

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		
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					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		°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 (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-	mm	970	-		
			tion height					
	Packed unit	Width	mm	400	440			
		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		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		
	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-	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-	Condensing boiler			Yes			
	tion	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		I12H3P		
		Belgium		I2N / I12E+3P		
		Czech Republic		I12H3P		
		Estonia		I2H		
		France		I2N / I12H3P / I12E+3P		
		Germany		I2E / I2N / I3P / I2ELL		
		Greece		I2N / I12H3P		
		Hungaria		-	I2H	
		Italy		I12H3P		
		Latvia		I2H		
		Lithuania		I12H3P		
		Poland		I2N / I12E3P		
		Portugal		I2N / I12H3P		
		Romania		I2E / I12H3P		
		Slovakia		I12H3P		
		Slovenia		I2N / I12H3P		
		Spain		I2N / I12H3P		
		United Kingdom		I12H3P		
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)			22	36.3	35.5

2 Specifications

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			60			
		Factory setting			50			
		Min			35			
Operation range								
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 (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- mm		970	-		
			tion height					
		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	37		
		Full	kg		27	-		
	Boiler	Empty	kg		27	-		
	Packed unit	Empty	kg		32	1		
Packing	Material							
	Weight		kg		4.5	3.5		
Heat exchanger	Quantity					1		
	Body material					Aluminium		
	Domestic hot water	Quantity					1	
	Tube material					Stainless steel		
	Operating pressure		bar		-	10		
Pump	Nr of speeds					PWM		
Pump	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 connec- tions	Cold water in / Hot water out	inch		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			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		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
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		
	Auxiliary electricity consumption	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
		elmax (at full load) kW	0.0350	0.0360	0.0550
		Other			
	Other	ηson (seasonal space heating energy eff. in active mode) %	93	96.52	96.38
		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

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 heat input	Net calorific value		%	97.5	97.1	96.9	97.5	97.6	
		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	4.8 34
		Heat input (gross calorific value) Qnw	Nom	Min Max	kW kW	12.3	18.1	26.1	32.7	5.3 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					
				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					

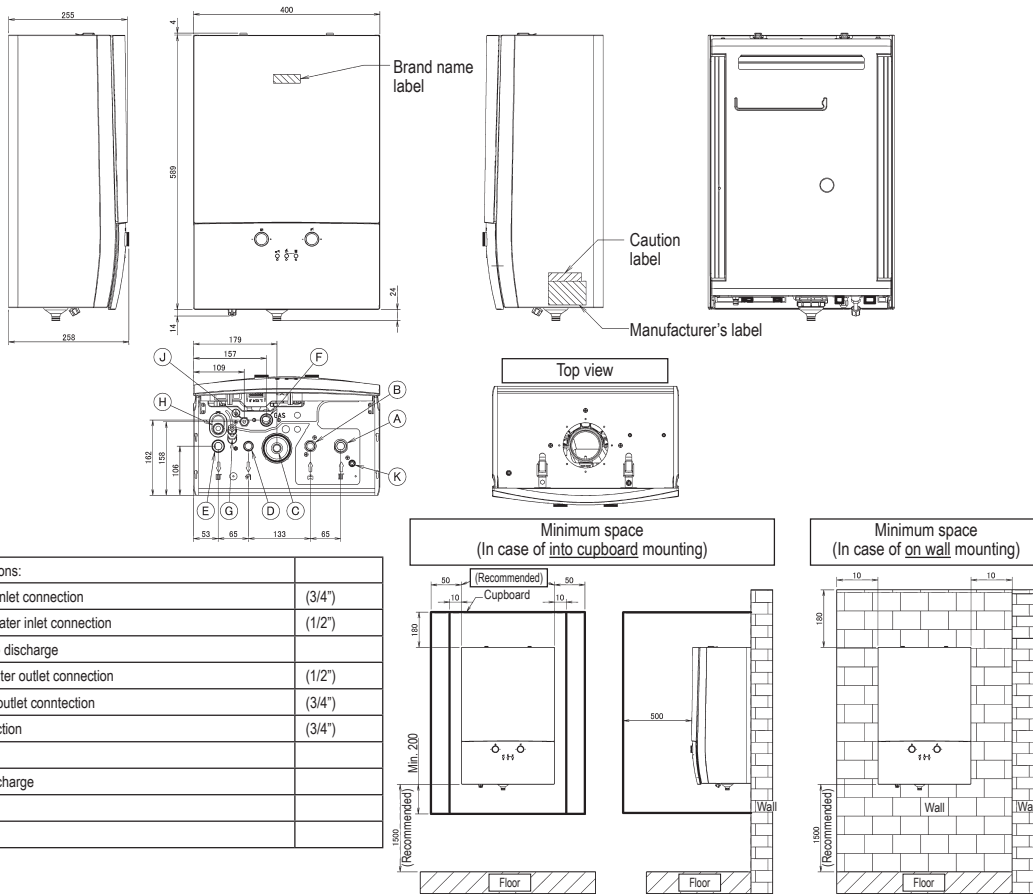
2 Specifications

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
		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

