

**Average temperature table (47/55) average zones**

Model: <b>Magis Pro 12 V2 + Super Trio Top</b>							
Air/water heat pump: yes							
Water/water heat pump: no							
Brine/water heat pump: no							
Low temperature heat pump: no							
With additional central heating device: no							
Mixed central heating device with heat pump: yes							
The parameters are declared for average temperature application, except for low temperature heat pumps. The parameters for low temperature heat pumps are declared for low temperature application							
The parameters are declared for average climatic conditions							
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit
Nominal heat output	<i>Nominal output</i>	8.00	kW	Room central heating seasonal energy efficiency	$\eta_s$	119	%
Central heating capacity declared with a partial load and indoor temperature equivalent to 20°C and outdoor temperature Tj				Performance coefficient declared with indoor temperature equivalent to 20°C and outdoor temperature Tj			
Tj = - 7 °C	<i>Pdh</i>	7.1	kW	Tj = - 7 °C	<i>COPd</i>	1.75	-
Tj = + 2 °C	<i>Pdh</i>	4.3	kW	Tj = + 2 °C	<i>COPd</i>	2.78	-
Tj = + 7 °C	<i>Pdh</i>	3.6	kW	Tj = + 7 °C	<i>COPd</i>	4.51	-
Tj = + 12 °C	<i>Pdh</i>	4.3	kW	Tj = + 12 °C	<i>COPd</i>	7.02	-
Tj = bivalent temperature	<i>Pdh</i>	7.1	kW	Tj = bivalent temperature	<i>COPd</i>	1.75	-
Tj = temperature operating limit	<i>Pdh</i>	8.0	kW	Tj = temperature operating limit	<i>COPd</i>	1.62	-
for air/water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	<i>Pdh</i>	0.0	kW	for air/water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	<i>COPd</i>	0	-
Bivalent temperature	<i>T<sub>biv</sub></i>	-7	°C	for air/water heat pumps: temperature operating limit	<i>TOL</i>	-10	°C
Central heating capacity cycle intervals	<i>Pcyc</i>	0.0	kW	Cycle intervals efficiency	<i>COPcyc or PERcyc</i>	0	-
Degradation coefficient	<i>Cdh</i>	0.9	—	Water heating temperature operating limit	<i>WTOL</i>	55	°C
Different mode of energy consumption from the active mode				Additional heating appliance			
OFF mode	<i>P<sub>OFF</sub></i>	0.008	kW	Nominal heat output	<i>Psup</i>	-	kW
Thermostat mode off	<i>P<sub>TO</sub></i>	0.021	kW	Type of energy supply voltage	integration		
Standby mode	<i>P<sub>SB</sub></i>	0.021	kW	For air/water heat pumps: nominal air output to outside	—	5940	m³/h
Guard heating mode	<i>P<sub>CK</sub></i>	0.000	kW	For water or brine/water heat pumps: nominal flow of brine or water, outdoor heat exchanger	—	-	m³/h
Other items				For mixed central heating appliances with a heat pump			
Capacity control	Variable			Stated load profile	XL		
Indoor/outdoor sound level	<i>L<sub>WA</sub></i>	64	dB	Daily electrical power consumption	<i>Q<sub>elec</sub></i>	8.51	kWh
Annual energy consumption	<i>Q<sub>HE</sub></i>	5425	kWh or GJ	annual energy consumption	<i>AEC</i>	1774	kWh
Contact information				Immergas s.p.a via Cisa Ligure n.95			
				Water central heating energy efficiency	$\eta_{wh}$	94.0	%
				Daily fuel consumption	<i>Q<sub>fuel</sub></i>	-	kWh
				Annual fuel consumption	<i>AFC</i>	-	GJ

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Mixed central heating device with heat pump: yes							
The parameters are declared for average temperature application, except for low temperature heat pumps. The parameters for low temperature heat pumps are declared for low temperature application							
The parameters are declared for average climatic conditions							
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit
Nominal heat output	<i>Nominal output</i>	8.00	kW	<b>Room central heating seasonal energy efficiency</b>	$\eta_s$	119	%
