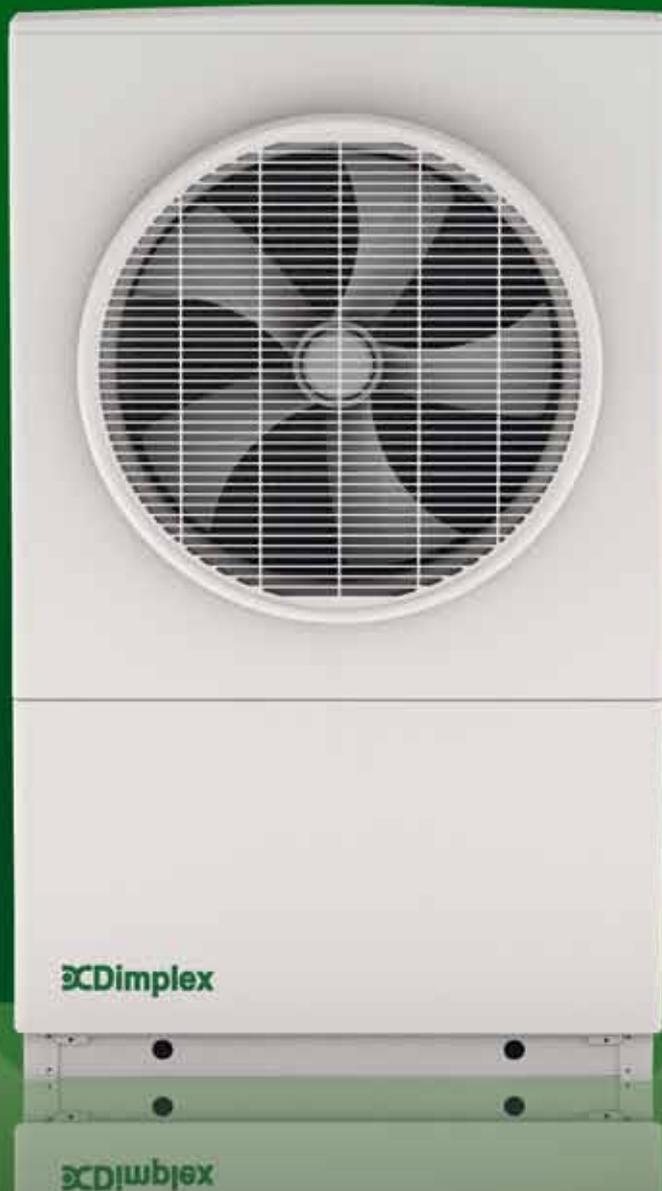


DC Dimplex® A Class

A Class of its own



DC Dimplex renewables®
A world of expertise

Dimplex® A Class

Complete system packages

Dimplex A Class comes in a range of pre-configured, system package options. Carefully specified for both new build and existing homes, these include all ancillary parts needed for a quick and hassle-free installation.



dimplex

An endless list of unique product features

A

Outstanding performance and efficiency

B

Dimplex A Class is designed specifically to maximise year-round heating system efficiency, no matter the weather conditions. It outperforms the UK's leading heat pumps and the efficiency assumptions in the industry best-practice Heat Emitter Guide. As a result, Dimplex A Class will achieve a higher Seasonal Performance Factor (SPF) than other heat pumps at similar water flow temperatures. And better efficiency means lower running costs and a faster payback for the homeowner.



High output, high temperature

Dimplex A Class delivers full heat output, even at air temperatures as low as -7°C and at high water flow temperatures. It also meets the requirements of the MIS3005 '100% sizing rule', even for properties requiring design temperature heat loads of up to 15kW, sparing homeowners the expense of upsizing. Plus, while many heat pumps can only heat water to 55°C , Dimplex A Class has a maximum flow temperature of 65°C . So it can meet all the domestic hot water requirements without reliance on costly electrical backup. And it can still do this even when the outside temperature is unusually low, so customers never have to worry about unexpectedly high running costs or running out of hot water.

Respectable efficiency and no loss of heating capacity at higher water temperatures also mean that where it is not cost-effective or feasible to upgrade existing radiators, A Class can still provide a viable solution. In many instances, A Class can be paired with existing radiators without the need for resizing and still provide an attractive annual saving when compared with oil or LPG.





Sophisticated heating made simple

The A Class Controller runs the complete home heating system: the A Class heat pump, room and water temperatures, as well as timings, in up to four heating zones. So it's ideal for large and even mixed installations. There's no need for a separate heating thermostat, keeping costs to a minimum. It automatically uses the lowest possible amount of energy to deliver target temperatures, further lowering running costs. Plus, it comes pre-configured with all default settings, so minimal system set-up is required, helping to make installation fast and efficient.



