

Gas condensing boiler

Technical Data

D2CND-A1A / D2CND-A4A / D2TND-A4A

D2CND024A1AB
D2CND028A1AB
D2CND035A1AB
D2CND024A4AB
D2CND028A4AB
D2CND035A4AB
D2TND012A4AB
D2TND018A4AB
D2TND024A4AB
D2TND028A4AB
D2TND035A4AB



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D2CND-A1A / D2CND-A4A / D2TND-A4A

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1 Features

1 - 1 D2TND-A4A, D2CND-A4A, D2CND-A1A

Supremely compact gas condensing heating only boiler

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- › 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
- › Easy to service: all parts are accessible by only removing the front panel
- › High heating efficiency up to 108%
- › High modulating range 1:8 : the capacity is adapted based on the required heat load of the house from 3 to 24 kW
- › Combine it with solar heating for even better energy efficiency



Online
controller via
app

2 Specifications

Technical specifications				D2CND024A1A		D2CND028A1A		D2CND035A1A		
Gas	Supply pressure	Austria		G20 (20 mbar) / G31 (50 mbar)						
		Belgium		G20 (20 mbar) / G25 (25 mbar) / G31 (37 mbar)						
		Czech Republic		G20 (20 mbar) / G31 (30 mbar) / G31 (37 mbar)						
		Estonia		G20 (20 mbar)						
		France		G20 (20 mbar) / G25 (25 mbar) / G31 (37 mbar)						
		Greece		G20 (20 mbar) / G31 (50 mbar)						
		Hungaria		G20 (25 mbar)						
		Italy		G20 (20 mbar) / G31 (37 mbar)						
		Latvia		G20 (20 mbar)						
		Lithuania		G20 (20 mbar) / G31 (37 mbar)						
		Poland		G20 (20 mbar) / G31 (37 mbar)						
		Portugal		G20 (20 mbar) / G31 (37 mbar)						
		Romania		G20 (20 mbar) / G31 (30 mbar)						
		Slovakia		G20 (20 mbar) / G31 (37 mbar) / G31 (50 mbar)						
		Slovenia		G20 (20 mbar) / G31 (37 mbar)						
		Spain		G20 (20 mbar) / G31 (37 mbar)						
		United Kingdom		G20 (20 mbar) / G31 (37 mbar)						
	Category	Austria		II2H3P						
		Belgium		I2N / II2E+3P						
		Czech Republic		II2H3P						
		Estonia		I2H						
		France		I2N / II2H3P / II2E+3P						
		Greece		I2N / II2H3P						
		Hungaria		-	I2H					
		Italy		II2H3P						
		Latvia		I2H						
		Lithuania		II2H3P						
		Poland		I2N / II2E3P						
		Portugal		I2N / II2H3P						
		Romania		I2E / II2H3P						
		Slovakia		II2H3P						
		Slovenia		I2N / II2H3P						
		Spain		I2N / II2H3P						
		United Kingdom		II2H3P						
Con- sumption (G20)	Min	m³/h	0.31	0.511						
	Max	m³/h	2.48	2.89		3.63				
Gas	Con- sumption (G25)	Min	m³/h	0.36	0.59					
		Max	m³/h	2.89	3.32		4.19			
	Con- sumption (G31)	Min	m³/h	0.12	0.2					
		Max	m³/h	0.96	1.1		1.38			
	NOx class			6						
	NOx level (G20)			mg/ kWh	22	36.3		35.5		

2 Specifications

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Technical specifications					D2CND024A1A	D2CND028A1A	D2CND035A1A	
Central heating	Heat input Qn (net calorific value)	Nom	Min Max	kW kW	2.9 23.5	4.8 27	34	
	Heat input Qn (gross calorific value)	Nom	Min Max	kW kW	3.2 26.1	5.3 30	37.8	
	Output Pn at 80/60°C	Min Nom		kW kW	2.8 22.8	4.6 26.3	33.2	
	Output Pnc at 50/30°C	Min Nom		kW kW	3.1 24	5.2 28.2	35	
	Output at 37/30°C	Nom		kW	7.6	8.8	11.1	
	Factory setting	Output	Nom	kW	24	28	35	
	Water pressure (PMS)	Max		bar	3			
	Water temperature	Max		°C	100			
	Efficiency	Net calorific value		%	97.9	-		
		Gross calorific value		%	87.3	-		
	Efficiency full load heat input	Net calorific value		%	96.9	97.5	97.6	
		Gross calorific value		%	87.3	87.8		
	Efficiency part load 30% Qa	Net calorific value		%	108.7	108.9	108.7	
		Gross calorific value		%	97.9	98.06	97.88	
	Operation range	Min Max		°C °C	30 80			
	Domestic hot water	Heat input (net calorific value) Qnw	Nom	Min Max	kW kW	2.9 23.5	4.8 29.5	34
		Heat input (gross calorific value) Qnw	Nom	Min Max	kW kW	3.2 26.1	5.3 32.7	37.7
		Domestic hot water threshold			l/min	2		
		Water flow	Flow rate D (EN13203) (40/10°C)	Max	l/min	12	14	16
Temperature		Max		°C	60			
		Factory setting		°C	50			
Operation range		Min		°C	35			
		Max		°C	60			
Heat losses		Stand-by boiler Ps			kW	0.057	0.065	
Supply air		Connection Concentric			mm	100 Yes		

