

IMMERGAS  
SERIES

Instructions and recommendations

IE

\*L047664ENG\*



 **IMMERGAS**

# MAGIS M18 - 22 - 26 - 30

Block heat pumps  
Three-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.



## 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)

# 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
MAGISM18T	A++	71,0	17,7	125,0	11375
MAGISM22T	A++	73,0	22,4	126,0	14390
MAGISM26T	A+	75,0	26,1	123,0	17204
MAGISM30T	A+	77,0	29,7	123,0	19316

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
MAGISM18T	A++	71,0	18,4	97,0	18156
MAGISM22T	A++	73,0	22,4	102,0	21067
MAGISM26T	A+	75,0	26,3	101,0	24967
MAGISM30T	A+	77,0	30,4	100,0	29238

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
MAGISM18T	A++	71,0	18,1	157,0	6041
MAGISM22T	A++	73,0	22,0	161,0	7180
MAGISM26T	A+	75,0	26,2	168,0	8218
MAGISM30T	A+	77,0	29,7	163,0	9580

## 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
MAGISM18T	A+++	71,0	18,0	181,0	8086
MAGISM22T	A+++	73,0	22,0	178,0	10180
MAGISM26T	A+++	75,0	25,0	177,0	11489
MAGISM30T	A++	77,0	29,0	165,0	14165

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
MAGISM18T	A+++	71,0	18,0	146,0	11740
MAGISM22T	A+++	73,0	21,0	146,0	14179
MAGISM26T	A+++	75,0	26,0	143,0	17421
MAGISM30T	A++	77,0	29,0	138,0	20390

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
MAGISM18T	A+++	71,0	18,0	226,0	4116
MAGISM22T	A+++	73,0	22,0	234,0	4945
MAGISM26T	A+++	75,0	26,0	231,0	5959
MAGISM30T	A++	77,0	30,0	213,0	7540

## 2 PRODUCT DATA SHEET

Space heating appliance with heat pump		Unit	MAGISM18 T	MAGIS M22 T	MAGIS M26 T	MAGIS M30 T
Sound power of unit	Low temperature medium weather application	dB	71,0	73,0	75,0	77,0
	Medium weather temperature application	dB	71,0	73,0	75,0	77,0
Space heating	Energy efficiency class 35°C (low temperature application)	-	A+++	A+++	A+++	A++
Space heating	Energy efficiency class 55°C (medium temperature application)	-	A++	A++	A+	A+

Medium weather (design temperature = -10°C)		Unit	MAGISM18 T	MAGIS M22 T	MAGIS M26 T	MAGIS M30 T
Space heating 35°C	P <sub>rated</sub> (declared heating capacity) @ -10°C	kW	18,0	22,0	25,0	29,0
	Space heating seasonal energy efficiency (η <sub>s</sub> )	%	181,0	178,0	177,0	165,0
	Annual power consumption	kWh	8086	10180	11489	14165
Space heating 55°C	P <sub>rated</sub> (declared heating capacity) @ -10°C	kW	17,7	22,4	26,1	29,7
	Space heating seasonal energy efficiency (η <sub>s</sub> )	%	125,0	126,0	123,0	123,0
	Annual power consumption	kWh	11375	14390	17204	19316

Low temperature application medium weather space heating partial load conditions		Unit	MAGISM18 T	MAGIS M22 T	MAGIS M26 T	MAGIS M30 T
(A) Condition (-7°C)	P <sub>dh</sub> (Declared heating capacity)	kW	15,91	19,73	22,15	21,95
	COP <sub>d</sub> (Declared COP)	-	2,85	2,74	2,56	2,53
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(B) Condition (2°C)	P <sub>dh</sub> (Declared heating capacity)	kW	9,67	12,04	13,78	16,22
	COP <sub>d</sub> (Declared COP)	-	4,57	4,40	4,41	4,12
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(C) Condition (7°C)	P <sub>dh</sub> (Declared heating capacity)	kW	6,57	8,02	9,38	10,69
	COP <sub>d</sub> (Declared COP)	-	5,95	6,24	6,43	6,21
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(D) Condition (12°C)	P <sub>dh</sub> (Declared heating capacity)	kW	3,77	3,81	4,11	4,59
	COP <sub>d</sub> (Declared COP)	-	6,97	7,00	7,08	7,14
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9

Low temperature application medium weather space heating partial load conditions		Unit	MAGISM18 T	MAGIS M22 T	MAGIS M26 T	MAGIS M30 T
(E) Tol (operation limit temperature)	Tol (operation limit temperature)	°C	-10	-10	-10	-10
	P <sub>dh</sub> (Declared heating capacity)	kW	18,14	20,34	20,36	20,43
	COP <sub>d</sub> (Declared COP)	-	2,49	2,35	2,34	2,34
	W <sub>TOL</sub> (Water heating limit operation)	°C	60	60	60	60
(F) T <sub>bivalente</sub> temperature	T <sub>blv</sub>	°C	-7	-7	-7	-5
	P <sub>dh</sub> (Declared heating capacity)	kW	15,91	19,73	22,15	23,57
	COP <sub>d</sub> (Declared COP)	-	2,85	2,74	2,56	2,7
Supplementary capacity to P <sub>design</sub>	P <sub>sup</sub> (@T <sub>designh</sub> : -10°C)	kW	0,0	1,97	4,68	8,75

Medium temperature application average weather temperature space heating partial load conditions		Unit	MAGISM18 T	MAGIS M22 T	MAGIS M26 T	MAGIS M30 T
(A) Condition (-7°C)	P <sub>dh</sub> (Declared heating capacity)	kW	15,6	19,8	20,6	20,1
	COP <sub>d</sub> (Declared COP)	-	1,72	1,74	1,69	1,63
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(B) Condition (2°C)	P <sub>dh</sub> (Declared heating capacity)	kW	9,60	11,90	14,30	16,50
	COP <sub>d</sub> (Declared COP)	-	3,30	3,30	3,11	3,09
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(C) Condition (7°C)	P <sub>dh</sub> (Declared heating capacity)	kW	6,40	8,00	9,30	10,50
	COP <sub>d</sub> (Declared COP)	-	4,41	4,62	4,72	4,73
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(D) Condition (12°C)	P <sub>dh</sub> (Declared heating capacity)	kW	3,60	3,60	3,90	4,70
	COP <sub>d</sub> (Declared COP)	-	5,09	5,20	5,41	5,85
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(E) Tol (operation limit temperature)	Tol (operation limit temperature)	°C	-10	-10	-10	-10
	P <sub>dh</sub> (Declared heating capacity)	kW	15,0	13,8	13,8	13,8
	COP <sub>d</sub> (Declared COP)	-	1,17	1,08	1,08	1,07
	W <sub>TOL</sub> (Water heating limit operation)	°C	60	60	60	60
(F) T <sub>bivalente</sub> temperature	T <sub>blv</sub>	°C	-7	-7	-6	-5
	P <sub>dh</sub> (Declared heating capacity)	kW	15,6	19,8	22,1	24,0
	COP <sub>d</sub> (Declared COP)	-	1,72	1,74	1,88	2,02
Supplementary capacity to P <sub>design</sub>	P <sub>sup</sub> (@T <sub>designh</sub> : -10°C)	kW	2,64	8,6	12,28	15,86



