

GCU compact

Operating manual



Types

GCU compact 315 Biv
GCU compact 320 Biv
GCU compact 515 Biv
GCU compact 520 Biv
GCU compact 524 Biv
GCU compact 528 Biv

EN

Edition 09/2017

1 Guarantee, plant data

1.1 Guarantee conditions

The legal guarantee conditions fundamentally apply. Our warranty conditions beyond that can be found online on your sales presentative's webpage.

Regular inspection and maintenance is essential to sustainedly operate your heating system reliably and effectively

To maintain your full guarantee claim, you are obliged to use the device/heating system solely for the intended purpose and at regular intervals perform the inspection and maintenance work specified in the technical documents supplied with the product. All maintenance and repair work on the device/heating system must be logged comprehensibly in this operating manual.

1.2 System data

1.2.1 Operator

Name:	
Company:	
Street & house number:	
Postal code & town:	
Phone:	

1.2.2 System

		1. //		2.	
	DAIKIN EU	-7-/	V.V.		Germany
	GCU compact Brennwerti	Ssel, Condensing Q _n :	boiler, Chaudière à	condensation	kg
	,	ting Systems Gmb		usse 10, D-74363 G	ueglingen
	Type:	Q _n =	- kW		kg kg
	B ₂₃ /B _{23P} /B ₃₃ /B ₅₃ B _{53P} /C _{13x} /C _{33x} /C _{43x}	P ₁₀ (50/30 °C) = NOx (EN 15502) =	- kW	PMW = PMS =	6,0 bar 3 bar
	C _{53x} /C _{63x} /C _{83x} /C _{93x}	U = elmax =	~230 V / 50 Hz W; IP X0B	T _{max} = D (EN 15502) =	85 °C I/min
	CE 0063 CE-0063 CR 35		······	•	
				- 3. 	
				4.	
		min. max] kW	•	
				6. 5.	
6	8. kW max	9.			
				7.	

Fig. 1-1 Type plate (above) and setting sticker (below)

Type of device and setting						
1 - Condensing boiler type						
2 - Rated thermal output	P=	kW				
3 - Serial number (Mfg no.)						
4 - Gas type						
5 - Burner loading min.		kW				
6 - Burner loading max.		kW				
With changed base setting:						
7 - Gas type						
8 - Burner loading min.		kW				
9 - Burner loading max.		kW				
Date of first start-up						



All maintenance and repair work on the burner and heating boiler must be performed by certified personnel and documented in the following records. An unbroken record of compliance with the maintenance and inspection work stipulated by ROTEX is a prerequisite for any guarantee claim within the guarantee period and any possible ex-gratia payment by the manufacturer.

1.2.3 Further details on the heating system

Тур	e of heating surfa	aces:	
	Radiators		Floor heating
	Other:		
Sola	ar system installe	ed:	
	Yes		No
Ма	nufacturer:		
Тур	e of collector:		
	mber of collec-		
tors			. 2.
	al collector surfa		, ,
System:			_ · · · · · · · · · · · · · · · · · · ·
		Ш	Pressurized system
Oth	er remarks about	t hea	ting systems:
	Yes		No
lf y	es, which:		
•	eat pump, wood ler,)		
	er remarks on he		g system:

1st maintenance

	Activitie	s	Yes	No		Comments			
1.	All inspection and cleaning tasks cor inspection and maintenance instruct compact?	•							
2.	System water pressure checked?					bar			
3.	Pre-pressure measurement performe off):	ed with gas valve closed (burner					mbar		
4.	Burner setting checked?					Burner I	•		
_					before co	orrection	after cor	rection	
5.	Burner setting corrected?				Min.	Max.	Min.	Max.	
 Pre-pressure at gas valve: 					mbar	mbar	mbar	mbar	
	 CO₂ in flue gas pipe: 				%	%	%	%	
		 O₂ in flue gas pipe: 			%	%	%	%	
		 Temperature in flue gas pipe 	: :		°C	°C	°C	°C	
		- CO ₂ in supply air (annular ga	ap):		%	%	%	%	
		 Temperature of intake air: 			°C	°C	°C	°C	
6.	Any faults detected? Fault rectified? (See repair/service lo	g page)			Faults dete	ected:			
7.	Operator informed of existing faults?								
8.	8. Control settings changes?				See repair	service log	page		
Co	ompany stamp / company address	Name of technician in capitals	Da	te	Signature of technician				

