor temperature Tj	alloadatin	doortemj	pera-
$T_i = -7 ^{\circ}C$	Pdh	3,89	kW	$T_i = -7 °C$	COPd	2,17	-
$T_i = +2 °C$	Pdh	2,38	kW	$T_i = +2 °C$	COPd	3,30	-
$T_i = +7 °C$	Pdh	2,94	kW	$T_i = +7 °C$	COPd	4,41	-
T <sub>i</sub> =+12 °C	Pdh	1,32	kW	$T_{i} = + 12 ^{\circ}C$	COPd	5,66	-
T <sub>i</sub> = bivalent temperature	Pdh	3,89	kW	$T_i = bivalent temperature$	COPd	2,17	-
$T_i = operating limit temperature$	Pdh	3,42	kW	$T_i = operating limit temperature$	COPd	1,91	-
For air-water heat pumps: $Tj = -15^{\circ}C$	Pdh	-	kW	For air-water heat pumps: $Tj = -15^{\circ}C$	COPd	-	-
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 a	ctive mode			Additional heater	1000		
OFF mode	P <sub>OFF</sub>	0,014	kW	Rated heat output (*)	Psup	0,98	kW
StandbyMode	P <sub>TO</sub>	0,014	kW				
Thermostat OFF mode	P <sub>SB</sub>	0,024	kW	Type of energy supplied	e	electrical	
Crankcase heater mode electrical	Рск	0,000	kW				
Otheritems				• •			
Capacity control	V	ARIABLE	3	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			
Annual energy consumption	Q <sub>HE</sub>	2744	kWh	water or brine flow rate, heat exchanger outdoors	-	-	m³\ł
For mixed central heating appliances with	aheatpump						
Statedloadprofile		-		Water central heating energy efficiency	$\eta_{\rm wh}$	-	%
Daily electrical power consumption	Q <sub>elec</sub>	-	kWh	Dailyfuelconsumption	Q <sub>fuel</sub>	-	kWł
Annual electrical power consumption	AEC	-	kWh	Annualfuelconsumption	AFC	-	GJ
Contact information	Immerga	s S.p.A. vi	a Cisa Li	gure n.95			
	tofanadditi	onalheate	er P <sub>sup</sub> is e	ked with heat pump, the rated heat output $P_{rated}$ equal to the supplementary heating capacity sum that is $C_{dh} = 0.9$ .		the desigr	1 load

Iodel	MAGISM	14EH3		· · · · · · · · · · · · · · · · · · ·			
ir/water heat pump			SI	Low temperature heat pump			NO
Vater/water heat pump			NO	With Supplementary heater			SI
rine/waterheatpump			NO	Mixed central heating device with heat pump	p:		NO
eclared weather condition: COLD				·			
he parameters are declared for the medium	temperatu	reapplica	ation.				
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit
ated heat output (*)	P <sub>rated</sub>	3,4	kW	Room central heating seasonal energy efficiency	η	102,1	%
entral heating capacity declared for a partie	alloadatin	doortem	pera-	Central heating capacity declared for a partia	alloadatin	door tem <sub>j</sub>	pera-
rre of 20°C and outdoor temperature Tj	1	1		ture of 20°C and outdoor temperature Tj	1	1	
<sub>j</sub> =-7 °C	Pdh	2,13	kW	$T_j = -7 °C$	COPd	2,32	-
<sub>j</sub> =+2 °C	Pdh	1,28	kW	$T_j = +2 °C$	COPd	2,99	-
<sub>j</sub> =+7 °C	Pdh	1,01	kW	$T_j = +7 \text{ °C}$	COPd	3,86	-
<sub>j</sub> =+ 12 °C	Pdh	1,36	kW	$T_j = + 12 \text{ °C}$	COPd	6,28	-
= bivalent temperature	Pdh	2,74	kW	$T_{j} = bivalent temperature$	COPd	1,74	-
= operating limit temperature	Pdh	1,64	kW	$T_i = operating limit temperature$	COPd	1,02	-
or air-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-water heat pumps: Tj = -15°C	COPd	-	-
ivalent temperature	T <sub>biv</sub>	-15	°C	For air/water heat pumps: Operating limit temperature	TOL	-22	°C
apacity of the cycle range for central eating	P <sub>cych</sub>	-	kW	Efficiency of cycle range	COP <sub>cyc</sub>	-	-
egradation coefficient (**)	C <sub>dh</sub>	0,9	-	Heating water operation limit temperature	W <sub>tolp</sub>	65	°C
ower consumption in modes other than act	ive mode			Additionalheater			
FFmode	P <sub>OFF</sub>	0,014	kW	Rated heat output (*)	Psup	1,72	kW
tandby Mode	P <sub>TO</sub>	0,014	kW				
hermostat OFF mode	P <sub>SB</sub>	0,024	kW	Type of energy supplied	e	electrical	
rankcase heater mode electrical	Рск	0,000	kW				
theritems	OR			•			
apacity control	V	ARIABLE	E	For air-water heat pumps: Rated air flow rate outdoors	-	2770	m³\h
ndoor/outdoor sound level	L <sub>WA</sub>	-/-	dB	For water or brine-water heat pumps: Rated			
nnualenergyconsumption	Q <sub>HE</sub>	3159	kWh	water or brine flow rate, heat exchanger outdoors	-	-	m³\h
or mixed central heating appliances with a	neat pump						
tated load profile		-		Water central heating energy efficiency	$\eta_{wh}$	-	%
aily electrical power consumption	Q <sub>elec</sub>	_	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
nnual electrical power consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
ontactinformation	Immerga	sS.p.A.vi	a Cisa Li	gure n.95			
nnual electrical power consumption ontact information ) For heat pump appliances for space heatir	AEC Immergat og and heat of an additio	ing applia onal heate	kWh a Cisa Li inces mi er P <sub>sup</sub> is e	Annual fuel consumption gure n.95 xed with heat pump, the rated heat output P <sub>rated</sub> equal to the supplementary heating capacity su	AFC is equal to	the de	esigr