2 Specifications

Technical specifications					D2CND024A1A	D2CND028A1A	D2CND035A1A
Flue gas	Tempera- Max		ture	°C	90	76.4	81.7
	Length	C53	Max	m	112	108	
	Length	C13	Max	m	8	7	
	DN60/100	C33	Max	m	8	7.6	
	Length	C13	Max	m	26	33.6	
	DN80/125	C33	Max	m	26	34.4	
	Connection			mm	60		
	Mass flow Max (G20)			kg/h	38.7	55.7	
	Mass flow Max (G25)			kg/h	-	39.3	49.6
	Mass flow Max (G31)			kg/h	36	43.3	54.7
Condensate drain hose			DN	20			
Condensate drain hose			inch	0.79			
Casing	Colour				Titanium White (Ral9003)		
	Material				Sheet metal	Powder painted galvanised steel plate	
Dimensions	Unit	Height	Casing	mm	590	690	
			Minimum installa- tion height	mm	970	-	
			Width	mm	400	440	
	Packed unit	Depth	mm	256	295		
		Height	mm	350	790		
		Width	mm	490	525		
		Depth	mm	680	385		
Weight	Unit	Empty	kg	27	37		
		Full	kg	27	-		
	Boiler	Empty	kg	27	-		
	Packed unit	Empty	kg	32	1		
Packing	Material				Carton / EPS		
	Weight				4.5	3.5	
Heat exchanger	Quantity				1		
	Body material				Aluminium		
	Domestic Quantity				1		
	hot water Tube material				Stainless steel		
	Operating pressure			bar	-	10	
Pump	Nr of speeds				PWM		
	Power input			W	60		
	Maximum pumping height			m	7.5		
Gas valve	Type				Electronic	-	
Expansion vessel	Volume				l	8	10
	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		
	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 connec- tions	Cold water in / Hot water out			1/2" (male)		
		Diameter	mm		12.7		
Sound power level	Nom.		dB(A)	49	-		
Sound pressure level	Nom.		dB(A)	-	49	52.83	
General	Supplier/ Manu- facturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
		Name or trademark			Daikin Europe N.V.		
	Product descrip- tion	Model identifier			D2CND024	-	
		Condensing boiler			Yes		
		Low-temperature boiler			No		
		B1 boiler			No		
		Cogeneration space heater			No		
		Combination heater			No		
		Combination heater is able to work only during off-peak hours			No		

2 Specifications

Technical specifications				D2CND024A1A	D2CND028A1A	D2CND035A1A			
Domestic hot water heating	General	Declared load profile		XL					
		Qelec (Daily electricity consumption)	kWh	0.166		0.153		0.204	
		ηwh (water heating efficiency)	%	84				83	
		Qfuel (Daily fuel consumption)	kWh	23.35		23.25		30.26	
		Water heating energy efficiency class		A					
		AEC (Annual electricity consumption)	kWh	36		33.5		44.8	
		AFC (Annual fuel consumption)	Gj	18		17.68		23	
		Qref (reference energy of the kWh declared load profile)		19.07		-			
Space heating	General	Prated	kW	23		26.3		33.2	
		ηs (Seasonal space heating efficiency)	%	93					
		P1 (Usefull heat output at 30% of rated heat output and low-temp regime)	kW	7.7		8.8		11.1	
		ηl (Useful efficiency at 30% of rated heat output and low-temp regime)	%	97.9		98.1		97.9	
		η4 (Useful efficiency at rated heat output and high-temp regime)	%	87.3		87.8		87.9	
		P4 (Useful heat output at rated heat output and high-temp regime)	kW	22.8		26.3		33.2	
Space heating	General	Seasonal space heating eff. class		A					
		Qhe Annual energy consumption (final energy)	kWh	11,016		13,309		16,277	
		Qhe Annual energy consumption (GCV)	Gj	39.66		47.91		58.6	
	Auxiliary electricity consumption	elmax (at full load)	kW	0.0350		0.0360		0.0550	
		Other	ηson (seasonal space heating energy eff. in active mode)	%	93		96.52		96.38
	Auxiliary electricity consumption	elmin (at part load)	kW	0.01		0.0100		0.0110	
		Psb (Standby mode)	kW	0.004		0.0030			
		Other	NOx emission	mg/kWh	22		36.3		35.5
			Pstby (standby heat loss)	kW	0.057		0.065		

Electrical specifications				D2CND024A1A	D2CND028A1A	D2CND035A1A	
Power supply	Phase			1~			
	Frequency	Hz		50			
	Voltage	V		230			
	Voltage range	%		10			
		%		10			
IP class	IP		IPX5D				
Electrical power consumption	Max.	W	87		92.7		112.3
	Standby	W	3.6		2.7		

