

Gas condensing boiler Technical data book D2CNL-A1A



D2CNL024A1AA

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1 Features

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Supremely compact gas condensing wall mounted boiler

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- › Easy to service: all parts are accessible by only removing the front panel
- › Very compact unit and flexible in use: possible to install in nearly all room conditions (inside the house as well as outside) thanks to freeze protection for water piping



2 Specifications

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Technical specifications					D2CNL024A1A	
Gas	Supply pressure	Greece			G20 (20 mbar)	
		Italy			G20 (20 mbar)	
		Portugal			G20 (20 mbar)	
		Spain			G20 (20 mbar)	
	Category	Greece			I2H	
		Italy			I2H	
		Portugal			I2H	
		Spain			I2H	
	Consumption (G20)	Min	m³/h		0.40	
		Max	m³/h		2.50	
NOx class					6	
NOx level (G20)					42	
Central heating	Heat input Qn (net calorific value)	Nom	Min	kW	4.0	
			Max	kW	23.5	
	Heat input Qn (gross calorific value)	Nom	Min	kW	4.4	
			Max	kW	26.1	
	Output Pn at 80/60°C	Min	kW		3.8	
			Nom		22.8	
	Output Pnc at 50/30°C	Min	kW		4.4	
			Nom		24.0	
	Output at 37/30°C	Nom	kW		4.4	
	Factory setting	Output	Nom	kW		24
	Water pressure (PMS)	Max	bar		3	
	Water temperature	Max	°C		100	
	Efficiency full load	Net calorific value	%		97	
			Gross calorific value		87	
	Efficiency part load 30% Qa	Net calorific value	%		109	
			Gross calorific value		98	
	Operation range	Min	°C		30	
			Max	°C		80
	Domestic hot water	Heat input (net calorific value) Qnw		Nom	Min	kW
			Max		kW	25.5
Heat input (gross calorific value) Qnw		Nom	Min	kW	4.4	
			Max	kW	28.3	
Domestic hot water threshold				l/min		
Water flow		Flow rate D (EN13203)	Max	l/min		12.0
Domestic hot water	Temperature	Max	°C		65	
			Factory setting		50	
	Operation range	Min	°C		35	
			Max	°C		60
Supply air	Connection			mm		
	Concentric			Yes		
Flue gas	Temperature	Max	°C		81	
	Connection			mm		
	Length 2x DN80	Max	m		115	
	Length DN60/100	Max	m		11	
	Mass flow (G20)	Max	kg/h		1.7	
Condensate drain hose			DN			
Condensate drain hose			inch			
Titanium White (Ral9003)						
Powder painted galvanised steel plate						
Dimensions	Unit	Height	Casing	mm	590	
					400	
					256	
	Packed unit	Height		mm	350	
					490	
					680	