Cold weather (Design temperature = -22°C)		Unit	MAGISM18 T	MAGIS M22 T	MAGIS M26 T	MAGIS M30 T
Space heating 35°C	$P_{\text{rated}}$ (declared heating capacity) @ -22°C	kW	18,0	21,0	26,0	29,0
	Space heating seasonal energy efficiency ( $\eta_s$ )	%	146,0	146,0	143,0	138,0
	Annual power consumption	kWh	11740	14179	17421	20390
Space heating 55°C	$P_{\text{rated}}$ (declared heating capacity) @ -22°C	kW	18,4	22,4	26,3	30,4
	Space heating seasonal energy efficiency ( $\eta_s$ )	%	97,0	102,0	101,0	100,0
	Annual power consumption	kWh	18156	21067	24967	29238

Low temperature application cold weather space heating partial load conditions		Unit	MAGISM18 T	MAGIS M22 T	MAGIS M26 T	MAGIS M30 T
Condition (-15°C)	$P_{\text{dh}}$ (Declared heating capacity)	kW	14,49	17,46	18,95	18,61
	$\text{COP}_d$ (Declared COP)	-	2,42	2,36	2,27	2,24
	$C_{\text{dh}}$ (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(A) Condition (-7°C)	$P_{\text{dh}}$ (Declared heating capacity)	kW	11,21	13,3	15,91	18,49
	$\text{COP}_d$ (Declared COP)	-	3,09	3,12	3,10	3,07
	$C_{\text{dh}}$ (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(B) Condition (2°C)	$P_{\text{dh}}$ (Declared heating capacity)	kW	6,64	8,25	10,1	11,88
	$\text{COP}_d$ (Declared COP)	-	4,50	4,42	4,45	4,42
	$C_{\text{dh}}$ (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(C) Condition (7°C)	$P_{\text{dh}}$ (Declared heating capacity)	kW	4,77	5,45	6,3	7,53
	$\text{COP}_d$ (Declared COP)	-	5,85	5,87	6,06	6,15
	$C_{\text{dh}}$ (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(D) Condition (12°C)	$P_{\text{dh}}$ (Declared heating capacity)	kW	3,95	3,98	4,03	4,11
	$\text{COP}_d$ (Declared COP)	-	7,18	7,19	7,13	6,87
	$C_{\text{dh}}$ (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(E) Tol (operation limit temperature)	Tol (operation limit temperature)	°C	-22	-22	-22	-22
	$P_{\text{dh}}$ (Declared heating capacity)	kW	13,14	13,27	13,07	13,17
	$\text{COP}_d$ (Declared COP)	-	1,67	1,69	1,67	1,67
	$W_{\text{TOL}}$ (Water heating limit operation)	°C	37	37	37	37

Low temperature application cold weather space heating partial load conditions		Unit	MAGISM18 T	MAGIS M22 T	MAGIS M26 T	MAGIS M30 T
(F) T <sub>bivalente</sub> temperature	T <sub>blv</sub>	°C	-15	-15	-12	-10
	P <sub>dh</sub> (Declared heating capacity)	kW	14,49	17,46	18,97	19,93
	COP <sub>d</sub> (Declared COP)	-	2,42	2,36	2,36	2,44
Supplementary capacity to P <sub>design</sub>	P <sub>sup</sub> (@T <sub>designh</sub> : -22°C)	kW	4,62	8,13	12,68	15,96

Medium temperature application cold weather space heating partial load conditions		Unit	MAGISM18 T	MAGIS M22 T	MAGIS M26 T	MAGIS M30 T
Condition (-15°C)	P <sub>dh</sub> (Declared heating capacity)	kW	13,6	13,8	13,4	13,1
	COP <sub>d</sub> (Declared COP)	-	1,21	1,24	1,2	1,18
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(A) Condition (-7°C)	P <sub>dh</sub> (Declared heating capacity)	kW	11,10	13,50	15,90	18,40
	COP <sub>d</sub> (Declared COP)	-	1,98	2,07	2,10	2,10
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(B) Condition (2°C)	P <sub>dh</sub> (Declared heating capacity)	kW	6,70	8,60	10,20	11,20
	COP <sub>d</sub> (Declared COP)	-	3,44	3,70	3,58	3,51
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(C) Condition (7°C)	P <sub>dh</sub> (Declared heating capacity)	kW	4,70	5,20	6,50	7,40
	COP <sub>d</sub> (Declared COP)	-	4,35	4,49	4,99	5,18
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(D) Condition (12°C)	P <sub>dh</sub> (Declared heating capacity)	kW	3,70	3,70	3,60	3,60
	COP <sub>d</sub> (Declared COP)	-	5,68	5,76	5,68	5,73
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(E) Tol (operation limit temperature)	Tol (operation limit temperature)	°C	-15	-15	-15	-15
	P <sub>dh</sub> (Declared heating capacity)	kW	13,6	13,8	13,4	13,1
	COP <sub>d</sub> (Declared COP)	-	1,21	1,24	1,2	1,18
	W <sub>TOL</sub> (Water heating limit operation)	°C	50	50	50	50
(F) T <sub>bivalente</sub> temperature	T <sub>blv</sub>	°C	-7	-7	-7	-7
	P <sub>dh</sub> (Declared heating capacity)	kW	11,1	13,5	15,9	18,4
	COP <sub>d</sub> (Declared COP)	-	1,98	2,07	2,1	2,1
Supplementary capacity to P <sub>design</sub>	P <sub>sup</sub> (@T <sub>designh</sub> : -22°C)	kW	18,38	22,36	26,27	30,41

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

Warm weather (Design temperature = 2°C)		Unit	MAGISM18 T	MAGIS M22 T	MAGIS M26 T	MAGIS M30 T
Space heating 35°C	$P_{rated}$ (declared heating capacity) @ -2°C	kW	18,0	22,0	26,0	30,0
	Space heating seasonal energy efficiency ( $\eta_s$ )	%	226,0	234,0	231,0	213,0
	Annual power consumption	kWh	4116	4945	5959	7540
Space heating 55°C	$P_{rated}$ (declared heating capacity) @ -2°C	kW	18,1	22,0	26,2	29,7
	Space heating seasonal energy efficiency ( $\eta_s$ )	%	157,0	161,0	168,0	163,0
	Annual power consumption	kWh	6041	7180	8218	9580