2 Specifications

Technical specifications				D2CND024A4A		D2CND028A4A		D2CND035A4A	
Gas	Supply pressure	Austria		G20 (20 mbar) / G31 (50 mbar)					
		Belgium		G20 (20 mbar) / G25 (25 mbar) / G31 (37 mbar)					
		Czech Republic		G20 (20 mbar) / G31 (30 mbar) / G31 (37 mbar)					
		Estonia		G20 (20 mbar)					
		France		G20 (20 mbar) / G25 (25 mbar) / G31 (37 mbar)					
		Germany		G20 (20 mbar) / G31 (50 mbar)					
		Greece		G20 (20 mbar) / G31 (50 mbar)					
		Hungaria		G20 (25 mbar)					
		Italy		G20 (20 mbar) / G31 (37 mbar)					
		Latvia		G20 (20 mbar)					
		Lithuania		G20 (20 mbar) / G31 (37 mbar)					
		Poland		G20 (20 mbar) / G31 (37 mbar)					
		Portugal		G20 (20 mbar) / G31 (37 mbar)					
		Romania		G20 (20 mbar) / G31 (30 mbar)					
		Slovakia		G20 (20 mbar) / G31 (37 mbar) / G31 (50 mbar)					
		Slovenia		G20 (20 mbar) / G31 (37 mbar)					
		Spain		G20 (20 mbar) / G31 (37 mbar)					
		United Kingdom		G20 (20 mbar) / G31 (37 mbar)					
	Category	Austria		II2H3P					
		Belgium		I2N / II2E+3P					
		Czech Republic		II2H3P					
		Estonia		I2H					
		France		I2N / II2H3P / II2E+3P					
		Germany		I2E / I2N / I3P / I2ELL					
		Greece		I2N / II2H3P					
		Hungaria		-	I2H				
		Italy		II2H3P					
		Latvia		I2H					
		Lithuania		II2H3P					
		Poland		I2N / II2E3P					
		Portugal		I2N / II2H3P					
		Romania		I2E / II2H3P					
		Slovakia		II2H3P					
		Slovenia		I2N / II2H3P					
		Spain		I2N / II2H3P					
		United Kingdom		II2H3P					
Gas	Con- sumption (G20)	Min	m³/h	0.31	0.511				
		Max	m³/h	2.48	2.89		3.63		
	Con- sumption (G25)	Min	m³/h	0.36	0.59				
		Max	m³/h	2.89	3.32		4.19		
	Con- sumption (G31)	Min	m³/h	0.12	0.2				
		Max	m³/h	0.96	1.1		1.38		
	NOx class			6					
	NOx level (G20)			mg/ kWh	22	36.3		35.5	

2 Specifications

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Technical specifications					D2CND024A4A	D2CND028A4A	D2CND035A4A	
Central heating	Heat input Qn (net calorific value)	Nom	Min Max	kW kW	2.9 23.5	4.8 27	34	
	Heat input Qn (gross calorific value)	Nom	Min Max	kW kW	3.2 26.1	5.3 30	37.8	
	Output Pn at 80/60°C	Min Nom		kW kW	2.8 22.8	4.6 26.3	33.2	
	Output Pnc at 50/30°C	Min Nom		kW kW	3.1 24	5.2 28.2	35	
	Output at 37/30°C	Nom		kW	7.6	8.8	11.1	
	Factory setting	Output	Nom	kW	24	28	35	
	Water pressure (PMS)	Max		bar	3			
	Water temperature	Max		°C	100			
	Efficiency	Net calorific value		%	97.9	-		
		Gross calorific value		%	87.3	-		
	Efficiency full load heat input	Net calorific value		%	96.9	97.5	97.6	
		Gross calorific value		%	87.3	87.8		
	Efficiency part load 30% Qa	Net calorific value		%	108.7	108.9	108.7	
		Gross calorific value		%	97.9	98.06	97.88	
	Operation range	Min Max		°C °C	30 80			
	Domestic hot water	Heat input (net calorific value) Qnw	Nom	Min Max	kW kW	2.9 23.5	4.8 29.5	34
		Heat input (gross calorific value) Qnw	Nom	Min Max	kW kW	3.2 26.1	5.3 32.7	37.7
		Domestic hot water threshold			l/min	2		
Water flow		Flow rate D (EN13203) (40/10°C)	Max	l/min	12	14	16	
Temperature		Max		°C	60			
		Factory setting		°C	50			
Operation range		Min		°C	35			
Domestic hot water		Operation range	Max		°C	60		
Heat losses		Stand-by boiler	Ps		kW	0.057	0.065	
Supply air	Connection			mm	100			
	Concentric				Yes			