Model	MAGISM	14 EH 3					
Air/water heat pump			SI	Low temperature heat pump			NO
Water/water heat pump			NO	WithSupplementaryheater			SI
Brine/water heat pump			NO	Mixed central heating device with heat pump	p:		NO
Declared weather condition: WARM				•			
The parameters are declared for the mediu	m temperatu	reapplica	ation.				
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	162,4	%
Central heating capacity declared for a par	ialload at in	door tem <sub>j</sub>	pera-	Central heating capacity declared for a partia	alloadatin	doortem	pera-
ture of 20°C and outdoor temperature Tj				ture of 20°C and outdoor temperature Tj			
$T_j = -7 °C$	Pdh	-	kW	$T_i = -7 °C$	COPd	-	-
$T_j = +2 °C$	Pdh	4,83	kW	$T_j = +2 °C$	COPd	2,51	-
$T_{i} = +7 °C$	Pdh	3,22	kW	$T_i = +7 °C$	COPd	3,68	-
$T_{j} = + 12 \text{ °C}$	Pdh	1,47	kW	$T_i = +12 \text{ °C}$	COPd	5,15	-
T <sub>i</sub> =bivalent temperature	Pdh	3,22	kW	$T_i = bivalent temperature$	COPd	3,68	-
T <sub>i</sub> = operating limit temperature	Pdh	4,83	kW	T <sub>i</sub> = operating limit temperature	COPd	2,51	-
For air-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-water heat pumps: Tj = -15°C	COPd	-	-
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 a				Additional heater			
OFF mode	P <sub>OFF</sub>	0,014	kW	Rated heat output (*)	Psup	0,18	kW
StandbyMode	P <sub>TO</sub>	0,014	kW	-			
Thermostat OFF mode	P <sub>SB</sub>	0,024	kW	Type of energy supplied	e	electrical	
Crankcase heater mode electrical	P <sub>CK</sub>	0,000	kW				
Otheritems	- CR		1	•	1		
Capacity control	V	ARIABLI	E	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			
Annual energy consumption	Q <sub>HE</sub>	1621	kWh	water or brine flow rate, heat exchanger outdoors	-	-	m³∖h
For mixed central heating appliances with	aheatpump						
Stated load profile		-		Water central heating energy efficiency	$\eta_{\rm wh}$	-	%
Daily electrical power consumption	Q <sub>elec</sub>	-	kWh	Dailyfuelconsumption	Q <sub>fuel</sub>	-	kWh
Annual electrical power consumption	AEC	-	kWh	Annualfuelconsumption	AFC	-	GJ
Contact information	Immerga	sS.p.A.vi	a Cisa Li	gure n.95			
	tofanadditi	onalheate	er P <sub>sup</sub> is e	xed with heat pump, the rated heat output $P_{rated}$ equal to the supplementary heating capacity su ient is $C_{dh} = 0.9$ .		the desigr	nload