Low temperature application warm weather space heating partial load conditions		Unit	MAGISM18 T	MAGIS M22 T	MAGIS M26 T	MAGIS M30 T
(B) Condition (2°C)	$P_{dh}$ (Declared heating capacity)	kW	17,84	21,81	25,5	26,29
	$COP_d$ (Declared COP)	-	3,53	3,31	3,00	2,94
	$C_{dh}$ (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(C) Condition (7°C)	$P_{dh}$ (Declared heating capacity)	kW	11,36	14,08	16,77	19,57
	$COP_d$ (Declared COP)	-	5,16	5,20	5,02	4,75
	$C_{dh}$ (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(D) Condition (12°C)	$P_{dh}$ (Declared heating capacity)	kW	5,45	6,44	7,65	8,9
	$COP_d$ (Declared COP)	-	7,01	7,50	7,78	7,53
	$C_{dh}$ (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(E) Tol (operation limit temperature)	Tol (operation limit temperature)	°C	2	2	2	2
	$P_{dh}$ (Declared heating capacity)	kW	17,84	21,81	25,5	26,29
	$COP_d$ (Declared COP)	-	3,53	3,31	3,0	2,94
	$W_{TOL}$ (Water heating limit operation)	°C	60	60	60	60

Low temperature application warm weather space heating partial load conditions		Unit	MAGISM18 T	MAGIS M22 T	MAGIS M26 T	MAGIS M30 T
(F) T <sub>bivalente</sub> temperature	T <sub>blv</sub>	°C	7	7	7	7
	P <sub>dh</sub> (Declared heating capacity)	kW	11,36	14,08	16,77	19,57
	COP <sub>d</sub> (Declared COP)	-	5,16	5,2	5,02	4,75
Supplementary capacity to P <sub>design</sub>	P <sub>sup</sub> (@T <sub>designh</sub> : 2°C)	kW	0,00	0,09	0,58	4,15

Medium temperature application warm weather space heating partial load conditions		Unit	MAGISM18 T	MAGIS M22 T	MAGIS M26 T	MAGIS M30 T
(B) Condition (2°C)	P <sub>dh</sub> (Declared heating capacity)	kW	18,40	22,10	26,50	26,40
	COP <sub>d</sub> (Declared COP)	-	2,12	2,12	1,99	1,99
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(C) Condition (7°C)	P <sub>dh</sub> (Declared heating capacity)	kW	11,60	14,10	16,90	19,10
	COP <sub>d</sub> (Declared COP)	-	3,49	3,50	3,47	3,37
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(D) Condition (12°C)	P <sub>dh</sub> (Declared heating capacity)	kW	5,40	6,40	7,60	8,90
	COP <sub>d</sub> (Declared COP)	-	5,09	5,34	5,94	6,09
	C <sub>dh</sub> (Degradation coefficient)	-	0,9	0,9	0,9	0,9
(E) Tol (operation limit temperature)	Tol (operation limit temperature)	°C	2	2	2	2
	P <sub>dh</sub> (Declared heating capacity)	kW	18,40	22,10	26,50	26,40
	COP <sub>d</sub> (Declared COP)	-	2,12	2,12	1,99	1,99
	W <sub>TOL</sub> (Water heating limit operation)	°C	60	60	60	60
(F) T <sub>bivalente</sub> temperature	T <sub>blv</sub>	°C	7	7	7	7
	P <sub>dh</sub> (Declared heating capacity)	kW	11,6	14,1	16,9	19,1
	COP <sub>d</sub> (Declared COP)	-	3,49	3,5	3,47	3,37
Supplementary capacity to P <sub>design</sub>	P <sub>sup</sub> (@T <sub>designh</sub> : 2°C)	kW	0,00	0,00	0,00	3,32

		Unit	MAGIS M18 T	MAGIS M22 T	MAGIS M26 T	MAGIS M30 T
Description of the product	Air-water heat pump	Y/N	yes	yes	yes	yes
	Water-water heat pump	Y/N	no	no	no	no
	Brine to water heat pump	Y/N	no	no	no	no
	Low temperature heat pump	Y/N	no	no	no	no
	Equipped with additional heater	Y/N	no	no	no	no
	Mixed central heating device with heat pump:	Y/N	no	no	no	no
Air-water unit	Nominal air flow	m <sup>3</sup> /h	10650	10650	11200	11200
Brine/water to water unit	Water/brine at nominal flow rate (H/E outdoor)		/	/	/	/

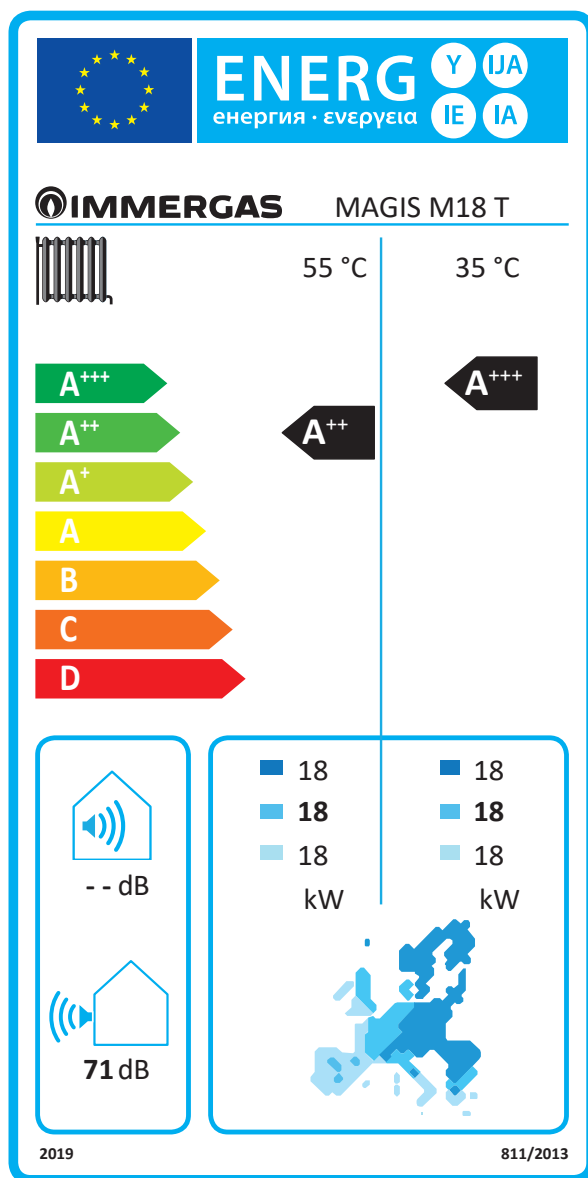
Space heating appliance with heat pump		Unit	MAGIS M18 T	MAGIS M22 T	MAGIS M26 T	MAGIS M30 T
Other	Capacity control	-	VARIABLE	VARIABLE	VARIABLE	VARIABLE
	P <sub>off</sub> (Power consumption OFF Mode)	kW	0,018	0,018	0,018	0,018
	P <sub>to</sub> (Power consumption with thermostat at OFF Mode)	kW	0,096	0,096	0,096	0,096
	P <sub>sb</sub> (Power consumption in Standby Mode)	kW	0,018	0,018	0,018	0,018
	P <sub>CK</sub> (Electric crankcase heater model)	kW	0,000	0,000	0,000	0,000
	Q <sub>elec</sub> (Daily electricity consumption)	kWh	/	/	/	/
	Q <sub>fuel</sub> (Daily fuel consumption)	kWh	/	/	/	/