Central heating capacity declared with a partial load and indoor temperature equivalent to 20°C and outdoor temperature Tj				Performance coefficient declared with indoor temperature equivalent to 20°C and outdoor temperature Tj			
T <sub>j</sub> = - 7 °C	<i>Pdh</i>	7.1	kW	T <sub>j</sub> = - 7 °C	<i>COPd</i>	1.75	-
T <sub>j</sub> = + 2 °C	<i>Pdh</i>	4.3	kW	T <sub>j</sub> = + 2 °C	<i>COPd</i>	2.78	-
T <sub>j</sub> = + 7 °C	<i>Pdh</i>	3.6	kW	T <sub>j</sub> = + 7 °C	<i>COPd</i>	4.51	-
T <sub>j</sub> = + 12 °C	<i>Pdh</i>	4.3	kW	T <sub>j</sub> = + 12 °C	<i>COPd</i>	7.02	-
T <sub>j</sub> = bivalent temperature	<i>Pdh</i>	7.1	kW	T <sub>j</sub> = bivalent temperature	<i>COPd</i>	1.75	-
T <sub>j</sub> = temperature operating limit	<i>Pdh</i>	8.0	kW	T <sub>j</sub> = temperature operating limit	<i>COPd</i>	1.62	-
for air/water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	<i>Pdh</i>	0.0	kW	for air/water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	<i>COPd</i>	0	-
Bivalent temperature	<i>T<sub>biv</sub></i>	-7	°C	for air/water heat pumps: tem- perature operating limit	<i>TOL</i>	-10	°C
Central heating capacity cycle intervals	<i>Pcyc</i>	0.0	kW	Cycle intervals efficiency	<i>COPcyc or PERcyc</i>	0	-
Degradation coefficient	<i>Cdh</i>	0.9	—	Water heating temperature operating limit	<i>WTOL</i>	55	°C
Different mode of energy consumption from the active mode				Additional heating appliance			
OFF mode	<i>P<sub>OFF</sub></i>	0.008	kW	Nominal heat output	<i>Psup</i>	-	kW
Thermostat mode off	<i>P<sub>TO</sub></i>	0.021	kW	Type of energy supply voltage	integration		
Standby mode	<i>P<sub>SB</sub></i>	0.021	kW				
Guard heating mode	<i>P<sub>CK</sub></i>	0.000	kW				
Other items							
Capacity control	Variable			For air/water heat pumps: nominal air output to outside	—	5940	m <sup>3</sup> /h
Indoor/outdoor sound level	<i>L<sub>WA</sub></i>	64	dB	For water or brine/water heat pumps: nominal flow of brine or water, outdoor heat exchanger	—	-	m <sup>3</sup> /h
Annual energy consumption	<i>Q<sub>HE</sub></i>	5425	kWh or GJ				
For mixed central heating appliances with a heat pump							
<b>Stated load profile</b>	XL			<b>Water central heating energy efficiency</b>	$\eta_{wh}$	91.0	%
Daily electrical power consumption	<i>Q<sub>elec</sub></i>	8.78	kWh	Daily fuel consumption	<i>Q<sub>fuel</sub></i>	-	kWh
annual energy consumption	<i>AEC</i>	1832	kWh	Annual fuel consumption	<i>AFC</i>	-	GJ
Contact information	Immergas s.p.a via Cisa Ligure n.95						

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Air/water heat pump: yes							
Water/water heat pump: no							
Brine/water heat pump: no							
Low temperature heat pump: no							
With additional central heating device: no							
Mixed central heating device with heat pump: yes							
The parameters are declared for average temperature application, except for low temperature heat pumps. The parameters for low temperature heat pumps are declared for low temperature application							
The parameters are declared for average climatic conditions							
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit
Nominal heat output	<i>Nominal output</i>	10.00	kW	<b>Room central heating seasonal energy efficiency</b>	$\eta_s$	110	%
Central heating capacity declared with a partial load and indoor temperature equivalent to 20°C and outdoor temperature Tj				Performance coefficient declared with indoor temperature equivalent to 20°C and outdoor temperature Tj			
T <sub>j</sub> = - 7 °C	<i>Pdh</i>	8.4	kW	T <sub>j</sub> = - 7 °C	<i>COPd</i>	1.75	-
T <sub>j</sub> = + 2 °C	<i>Pdh</i>	5.1	kW	T <sub>j</sub> = + 2 °C	<i>COPd</i>	2.40	-
T <sub>j</sub> = + 7 °C	<i>Pdh</i>	3.3	kW	T <sub>j</sub> = + 7 °C	<i>COPd</i>	4.51	-
T <sub>j</sub> = + 12 °C	<i>Pdh</i>	1.7	kW	T <sub>j</sub> = + 12 °C	<i>COPd</i>	6.67	-
