

# Air Source Heat Pump for Heating, Cooling & DHW



The InstaGen heat pump is a modern, stylish monobloc system utilising low Global Warming Potential (GWP) refrigerant – R290.

## Key features

The use of R290 refrigerant provides high efficiency and performance, future-proof compliance beyond 2027, compatibility with multiple hot water system configurations, and reliable operation at ambient temperatures as low as -25°C.

- Sleek, minimalist design
- Single fan monobloc system (up to 14kW)
- Available in six kW capacities (3kW to 22kW)
- Low GWP R290 refrigerant
- Powerful unit providing up to 75°C flow temperature
- More information via [support@instagen.co.uk](mailto:support@instagen.co.uk)

Up to <b>5.03</b> SCOP*	As low as <b>35dB</b> sound pressure	<b>A+++</b> ErP Level
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Model	IG4-MP1-A1	IG6-MP1-A1	IG8-MP1-A1	IG10-MP1-A1	IG12-MP1-A1	IG16-MP1-A1
<b>Heating Condition - Ambient Temp. (DB/WB): 7/6°C, Water Temp. (In/Out):30/35°C</b>						
Heating Capacity Range (kW)	2.5~6.0	3.3~8.3	4.5~11.4	5.9~14.8	7.2~18.2	9.6~24.0
Heating Power Input Range (kW)	0.48~1.44	0.64~2.18	0.85~2.95	1.13~3.83	1.38~4.65	1.83~6.30
COP Range	4.16~5.21	3.81~5.17	3.86~5.29	3.86~5.22	3.91~5.22	3.81~5.24
<b>DHW Condition-Ambient Temp. (DB/WB): 7/6°C, Water Temp. (In/Out):15/55°C</b>						
Heating Capacity Range (kW)	2.6~5.3	3.7~7.4	5.2~10.2	6.6~13.2	7.2~16.2	8.8~19.6
COP Range	3.53~4.64	3.52~4.69	3.55~4.71	3.54~4.67	3.54~4.67	3.50~4.66
Heated water output (L/H)	114	159	219	283	348	421
<b>Cooling Condition - Ambient Temp. (DB/WB):35/24°C, Water Temp. (In/Out):12/7°C</b>						
Cooling Capacity Range (kW)	1.7~4.2	2.4~5.8	3.3~8.2	4.3~10.8	5.6~14.1	6.9~17.0
EER Range	3.06~3.20	2.65~3.04	2.67~3.06	2.71~3.10	2.62~3.11	2.62~3.12

\*Seasonal co-efficient of performance

Model		IG4-MP1-A1	IG6-MP1-A1	IG8-MP1-A1	IG10-MP1-A1	IG12-MP1-A1	IG16-MP1-A1
<b>Space Heating (According to EN14825:2022)</b>							
Average Climate Water Outlet 35°C	Rated heat output (kW)	4.19	5.82	7.89	9.95	12.2	16.01
	Seasonal Space Heating Energy Efficiency (ηs)	198.1%	182.7%	181.0%	182.9%	186.80%	189.9%
	Seasonal Space Heating Energy Efficiency (SCOP)	5.03	4.64	4.60	4.65	4.74	4.82
	ErP Level	A+++	A+++	A+++	A+++	A+++	A+++
Average Climate Water Outlet 55°C	Rated heat output (kW)	4.15	5.59	8.70	9.23	12.16	15.80
	Seasonal Space Heating Energy Efficiency (ηs)	144.5%	136.0%	137.0%	131.9%	142.10%	140.00%
	Seasonal Space Heating Energy Efficiency (SCOP)	3.69	3.48	3.50	3.37	3.63	3.57
	ErP Level	A++	A++	A++	A++	A++	A++
<b>Technical Data</b>							
Power supply		230V/1Ph/50Hz/60Hz					
Max. power input (kW)		2.5	3.1	4.1	5.2	7.1	7.8
Max. current (A)		11.5	14.2	18.8	23.8	32.5	35.7
Nominal running current (A)		6.59	9.98	13.5	17.5	21.3	28.8
Fuse or circuit breaker (A)		16	20	25	32	40	40
Minimum power cable diameter mm²		2.5mm²	2.5mm²	4mm²	6mm²	6mm²	6mm²
EN14825:2022 Average Climate Water Outlet 35°C	Sound pressure level (dB(A)) at 1 meter	35	44	43	45	41	43
	Sound power level (dB(A))	49	58	57	59	57	58
Unit connection diameter, pipework (mm)		DN25	DN25	DN25	DN25	DN25	DN32
Water Flow L/min		17.16	23.83	32.66	42.50	52.16	68.80
Pump head after unit (m) based on optimal flow rate		4.9	6	4.5	2.8	6	3
Minimum water volume (L)		20	30	40	50	60	80
Net Weight (kg)		95	112	120	138	165	220
Unit size (W*D*H) (mm)		1080×440×761	1080×460×820	1080×460×960	1080×480×1060	1080×480×1372	1160×480×1580
Packing size (W*D*H) (carton)		1105×470×900	1100×490×960	1100×490×1110	1100×500×1210	1100×500×1510	1200×510×1720
Refrigerant		R290/0.5kg	R290/1.0kg	R290/0.95kg	R290/1.45kg	R290/1.3kg	R290/1.6kg
Operation Ambient Temp (°C)		-25~43°C					
Operating water temperature (°C) (DHW)		28~65°C					
Operating water temperature (°C) (Heating)		15~75°C					
<b>Accreditations</b>							
ENA Status		Connect & Notify			Apply to Connect		
ENA Ref.		INSTA/11103/V1/A2	INSTA/10989/V1/A4	INSTA/10990/V1/A3	INSTA/11104/V1/A2	INSTA/11105/V1/A2	INSTA/11106/V1/A2
Quiet Mark		Approved			N/A		Approved
MCS Ref.		MCS HP0411/04	MCS HP0411/01	MCS HP0411/02	MCS HP0411/05	MCS HP0411/03	MCS HP0411/06