2 Specifications

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Technical specifications				D2CNL024A1A			
Weight	Unit	Empty	kg	27			
		Full	kg	31			
Packing	Material	Carton I EPS					
Heat exchanger	Quantity		1				
	Body material		Aluminium				
	Domestic	Quantity	1				
	hot water	Tube material	Stainless steel				
Pump	Operating pressure		bar	10			
	Nr of speeds		PWM				
	Power input		W	60			
	Maximum pumping height		m	7.5			
Expansion vessel	Volume		l	7			
	Max. water pressure		bar	3			
	Pre pressure		bar	1			
Water circuit - Central heating	Piping connections diameter		inch	3/4" (male)			
	Piping connections diameter		mm	19			
Water circuit - Central heating	Pressure	Heating	Max.	bar	3		
	Safety valve		bar	3			
	Air purge valve		Yes				
	Drain valve / fill valve		Yes				
	Shut off valve		Yes				
	Water circuit - Domestic hot water side	Piping connections	Cold water in / Hot water out	inch	1/2" (male)		
Diameter			mm	13			
Sound power level	Nom.			dBa	51.0		
General	Supplier/	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium			
	Manufacturer details	Name or trademark		Daikin Europe N.V.			
	Product description	Model identifier		D2CNL024			
		Condensing boiler		Yes			
		Low-temperature boiler		No			
		B1 boiler		No			
		Cogeneration space heater		No			
		Combination heater		Yes			
 Domestic hot water heating	General	Declared load profile		XL			
		Qelec (Daily electricity consumption)	kWh	0.180			
		ηwh (water heating efficiency)	%	87			
		Qfuel (Daily fuel consumption)	kWh	22.080			
		Water heating energy efficiency class		A			
		AEC (Annual electricity consumption)	kWh	40			
		AFC (Annual fuel consumption)	Gj	17			
		 Space heating	General	Prated	kW	23	
				ηs (Seasonal space heating efficiency)	%	93	
P1 (Usefull heat output at 30% of rated heat output and low-temp regime)	kW			7.7			
η1 (Useful efficiency at 30% of rated heat output and low-temp regime)	%			98.2			
η4 (Useful efficiency at rated heat output and high-temp regime)	%			87.9			
P4 (Useful heat output at rated heat output and high-temp regime)	kW			22.7			
Seasonal space heating eff. class				A			
Qhe Annual energy consumption (final energy)	kWh			11,355			
Qhe Annual energy consumption (GCV)	Gj			37			
Auxiliary electricity	elmax (at full load)			kW	0.041		
Other	ηson (seasonal space heating energy eff. in active mode)			%	97		
Auxiliary electricity consumption	elmin (at part load)			kW	0.016		
	Psb (Standby mode)			kW	0.003		
Other	NOx emission	mg/kWh	42				

2 Specifications

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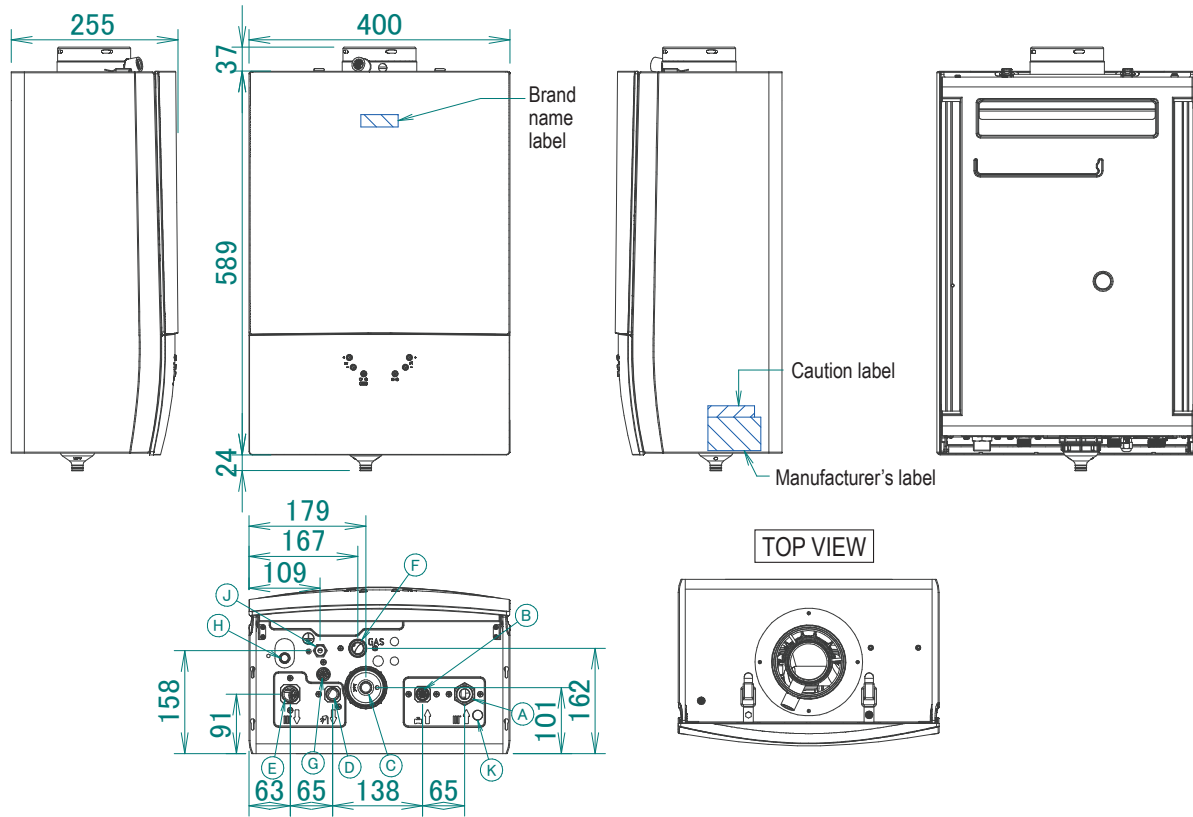
Technical specifications				D2CNL024A1A
Space heating	Other	Pstby (standby heat loss)	kW	0.053