Model	MAGISM	16 EH 3		· · · · · · · · · · · · · · · · · · ·			
Air/water heat pump			SI	Low temperature heat pump			NO
Water/water heat pump			NO	With Supplementary heater			SI
Brine/waterheatpump			NO	Mixed central heating device with heat pump	p:		NO
Declared weather condition: MEDIUM							
The parameters are declared for the mediu	mtemperatu	reapplica	ation.				
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	137,9	%
Central heating capacity declared for a par ture of 20°C and outdoor temperature Tj	tialloadatin	door tem <sub>j</sub>	pera-	Central heating capacity declared for a partia ture of 20°C and outdoor temperature Tj	alload at in	door tem <sub>j</sub>	pera-
$T_i = -7 \text{ °C}$	Pdh	5,04	kW	$T_i = -7 \text{ °C}$	COPd	2,17	_
$T_i = +2 °C$	Pdh	3,12	kW	$T_j = +2 °C$	COPd	3,51	-
$T_j = +7 °C$	Pdh	2,08	kW	$T_j = +7 °C$	COPd	4,54	-
$T_{i} = + 7 C$ $T_{i} = + 12 °C$	Pdh	1,28	kW	$T_j = +7 C$ $T_j = +12 °C$	COPd	4,54 5,59	-
$T_i = + 12$ C $T_i = bivalent temperature$	Pdh	5,04	kW	$T_j = + 12$ C $T_j = bivalent temperature$	COPd	2,17	
$T_i = operating limit temperature$	Pdh	4,52	kW	$T_i = operating limit temperature$	COPd	1,91	-
For air-water heat pumps: $T_j = -15^{\circ}C$	Pdh	4,32	kW	For air-water heat pumps: $Tj = -15^{\circ}C$	COPd	1,91	-
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 a				Additional heater	1010		
OFF mode	P <sub>OFF</sub>	0,014	kW	Rated heat output (*)	Psup	1,18	kW
StandbyMode	P <sub>TO</sub>	0,014	kW	-			
ThermostatOFFmode	P <sub>SB</sub>	0,024	kW	Type of energy supplied	6	electrical	
Crankcase heater mode electrical	Рск	0,000	kW				
Otheritems	- OK			•			
Capacity control	V	ARIABLE	3	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			
Annual energy consumption	Q <sub>he</sub>	3345	kWh	water or brine flow rate, heat exchanger outdoors	-	-	m³\h
For mixed central heating appliances with	a heat pump			-			
Stated load profile		-		Water central heating energy efficiency	$\eta_{\rm wh}$	-	%
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	Immerga	sS.p.A.vi	a Cisa Li	gure n.95			
	t of an additi	onalheate	er P <sub>sup</sub> is e	xed with heat pump, the rated heat output $P_{rated}$ equal to the supplementary heating capacity su ient is $C_{dh} = 0.9$ .		the design	ıload

Model	MAGISM	16EH3							
Air/water heat pump			SI	Low temperature heat pump			NO		
Water/water heat pump			NO	WithSupplementaryheater			SI		
Brine/water heat pump			NO	Mixed central heating device with heat pump	Mixed central heating device with heat pump:				
Declared weather condition: COLD									
The parameters are declared for the mediu	m temperatu	reapplica	ation.						
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit		
Rated heat output (*)	P <sub>rated</sub>	4,3	kW	Room central heating seasonal energy efficiency	$\eta_s$	111,1	%		
Central heating capacity declared for a part	tialload at in	door tem <sub>j</sub>	pera-	Central heating capacity declared for a partia	alloadatin	doortemj	pera-		
ture of 20°C and outdoor temperature Tj				ture of 20°C and outdoor temperature Tj					
$T_j = -7 \text{ °C}$	Pdh	2,70	kW	T <sub>j</sub> =-7 °C	COPd	2,46	-		
$T_j = +2 °C$	Pdh	1,60	kW	$T_j = +2 °C$	COPd	3,36	-		
$T_j = +7 °C$	Pdh	1,02	kW	$T_j = +7 °C$	COPd	3,94	-		
$T_j = + 12 \text{ °C}$	Pdh	1,37	kW	$T_{j} = + 12 \text{ °C}$	COPd	6,35	-		
T <sub>j</sub> =bivalent temperature	Pdh	3,47	kW	$T_j = bivalent temperature$	COPd	1,86	-		
$T_j = operating limit temperature$	Pdh	2,09	kW	$T_j = operating limit temperature$	COPd	1,13	-		
For air-water heat pumps: $Tj = -15^{\circ}C$	Pdh	-	kW	For air-water heat pumps: Tj = -15°C	COPd	-	-		
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 a	ctive mode			Additional heater					
OFF mode	P <sub>OFF</sub>	0,014	kW	Rated heat output (*)	Psup	2,17	kW		
Standby Mode	P <sub>to</sub>	0,014	kW						
Thermostat OFF mode	P <sub>SB</sub>	0,024	kW	Typeofenergysupplied	e	lectrical			
Crankcase heater mode electrical	P <sub>CK</sub>	0,000	kW						
Otheritems									
Capacity control	V	ARIABLE	3	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					
Annual energy consumption	Q <sub>HE</sub>	3681	kWh	water or brine flow rate, heat exchanger outdoors	-	-	m³\h		
For mixed central heating appliances with	aheatpump								
Stated load profile		-		Water central heating energy efficiency	$\eta_{\rm wh}$	-	%		
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	Immerga	sSpA vi	a Cisa Li	guren 95					

(\*\*) If  $C_{dh}$  is not determined by measuring, the default degradation coefficient is  $C_{dh} = 0.9$ .