T <sub>j</sub> = bivalent temperature	<i>Pdh</i>	8.4	kW	T <sub>j</sub> = bivalent temperature	<i>COPd</i>	1.75	-
T <sub>j</sub> = temperature operating limit	<i>Pdh</i>	9.5	kW	T <sub>j</sub> = temperature operating limit	<i>COPd</i>	1.56	-
for air/water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	<i>Pdh</i>	0.0	kW	for air/water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	<i>COPd</i>	0	-
Bivalent temperature	<i>T<sub>biv</sub></i>	-7	°C	for air/water heat pumps: tem- perature operating limit	<i>TOL</i>	-10	°C
Central heating capacity cycle intervals	<i>Pcyc</i>	0.0	kW	Cycle intervals efficiency	<i>COPcyc or PERcyc</i>	0	-
Degradation coefficient	<i>Cdh</i>	0.9	—	Water heating temperature operating limit	<i>WTOL</i>	55	°C
Different mode of energy consumption from the active mode				Additional heating appliance			
OFF mode	<i>P<sub>OFF</sub></i>	0.008	kW	Nominal heat output	<i>Psup</i>	-	kW
Thermostat mode off	<i>P<sub>TO</sub></i>	0.021	kW	Type of energy supply voltage	integration		
Standby mode	<i>P<sub>SB</sub></i>	0.021	kW				
Guard heating mode	<i>P<sub>CK</sub></i>	0.000	kW				
Other items							
Capacity control	Variable			For air/water heat pumps: nominal air output to outside	—	7080	m <sup>3</sup> /h
Indoor/outdoor sound level	<i>L<sub>WA</sub></i>	66	dB	For water or brine/water heat pumps: nominal flow of brine or water, outdoor heat exchanger	—	-	m <sup>3</sup> /h
Annual energy consumption	<i>Q<sub>HE</sub></i>	6958	kWh or GJ				
For mixed central heating appliances with a heat pump							
<b>Stated load profile</b>	XL			<b>Water central heating energy efficiency</b>	$\eta_{wh}$	89.0	%
Daily electrical power consumption	<i>Q<sub>elec</sub></i>	9.01	kWh	Daily fuel consumption	<i>Q<sub>fuel</sub></i>	-	kWh
annual energy consumption	<i>AEC</i>	1884	kWh	Annual fuel consumption	<i>AFC</i>	-	GJ
Contact information	Immergas s.p.a via Cisa Ligure n.95						

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Model: <b>Magis Pro 12 V2 T + Super Trio Top</b>							
Air/water heat pump: yes							
Water/water heat pump: no							
Brine/water heat pump: no							
Low temperature heat pump: no							
With additional central heating device: no							
Mixed central heating device with heat pump: yes							
The parameters are declared for average temperature application, except for low temperature heat pumps. The parameters for low temperature heat pumps are declared for low temperature application							
The parameters are declared for average climatic conditions							
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit
Nominal heat output	<i>Nominal output</i>	8.00	kW	Room central heating seasonal energy efficiency	$\eta_s$	119	%
Central heating capacity declared with a partial load and indoor temperature equivalent to 20°C and outdoor temperature $T_j$				Performance coefficient declared with indoor temperature equivalent to 20°C and outdoor temperature $T_j$			
$T_j = -7\text{ °C}$	<i>Pdh</i>	7.1	kW	$T_j = -7\text{ °C}$	<i>COPd</i>	1.75	-
$T_j = +2\text{ °C}$	<i>Pdh</i>	4.3	kW	$T_j = +2\text{ °C}$	<i>COPd</i>	2.78	-
$T_j = +7\text{ °C}$	<i>Pdh</i>	3.6	kW	$T_j = +7\text{ °C}$	<i>COPd</i>	4.51	-
$T_j = +12\text{ °C}$	<i>Pdh</i>	4.3	kW	$T_j = +12\text{ °C}$	<i>COPd</i>	7.02	-
$T_j =$ bivalent temperature	<i>Pdh</i>	7.1	kW	$T_j =$ bivalent temperature	<i>COPd</i>	1.75	-
$T_j =$ temperature operating limit	<i>Pdh</i>	8.0	kW	$T_j =$ temperature operating limit	<i>COPd</i>	1.62	-
for air/water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )	<i>Pdh</i>	0.0	kW	for air/water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )	<i>COPd</i>	0	-
Bivalent temperature	$T_{biv}$	-7	°C	for air/water heat pumps: temperature operating limit	<i>TOL</i>	-10	°C
Central heating capacity cycle intervals	<i>Pcyc</i>	0.0	kW	Cycle intervals efficiency	<i>COPcyc or PERcyc</i>	0	-