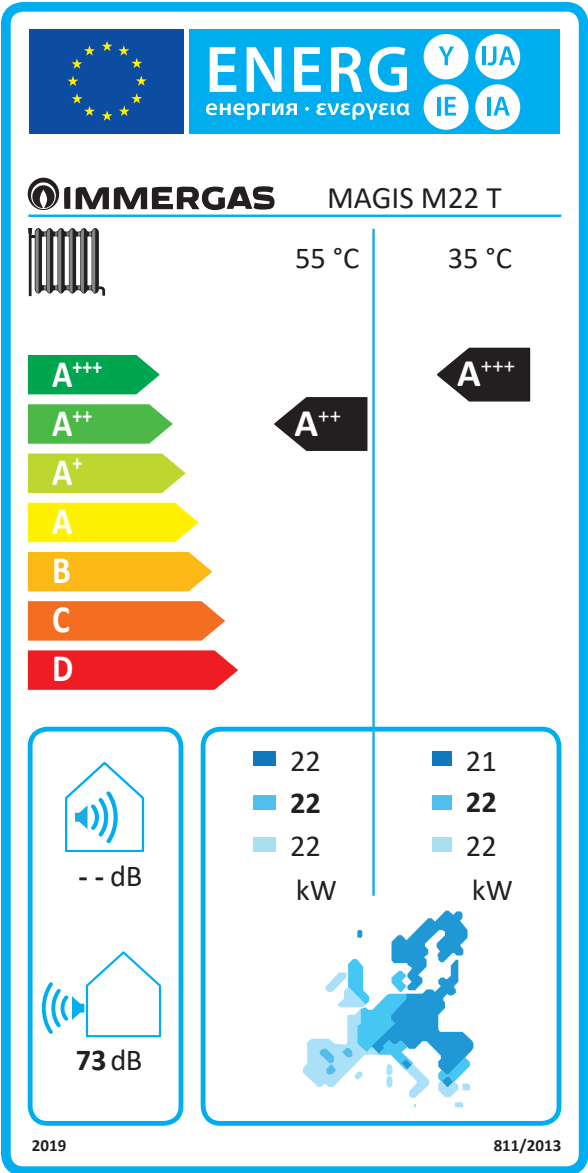
Details and precautions on installation, maintenance and assembly can be found in the use and installation manual.

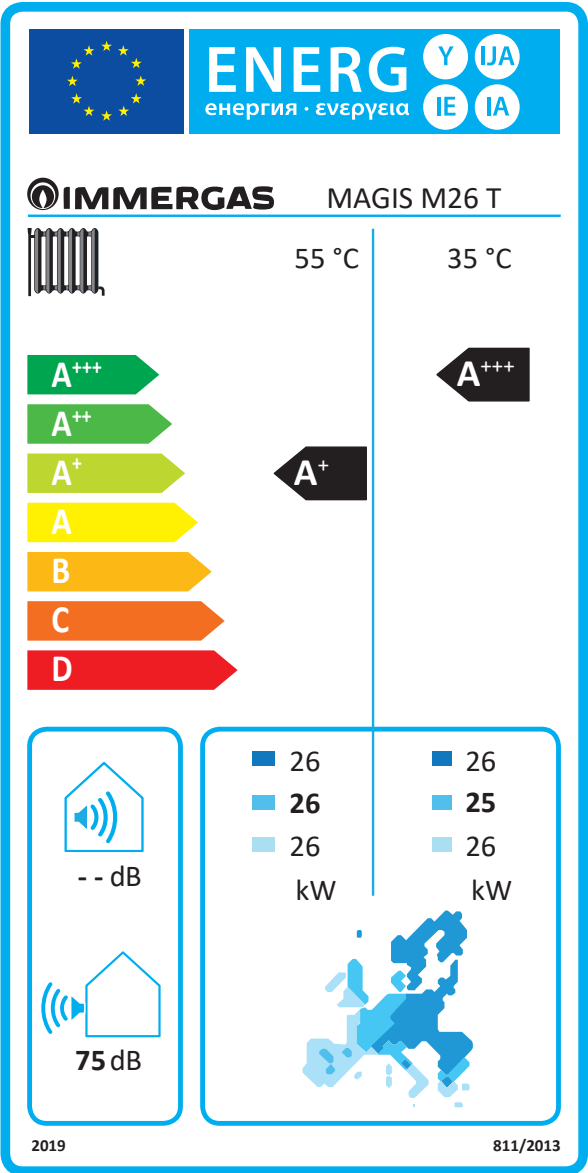
Data of the product data sheets according to the directive on energy labelling 2010/30/EC (EU) 811/2013.