Model	MAGISM	16EH3							
Air/water heat pump			SI	Low temperature heat pump			NO		
Water/water heat pump			NO	With Supplementary heater			SI		
Brine/water heat pump			NO	Mixed central heating device with heat pump	Mixed central heating device with heat pump:				
Declared weather condition: WARM									
The parameters are declared for the mediu	m temperatu	reapplica	ation.						
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	164,7	%		
Central heating capacity declared for a part	ialloadatin	doortem	pera-	Central heating capacity declared for a partia	alloadatin	door tem <sub>j</sub>	pera-		
ture of 20°C and outdoor temperature Tj			<u>.</u>	ture of 20°C and outdoor temperature Tj					
$T_j = -7 °C$	Pdh	-	kW	$T_j = -7 °C$	COPd	-	-		
$T_j = +2 °C$	Pdh	5,02	kW	$T_j = +2 °C$	COPd	2,48	-		
$T_j = +7 °C$	Pdh	3,31	kW	$T_j = +7 °C$	COPd	3,67	-		
$T_j = +12 \text{ °C}$	Pdh	1,60	kW	$T_{i} = + 12 \ ^{\circ}C$	COPd	5,29	-		
$T_{j} = bivalent temperature$	Pdh	3,31	kW	$T_i = bivalent temperature$	COPd	3,67	-		
T <sub>i</sub> = operating limit temperature	Pdh	5,02	kW	$T_i = operating limit temperature$	COPd	2,48	-		
For air-water heat pumps: $Tj = -15^{\circ}C$	Pdh	-	kW	For air-water heat pumps: Tj = -15°C	COPd	-	-		
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 a				Additionalheater					
OFF mode	P <sub>OFF</sub>	0,014	kW	Rated heat output (*)	Psup	0,12	kW		
StandbyMode	P <sub>TO</sub>	0,014	kW						
ThermostatOFFmode	P <sub>SB</sub>	0,024	kW	Type of energy supplied	e	electrical			
Crankcase heater mode electrical	Р	0,000	kW						
Otheritems	CR	1		1	1				
Capacity control	V	ARIABLE	E	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					
Annual energy consumption	Q <sub>HE</sub>	1640	kWh	water or brine flow rate, heat exchanger outdoors	-	-	m³∖h		
For mixed central heating appliances with	a heat pump								
Stated load profile		-		Water central heating energy efficiency	$\eta_{wh}$	-	%		
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	Immerga	sS.p.A.vi	a Cisa Li	gure n.95					
	ing and heat t of an additi	ing applia onal heate	inces mi er P <sub>sup</sub> is e	xed with heat pump, the rated heat output P <sub>rated</sub> equal to the supplementary heating capacity su		the desigr	ıload		

Model	MAGISM	18 EH 3						
Air/water heat pump			SI	Low temperature heat pump			NO	
Water/water heat pump			NO	WithSupplementaryheater			SI	
Brine/water heat pump			NO	Mixed central heating device with heat pump:				
Declared weather condition: MEDIUM								
The parameters are declared for the medium	n temperatu	reapplica	ation.					
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit	
Rated heat output (*)	P <sub>rated</sub>	6,6	kW	Room central heating seasonal energy efficiency	$\eta_{s}$	131,5	%	
Central heating capacity declared for a part	ialload at in	door tem <sub>j</sub>	pera-	Central heating capacity declared for a partia	alloadatin	doortemj	pera-	
ture of 20°C and outdoor temperature Tj			1	ture of 20°C and outdoor temperature Tj				
$T_j = -7 °C$	Pdh	5,84	kW	$T_j = -7 \text{ °C}$	COPd	2,16	-	
$T_j = +2 °C$	Pdh	3,75	kW	$T_j = +2 °C$	COPd	3,30	-	
$T_j = +7 °C$	Pdh	2,42	kW	$T_j = +7 °C$	COPd	4,34	-	
$T_j = + 12 \text{ °C}$	Pdh	1,39	kW	$T_j = +12 \text{ °C}$	COPd	5,33	-	
$T_j = bivalent temperature$	Pdh	5,84	kW	$T_j = bivalent temperature$	COPd	2,16	-	
T <sub>i</sub> = operating limit temperature	Pdh	4,9	kW	$T_i = operating limit temperature$	COPd 1,84		-	
For air-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-water heat pumps: $Tj = -15^{\circ}C$	COPd	-	-	
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	$W_{\text{tolp}}$	65	°C	
Power consumption in modes other than ac	tive mode			Additional heater				
OFF mode	P <sub>OFF</sub>	0,014	kW	Rated heat output (*)	Psup	1,69	kW	
Standby Mode	P <sub>TO</sub>	0,014	kW					
Thermostat OFF mode	P <sub>SB</sub>	0,024	kW	Typeofenergysupplied	e	lectrical		
Crankcase heater mode electrical	Рск	0,000	kW					
Otheritems								
Capacity control	V	ARIABLE	Ξ	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				
Annual energy consumption	Q <sub>HE</sub>	4056	kWh	water or brine flow rate, heat exchanger outdoors	-	-	m³\h	
For mixed central heating appliances with a	heatpump							
Stated load profile		-		Water central heating energy efficiency	$\eta_{\rm wh}$	-	%	
Daily electrical power consumption	Q <sub>elec</sub>	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	kWh	
Annual electrical power consumption	AEC	-	kWh	Annualfuelconsumption	AFC	-	GJ	
Contact information	Immerga	sSpA vi	a Cisa Li	gure n.95				