Innovative technology

Dimplex A Class uses market-leading Copeland Scroll™ compressor technology, optimised for heating performance and efficiency in a European climate. Its variable speed inverter drive optimises system efficiency, reducing running costs and environmental impact. Enhanced Vapour Injection (EVI) technology extends the operating envelope of the refrigeration cycle, for a higher performance while using less energy.

The result: improved seasonal efficiency, reduced running costs, higher output and higher temperatures.





Complete System Packages

Dimplex A Class comes in a range of pre-packaged options, carefully specified for both new build and existing homes, with everything needed for a quick and hassle-free installation. Packages combine A Class with the new EC-Eau Smart hot water cylinders and for a fully integrated, high-efficiency, low-carbon heating system, just add SmartRad. For the ultimate Dimplex renewable system integrate a A Class system with solar thermal panels that use solar energy to heat the hot water cylinder to reduce running costs even further and/or add a Dimplex solar PV system which produces electricity from daylight to offset some of the heat pump's electrical power.



Designed for the UK, made in the UK

Dimplex A Class is our first heat pump specifically engineered to deliver optimal performance at typical UK winter temperatures (-2°C to 10°C). It's fully operational at temperatures as low as -15°C, ensuring full compliance with MIS 3005 design requirements. Plus it's manufactured in the UK too. So, as well as maximising savings and minimising environmental impact, it's supporting UK industry and employment.





Dimplex A Class

MODEL		A12M	A16M
DESIGN			
Degree of protection according to EN 60 529 for a compact unit or heating element		IP 24	IP 24
Installation location		Outdoors	
PERFORMANCE DATA			
Operating temperature limits:		Min. / Max.	
Heating water flow and return temperature	°C	25 / 65	25 / 65
Outside air temperature	°C	-20 / 35	-20 / 35
Seasonal Performance Factor (SPF) for Under floor at 35°C*		3.9	3.9
Seasonal Performance Factor (SPF) for Radiators at 55°C*		3.6	3.6
Heating water temperature difference at standard rating condition	A7 W35 [†] K	5	5
Heat output/CoP	at A7 W35 [†] kW/ ---	12 / 4.7	12 / 4.7*
	at A-2 W35 [†] kW/ ---	12 / 3.5	15.5 / 3.2
	at A-7 W35 [†] kW/ ---	12 / 3	14.3 / 3
	at A7 W55 [†] kW/ ---	12 / 3	12 / 3*
	at A-2 W55 [†] kW/ ---	12 / 2.5	15.6 / 2.4
	at A-7 W55 [†] kW/ ---	12.0 / 2.2	15.3 / 2.2
	at A7 W65 [†] kW/ ---	12.0 / 2.5	12.0 / 2.5*
	at A-2 W65 [†] kW/ ---	12.0 / 2.0	15.0 / 1.99
	at A-7 W65 [†] kW/ ---	12.0 / 1.8	15.0 / 1.8
Sound power level [‡]	dB(A)	64	64
Heating water flow rate @ A7 W35 (nominal)	m ³ /h	2.1	2.1
Refrigerant; total filling weight	Type/kg	R410A / 2.0	R410A / 2.0
Water capacity of stainless steel heat exchanger	litre	1	1
DIMENSIONS, CONNECTIONS AND WEIGHT			
Device dimensions without connections	HxWxL mm	1571 x 932 x 401	1571 x 932 x 401
Physical volume	m ³	0.59	
Device connections to heating system	inch	1" ext. thread	
Weight of the transportable unit(s) excluding packaging	kg	130	130
ELECTRICAL CONNECTION (HEAT PUMP)			
Nominal voltage; fuse protection	V/A	230 / C 40	230 / C 40
Nominal power consumption A7 W35	kW	2.6	2.6
Maximum current	A	30	35
Nominal current A7 W35/cosφ	A/---	11 / 0.98	11 / 0.98
Power input of integral fan @ A7 W35	W	60	60
OTHER DESIGN CHARACTERISTICS			
Defrosting		Automatic	
Type of defrosting		Reverse Cycle	
Heating water in device protected against freezing		Yes	
Controller location		Indoor	

+ Calculated to EN15316 excluding hot water.
[†] These data characterise the size and performance of the system according to EN 14511 with clean heat exchangers. Abbreviations have the following meaning, e.g. A2 / W35: outside temperature 2°C and heating water supply temperature 35°C.
[‡] According to EN 12102.
* Performance at this point is optimised to match the building heat load and maximise the Seasonal Performance Factor.
NOTE: Provisional data only, subject to confirmation at MCS certification.