2nd maintenance

	Activitie	s	Yes	No		Comn	nents	
1.	All inspection and cleaning tasks cor inspection and maintenance instructi compact?							
2.	System water pressure checked?						bar	
3.	Pre-pressure measurement performe off):	ed with gas valve closed (burner					mbar	
4.	Burner setting checked?				before co	Burner loading before correction after correction		
5.	Burner setting corrected?				Min.	Max.	Min.	Max.
		 Pre-pressure at gas valve: 			mbar	mbar	mbar	mbar
		 CO₂ in flue gas pipe: 			%	%	%	%
		 O₂ in flue gas pipe: 			%	%	%	%
		- Temperature in flue gas pipe	:		°C	°C	°C	°C
		- CO ₂ in supply air (annular ga	ap):		%	%	%	%
		- Temperature of intake air:			°C	°C	°C	°C
6.	Any faults detected? Fault rectified? (See repair/service lo	g page)			Faults dete	ected:	1	
7.	7. Operator informed of existing faults?							
8.	8. Control settings changes?				See repair/	service log	page	
Co	ompany stamp / company address	Name of technician in capitals	Dai	te	Signature of t	'echnician		

3rd maintenance

	Activitie	s	Yes	No	Comments			
1.	All inspection and cleaning tasks cor inspection and maintenance instructi compact?							
2.	System water pressure checked?						bar	
3.	Pre-pressure measurement performe off):	ed with gas valve closed (burner					mbar	
4.	Burner setting checked?					Burner I	oading	
			•	•	before co	orrection	after co	rection
5.	Burner setting corrected?				Min.	Max.	Min.	Max.
		 Pre-pressure at gas valve: 			mbar	mbar	mbar	mbar
 CO₂ in flue gas pipe: 					%	%	%	%
		 O₂ in flue gas pipe: 			%	%	%	%
		 Temperature in flue gas pipe 	e:		°C	°C	°C	°C
		- CO ₂ in supply air (annular ga	ap):		%	%	%	%
		- Temperature of intake air:			°C	°C	°C	°C
6.	Any faults detected? Fault rectified? (See repair/service lo	g page)			Faults dete	Faults detected:		
7.	Operator informed of existing faults?							
8.	Control settings changes?				See repair/service log page			
Company stamp / company address Name of technician in capitals			Dai	fe .	Signature of	technician		

	Activitie	s	Yes	No		Comn	nents	
1.	All inspection and cleaning tasks cor inspection and maintenance instructi compact?			٥				
2.	System water pressure checked?						bar	
3.	Pre-pressure measurement performe off):	d with gas valve closed (burner				mbar		
4.	Burner setting checked?				before co	Burner loading before correction after correction		
5.	Burner setting corrected?				Min.	Max.	Min.	Max.
		 Pre-pressure at gas valve: 			mbar	mbar	mbar	mbar
		 CO₂ in flue gas pipe: 			%	%	%	%
		 O₂ in flue gas pipe: 			%	%	%	%
		- Temperature in flue gas pipe	:		°C	°C	°C	°C
		- CO ₂ in supply air (annular ga	ap):		%	%	%	%
		 Temperature of intake air: 			°C	°C	°C	°C
6.	Any faults detected? Fault rectified? (See repair/service lo	g page)			Faults dete	ected:		
7.	Operator informed of existing faults?							
8. Control settings changes?					See repair	service log	page	
Co	mpany stamp / company address	Name of technician in capitals	Dat	te	Signature of	technician		