(\*\*) If  $C_{dh}$  is not determined by measuring, the default degradation coefficient is  $C_{dh} = 0.9$ .

Model	MAGISM	18EH3		· · · · · · · · · · · · · · · · · · ·			
Air/water heat pump			SI	Low temperature heat pump			NO
Water/water heat pump			NO	With Supplementary heater			SI
Brine/water heat pump			NO	Mixed central heating device with heat pump:			
Declared weather condition: COLD				·			
The parameters are declared for the mediu	m temperatu	reapplica	ation.				
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	112,0	%
Central heating capacity declared for a par	tialloadatin	doortem	pera-	Central heating capacity declared for a partia	alloadatin	door tem <sub>j</sub>	pera-
ture of 20°C and outdoor temperature Tj		1		ture of 20°C and outdoor temperature Tj	1		
$T_j = -7 °C$	Pdh	3,86	kW	$T_j = -7 °C$	COPd	2,48	-
$T_j = +2 °C$	Pdh	2,21	kW	$T_j = +2 °C$	COPd	3,35	-
$T_j = +7 °C$	Pdh	1,44	kW	$T_i = +7 °C$	COPd	4,11	-
$T_j = +12 \text{ °C}$	Pdh	1,46	kW	$T_{i} = +12 \text{ °C}$	COPd	5,92	-
$T_i = bivalent temperature$	Pdh	4,71	kW	$T_i = bivalent temperature$	COPd	1,9	-
T <sub>i</sub> =operatinglimit temperature	Pdh	2,8	kW	$T_i = operating limit temperature$	COPd	1,22	-
For air-water heat pumps: $Tj = -15^{\circ}C$	Pdh	-	kW	For air-water heat pumps: Tj = -15°C	COPd	-	-
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 a	ctive mode			Additionalheater			
OFF mode	P <sub>OFF</sub>	0,014	kW	Rated heat output (*)	Psup	2,97	kW
StandbyMode	P <sub>TO</sub>	0,014	kW				
Thermostat OFF mode	P <sub>SB</sub>	0,024	kW	Type of energy supplied	e	electrical	
Crankcase heater mode electrical	P <sub>CK</sub>	0,000	kW				
Otheritems				•			
Capacity control	V	ARIABLE	3	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			
Annual energy consumption	Q <sub>HE</sub>	4950	kWh	water or brine flow rate, heat exchanger outdoors	-	-	m³∖h
$\operatorname{Formixed} \operatorname{central} \operatorname{heating} \operatorname{appliances} \operatorname{with}$	a heat pump						
Stated load profile		-		Water central heating energy efficiency	$\eta_{\rm wh}$	-	%
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	Immerga	sS.p.A.vi	a Cisa Li	gure n.95			
Contact information (*) For heat pump appliances for space heat	Immerga ing and heat t of an additi	ing applia onal heate	a Cisa Li .nces mi er P <sub>sup</sub> is e	gure n.95 xed with heat pump, the rated heat output P <sub>rated</sub> equal to the supplementary heating capacity su	isequalto	- the design	1lc

