

Engineered with innovative condensing technology to provide efficient and reliable heating and hot water





Daikin in-house developed heat exchanger

Experience the Daikin technology of the wall mounted gas condensing combi boiler



FULL Condensing Heat Exchanger equipped with Daikin technology and R&D power

- > Flexible in use and installation thanks to most compact dimensions (only 0,23 m² wall space), low weight and Lambda Gx combustion technology.
- > Quiet operation due to wide fan modulation range
- > Facilitated maintenance thanks to front-accessible components
- > Easy heating control from your smartphone or tablet with the Daikin app.

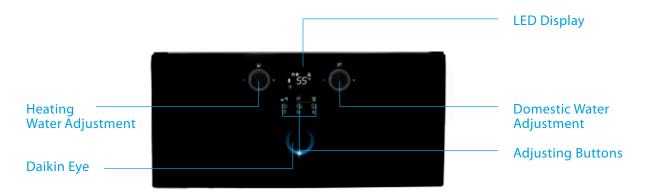




Daikin designed heat exchanger improves the performance of your heating system

2 Unique design & stylish front panel

- > Unique user interface appeals to all end-users
- > State-of-the-art technology meets user-friendly design
- > The side details and convex front panel deliver an integrated view



3 Daikin Eye

You can monitor the operating status of your combi boiler with the Daikin Eye



Blue:

When the Daikin Eye indicates a blue colour, it means the combi boiler is functioning properly. The Daikin Eye will flash on and off when it's running on stand by mode.



Red:

When the Daikin Eye indicates a red colour, it means the combi boiler is out of commission and requires a maintenance check.

Daikin online controller

The Daikin Online Controller application can control and monitor the status of your heating system and allows you to:

Monitor:

- > The status of your heating system
- > The power consumption
- > Energy consumption graphs

Control:

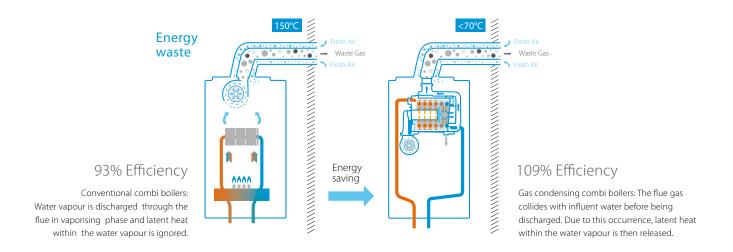
- > The operation mode and set temperature
- > Remotely control your system and domestic hot water
- > Third-party products & services integration via IFTTT

Schedule:

- > The set temperature and operation mode with up to 6 actions per day for 7 days
- > Holiday mode
- > View in an intuitive mode



Condensing technology



Premix Technology

incorporates a modulation fan to perfectly mix combustion air and fuel before it reaches the burner (air/gas mixer), to ensure a high efficiency combustion.

Condensing technology

With the combustion of 1 m3 natural gas, 1.7 kg of water vapour is released in the flue gas as latent heat. Instead of being disposed through the flue, the water vapour containing latent heat is then recirculated, and subsequently reheated by a uniquely designed exchanger.

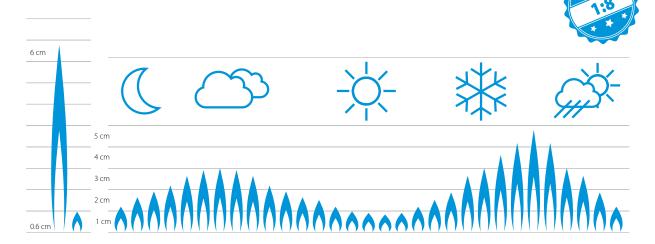
Condensation forms as a result of the water vapour being cooled to a temperature just below dew point, and then subsequently drained via a siphon. The condensing technology uses optimum fuel efficiency, with reduced emissions of NOx and CO, to ensure high cost-savings and low environmental impact.

6 High modulation rate

High Modulation Rate 1/8

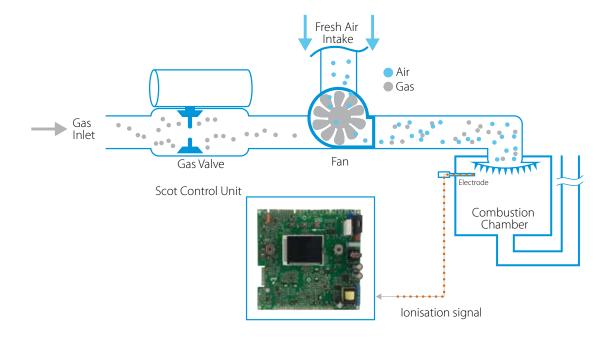
The opportunity to adjust the burner power ensures the seamless and continuous operation of the device. Smooth functioning of the system means increased comfort, a low risk for system failure and the ability

to neutralise harmful substance emissions that may occur during ignition. Modulation is also automatically provided by the electronic control.