## 2.1 PRODUCT LABELS

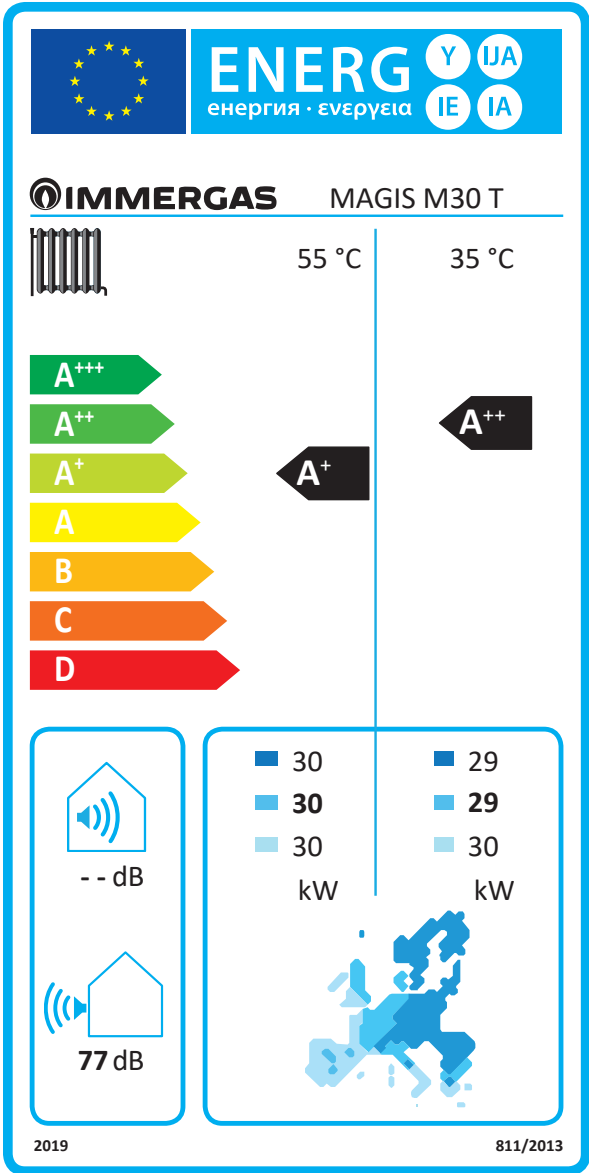
### Magis M18 T











### 3 TECHNICAL PARAMETERS

Model		MAGISM18 T							
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>	17,7	kW	Room central heating seasonal energy efficiency		η <sub>s</sub>	125,0	%
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>	15,6	kW	T <sub>j</sub> = − 7 °C		COP <sub>d</sub>	1,72	-
T <sub>j</sub> = + 2 °C		P <sub>dh</sub>	9,60	kW	T <sub>j</sub> = + 2 °C		COP <sub>d</sub>	3,30	-
T <sub>j</sub> = + 7 °C		P <sub>dh</sub>	6,40	kW	T <sub>j</sub> = + 7 °C		COP <sub>d</sub>	4,41	-
T <sub>j</sub> = + 12 °C		P <sub>dh</sub>	3,60	kW	T <sub>j</sub> = + 12 °C		COP <sub>d</sub>	5,09	-
T <sub>j</sub> = bivalent temperature		P <sub>dh</sub>	15,6	kW	T <sub>j</sub> = bivalent temperature		COP <sub>d</sub>	1,72	-
T <sub>j</sub> = operating limit temperature		P <sub>dh</sub>	15,0	kW	T <sub>j</sub> = operating limit temperature		COP <sub>d</sub>	1,17	-
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>	60	°C
Power consumption in modes other than active mode				Additional heater					
OFF mode		P <sub>OFF</sub>	0,018	kW	Rated heat output (*)		P <sub>sup</sub>	2,64	kW
Standby Mode		P <sub>TO</sub>	0,018	kW	Type of energy supplied		electrical		
Thermostat OFF mode		P <sub>SB</sub>	0,096	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		-	10650	m³\h	
Indoor/outdoor sound level		L <sub>WA</sub>	-/71,0	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>	11375	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		MAGISM18T					
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>	18,4	kW	Room central heating seasonal energy efficiency	η <sub>s</sub>	97,0	%
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>	11,10	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	1,98	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	6,70	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3,44	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4,70	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4,35	-
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	3,70	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub>	5,68	-
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	11,1	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1,98	-
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	13,6	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub>	1,21	-
For air-water heat pumps: T <sub>j</sub> = -15°C	P <sub>dh</sub>	13,6	kW	For air-water heat pumps: T <sub>j</sub> = -15°C	COP <sub>d</sub>	1,21	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	For air/water heat pumps: Operating limit temperature	TOL	-15	°C
Capacity of the cycle range for central heating	P <sub>cyc</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>	50	°C
Power consumption in modes other than active mode				Additional heater			
OFF mode	P <sub>OFF</sub>	0,018	kW	Rated heat output (*)	P <sub>sup</sub>	18,38	kW
Standby Mode	P <sub>TO</sub>	0,018	kW	Type of energy supplied	-		
Thermostat OFF mode	P <sub>SB</sub>	0,096	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	-	10650	m³/h
Indoor/outdoor sound level	L <sub>WA</sub>	-/71	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>	18156	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			MAGISM18T				
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>	18,1	kW	Room central heating seasonal energy efficiency	η <sub>s</sub>	157,0	%
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>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	18,40	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2,12	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	11,60	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3,49	-
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	5,40	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub>	5,09	-
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	11,6	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	3,49	-
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	18,40	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub>	2,12	-
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>	60	°C
Power consumption in modes other than active mode				Additional heater			
OFF mode	P <sub>OFF</sub>	0,018	kW	Rated heat output (*)	P <sub>sup</sub>	0,00	kW
Standby Mode	P <sub>TO</sub>	0,018	kW	Type of energy supplied	-		
Thermostat OFF mode	P <sub>SB</sub>	0,096	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	-	10650	m³\h
Indoor/outdoor sound level	L <sub>WA</sub>	-/71	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>	6041	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		MAGISM22 T					
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>	22,4	kW	Room central heating seasonal energy efficiency	η <sub>s</sub>	126,0	%
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>	19,8	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	1,74	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	11,90	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3,30	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	8,00	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4,62	-
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	3,60	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub>	5,20	-
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	19,8	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1,74	-
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	13,8	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub>	1,08	-
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>	60	°C
Power consumption in modes other than active mode				Additional heater			
OFF mode	P <sub>OFF</sub>	0,018	kW	Rated heat output (*)	P <sub>sup</sub>	8,6	kW
Standby Mode	P <sub>TO</sub>	0,018	kW	Type of energy supplied	electrical		
Thermostat OFF mode	P <sub>SB</sub>	0,096	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	-	10650	m³\h
Indoor/outdoor sound level	L <sub>WA</sub>	-73,0	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>	14390	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			MAGISM22 T				
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>	22,4	kW	Room central heating seasonal energy efficiency	η <sub>s</sub>	102,0	%
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>	13,50	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2,07	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	8,60	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3,70	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	5,20	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4,49	-
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	3,70	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub>	5,76	-
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	13,5	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2,07	-
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	13,8	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub>	1,24	-
For air-water heat pumps: T <sub>j</sub> = -15°C	P <sub>dh</sub>	13,8	kW	For air-water heat pumps: T <sub>j</sub> = -15°C	COP <sub>d</sub>	1,24	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	For air/water heat pumps: Operating limit temperature	TOL	-15	°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>	50	°C
Power consumption in modes other than active mode				Additional heater			
OFF mode	P <sub>OFF</sub>	0,018	kW	Rated heat output (*)	P <sub>sup</sub>	22,36	kW
Standby Mode	P <sub>TO</sub>	0,018	kW	Type of energy supplied	-		
Thermostat OFF mode	P <sub>SB</sub>	0,096	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	-	10650	m³\h
Indoor/outdoor sound level	L <sub>WA</sub>	-/73	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>	21067	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		MAGISM22 T					
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>	22,0	kW	Room central heating seasonal energy efficiency	η <sub>s</sub>	161,0	%
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>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	22,10	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2,12	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	14,10	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3,50	-
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	6,40	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub>	5,34	-
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	14,1	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	3,5	-
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	22,10	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub>	2,12	-
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>cyc</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>	60	°C
Power consumption in modes other than active mode				Additional heater			
OFF mode	P <sub>OFF</sub>	0,018	kW	Rated heat output (*)	P <sub>sup</sub>	0,00	kW
Standby Mode	P <sub>TO</sub>	0,018	kW	Type of energy supplied	-		
Thermostat OFF mode	P <sub>SB</sub>	0,096	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	-	10650	m³/h