	Activitie	S	Yes	No		Comments			
1.	All inspection and cleaning tasks cor inspection and maintenance instruct compact?								
2.	System water pressure checked?					bar			
3.	Pre-pressure measurement performe off):	ed with gas valve closed (burner					mbar		
4.	Burner setting checked?					Burner l	•		
					before co	orrection	after cor	rection	
5.	Burner setting corrected?				Min.	Max.	Min.	Max.	
Pre-pressure at gas valve:				•	mbar	mbar	mbar	mbar	
	 CO₂ in flue gas pipe: 				%	%	%	%	
		 O₂ in flue gas pipe: 			%	%	%	%	
		- Temperature in flue gas pipe	:		°C	°C	°C	°C	
		- CO ₂ in supply air (annular ga	ap):		%	%	%	%	
		 Temperature of intake air: 			°C	°C	°C	°C	
6.	Any faults detected? Fault rectified? (See repair/service lo	g page)			Faults dete	Faults detected:			
7.	Operator informed of existing faults?								
8.	Control settings changes?				See repair	See repair/service log page			
Company stamp / company address Name of technician in capitals Date Signature of technician									

	Activitie	s	Yes	No		Comm	nents		
1.	All inspection and cleaning tasks cor inspection and maintenance instructi compact?								
2.	System water pressure checked?					bar			
3.	Pre-pressure measurement performe off):	ed with gas valve closed (burner				ı	mbar		
4.	Burner setting checked?				Burner loading before correction after correction			rection	
5.	Burner setting corrected?				Min.	Max.	Min.	Max.	
		 Pre-pressure at gas valve: 	<u>I</u>	ı	mbar	mbar	mbar	mbar	
		 CO₂ in flue gas pipe: 			%	%	%	%	
		 O₂ in flue gas pipe: 			%	%	%	%	
		 Temperature in flue gas pipe 	e:		°C	°C	°C	°C	
		 CO₂ in supply air (annular ga 	ap):		%	%	%	%	
		 Temperature of intake air: 			°C	°C	°C	°C	
6. Any faults detected? Fault rectified? (See repair/service log page) Faults detected:			ected:	I.					
7.	7. Operator informed of existing faults?								
8.	8. Control settings changes?				See repair.	/service log	page		
Сс	mpany stamp / company address	Name of technician in capitals	Dat	te	Signature of	technician			

7th maintenance

	Activitie	s	Yes	No		Comments			
1.	All inspection and cleaning tasks cor inspection and maintenance instruct compact?								
2.	System water pressure checked?					bar			
3.	Pre-pressure measurement performe off):	ed with gas valve closed (burner					mbar		
4.	Burner setting checked?					Burner I	oading		
					before co	orrection	after co	rection	
5.	Burner setting corrected?				Min.	Max.	Min.	Max.	
 Pre-pressure at gas valve: 					mbar	mbar	mbar	mbar	
	 CO₂ in flue gas pipe: 				%	%	%	%	
		 O₂ in flue gas pipe: 			%	%	%	%	
		 Temperature in flue gas pipe 	:		°C	°C	°C	°C	
		- CO ₂ in supply air (annular ga	ap):		%	%	%	%	
		 Temperature of intake air: 			°C	°C	°C	°C	
6.	Any faults detected? Fault rectified? (See repair/service lo	g page)			Faults dete	ected:			
7.	Operator informed of existing faults?								
8.	Control settings changes?				See repair/service log page				
Company stamp / company address Name of technician in capitals			Dai	fe	Signature of	technician			

8th maintenance

	Activitie	s	Yes	No		Comn	nents	
1.	All inspection and cleaning tasks cor inspection and maintenance instructi compact?							
2.	System water pressure checked?						bar	
3.	Pre-pressure measurement performe off):	ed with gas valve closed (burner					mbar	
4.	Burner setting checked?				Burner loading before correction after correction			rection
5.	Burner setting corrected?				Min.	Max.	Min.	Max.
		 Pre-pressure at gas valve: 			mbar	mbar	mbar	mbar
		 CO₂ in flue gas pipe: 			%	%	%	%
		 O₂ in flue gas pipe: 			%	%	%	%
		- Temperature in flue gas pipe	e:		°C	°C	°C	°C
		- CO ₂ in supply air (annular ga	ap):		%	%	%	%
		 Temperature of intake air: 			°C	°C	°C	°C
6.	Any faults detected? Fault rectified? (See repair/service lo	g page)			Faults dete	ected:		
7.	Operator informed of existing faults?							
8.	Control settings changes?				See repair/service log page			
Co	mpany stamp / company address	Name of technician in capitals	Dat	te	Signature of technician			