7 Lambda Gx, automatic gas adaptation system

With the Lambda GX control system, the correct combination of air and gas is regulated to achieve efficient combustion, which leads to higher cost savings.



Lambda Gx aims to regulate the combustion of air and gas in suitable amounts to ensure the lambda (excess air factor) meets the required level.

- > The system controls the amount of air and gas independently, based on the flame quality (ionisation current).
- > Any fluctuation in the air and gas balance, (due to either outside air temperature or natural gas quality), can be detected by an ionisation current and electronically corrected.
- > To achieve an efficient combustion process, gas is gradually released into the mixture until the ideal ratio between gas and air is attained. This function also extends the service life of the device and reduces the emission of harmful gases into the environment.

8 High efficiency pump

High efficiency pump with frequency control

There is a circulation pump to distribute water through the heating installation

EU/TR ERP LOT11.

Pressure sensor



9 Small gas condensing combi boiler

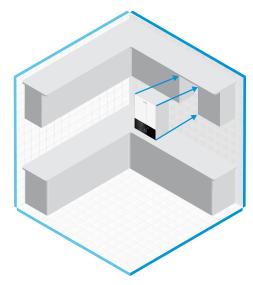
The smallest Combi boiler

Occupies only 0.06m³

256 mm

Easy installation & maintenance

The small and lightweight combi boiler guarantees fast installation, minimal maintenance and a flexible system to adapt to various rooms.



Silence

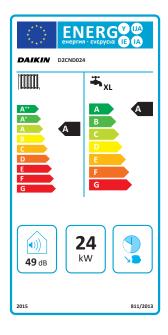
Sound power: 49 db(A): The sound level heard when close to the device. The noise level is similar to heating a dishwasher operating in an adjacent room.

High energy class

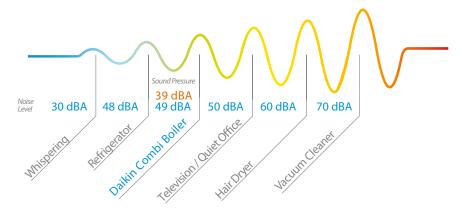
400 mm

Lightweight Combi boiler

Energy Class A adheres to European ERP Standards



Sound Pressure: 39 db(A): The sound level heard when standing 1 metre from the device. The noise level is akin to the quiet environment of a library.



Best for your home with compact dimensions



Capacity

Maintains a capacity of 24 kW, both in heating and hot water circuit.



Modulation

The device can drop down to 3 kW with a modulation ratio of 1:8. This ensures minimal energy is consumed during start/ stop operations.



Full condensation

Latent heat from the flue gas is obtained and added to the system, leading to both increased efficiency and energy savings.



Comfort mode

The DK combi boiler is designed to provide optimal comfort levels.



Electrical Protection

Safe combi boiler with a protection class of IP5D.



Efficiency

Achieves up to 109% efficiency with full condensation.



Frequency controlled pump

The frequency control monitors power consumption to boost efficiency and save energy.



Quiet

Delivers a very low sound level that reflects the new EU standards.



Thermo regulation

The device runs the system based on data obtained from the outside temperature sensor and room thermostat.



Compact size

Measuring only 0.06 m³, this slim, stateof-the-art design combines power with aesthetics.



High energy class

Efficiency class according to EU Ecodesign Lot1. (A)



Lambda Gx system

Superior combustion technology delivers unparalleled efficiency and energy savings.



Premix combustion

Achieves an efficient combustion process by creating the perfect combination of air and gas before it reaches the burner.



Lcd display

Eye-catching and user-friendly design.



Double heat exchanger

The device uses a Daikin-specific main exchanger equipped with in-house technology and a stainless steel domestic water exchanger.



Easy maintenance

Details in design allows for easy maintenance.



Online controller via app

Control your indoor unit from any location via app (optional WLAN adapter)



11 Heating redesigned

Using high-quality Daikin technology, Daikin Combi Boilers are designed to occupy less space and run at low sound levels to guarantee superb comfort, reliability and optimal energy efficiency.

Daikin Custom Design Exchanger

FULL Condensing, High Efficiency and Premix Heat Exchanger - designed with technology and R&D power of Daikin.



Lambda Gx systemensures combustion control with optimal air and gas combination

Provides fast and automatic adaptation to different types of gases and prevents unstable combustion in device to ensure a long service life.



Brass soldered, stainless heat exchanger with high heat transfer capacity and high corrosion resistance. High material quality with brass hydraulics group and Daikin's custom designed siphon.