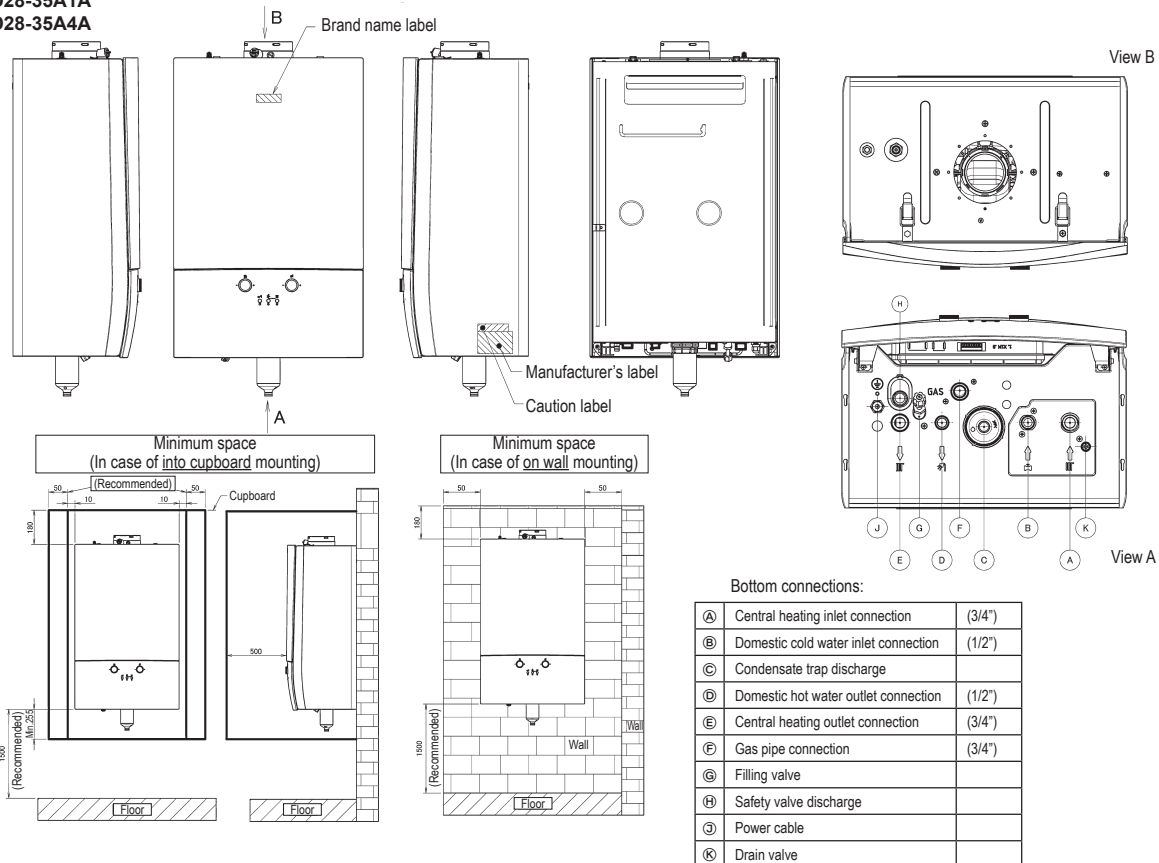
3 - 1 Dimensional Drawings

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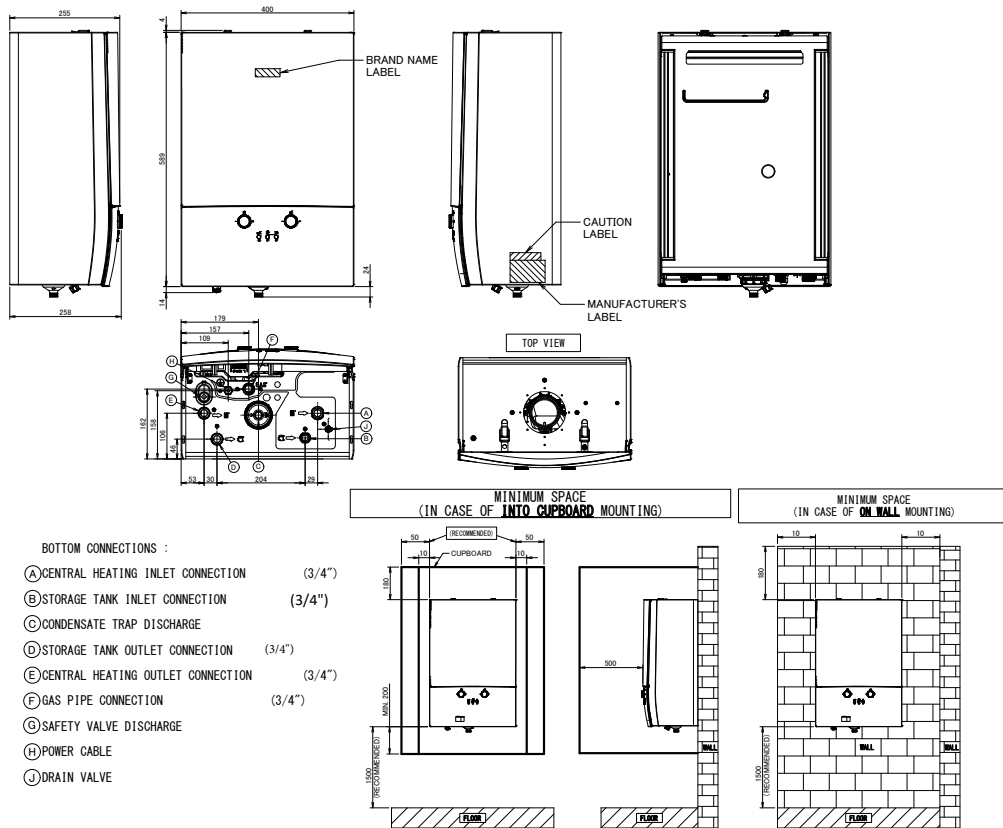
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3 Dimensional drawings