6

	Activitie	s	Yes	No		Comn	nents	
1.	All inspection and cleaning tasks cor inspection and maintenance instruct compact?							
2.	System water pressure checked?						bar	
3.	Pre-pressure measurement performe off):	ed with gas valve closed (burner					mbar	
4.	Burner setting checked?					Burner l	•	
					before co	orrection	after cor	rection
5.	Burner setting corrected?				Min.	Max.	Min.	Max.
		 Pre-pressure at gas valve: 			mbar	mbar	mbar	mbar
		 CO₂ in flue gas pipe: 			%	%	%	%
		 O₂ in flue gas pipe: 			%	%	%	%
		 Temperature in flue gas pipe 	:		°C	°C	°C	°C
		- CO ₂ in supply air (annular ga	ap):		%	%	%	%
		 Temperature of intake air: 			°C	°C	°C	°C
6.	Any faults detected? Fault rectified? (See repair/service lo	g page)			Faults dete	ected:	<u>.</u>	
7.	Operator informed of existing faults?							
8.	Control settings changes?				See repair	/service log	page	
Со	mpany stamp / company address	Name of technician in capitals	Da	te	Signature of technician			

	Activities	s	Yes	No		Comm	nents	
1.	All inspection and cleaning tasks cor inspection and maintenance instructi compact?	•						
2.	System water pressure checked?				bar			
3.	Pre-pressure measurement performe off):	d with gas valve closed (burner					mbar	
4.	Burner setting checked?				Burner loading before correction after correction			rection
5.	Burner setting corrected?				Min.	Max.	Min.	Max.
		 Pre-pressure at gas valve: 	l	I.	mbar	mbar	mbar	mbar
		 CO₂ in flue gas pipe: 			%	%	%	%
		 O₂ in flue gas pipe: 			%	%	%	%
		- Temperature in flue gas pipe	:		°C	°C	°C	°C
		- CO ₂ in supply air (annular ga	ap):		%	%	%	%
		 Temperature of intake air: 			°C	°C	°C	°C
6.	Any faults detected? Fault rectified? (See repair/service lo	g page)			Faults dete	ected:		
7.	Operator informed of existing faults?							
8.	Control settings changes?				See repair	service log	page	_
Cc	mpany stamp / company address	Name of technician in capitals	Dat	te	Signature of	technician		

11th maintenance

	Activities Yes			No		Comm	ents	
1.	All inspection and cleaning tasks cor inspection and maintenance instruction compact?							
2.	System water pressure checked?						bar	
3.	Pre-pressure measurement performe off):	ed with gas valve closed (burner				I	mbar	
4.	Burner setting checked?		0		before co	Burner learner	oading after cor	rection
5.	Burner setting corrected?				Min.	Max.	Min.	Max.
		 Pre-pressure at gas valve: 		•	mbar	mbar	mbar	mbar
		 CO₂ in flue gas pipe: 			%	%	%	%
		 O₂ in flue gas pipe: 			%	%	%	%
		- Temperature in flue gas pipe	e:		°C	°C	°C	°C
		- CO ₂ in supply air (annular ga	ap):		%	%	%	%
		- Temperature of intake air:			°C	°C	°C	°C
6.	Any faults detected? Fault rectified? (See repair/service lo	g page)			Faults detected:			
7.	Operator informed of existing faults?							
8.	Control settings changes?				See repair/service log page			
Со	Company stamp / company address Name of technician in capitals			te	Signature of	technician		