2 Specifications

Technical specifications					D2CND024A4A	D2CND028A4A	D2CND035A4A	
Flue gas	Tempera- Max		°C		90	76.4	81.7	
	Length	C53	Max	m	112	108		
	2x DN80							
	Length	C13	Max	m	8	7		
	DN60/100	C33	Max	m	8	7.6		
	Length	C13	Max	m	26	33.6		
	DN80/125	C33	Max	m	26	34.4		
	Connection			mm	60			
	Mass flow	Max		kg/h	38.7	55.7		
	(G20)							
	Mass flow	Max		kg/h	-	39.3	49.6	
(G25)								
Mass flow	Max		kg/h	36	43.3	54.7		
(G31)								
Condensate drain hose			DN	20				
Condensate drain hose			inch	0.79				
Casing	Colour	Titanium White (Ral9003)						
	Material							
Dimensions	Unit	Height	Casing	mm	Sheet metal	Powder painted galvanised steel plate		
			Minimum installa-	mm	590	690		
			tion height		970	-		
		Width		mm	400	440		
		Depth		mm	256	295		
	Packed	Height		mm	350	790		
	unit	Width		mm	490	525		
		Depth		mm	680	385		
Weight	Unit	Empty		kg	27	37		
		Full		kg	27	-		
	Boiler	Empty		kg	27	-		
	Packed	Empty		kg	32	1		
	unit							
Packing	Material	Carton / EPS						
	Weight			kg	4.5	3.5		
Heat exchanger	Quantity	1						
	Body material	Aluminium						
	Domestic	Quantity	1					
	hot water	Tube material	Stainless steel					
		Operating pressure		bar	-	10		
Pump	Nr of speeds	PWM						
Pump	Power input	60						
	Maximum pumping height	7.5						
Gas valve	Type	Electronic						
Expansion vessel	Volume			l	8	10		
	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			
	Pressure	Heating	Max.	bar	3			
	Safety valve			bar	3			
	Air purge valve	Yes						
	Drain valve / fill valve	Yes						
	Shut off valve	No						
Water circuit - Domestic hot water side	Piping connec-	Cold water in / Hot water out	inch	1/2" (male)				
	tions	Diameter	mm	12.7				
Sound power level	Nom.			dB(A)	49	-		
Sound pressure level	Nom.			dB(A)	-	49	52.83	
General	Supplier/	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium			
	Manu-	Name or trademark			Daikin Europe N.V.			
	facturer							
	details							
	Product	Model identifier			D2CND024	-		
	descrip- tion	Condensing boiler			Yes			
		Low-temperature boiler			No			
		B1 boiler			No			
		Cogeneration space heater			No			
Combination heater			No					
Combination heater is able to work only during off-peak hours			No					

2 Specifications

Technical specifications				D2CND024A4A	D2CND028A4A	D2CND035A4A	
 Domestic hot water heating	General	Declared load profile		XL			
		Qelec (Daily electricity consumption)	kWh	0.166	0.153	0.204	
		ηwh (water heating efficiency)	%	84			
		Qfuel (Daily fuel consumption)	kWh	23.35	23.25	30.26	
		Water heating energy efficiency class		A			
		AEC (Annual electricity consumption)	kWh	36	33.5	44.8	
		AFC (Annual fuel consumption)	Gj	18	17.68	23	
				Qref (reference energy of the kWh declared load profile)	19.07	-	
 Space heating	General	Prated	kW	23	26.3	33.2	
		ηs (Seasonal space heating efficiency)	%	93			
		P1 (Usefull heat output at 30% of rated heat output and low-temp regime)	kW	7.7	8.8	11.1	
 Space heating	General	ηl (Useful efficiency at 30% of rated heat output and low-temp regime)	%	97.9	98.1	97.9	
		η4 (Useful efficiency at rated heat output and high-temp regime)	%	87.3	87.8	87.9	
		P4 (Useful heat output at rated heat output and high-temp regime)	kW	22.8	26.3	33.2	
		Seasonal space heating eff. class		A			
		Qhe Annual energy consumption (final energy)	kWh	11,016	13,309	16,277	
		Qhe Annual energy consumption (GCV)	Gj	39.66	47.91	58.6	
	Auxiliary electricity consumption	elmax (at full load)	kW	0.0350	0.0360	0.0550	
		Other	ηson (seasonal space heating energy eff. in active mode)	%	93	96.52	96.38
	Auxiliary electricity consumption	elmin (at part load)	kW	0.01	0.0100	0.0110	
		Psb (Standby mode)	kW	0.004	0.0030		
		Other	NOx emission	mg/kWh	22	36.3	35.5
Pstby (standby heat loss)	kW		0.057	0.065			
Electrical specifications				D2CND024A4A	D2CND028A4A	D2CND035A4A	
Power supply	Phase		1~				
	Frequency	Hz	50				
	Voltage	V	230				
	Voltage range	%	10				
		%	10				
IP class	IP		IPX5D				
Electrical power consumption	Max.	W	87	92.7	112.3		
	Standby	W	3.6	2.7			