Model	MAGISM8EH3								
Air/water heat pump			SI	Low temperature heat pump			NO		
Water/water heat pump			NO	WithSupplementaryheater			SI		
Brine/water heat pump			NO	Mixed central heating device with heat pump:					
Declared weather condition: WARM									
The parameters are declared for the medium	n temperatu	reapplica	ation.						
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit		
Rated heat output (*)	P <sub>rated</sub>	8,37	kW	Room central heating seasonal energy efficiency	$\eta_{s}$	176,9	%		
Central heating capacity declared for a parti	alload at in	door tem <sub>j</sub>	pera-	Central heating capacity declared for a partia	alloadatin	doortemj	pera-		
ture of 20°C and outdoor temperature Tj	1	1	1	ture of 20°C and outdoor temperature Tj		1			
$T_j = -7 \text{ °C}$	Pdh	-	kW	$T_j = -7 \text{ °C}$	COPd	-	-		
$T_j = +2 °C$	Pdh	7,55	kW	$T_j = +2 \text{ °C}$	COPd	2,59	-		
$T_j = +7 °C$	Pdh	5,38	kW	$T_j = +7 °C$	COPd	4,01	-		
$T_j = + 12 \text{ °C}$	Pdh	2,31	kW	$T_j = +12 \text{ °C}$	COPd	5,55	-		
$T_j = bivalent temperature$	Pdh	5,38	kW	$T_j = bivalent temperature$	COPd	4,01	-		
$T_j = operating limit temperature$	Pdh	7,55	kW	$T_j = operating limit temperature$	COPd	2,59	-		
For air-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-water heat pumps: Tj = -15°C	COPd	-	-		
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 ac	ive mode			Additional heater					
OFF mode	P <sub>OFF</sub>	0,014	kW	Rated heat output (*)	Psup	0,82	kW		
StandbyMode	P <sub>TO</sub>	0,014	kW						
Thermostat OFF mode	P <sub>SB</sub>	0,024	kW	Typeofenergysupplied	e	lectrical			
Crankcase heater mode electrical	Р <sub>ск</sub>	0,000	kW						
Otheritems									
Capacity control	V	ARIABLE	Ξ	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					
Annual energy consumption	Q <sub>HE</sub>	2485	kWh	water or brine flow rate, heat exchanger outdoors	-	-	m³\h		
For mixed central heating appliances with a	heat pump								
Stated load profile		-		Water central heating energy efficiency	$\eta_{\rm wh}$	-	%		
Daily electrical power consumption	Q <sub>elec</sub>	-	kWh	Dailyfuelconsumption	Q <sub>fuel</sub>	-	kWh		
Annual electrical power consumption	AEC	-	kWh	Annualfuelconsumption	AFC	-	GJ		
Contact information	Immerga	sSpA vi	a Cisa Li	guren 95					

(\*\*) If  $C_{dh}$  is not determined by measuring, the default degradation coefficient is  $C_{dh} = 0.9$ .



### INFORMATION REQUIREMENTS FOR SPACE CHILLERS

Informationrequirementsforspacechillers												
Model				MAGIS M4EH3								
Heat exchanger:				Air-Water								
Туре:				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	$\eta_{s,c}$	196,2	%					
Cooling capacity declared for partial load at a Tj	a given outd	loortemp	erature	Cooling capacity declared for partial load at Tj	loor temp	erature						
$Tj = +35^{\circ}C$	P <sub>dc</sub>	4,70	kW	Tj=+35°C	EER <sub>d</sub>	3,45	-					
$Tj = +30^{\circ}C$	P <sub>dc</sub>	3,66	kW	Tj=+30°C	EER <sub>d</sub>	4,76	-					
$Tj = +25^{\circ}C$	P <sub>dc</sub>	2,21	kW	$Tj = +25^{\circ}C$	EER <sub>d</sub>	5,72	-					
$Tj = +20^{\circ}C$	P <sub>dc</sub>	0,94	kW	$Tj = +20^{\circ}C$	EER <sub>d</sub>	5,72	-					
Degradation coefficient for chillers (*)	C <sub>dc</sub>	0,9	-									
Power consumption in modes other than "a	active mod	e"										
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	StandbyMode	P <sub>SB</sub>	0,014	kW					
Otheritems												
Capacity control	VA	ARIABLE	1	For air-water emergency chillers: air flow		2770	m³\h					
Sound power level, indoors/outdoors	L <sub>WA</sub>	-\56	dB	rate, measured outdoors	-	2770						
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	-	_	m³\h					
GWP of refrigerant	_	675	kg CO <sub>2eq</sub>	heat exchanger								
Standard rating conditions used	Lowtemp	eratureaj	pplicatio	n								
Contactinformation	Immergas	sS.p.A.vi	a Cisa Liş	gure n.95								
(*) If C <sub>dc</sub> is not determined by measuring, the (**) Since September 26, 2018	standardd	egradatic	on coeffic	cient of chillers must be 0.9.								