	Activitie	s	Yes	No		Comm	nents	
1.	All inspection and cleaning tasks cor inspection and maintenance instructi compact?							
2.	System water pressure checked?						bar	
3.	Pre-pressure measurement performe off):	d with gas valve closed (burner					mbar	
4.	Burner setting checked?				Burner loading before correction after correction			rection
5.	Burner setting corrected?				Min.	Max.	Min.	Max.
		 Pre-pressure at gas valve: 		I.	mbar	mbar	mbar	mbar
		 CO₂ in flue gas pipe: 			%	%	%	%
		 O₂ in flue gas pipe: 			%	%	%	%
		- Temperature in flue gas pipe	: :		°C	°C	°C	°C
		- CO ₂ in supply air (annular ga	ap):		%	%	%	%
		 Temperature of intake air: 			°C	°C	°C	°C
6.	Any faults detected? Fault rectified? (See repair/service lo	g page)			Faults dete	ected:		
7.	Operator informed of existing faults?							
8.	Control settings changes?				See repair	service log	page	_
Ca	mpany stamp / company address	Name of technician in capitals	Dai	4-	Signature of	to the state of		

Activities			Yes	No		Comn	nents	
1.	All inspection and cleaning tasks cor inspection and maintenance instruct compact?							
2.	System water pressure checked?						bar	
3.	Pre-pressure measurement performe off):	ed with gas valve closed (burner				mbar		
4.	Burner setting checked?					Burner l	•	
					before co	orrection	after cor	rection
5.	Burner setting corrected?				Min.	Max.	Min.	Max.
		 Pre-pressure at gas valve: 		•	mbar	mbar	mbar	mbar
	 CO₂ in flue gas pipe: 				%	%	%	%
		 O₂ in flue gas pipe: 			%	%	%	%
		 Temperature in flue gas pipe 	:		°C	°C	°C	°C
		- CO ₂ in supply air (annular ga	ap):		%	%	%	%
		 Temperature of intake air: 			°C	°C	°C	°C
6.	Any faults detected? Fault rectified? (See repair/service lo	g page)			Faults detected:			
7.	Operator informed of existing faults?							
8.	Control settings changes?				See repair/service log page			
Company stamp / company address Name of technician in capitals			Dai	te	Signature of	technician		

	Activities	s	Yes	No		Comm	nents	
1.	All inspection and cleaning tasks cor inspection and maintenance instructi compact?	•						
2.	System water pressure checked?				bar			
3.	Pre-pressure measurement performe off):	d with gas valve closed (burner					mbar	
4.	Burner setting checked?				Burner loading before correction after correction			rection
5.	Burner setting corrected?				Min.	Max.	Min.	Max.
		 Pre-pressure at gas valve: 	l	I.	mbar	mbar	mbar	mbar
		 CO₂ in flue gas pipe: 			%	%	%	%
		 O₂ in flue gas pipe: 			%	%	%	%
		- Temperature in flue gas pipe	:		°C	°C	°C	°C
		- CO ₂ in supply air (annular ga	ap):		%	%	%	%
		 Temperature of intake air: 			°C	°C	°C	°C
6.	Any faults detected? Fault rectified? (See repair/service lo	g page)			Faults dete	ected:		
7.	Operator informed of existing faults?							
8.	Control settings changes?				See repair	service log	page	_
Cc	mpany stamp / company address	Name of technician in capitals	Dat	te	Signature of	technician		

15th maintenance

	Activitie	s	Yes	No	Comments			
1.	All inspection and cleaning tasks cor inspection and maintenance instruction compact?		٠					
2.	System water pressure checked?						bar	
3.	Pre-pressure measurement performe off):	ed with gas valve closed (burner					mbar	
4.	Burner setting checked?				before co	Burner I	oading after cor	rection
5.	Burner setting corrected?				Min.	Max.	Min.	Max.
		 Pre-pressure at gas valve: 			mbar	mbar	mbar	mbar
		 CO₂ in flue gas pipe: 			%	%	%	%
		 O₂ in flue gas pipe: 			%	%	%	%
		- Temperature in flue gas pipe):		°C	°C	°C	°C
		- CO ₂ in supply air (annular ga	ap):		%	%	%	%
		 Temperature of intake air: 			°C	°C	°C	°C
6.	Any faults detected? Fault rectified? (See repair/service lo	g page)			Faults dete	ected:	1	
7.	Operator informed of existing faults?							
8.	Control settings changes?				See repair	service log	page	_
Со	mpany stamp / company address	Name of technician in capitals	Date Signature of technicia			technician		