2 Specifications

Technical specifications				D2TND012A4A	D2TND018A4A	D2TND024A4A	D2TND028A4A	D2TND035A4A
Gas	Supply pressure	Austria		G20 (20 mbar) / G31 (50 mbar)				
		Belgium		G20 (20 mbar) / G25 (25 mbar) / G31 (37 mbar)				
		Czech Republic		G20 (20 mbar) / G31 (30 mbar) / G31 (37 mbar)				
		Estonia		G20 (20 mbar)				
		France		G20 (20 mbar) / G25 (25 mbar) / G31 (37 mbar)				
		Germany		G20 (20 mbar) / G31 (50 mbar)				
		Greece		G20 (20 mbar) / G31 (50 mbar)				
		Hungary		G20 (25 mbar)				
		Italy		G20 (20 mbar) / G31 (37 mbar)				
		Latvia		G20 (20 mbar)				
		Lithuania		G20 (20 mbar) / G31 (37 mbar)				
		Poland		G20 (20 mbar) / G31 (37 mbar)				
		Portugal		G20 (20 mbar) / G31 (37 mbar)				
		Romania		G20 (20 mbar) / G31 (30 mbar)				
		Slovakia		G20 (20 mbar) / G31 (37 mbar) / G31 (50 mbar)				
		Slovenia		G20 (20 mbar) / G31 (37 mbar)				
		Spain		G20 (20 mbar) / G31 (37 mbar)				
		United Kingdom		G20 (20 mbar) / G31 (37 mbar)				
	Category	Austria		II2H3P				
		Belgium		I2N / II2E+3P				
		Czech Republic		II2H3P				
		Estonia		I2H				
		France		I2N / II2H3P / II2E+3P				
		Germany		I2E / I2N / I3P / I2ELL				
		Greece		I2N / II2H3P				
		Hungary		-			I2H	
		Italy		II2H3P				
		Latvia		I2H				
		Lithuania		II2H3P				
		Poland		I2N / II2E3P				
		Portugal		I2N / II2H3P				
		Romania		I2E / II2H3P				
		Slovakia		II2H3P				
		Slovenia		I2N / II2H3P				
		Spain		I2N / II2H3P				
		United Kingdom		II2H3P				
Gas	Con- sumption	Min	m ³ /h	0.31			0.511	
		Max	m ³ /h	1.18	1.8	2.48	2.89	3.63
	Con- sumption	Min	m ³ /h	0.36			0.59	
		Max	m ³ /h	1.38	2.09	2.89	3.32	4.19
	Con- sumption	Min	m ³ /h	0.12			0.2	
		Max	m ³ /h	0.46	0.69	0.96	1.1	1.38
	NOx class			6				
	NOx level (G20)			10	18	22	36	35.5

2 Specifications

2

Technical specifications					D2TND012A4A	D2TND018A4A	D2TND024A4A	D2TND028A4A	D2TND035A4A	
Central heating	Heat input Qn (net calorific value)	Nom	Min Max	kW kW	11.1	16.9	23.5	27	4.8 34	
	Heat input Qn (gross calorific value)	Nom	Min Max	kW kW	12.3	18.8	26.1	30	37.8	
	Output Pn at 80/60°C	Min Nom		kW kW	10.9	16.6	22.8	26.3	33.2	
	Output Pnc at 50/30°C	Min Nom		kW kW	12	18	24	28.2	35	
	Output at 37/30°C	Nom		kW	3.7	5.5	7.6	8.8	11.1	
	Factory setting	Output	Nom	kW	12	18	24	28	35	
	Water pressure (PMS)	Max		bar	3					
	Water temperature	Max		°C	100					
	Efficiency	Net calorific value		%	98.6	98.2	97.9	-		
		Gross calorific value		%	87.8	87.4	87.3	-		
	Efficiency full load	Net calorific value		%	97.5	97.1	96.9	97.5	97.6	
	heat input	Gross calorific value		%	87.8	87.4	87.3	87.8		
	Efficiency part load 30% Qa	Net calorific value		%	109.5	109	108.7	108.9	108.7	
		Gross calorific value		%	98.6	98.3	97.9	98.06	97.88	
	Operation range	Min Max		°C °C	30 80					
	Domestic hot water	Heat input (net calorific value) Qnw	Nom	Min Max	kW kW	11.1	16.9	25.3	29.5	34
		Heat input (gross calorific value) Qnw	Nom	Min Max	kW kW	12.3	18.1	26.1	32.7	37.7
		Temperature	Max		°C	60				
			Factory setting		°C	50				
Operation range		Min Max		°C °C	35 60					
Heat losses		Stand-by boiler Ps		kW	0.057			0.065		
Supply air		Connection Concentric		mm	100 Yes					
Flue gas	Temperature	Max		°C	90			76.4	81.7	
	Length 2x DN80	C53	Max	m	128			108		
	Length DN60/100	C13	Max	m	11			7		
		C33	Max	m	13			7.6		
	Length DN80/125	C13	Max	m	44			33.6		
		C33	Max	m	43			34.4		
	Connection			mm	60					
	Mass flow (G20)	Max		kg/h	38.7			55.7		
	Mass flow (G25)	Max		kg/h	-			39.3	49.6	
	Mass flow (G31)	Max		kg/h	36			43.3	54.7	
	Condensate drain hose			DN	20					
	Condensate drain hose			inch	0.79					