Indoor/outdoor sound level	L <sub>WA</sub>	-/73	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>	7180	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				MAGISM26T			
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>	26,1	kW	Room central heating seasonal energy efficiency	η <sub>s</sub>	123,0	%
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>	20,6	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	1,69	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	14,30	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3,11	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	9,30	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4,72	-
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	3,90	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub>	5,41	-
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	22,1	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1,88	-
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	13,8	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub>	1,08	-
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>	-6	°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>	60	°C
Power consumption in modes other than active mode				Additional heater			
OFF mode	P <sub>OFF</sub>	0,018	kW	Rated heat output (*)		P <sub>sup</sub>	12,28 kW
Standby Mode	P <sub>TO</sub>	0,018	kW	Type of energy supplied		electrical	
Thermostat OFF mode	P <sub>SB</sub>	0,096	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	-	11200	m³\h
Indoor/outdoor sound level	L <sub>WA</sub>	-/75,0	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>	17204	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		MAGISM26T							
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>	26,3	kW	Room central heating seasonal energy efficiency		η <sub>s</sub>	101,0	%
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>	15,90	kW	T <sub>j</sub> = - 7 °C		COP <sub>d</sub>	2,10	-
T <sub>j</sub> = + 2 °C		P <sub>dh</sub>	10,20	kW	T <sub>j</sub> = + 2 °C		COP <sub>d</sub>	3,58	-
T <sub>j</sub> = + 7 °C		P <sub>dh</sub>	6,50	kW	T <sub>j</sub> = + 7 °C		COP <sub>d</sub>	4,99	-
T <sub>j</sub> = + 12 °C		P <sub>dh</sub>	3,60	kW	T <sub>j</sub> = + 12 °C		COP <sub>d</sub>	5,68	-
T <sub>j</sub> = bivalent temperature		P <sub>dh</sub>	15,9	kW	T <sub>j</sub> = bivalent temperature		COP <sub>d</sub>	2,1	-
T <sub>j</sub> = operating limit temperature		P <sub>dh</sub>	13,4	kW	T <sub>j</sub> = operating limit temperature		COP <sub>d</sub>	1,2	-
For air-water heat pumps: T <sub>j</sub> = -15°C		P <sub>dh</sub>	13,4	kW	For air-water heat pumps: T <sub>j</sub> = -15°C		COP <sub>d</sub>	1,2	-
Bivalent temperature		T <sub>biv</sub>	-7	°C	For air/water heat pumps: Operating limit temperature		TOL	-15	°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>	50	°C
Power consumption in modes other than active mode				Additional heater					
OFF mode		P <sub>OFF</sub>	0,018	kW	Rated heat output (*)		P <sub>sup</sub>	26,27	kW
Standby Mode		P <sub>TO</sub>	0,018	kW	Type of energy supplied		-		
Thermostat OFF mode		P <sub>SB</sub>	0,096	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		-	11200	m³\h
Indoor/outdoor sound level		L <sub>WA</sub>	-/75	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>	24967	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		MAGISM26T					
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>	26,2	kW	Room central heating seasonal energy efficiency	η <sub>s</sub>	168,0	%
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>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	26,50	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	1,99	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	16,90	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3,47	-
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	7,60	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub>	5,94	-
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	16,9	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	3,47	-
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	26,50	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub>	1,99	-
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>	60	°C
Power consumption in modes other than active mode				Additional heater			
OFF mode	P <sub>OFF</sub>	0,018	kW	Rated heat output (*)	P <sub>sup</sub>	0,00	kW
Standby Mode	P <sub>TO</sub>	0,018	kW	Type of energy supplied	-		
Thermostat OFF mode	P <sub>SB</sub>	0,096	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	-	11200	m³\h
Indoor/outdoor sound level	L <sub>WA</sub>	-/75	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>	8218	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		MAGISM30 T					
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>	29,7	kW	Room central heating seasonal energy efficiency	η <sub>s</sub>	123,0	%
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>	20,1	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	1,63	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	16,50	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3,09	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	10,50	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4,73	-
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	4,70	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub>	5,85	-
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	24,0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2,02	-
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	13,8	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub>	1,07	-
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>	-5	°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>	60	°C
Power consumption in modes other than active mode				Additional heater			
OFF mode	P <sub>OFF</sub>	0,018	kW	Rated heat output (*)		P <sub>sup</sub>	15,86      kW
Standby Mode	P <sub>TO</sub>	0,018	kW	Type of energy supplied		electrical	
Thermostat OFF mode	P <sub>SB</sub>	0,096	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		-	11200      m³\h
Indoor/outdoor sound level	L <sub>WA</sub>	-77,0	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>	19316	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				MAGISM30 T			
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>	30,4	kW	Room central heating seasonal energy efficiency	η <sub>s</sub>	100,0	%
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>	18,40	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2,10	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	11,20	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3,51	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	7,40	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5,18	-
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	3,60	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub>	5,73	-
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	18,4	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2,1	-
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	13,1	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub>	1,18	-
For air-water heat pumps: T <sub>j</sub> = -15°C	P <sub>dh</sub>	13,1	kW	For air-water heat pumps: T <sub>j</sub> = -15°C	COP <sub>d</sub>	1,18	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	For air/water heat pumps: Operating limit temperature	TOL	-15	°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>	50	°C
Power consumption in modes other than active mode				Additional heater			
OFF mode	P <sub>OFF</sub>	0,018	kW	Rated heat output (*)	P <sub>sup</sub>	30,41	kW
Standby Mode	P <sub>TO</sub>	0,018	kW	Type of energy supplied	electrical		
Thermostat OFF mode	P <sub>SB</sub>	0,096	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	-	11200	m³/h
Indoor/outdoor sound level	L <sub>WA</sub>	-/77	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>	29238	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		MAGISM30 T					
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>	29,7	kW	Room central heating seasonal energy efficiency	η <sub>s</sub>	163,0	%
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>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	26,40	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	1,99	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	19,10	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3,37	-
T <sub>j</sub> = + 12 °C	P <sub>dh</sub>	8,90	kW	T <sub>j</sub> = + 12 °C	COP <sub>d</sub>	6,09	-
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	19,1	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	3,37	-
T <sub>j</sub> = operating limit temperature	P <sub>dh</sub>	26,40	kW	T <sub>j</sub> = operating limit temperature	COP <sub>d</sub>	1,99	-
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>	60	°C
Power consumption in modes other than active mode				Additional heater			
OFF mode	P <sub>OFF</sub>	0,018	kW	Rated heat output (*)	P <sub>sup</sub>	3,32	kW