Degradation coefficient	<i>Cdh</i>	0.9	—	Water heating temperature operating limit	<i>WTOL</i>	55	°C
Different mode of energy consumption from the active mode				Additional heating appliance			
OFF mode	$P_{OFF}$	0.008	kW	Nominal heat output	$P_{sup}$	-	kW
Thermostat mode off	$P_{TO}$	0.021	kW	Type of energy supply voltage	integration		
Standby mode	$P_{SB}$	0.021	kW				
Guard heating mode	$P_{CK}$	0.000	kW				
Other items							
Capacity control	Variable			For air/water heat pumps: nominal air output to outside	—	5940	m <sup>3</sup> /h
Indoor/outdoor sound level	$L_{WA}$	64	dB	For water or brine/water heat pumps: nominal flow of brine or water, outdoor heat exchanger	—	-	m <sup>3</sup> /h
Annual energy consumption	$Q_{HE}$	5425	kWh or GJ				
For mixed central heating appliances with a heat pump							
Stated load profile	XL			Water central heating energy efficiency	$\eta_{wh}$	94.0	%
Daily electrical power consumption	$Q_{elec}$	8.51	kWh	Daily fuel consumption	$Q_{fuel}$	-	kWh
annual energy consumption	<i>AEC</i>	1774	kWh	Annual fuel consumption	<i>AFC</i>	-	GJ
Contact information	Immergas s.p.a via Cisa Ligure n.95						

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Model: <b>Magis Pro 14 V2 T + Super Trio Top</b>			
Air/water heat pump: yes			
Water/water heat pump: no			
Brine/water heat pump: no			
Low temperature heat pump: no			
With additional central heating device: no			
Mixed central heating device with heat pump: yes			
The parameters are declared for average temperature application, except for low temperature heat pumps. The parameters for low temperature heat pumps are declared for low temperature application			
The parameters are declared for average climatic conditions			
Element	Symbol	Value	Unit
Nominal heat output	<i>Nominal output</i>	8.00	kW
Central heating capacity declared with a partial load and indoor temperature equivalent to 20°C and outdoor temperature Tj			
T <sub>j</sub> = - 7 °C	<i>Pdh</i>	7.1	kW
T <sub>j</sub> = + 2 °C	<i>Pdh</i>	4.3	kW
T <sub>j</sub> = + 7 °C	<i>Pdh</i>	3.6	kW
T <sub>j</sub> = + 12 °C	<i>Pdh</i>	4.3	kW
T <sub>j</sub> = bivalent temperature	<i>Pdh</i>	7.1	kW
T <sub>j</sub> = temperature operating limit	<i>Pdh</i>	8.0	kW
for air/water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	<i>Pdh</i>	0.0	kW
Bivalent temperature	T <sub>biv</sub>	-7	°C
Central heating capacity cycle intervals	<i>Pcyc</i>	0.0	kW
Degradation coefficient	<i>Cdh</i>	0.9	—
Different mode of energy consumption from the active mode			
OFF mode	<i>P<sub>OFF</sub></i>	0.008	kW
Thermostat mode off	<i>P<sub>TO</sub></i>	0.021	kW
Standby mode	<i>P<sub>SB</sub></i>	0.021	kW
Guard heating mode	<i>P<sub>CK</sub></i>	0.000	kW
Other items			
Capacity control	Variable		
Indoor/outdoor sound level	L <sub>WA</sub>	64	dB
Annual energy consumption	Q <sub>HE</sub>	5425	kWh or GJ
For mixed central heating appliances with a heat pump			
Stated load profile	XL		
Daily electrical power consumption	Q <sub>elec</sub>	8.78	kWh
annual energy consumption	AEC	1832	kWh
Contact information	Immergas s.p.a via Cisa Ligure n.95		
Element	Symbol	Value	Unit
Room central heating seasonal energy efficiency	$\eta_s$	119	%
Performance coefficient declared with indoor temperature equivalent to 20°C and outdoor temperature Tj			
T <sub>j</sub> = - 7 °C	<i>COPd</i>	1.75	—
T <sub>j</sub> = + 2 °C	<i>COPd</i>	2.78	—
T <sub>j</sub> = + 7 °C	<i>COPd</i>	4.51	—
T <sub>j</sub> = + 12 °C	<i>COPd</i>	7.02	—
T <sub>j</sub> = bivalent temperature	<i>COPd</i>	1.75	—
T <sub>j</sub> = temperature operating limit	<i>COPd</i>	1.62	—
for air/water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	<i>COPd</i>	0	—