Information requirements for space chillers												
Model				MAGIS M4EH3								
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	$\eta_{s,c}$	307,4	%					
Cooling capacity declared for partial load at Tj	a given outo	door temp	oerature	Cooling capacity declared for partial load at Tj	a given outo	loor temp	erature					
Tj=+35°C	P <sub>dc</sub>	4,50	kW	$Tj = +35^{\circ}C$	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	$Tj = +25^{\circ}C$	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 "a	1	e"			ŗ		<del>,</del>					
OFF mode	P <sub>OFF</sub>	0,014	kW	Crankcase heater mode electrical	Р <sub>ск</sub>	0,000	kW					
Thermostat OFF mode	P <sub>TO</sub>	0,010	kW	Standby Mode	P <sub>SB</sub>	0,014	kW					
Otheritems												
Capacity control	VA	ARIABLE	3	For air-water emergency chillers: air flow		2770	m³\h					
Sound power level, indoors/outdoors	L <sub>WA</sub>	-\56	dB	rate, measured outdoors		2770						
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	-	-	m³\h					
GWPofrefrigerant	-	675	kg CO <sub>2eq</sub>	heatexchanger								
Standard rating conditions used	Mediumt	emperatu	ireappli	cation								
Contact information	Immerga	s S.p.A. vi	a Cisa Li	gure n.95								
(*) If C <sub>dc</sub> is not determined by measuring, the (**) Since September 26, 2018	standard d	legradatio	on coeffic	cient of chillers must be 0.9.								

Information requirements for space chillers												
Model				MAGIS M6 EH3								
Heat exchanger:				Air-Water								
Туре:				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	$\eta_{s,c}$	209,5	%					
Cooling capacity declared for partial load at Tj	a given outo	loor temp	oerature	Cooling capacity declared for partial load at Tj	a given outo	loor temp	erature					
$Tj = +35^{\circ}C$	P <sub>dc</sub>	7,00	kW	$Tj = +35^{\circ}C$	EER <sub>d</sub>	3,00	-					
Tj=+30°C	P <sub>dc</sub>	5,13	kW	Tj=+30°C	EER <sub>d</sub>	4,00	-					
$Tj = +25^{\circ}C$	P <sub>dc</sub>	3,48	kW	$Tj = +25^{\circ}C$	EER <sub>d</sub>	6,45	-					
Tj=+20°C	P <sub>dc</sub>	1,53	kW	Tj=+20°C	EER <sub>d</sub>	7,73	-					
Degradation coefficient for chillers (*)	C <sub>dc</sub>	0,9	-									
Power consumption in modes other than "			1 7.17				1					
OFF mode	P <sub>OFF</sub>	0,014	kW	Crankcase heater mode electrical	Р <sub>ск</sub>	0,000	kW					
Thermostat OFF mode	P <sub>to</sub>	0,010	kW	StandbyMode	P <sub>SB</sub>	0,014	kW					
Otheritems	1						. <u> </u>					
Capacity control		ARIABLE	1	For air-water emergency chillers: air flow	-	2770	m³∖h					
Sound power level, indoors/outdoors	L <sub>WA</sub>	-\60	dB	rate, measured outdoors			<u> </u>					
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	-	-	m³\h					
GWP of refrigerant	-	675	kg CO <sub>2eq</sub>	heatexchanger								
Standard rating conditions used	Lowtemp	eratureaj	pplicatio	n								
Contact information	Immerga	sS.p.A.vi	a Cisa Liş	gure n.95								
(*) If C <sub>dc</sub> is not determined by measuring, the (**) Since September 26, 2018	standard d	egradatio	on coeffic	cient of chillers must be 0.9.								

Information requirements for space chillers												
Model			MAGIS M6 EH3									
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	$\eta_{s,c}$	325,9	%					
Cooling capacity declared for partial load at Tj	a given outo	loor temp	oerature	Cooling capacity declared for partial load at Tj	a given outo	loor temp	erature					
$Tj = +35^{\circ}C$	P <sub>dc</sub>	6,50	kW	$Tj = +35^{\circ}C$	EER <sub>d</sub>	4,80	-					
Tj=+30°C	P <sub>dc</sub>	4,84	kW	Tj=+30°C	EER	7,16	-					
Tj=+25°C	P <sub>dc</sub>	3,26	kW	$Tj = +25^{\circ}C$	EER <sub>d</sub>	9,64	-					
Tj=+20°C	P <sub>dc</sub>	1,41	kW	Tj = +20°C	EER <sub>d</sub>	11,48	-					
Degradation coefficient for chillers (*)	C <sub>dc</sub>	0,9	-									
Power consumption in modes other than "a	active mod	e"										
OFF mode	P <sub>OFF</sub>	0,014	kW	Crankcase heater mode electrical	Р <sub>ск</sub>	0,000	kW					
Thermostat OFF mode	P <sub>to</sub>	0,010	kW	Standby Mode	P <sub>SB</sub>	0,014	kW					
Otheritems												
Capacity control	VA	ARIABLE	3	For air-water emergency chillers: air flow		2770	m³\h					
Sound power level, indoors/outdoors	L <sub>WA</sub>	-\58	dB	rate, measured outdoors	-	2770	m <sup>*</sup> /m					
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	-	-	m³\h					
GWP of refrigerant	-	675	kg CO <sub>2eq</sub>	heat exchanger								
Standard rating conditions used	Mediumt	emperatu	ireappli	cation								
Contact information	Immergas	s S.p.A. vi	a Cisa Li	gure n.95								
(*) If $C_{dc}$ is not determined by measuring, the (**) Since September 26, 2018	standard d	egradatio	on coeffic	cient of chillers must be 0.9.								