Standby Mode	P <sub>TO</sub>	0,018	kW	Type of energy supplied	electrical		
Thermostat OFF mode	P <sub>SB</sub>	0,096	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	-	11200	m³/h
Indoor/outdoor sound level	L <sub>WA</sub>	-/77	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>	9580	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				MAGISM18T						
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>	16,60	kW	Space heating seasonal energy efficiency		η <sub>s,c</sub>	185,0	%	
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>	16,60	kW	T <sub>j</sub> = +35°C		EER <sub>d</sub>	3,06	-	
T <sub>j</sub> = +30°C		P <sub>dc</sub>	11,90	kW	T <sub>j</sub> = +30°C		EER <sub>d</sub>	4,13	-	
T <sub>j</sub> = +25°C		P <sub>dc</sub>	7,60	kW	T <sub>j</sub> = +25°C		EER <sub>d</sub>	5,59	-	
T <sub>j</sub> = +20°C		P <sub>dc</sub>	3,50	kW	T <sub>j</sub> = +20°C		EER <sub>d</sub>	5,55	-	
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>	0,017	kW	Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW	
Thermostat OFF mode		P <sub>TO</sub>	0,084	kW	Standby Mode		P <sub>SB</sub>	0,017	kW	
<b>Other items</b>										
Capacity control		VARIABLE		For air-water emergency chillers: air flow rate, measured outdoors	-	8100	m³\h			
Sound power level, indoors/outdoors		L <sub>WA</sub>	- \ 71					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				MAGISM18T					
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>	18,40	kW	Space heating seasonal energy efficiency		η <sub>s,c</sub>	216,0	%
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>	18,40	kW	T <sub>j</sub> = +35°C		EER <sub>d</sub>	4,44	-
T <sub>j</sub> = +30°C		P <sub>dc</sub>	13,30	kW	T <sub>j</sub> = +30°C		EER <sub>d</sub>	5,26	-
T <sub>j</sub> = +25°C		P <sub>dc</sub>	8,50	kW	T <sub>j</sub> = +25°C		EER <sub>d</sub>	6,68	-
T <sub>j</sub> = +20°C		P <sub>dc</sub>	3,30	kW	T <sub>j</sub> = +20°C		EER <sub>d</sub>	5,15	-
Degradation coefficient for chillers (*)		C <sub>dc</sub>	0,9	-					
Power consumption in modes other than “active mode”									
OFF mode		P <sub>OFF</sub>	0,017	kW	Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW
Thermostat OFF mode		P <sub>TO</sub>	0,084	kW	Standby Mode		P <sub>SB</sub>	0,017	kW
Other items									
Capacity control		VARIABLE			For air-water emergency chillers: air flow rate, measured outdoors		-	8100	m³\h
Sound power level, indoors/outdoors		L <sub>WA</sub>	- \ 71	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				MAGISM22T					
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>	20,60	kW	Space heating seasonal energy efficiency		η <sub>s,c</sub>	185,0	%
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>	20,60	kW	T <sub>j</sub> = +35°C		EER <sub>d</sub>	2,89	-
T <sub>j</sub> = +30°C		P <sub>dc</sub>	14,90	kW	T <sub>j</sub> = +30°C		EER <sub>d</sub>	3,95	-
T <sub>j</sub> = +25°C		P <sub>dc</sub>	9,30	kW	T <sub>j</sub> = +25°C		EER <sub>d</sub>	5,37	-
T <sub>j</sub> = +20°C		P <sub>dc</sub>	4,30	kW	T <sub>j</sub> = +20°C		EER <sub>d</sub>	6,19	-
Degradation coefficient for chillers (*)		C <sub>dc</sub>	0,9	-					
Power consumption in modes other than “active mode”									
OFF mode		P <sub>OFF</sub>	0,017	kW	Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW
Thermostat OFF mode		P <sub>TO</sub>	0,084	kW	Standby Mode		P <sub>SB</sub>	0,017	kW
Other items									
Capacity control		VARIABLE			For air-water emergency chillers: air flow rate, measured outdoors		-	8950	m³\h
Sound power level, indoors/outdoors		L <sub>WA</sub>	- \73	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				MAGISM22 T					
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>	22,80	kW	Space heating seasonal energy efficiency		η <sub>s,c</sub>	224,0	%
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>	22,80	kW	T <sub>j</sub> = +35°C		EER <sub>d</sub>	4,25	-
T <sub>j</sub> = +30°C		P <sub>dc</sub>	16,30	kW	T <sub>j</sub> = +30°C		EER <sub>d</sub>	5,16	-
T <sub>j</sub> = +25°C		P <sub>dc</sub>	10,20	kW	T <sub>j</sub> = +25°C		EER <sub>d</sub>	6,45	-
T <sub>j</sub> = +20°C		P <sub>dc</sub>	4,60	kW	T <sub>j</sub> = +20°C		EER <sub>d</sub>	6,38	-
Degradation coefficient for chillers (*)		C <sub>dc</sub>	0,9	-					
Power consumption in modes other than “active mode”									
OFF mode		P <sub>OFF</sub>	0,017	kW	Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW
Thermostat OFF mode		P <sub>TO</sub>	0,084	kW	Standby Mode		P <sub>SB</sub>	0,017	kW
Other items									
Capacity control		VARIABLE			For air-water emergency chillers: air flow rate, measured outdoors		-	8950	m³\h
Sound power level, indoors/outdoors		L <sub>WA</sub>	- \ 73	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				MAGISM26 T					
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>	25,50	kW	Space heating seasonal energy efficiency		η <sub>s,c</sub>	183,0	%
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>	25,50	kW	T <sub>j</sub> = +35°C		EER <sub>d</sub>	2,63	-
T <sub>j</sub> = +30°C		P <sub>dc</sub>	18,50	kW	T <sub>j</sub> = +30°C		EER <sub>d</sub>	3,79	-
T <sub>j</sub> = +25°C		P <sub>dc</sub>	11,80	kW	T <sub>j</sub> = +25°C		EER <sub>d</sub>	5,19	-
T <sub>j</sub> = +20°C		P <sub>dc</sub>	5,60	kW	T <sub>j</sub> = +20°C		EER <sub>d</sub>	6,84	-
Degradation coefficient for chillers (*)		C <sub>dc</sub>	0,9	-					
Power consumption in modes other than “active mode”									
OFF mode		P <sub>OFF</sub>	0,017	kW	Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW
Thermostat OFF mode		P <sub>TO</sub>	0,084	kW	Standby Mode		P <sub>SB</sub>	0,017	kW
Other items									
Capacity control		VARIABLE			For air-water emergency chillers: air flow rate, measured outdoors		-	9750	m³\h
Sound power level, indoors/outdoors		L <sub>WA</sub>	- \75	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		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				MAGIS M26 T			
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>	26,80	kW	Space heating seasonal energy efficiency	η <sub>s,c</sub>	226,0	%
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>	26,80	kW	Tj = +35°C	EER <sub>d</sub>	4,04	-
Tj = +30°C	P <sub>dc</sub>	19,40	kW	Tj = +30°C	EER <sub>d</sub>	5,21	-
Tj = +25°C	P <sub>dc</sub>	12,10	kW	Tj = +25°C	EER <sub>d</sub>	6,23	-
Tj = +20°C	P <sub>dc</sub>	5,90	kW	Tj = +20°C	EER <sub>d</sub>	6,94	-
Degradation coefficient for chillers (*)	C <sub>dc</sub>	0,9	-				
Power consumption in modes other than “active mode”							
OFF mode	P <sub>OFF</sub>	0,017	kW	Crankcase heater mode electrical	P <sub>CK</sub>	0,000	kW
Thermostat OFF mode	P <sub>TO</sub>	0,084	kW	Standby Mode	P <sub>SB</sub>	0,017	kW
Other items							
Capacity control	VARIABLE			For air-water emergency chillers: air flow rate, measured outdoors	-	9750	m³\h
Sound power level, indoors/outdoors	L <sub>WA</sub>	- \ 75	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				MAGISM30T					
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>	29,50	kW	Space heating seasonal energy efficiency		η <sub>s,c</sub>	177,0	%
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>	29,50	kW	T <sub>j</sub> = +35°C		EER <sub>d</sub>	2,29	-
T <sub>j</sub> = +30°C		P <sub>dc</sub>	21,20	kW	T <sub>j</sub> = +30°C		EER <sub>d</sub>	3,62	-
T <sub>j</sub> = +25°C		P <sub>dc</sub>	13,50	kW	T <sub>j</sub> = +25°C		EER <sub>d</sub>	5,06	-
T <sub>j</sub> = +20°C		P <sub>dc</sub>	6,00	kW	T <sub>j</sub> = +20°C		EER <sub>d</sub>	6,75	-
Degradation coefficient for chillers (*)		C <sub>dc</sub>	0,9	-					
Power consumption in modes other than “active mode”									
OFF mode		P <sub>OFF</sub>	0,017	kW	Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW
Thermostat OFF mode		P <sub>TO</sub>	0,084	kW	Standby Mode		P <sub>SB</sub>	0,017	kW
Other items									
Capacity control		VARIABLE		For air-water emergency chillers: air flow rate, measured outdoors		-	10650	m³\h	
Sound power level, indoors/outdoors		L <sub>WA</sub>	- \77	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		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				MAGISM30 T					
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>	30,80	kW	Space heating seasonal energy efficiency		η <sub>s,c</sub>	225,0	%
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>	30,80	kW	Tj = +35°C		EER <sub>d</sub>	3,79	-
Tj = +30°C		P <sub>dc</sub>	22,10	kW	Tj = +30°C		EER <sub>d</sub>	5,06	-
Tj = +25°C		P <sub>dc</sub>	13,90	kW	Tj = +25°C		EER <sub>d</sub>	6,33	-
Tj = +20°C		P <sub>dc</sub>	6,30	kW	Tj = +20°C		EER <sub>d</sub>	7,01	-
Degradation coefficient for chillers (*)		C <sub>dc</sub>	0,9	-					
Power consumption in modes other than “active mode”									
OFF mode		P <sub>OFF</sub>	0,017	kW	Crankcase heater mode electrical		P <sub>CK</sub>	0,000	kW
Thermostat OFF mode		P <sub>TO</sub>	0,084	kW	Standby Mode		P <sub>SB</sub>	0,017	kW
Other items									
Capacity control		VARIABLE			For air-water emergency chillers: air flow rate, measured outdoors		-	10650	m³\h
Sound power level, indoors/outdoors		L <sub>WA</sub>	- \ 77	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									