Burner Group

The combi boiler can continuously operate at a minimum capacity of 3 kW thanks to its metal-fibre alloy burner.

High seasonal efficiency 1/8 modulation ratio thanks to frequency controlled fan construction.

Circulation Pump

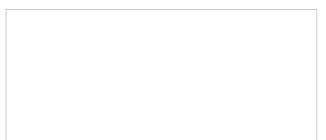
High efficiency

Save on electric power with the frequency controlled circulation pump.

For small applications the intelligent Tablet Controller is recommended

Indoor unit				D2xND	2TND012A4A	2TND018A4A	2TND024A4A	2TND028A4A	2TND035A4A	2CND024A1A	2CND028A4A	2CND035A1A
Central heating	Heat input	Nom	Min/Max	kW	2.9/11.2	2.9/17.0	2.9/23.5	4.8/27	4.8/34	2.9/23.5	4.8/27	4.8/34
	Qn (net											
	calorific											
	value)											
	Heat input	Nom	Min/Max	kW	3.2/12.4	3.2/18.9	3.2/26.1	5.3/30	5.3/37.8	3.2/26.1	5.3/30	5.3/37.8
	Qn (gross											
	calorific											
	value)											
	Output Pr	Min/Nom		kW	2.8/10.9	2.8/16.6	2.8/22.8	4.6/26.3	4.6/33.2	2.8/22.8	4.6/26.3	4.6/33.2
	at 80/60°C											
	Output	Min/Nom		kW	3.1/12.0	3.1/18.0	3.1/24.0	5.2/28.2	5.2/35	3.1/24.0	5.2/28.2	5.2/35
	Pnc at											
	50/30°C											
	Water	Max		bar					3			
	pressure											
	(PMS)	Max °C 100										
	Water	Max		°C				10	00			
	temperature	! Natalas:	£ l	%	98.6	98.2	97.9	0.0	3.2	97.9	I	I
	Operation	Net calori Min/Max	nc value	°C	98.6	98.2	97.9		/80	97.9	-	-
	range	I WIIII/IVIAA		C				50	700			
		connections 19 (3/4") Male										
Domestic hot	Heat input		Min/Max	kW	2.9/11.2	2.9/17.0	2.9/23.5	4.8/29.5	4.8/34	2.9/23.5	4.8/29.5	4.8/34
water	(net calorific											
	value) Qnw											
	Heat input	Nom	Min/Max	kW	3.2/12.4	3.2/18.1	3.2/26.1	5.3/32.7	5.3/37.7	3.2/26.1	5.3/32.7	5.3/37.7
	(gross											
	calorific											
	value) Onw											
		hot water t	threshold	l/min		-		2	.5	2.0	2	.5
		Factory se	etting	°C					50			
	•	Min/Max		°C	35/60							
	range											
Piping connection	19 (3/4") Male 12.7 (1/2") Male											
Connection diam Gas		now and re		mm mm	1			12.7 (1/2	z) Maie			
		ection diam		mm				19 (3/4	") Male			
	Consump		Min/Max	m³/h	0.31/1.18	0.31/1.80	0.31/2.48	0.511/2.89	0.511/3.63	0.31/2.48	0.511/2.89	0.511/3.63
	Consump		Min/Max	m³/h	0.36/1.38	0.36/2.09	0.36/2.89	0.59/3.32	0.59/4.19	0.36/2.89	0.59/3.32	0.59/4.19
	Consump		Min/Max	m³/h	0.12/0.46	0.12	/0.69	0.2/1.1	0.2/1.38	0.12/0.96	0.2/1.1	0.2/1.38
Supply air	Connection			mm					00			
Flue gas	Concentric 1 Connection mm 60											
Space heating	General		nal space heating						93			
•	Cerrerai	efficiency		, , ,				-	.5			
•			space heating eff	. class					A			
Domestic hot	General		load profile				-				XL	
water heating			er heating	%			-			8	35	83
		efficiency	·)									
~		Water hea	ating energy effic	iency			-				Α	
		class										
Casing	Colour					Titanium White (Ral9003)						
	Material				Sheet metal			'		Sheet metal Powder painted		•
<u> </u>		11.1.1. 100.1				TOO 4			steel plate	F00 :		steel plate
Dimensions	Unit	Height x Widt	n Casing	mm		590x400x256)	690x4	40x295	590x400	690x4	40x295
\\/a:= a-4	I Lade	x Depth				27			16	x256		7
Weight Power supply	Unit Phase/Fre	Empty quency/Vo	ltage	kg Hz/V		27 1~/50/230		3	36 1~/50/230	27		37 D/230
Electrical power	Max.	quericy/ VO	ntage	W N		86		92	112	86	92	112
consumption	Standby			W		3.5			7	3.5		.7
cosumption												

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