Information requirements for space chillers												
Model				MAGIS M8 EH3								
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 Tj	a given outo	loortemp	perature	Cooling capacity declared for partial load at Tj	a given outo	loor temp	erature					
Tj=+35°C	P <sub>dc</sub>	7,45	kW	$Tj = +35^{\circ}C$	EER <sub>d</sub>	3,35	-					
$Tj = +30^{\circ}C$	P <sub>dc</sub>	5,72	kW	$Tj = +30^{\circ}C$	EER <sub>d</sub>	4,71	-					
$Tj = +25^{\circ}C$	P <sub>dc</sub>	3,62	kW	$Tj = +25^{\circ}C$	EER <sub>d</sub>	6,65	-					
Tj=+20°C	P <sub>dc</sub>	1,64	kW	Tj=+20°C	EER <sub>d</sub>	8,55	-					
Degradation coefficient for chillers (*)	C <sub>dc</sub>	0,9	-									
Power consumption in modes other than "a	active mod	e"										
OFF mode	P <sub>OFF</sub>	0,014	kW	Crankcase heater mode electrical	Р <sub>ск</sub>	0,000	kW					
Thermostat OFF mode	P <sub>TO</sub>	0,010	kW	Standby Mode	P <sub>SB</sub>	0,014	kW					
Otheritems												
Capacity control	VA	ARIABLE	3	For air-water emergency chillers: air flow		4030	m³\h					
Sound power level, indoors/outdoors	L <sub>WA</sub>	-\60	dB	rate, measured outdoors	-	4050	m-\n					
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	-	_	m³\h					
GWP of refrigerant	-	675	kg CO <sub>2eq</sub>	heatexchanger								
Standard rating conditions used	Lowtemp	eraturea	pplicatio	n								
Contact information	Immergas	sS.p.A.vi	a Cisa Lig	gure n.95								
(*) If C <sub>dc</sub> is not determined by measuring, the (**) Since September 26, 2018	standard d	egradatio	on coeffic	cient of chillers must be 0.9.								

Information requirements for space chillers											
Model				MAGIS M8 EH3							
Heat exchanger:				Air-Water							
Туре:				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	$\eta_{s,c}$	354,7	%				
Cooling capacity declared for partial load at Tj	a given outo	doortemp	oerature	Cooling capacity declared for partial load at Tj	a given outo	loortemp	eratur				
Tj = +35°C	P <sub>dc</sub>	8,30	kW	$Tj = +35^{\circ}C$	EER <sub>d</sub>	5,05	-				
Tj=+30°C	P <sub>dc</sub>	6,47	kW	Tj=+30°C	EER	7,02	-				
Tj=+25°C	P <sub>dc</sub>	4,31	kW	$Tj = +25^{\circ}C$	EER	10,67	-				
Tj=+20°C	P <sub>dc</sub>	1,80	kW	Tj=+20°C	EER <sub>d</sub>	13,61	-				
Degradation coefficient for chillers (*)	C <sub>dc</sub>	0,9	-								
Power consumption in modes other than "a			1				<del></del>				
OFF mode	P <sub>OFF</sub>	0,014	kW	Crankcase heater mode electrical	Р <sub>ск</sub>	0,000	kW				
Thermostat OFF mode	P <sub>TO</sub>	0,010	kW	Standby Mode	P <sub>SB</sub>	0,014	kW				
Otheritems											
Capacity control	VA	ARIABLE	3	For air-water emergency chillers: air flow		4030	m³\h				
Sound power level, indoors/outdoors	L <sub>WA</sub>	-\60	dB	rate, measured outdoors		4050	111 \11				
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>	neatexchanger							
Standard rating conditions used	Mediumt	emperatu	ireappli	cation							
Contact information	Immergas	s S.p.A. vi	a Cisa Li	gure n.95							
(*) If $C_{dc}$ is not determined by measuring, the (**) Since September 26, 2018	standard d	egradatio	on coeffic	cient of chillers must be 0.9.							



### TECHNICAL DATA TABLE ON ENVIRONMENTAL CONDITIONS

Conditions (°C)		MAGISM4EH3	MAGISM6EH3	MAGISM8EH3
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	7,10
	Absorbed power (kW)	1,10	1,41	1,73
	EER/COP(/)	4,00	3,90	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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