## 5 TECHNICAL DATA TABLE ON ENVIRONMENTAL CONDITIONS

Conditions (°C)		MAGISM18T	MAGISM22T	MAGISM26T	MAGISM30T
Room Temperature: 35/24 Water Temperature: 12/7	Capacity (kW)	17,0	21,0	26,0	29,5
	Absorbed power (kW)	5,57	7,12	9,63	11,57
	EER/COP (/)	3,05	2,95	2,7	2,55
Room Temperature: 35/24 Water Temperature: 23/18	Capacity (kW)	18,5	23,0	27,0	31,0
	Absorbed power (kW)	3,9	5,0	6,28	7,75
	EER/COP (/)	4,75	4,6	4,3	4,0
Room Temperature: 7/6 Water Temperature: 30/35	Capacity (kW)	18,0	22,0	26,0	30,1
	Absorbed power (kW)	3,83	5,0	6,37	7,7
	EER/COP (/)	4,7	4,4	4,08	3,91
Room Temperature: 2/1 Water Temperature: 30/35	Capacity (kW)	18,00	22,00	24,00	26,00
	Absorbed power (kW)	5,33	7,10	8,33	9,29
	EER/COP (/)	3,38	3,10	2,88	2,80
Room Temperature: -7/-8 Water Temperature: 30/35	Capacity (kW)	18,00	21,00	22,00	23,00
	Absorbed power (kW)	6,67	8,08	8,80	9,39
	EER/COP (/)	2,70	2,60	2,50	2,45
Room Temperature: 7/6 Water Temperature: 40/45	Capacity (kW)	18,0	22,0	26,0	30,0
	Absorbed power (kW)	5,14	6,47	8,39	10,35
	EER/COP (/)	3,5	3,4	3,1	2,9
Room Temperature: 7/6 Water Temperature: 47/55	Capacity (kW)	18,0	22,0	26,0	30,0
	Absorbed power (kW)	6,55	8,3	10,61	13,04
	EER/COP (/)	2,75	2,65	2,45	2,3

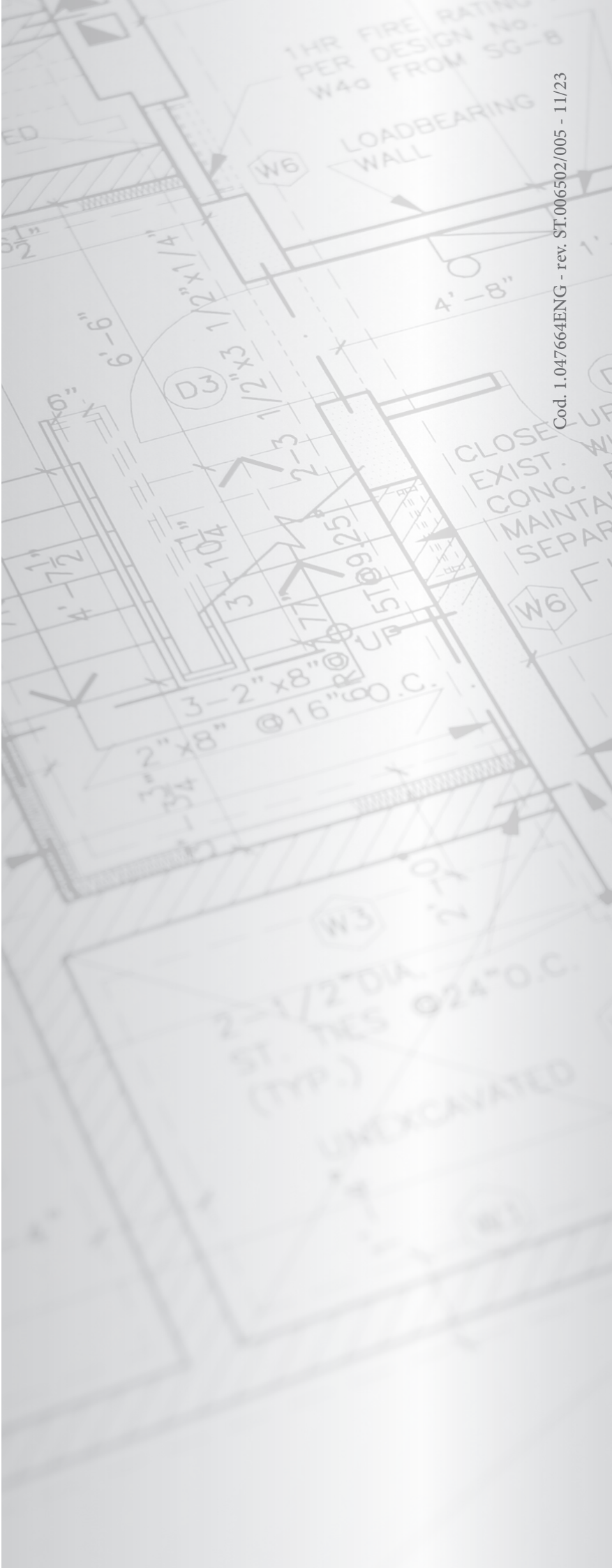




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Cod. 1.047664ENG - rev. ST.006502/005 - 11/23