Electrical specifications				D2CNL024A1A
Power supply	Phase			1~
	Frequency	Hz		50
	Voltage	V		230
	Voltage range	%		10
		%		10
IP class	IP			IPX4D
Electrical power consumption	Max.	W		100
	Standby	W		3

3 Dimensional drawings

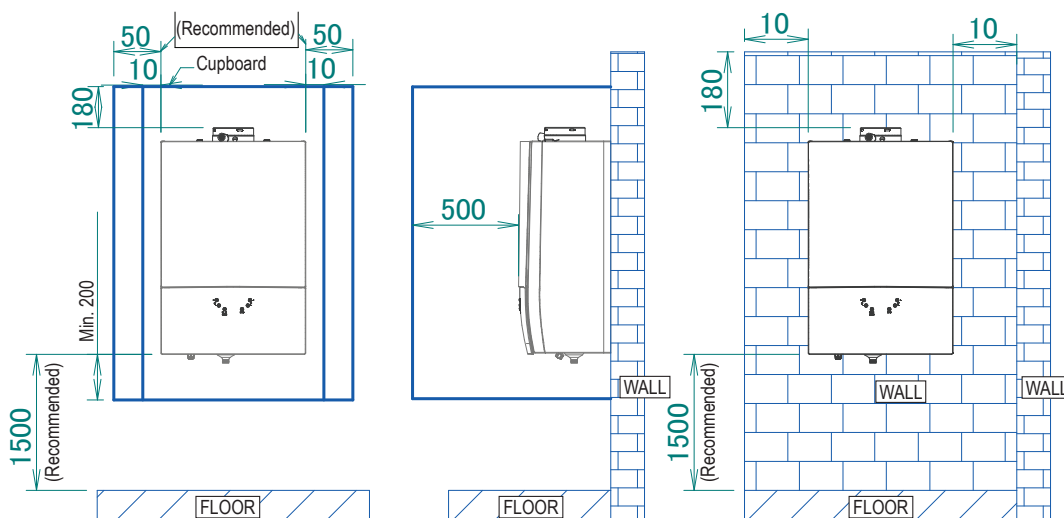
3 - 1 Dimensional Drawings

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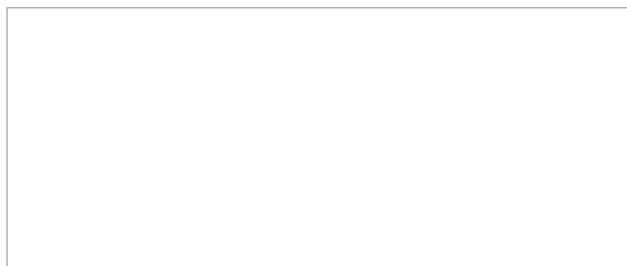


Bottom connections:

(A)	Central heating inlet connection	(3/4")	(F)	Gas pipe connection	(3/4")
(B)	Domestic cold water inlet connection	(1/2")	(G)	Filling valve	
(C)	Condensate trap discharge		(H)	Safety valve discharge	
(D)	Domestic hot water outlet connection	(1/2")	(J)	Power cable	
(E)	Central heating outlet connection	(3/4")	(K)	Drain valve	



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