for air/water heat pumps: temperature operating limit	TOL	-10	°C
Cycle intervals efficiency	<i>COP<sub>cyc</sub> or PER<sub>cyc</sub></i>	0	—
Water heating temperature operating limit	WTOL	55	°C
Additional heating appliance			
Nominal heat output	<i>P<sub>sup</sub></i>	-	kW
Type of energy supply voltage	integration		
For air/water heat pumps: nominal air output to outside	—	5940	m <sup>3</sup> /h
For water or brine/water heat pumps: nominal flow of brine or water, outdoor heat exchanger	—	-	m <sup>3</sup> /h
Water central heating energy efficiency	$\eta_{wh}$	91.0	%
Daily fuel consumption	Q <sub>fuel</sub>	-	kWh
Annual fuel consumption	AFC	-	GJ

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Low temperature heat pump: no							
With additional central heating device: no							
Mixed central heating device with heat pump: yes							
The parameters are declared for average temperature application, except for low temperature heat pumps. The parameters for low temperature heat pumps are declared for low temperature application							
The parameters are declared for average climatic conditions							
Element	Symbol	Value	Unit	Element	Symbol	Value	Unit
Nominal heat output	<i>Nominal output</i>	10.00	kW	<b>Room central heating seasonal energy efficiency</b>	$\eta_s$	110	%
Central heating capacity declared with a partial load and indoor temperature equivalent to 20°C and outdoor temperature Tj				Performance coefficient declared with indoor temperature equivalent to 20°C and outdoor temperature Tj			
T <sub>j</sub> = - 7 °C	<i>Pdh</i>	8.4	kW	T <sub>j</sub> = - 7 °C	<i>COPd</i>	1.75	-
T <sub>j</sub> = + 2 °C	<i>Pdh</i>	5.1	kW	T <sub>j</sub> = + 2 °C	<i>COPd</i>	2.40	-
T <sub>j</sub> = + 7 °C	<i>Pdh</i>	3.3	kW	T <sub>j</sub> = + 7 °C	<i>COPd</i>	4.51	-
T <sub>j</sub> = + 12 °C	<i>Pdh</i>	1.7	kW	T <sub>j</sub> = + 12 °C	<i>COPd</i>	6.67	-
T <sub>j</sub> = bivalent temperature	<i>Pdh</i>	8.4	kW	T <sub>j</sub> = bivalent temperature	<i>COPd</i>	1.75	-
T <sub>j</sub> = temperature operating limit	<i>Pdh</i>	9.5	kW	T <sub>j</sub> = temperature operating limit	<i>COPd</i>	1.56	-
for air/water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	<i>Pdh</i>	0.0	kW	for air/water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	<i>COPd</i>	0	-
Bivalent temperature	<i>T<sub>biv</sub></i>	-7	°C	for air/water heat pumps: tem- perature operating limit	<i>TOL</i>	-10	°C
Central heating capacity cycle intervals	<i>Pcyc</i>	0.0	kW	Cycle intervals efficiency	<i>COPcyc or PERcyc</i>	0	-
Degradation coefficient	<i>Cdh</i>	0.9	—	Water heating temperature operating limit	<i>WTOL</i>	55	°C
Different mode of energy consumption from the active mode				Additional heating appliance			
OFF mode	<i>P<sub>OFF</sub></i>	0.008	kW	Nominal heat output	<i>Psup</i>	-	kW
Thermostat mode off	<i>P<sub>TO</sub></i>	0.021	kW	Type of energy supply voltage	integration		
Standby mode	<i>P<sub>SB</sub></i>	0.021	kW				
Guard heating mode	<i>P<sub>CK</sub></i>	0.000	kW				
Other items							
Capacity control	Variable			For air/water heat pumps: nominal air output to outside	—	7080	m <sup>3</sup> /h
Indoor/outdoor sound level	<i>L<sub>WA</sub></i>	66	dB	For water or brine/water heat pumps: nominal flow of brine or water, outdoor heat exchanger	—	-	m <sup>3</sup> /h
Annual energy consumption	<i>Q<sub>HE</sub></i>	6958	kWh or GJ				
For mixed central heating appliances with a heat pump							
<b>Stated load profile</b>	XL			<b>Water central heating energy efficiency</b>	$\eta_{wh}$	89.0	%
Daily electrical power consumption	<i>Q<sub>elec</sub></i>	9.01	kWh	Daily fuel consumption	<i>Q<sub>fuel</sub></i>	-	kWh
annual energy consumption	<i>AEC</i>	1884	kWh	Annual fuel consumption	<i>AFC</i>	-	GJ
Contact information	Immergas s.p.a via Cisa Ligure n.95						