3 - 1 Dimensional Drawings

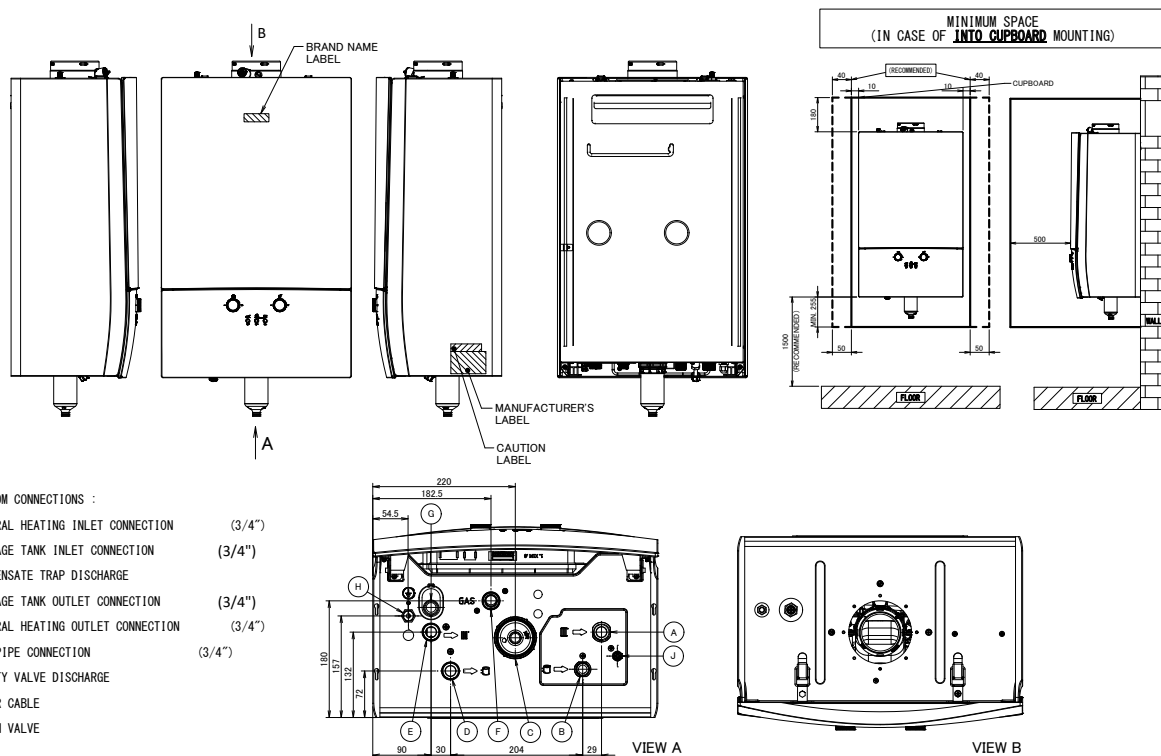
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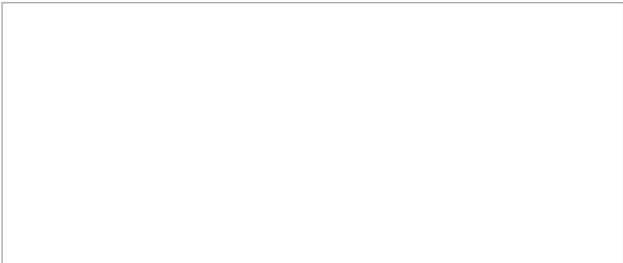


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