2 Specifications

Technical specifications				D2TND012A4A	D2TND018A4A		D2TND024A4A	D2TND028A4A	D2TND035A4A
Casing	Colour Material			Titanium White (Ral9003)					
				Sheet metal			Powder painted galvanised steel plate		
Dimensions	Unit	Height	Casing mm	590			690		
			Minimum installation height mm	970			-		
		Width	mm	400			440		
		Depth	mm	256			295		
	Packed unit	Height	mm	350			790		
		Width	mm	490			525		
		Depth	mm	680			385		
Weight	Unit	Empty	kg	27			1		
		Full	kg	27.0			-		
	Boiler	Empty	kg	26.5			-		
	Packed unit	Empty	kg	31			40		
Packing	Material				Carton			Carton / EPS	
	Weight	kg			4.5			3.5	
Heat exchanger	Quantity			1					
	Body material			Aluminium					
	Domestic hot water			Quantity			1		
	Tube material			Stainless steel			-		
Pump	Nr of speeds			PWM					
	Power input W			60					
	Maximum pumping height m			7.5					
Gas valve	Type			Electronic			-		
Expansion vessel	Volume l			8			10		
	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					
	Pressure Heating Max. bar			3					
	Safety valve bar			3					
	Air purge valve			Yes					
	Drain valve / fill valve			Yes			No		
	Shut off valve			Yes					
Water circuit - Domestic hot water side	Piping connections	Diameter mm	19			-			
Sound power level	Nom.		dBA	42	46	49	-		
Sound pressure level	Nom.		dBA	-			49.61	52.83	
General	Supplier/Manufacturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
		Name or trademark		Daikin Europe N.V.					
	Product description	Model identifier		D2TND012	D2TND018	D2TND024	-		
		Condensing boiler		Yes					
		Low-temperature boiler		No					
		B1 boiler		No					
		Cogeneration space heater		No					
		Combination heater		No					
		Combination heater is able to work only during off-peak hours		No					

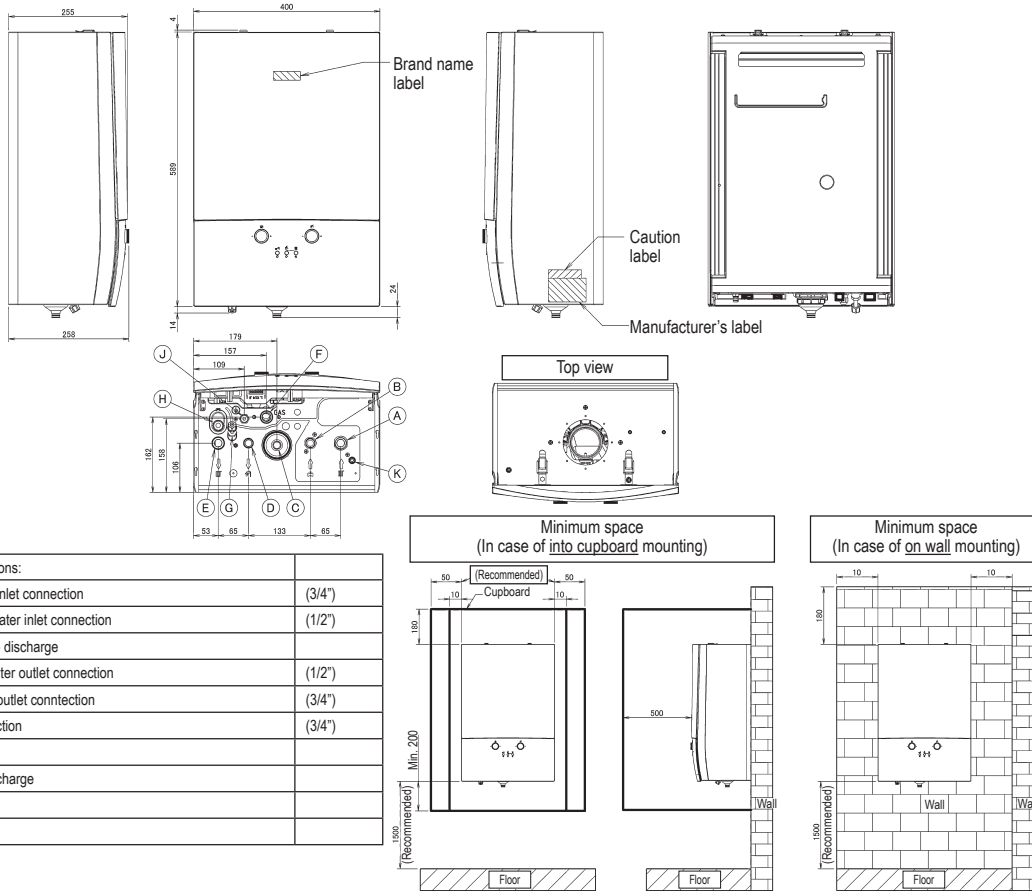
2 Specifications

Technical specifications				D2TND012A4A	D2TND018A4A	D2TND024A4A	D2TND028A4A	D2TND035A4A	
Space heating	General	Prated	kW	11	16	22.8	26.3	33.2	
		ηs (Seasonal space heating efficiency)	%	93					
		P1 (Usefull heat output at 30% of rated heat output and low-temp regime)	kW	3.6	5.6	7.7	8.8	11.1	
		η1 (Useful efficiency at 30% of rated heat output and low-temp regime)	%	98.6	98.2	97.9	98.06	97.88	
		η4 (Useful efficiency at rated heat output and high-temp regime)	%	87.8	87.4	87.3	87.8	87.89	
		P4 (Useful heat output at rated heat output and high-temp regime)	kW	10.8	16.4	22.8	26.3	33.2	
		Seasonal space heating eff. class		A					
		Qhe Annual energy consumption (final energy)	kWh	5,843	8,257	11,016	13,291	16,277	
		Qhe Annual energy consumption (GCV)	Gj	21.03	29.73	39.66	47.85	58.6	
		Auxiliary electric-ity consumption	elmax (at full load)	kW	0.0130	0.0200	0.0350	0.0360	0.0550
	Other	ηson (seasonal space heating energy eff. in active mode)	%	97		96	96.52	96.38	
	Auxiliary electric-ity consumption	elmin (at part load)	kW	0.0090		0.01	0.0100	0.0110	
		Psb (Standby mode)	kW	0.004			0.0030		
		Other	NOx emission	mg/kWh	10	18	22	36.3	36
			Pstby (standby heat loss)	kW	0.057			0.065	
	Electrical specifications				D2TND012A4A	D2TND018A4A	D2TND024A4A	D2TND028A4A	D2TND035A4A
Power supply	Phase		1~						
	Frequency	Hz	50						
	Voltage	V	230						
	Voltage range	%	10						
		%	10						
IP class	IP		IPX5D						
Electrical power consumption	Max.	W	87			92.7	112.3		
	Standby	W	3.6			2.7			