16th maintenance

it 🗆					
				bar	
er 🗆				mbar	
		Burner loading before correction after correction			rection
		Min.	Max.	Min.	Max.
:	·	mbar	mbar	mbar	mbar
		%	%	%	%
		%	%	%	%
ipe:		°C	°C	°C	°C
gap):		%	%	%	%
		°C	°C	°C	°C
		Faults dete	ected:		
		See repair	service log	page	
5-	to.	Signature	toohnioion		
e	er	er	before comparison of the compa	Burner before correction Min. Max. mbar mbar % % % % % % coipe:	mbar Burner loading before correction after cor Min. Max. Min. mbar mbar mbar mbar % % % % % % % % % % pripe: "C "C "C "C "C" "G "C "C" "G "C "C" "G "C "C" "G " "

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Activities			Yes	No		Comn	nents	
1.	All inspection and cleaning tasks cor inspection and maintenance instruct compact?							
2.	System water pressure checked?						bar	
3.	Pre-pressure measurement performe off):	ed with gas valve closed (burner				mbar		
4.	Burner setting checked?					Burner l	•	
					before co	orrection	after cor	rection
5.	Burner setting corrected?				Min.	Max.	Min.	Max.
		 Pre-pressure at gas valve: 		•	mbar	mbar	mbar	mbar
	 CO₂ in flue gas pipe: 				%	%	%	%
		 O₂ in flue gas pipe: 			%	%	%	%
		 Temperature in flue gas pipe 	:		°C	°C	°C	°C
		- CO ₂ in supply air (annular ga	ap):		%	%	%	%
		 Temperature of intake air: 			°C	°C	°C	°C
6.	Any faults detected? Fault rectified? (See repair/service lo	g page)			Faults detected:			
7.	Operator informed of existing faults?							
8.	Control settings changes?				See repair/service log page			
Company stamp / company address Name of technician in capitals			Dai	te	Signature of	technician		

	Activities		Yes	No		Comm	nents	
1.	All inspection and cleaning tasks composed inspection and maintenance instruction compact?							
2.	System water pressure checked?				bar			
3.	Pre-pressure measurement performed off):	with gas valve closed (burner					mbar	
4.	Burner setting checked?				Burner loading before correction after correcti			rection
5.	Burner setting corrected?				Min.	Max.	Min.	Max.
	-	- Pre-pressure at gas valve:		I.	mbar	mbar	mbar	mbar
	-	- CO ₂ in flue gas pipe:			%	%	%	%
	-	- O ₂ in flue gas pipe:			%	%	%	%
	-	- Temperature in flue gas pipe	:		°C	°C	°C	°C
	-	- CO ₂ in supply air (annular ga	ap):		%	%	%	%
	-	- Temperature of intake air:			°C	°C	°C	°C
6.	Any faults detected? Fault rectified? (See repair/service log	page)			Faults dete	ected:	1	
7.	Operator informed of existing faults?							
8.	Control settings changes?				See repair/	service log	page	
Со	mpany stamp / company address I	Name of technician in capitals	Dai	te	Signature of t	technician		

Repair/service record	
Description and reason for work on device/heating system - subsequent function check performed? Please fill in!	Date/signature of technician

Repair/service record	
Description and reason for work on device/heating system - subsequent function check performed? Please fill in!	Date/signature of technician

Repair/service record	
Description and reason for work on device/heating system - subsequent function check performed? Please fill in!	Date/signature of technician

Repair/service record	
Description and reason for work on device/heating system - subsequent function check performed? Please fill in!	Date/signature of technician

Repair/service record	
Description and reason for work on device/heating system - subsequent function check performed? Please fill in!	Date/signature of technician

Repair/service record Description and reason for work on device/heating system - subsequent function check performed? Please fill in! Date/signature of technician formed? Please fill in!

Repair/service record	
Description and reason for work on device/heating system - subsequent function check per- formed? Please fill in!	Date/signature of technician

Repair/service record Description and reason for work on device/heating system - subsequent function check performed? Please fill in! Date/signature of technician formed? Please fill in!