3 Dimensional drawings

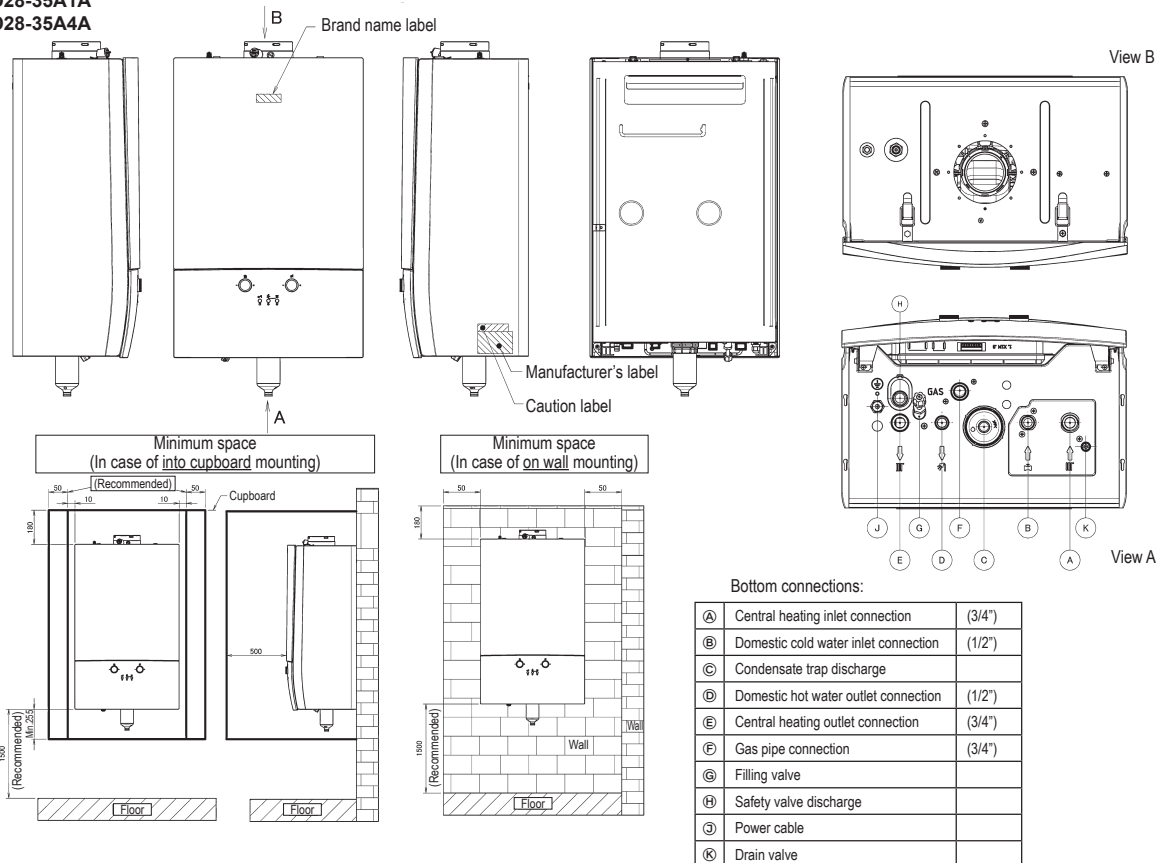
3 - 1 Dimensional Drawings

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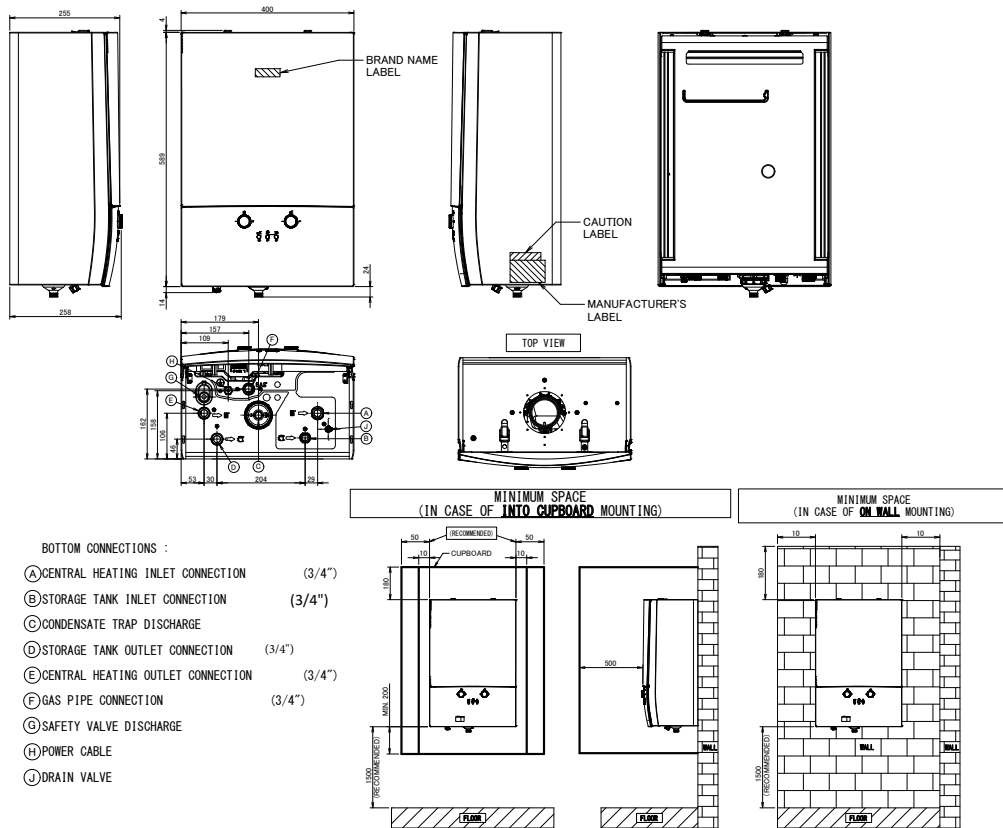
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3 Dimensional drawings

3 - 1 Dimensional Drawings

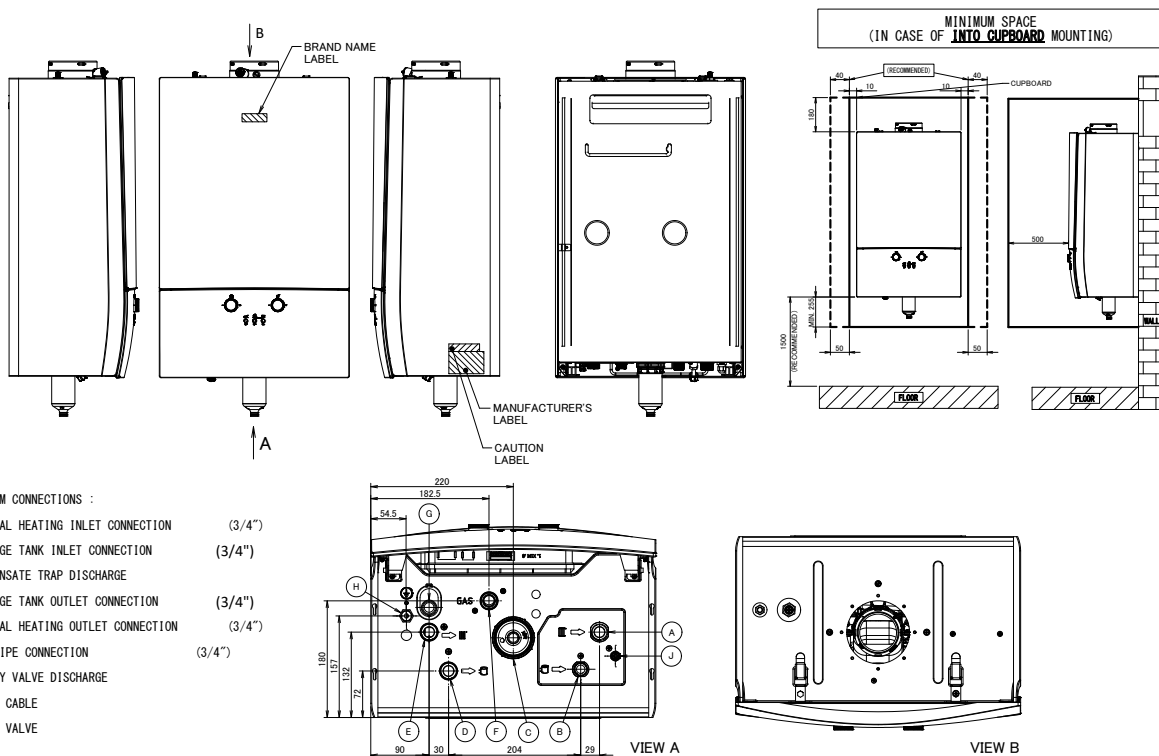
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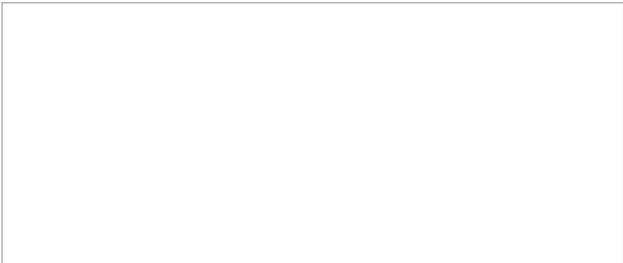


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