

Perfect for beginners

The c'joy has everything you need to experience great freedom. Thanks to its compact dimensions and low weight, it is also suitable for small cars and, depending on the towing vehicle, can also be driven with a class B driving licence. Nevertheless, it offers enough space - and that for up to 6 people - depending on the model. This makes holidays fun!

Upholstery



+ Upholstery Timor



+ Upholstery Kapan

○

Wood décor



+ Wood décor Tindari Bora

○ optionally available

Technical info

Overall length, approx.	622 - 714 cm
Overall width, approx.	212 cm
Overall height, approx.	265 cm
Headroom in living area, approx.	198 cm

Maximum values partly not possible for all models or only in connection with certain options.

Plus factors

- + Don't be afraid of narrow passages: with a width of just 212 cm, it is very easy to ride
- + Real lightweight: With the appropriate towing vehicle, a class B driving licence is often sufficient
- + Protects you from bad weather: roof, front and rear made of robust GRP
- + The perfect entry-level caravan: attractively priced and everything you need inside and out
- + You don't have to do without anything: The large storage compartments there is room for everything you need



c'joy

Technical info



c'joy		410 LK	420 QSH	460 LE	480 FSH	480 QLK
Standard chassis		Lightweight chassis, 1100 kg	Lightweight chassis, 1100 kg	Lightweight chassis, 1200 kg	Lightweight chassis, 1200 kg	Lightweight chassis, 1200 kg
Overall length, approx.	cm	622	625	675	708	714
Body length approx.	cm	499	503	553	593	593
Overall width, approx.	cm	212	212	212	212	212
Overall height, approx.	cm	265	265	265	265	265
Circumferential dimension awning approx.	cm	914	918	968	1008	1008
Headroom in living area, approx.	cm	198	198	198	198	198
Thickness floor / side walls / roof	mm	38 / 28 / 28	38 / 28 / 28	38 / 28 / 28	38 / 28 / 28	38 / 28 / 28
Tire size		185 R14C 8PR	185 R14C 8PR	185 R14C 8PR	185 R14C 8PR	185 R14C 8PR
Bed dimension: Front bed, L x W, approx.	cm	190 x 140 - 115	195 x 150	190 x 100 - 90	200 x 160	190 x 150
Bed dimension: Central / middle bed, L X W, approx.	cm		170 x 90 - 80		170 x 90	190 x 120
Bed dimension: Rear bed, L x W, approx.	cm	190 x 65 / 190 x 70 / 2x 190 x 70 ○ / 190 x 60 ○		200 x 80 / 195 x 80 / 200 - 195 x 190 ○		190 x 60 / 190 x 70 / 2x 190 x 60 ○ / 190 x 70 ○
Sleeping berths standard / max.		4 / 5 ○	3	3	3	5 / 6 ○
Mass in running order (+/-5%)*	kg	950 (903 to 998)*	920 (874 to 966)*	960 (912 to 1008)*	1025 (974 to 1076)*	1065 (1012 to 1118)*
Manufacturer-specified mass for optional equipment*	kg	60	100	155	86	126
Technically permissible maximum laden mass*	kg	1100	1100	1200	1200	1300
Heating		S 3004, 3.5 kW Gas	S 3004, 3.5 kW Gas	S 3004, 3.5 kW Gas	S 3004, 3.5 kW Gas	S 3004, 3.5 kW Gas
Refrigerator volume (thereof freezer), approx.	l	131,5 (15)	131,5 (15)	83 (8,2)	131,5 (15)	131,5 (15)
Fresh water tank capacity, total/ Fresh water tank capacity at driving filling	l	12 / 12	12 / 12	12 / 12	12 / 12	12 / 12
Sockets: 12 V / 230 V / USB		0 / 3 / 0	0 / 3 / 0	0 / 3 / 0	0 / 3 / 0	0 / 2 / 0

○ Optional equipment — Not possible ● Standard equipment ◆ Mandatory △ Not known at the time of publication



* INFO

The specified mass in running order is a standard value defined in the type approval procedure. Due to manufacturing tolerances, the actual weighed mass in running order may deviate from the value stated above. Deviations of up to ± 5% of the mass in running order are legally permissible and possible. The permissible range in kilograms is stated in parentheses after the mass in running order. The mass for optional equipment specified by the manufacturer is an imputed value determined for each type and layout by which Dethleffs specifies the maximum weight available for factory-fitted optional equipment. The purpose of limiting optional equipment is to ensure that the minimum payload, i.e. the legally required free mass for baggage and retrofitted accessories, is actually available for the load capacity of vehicles delivered by

Dethleffs. The actual weight of your vehicle after leaving the factory can only be determined when it is weighed at the end of the line. If, in exceptional cases, the weighing shows that the actual load capacity falls short of the minimum payload due to a permissible weight deviation, despite the limitation of the optional equipment, we will check together with your trading partner and you before delivery of the vehicle whether we should, for example, increase the load capacity of the vehicle or remove optional equipment. The technically permissible maximum laden mass of the vehicle must not be exceeded. For detailed information and explanations on the topic of weight and the configuration of the vehicle, please refer to the "Legal notes" section.

Standard equipment

	410 LK	420 QSH	460 LE	480 FSH	480 QLK
Chassis					
Chassis galvanised, with overrun braking system and automatic reverse	●	●	●	●	●
Tyres on steel wheels 185 R14 C 8 PR, up to and including 1.600 kg	●	●	●	●	●
Chassis features					
High-quality brand-name tyres, designed for a speed of 100 km/h	●	●	●	●	●
Lightweight corner steadies	●	●	●	●	●
Exterior features					
Floor of the gas bottle locker made of rot-resistant and robust corrugated aluminium	●	●	●	●	●
Front, rear and roof made of robust GRP	●	●	●	●	●
Opening windows, insulated and double-glazed (graphite grey) with blackout and mosquito blinds	●	●	●	●	●
Storage space for 2 gas bottles with 11 kg filling weight each	●	●	●	●	●
Two-piece entrance door	●	●	●	●	●
Exterior design					
Sides in hammer finish, white	●	●	●	●	●
Access locker doors					
Access locker door rear right side 560x1150 mm	●	—	—	—	●
Interior design					
Upholstery Timor	●	●	●	●	●
Wood décor Tindari Bora	●	●	●	●	●
Textile equipment					
7-zones cold foam mattress single bed, left side, standard	—	—	●	—	—
7-zones cold foam mattress single bed, right side, standard	—	—	●	—	—
Cold foam double bed mattress	—	●	—	●	●
Furniture layouts					
AirPlus - perfect air circulation in the interior and rear ventilation of the overhead lockers and sideboards	●	●	●	●	●
Bunk bed with 2 sleeping berths, foldable	●	—	—	—	●
Bunk beds with safety net and ladder	●	—	—	—	●
Seating lounge converts to bed	●	●	●	●	●
Special slatted frame with flexible natural rubber holders, opening for optimal use of storage compartments under the beds	●	●	●	●	●
Kitchen					
Practical 3-flames cooker with manual ignition	●	●	●	●	●
Spacious fridge with 83 liters volume and 8.2 liters freezer compartment	—	—	●	—	—
Spacious refrigerator with 131.5 litre capacity and 15 litre freezer compartment	●	●	—	●	●
Bathroom					
Shapely washbasin	●	●	●	●	●
Shower tray	●	●	●	●	●
Skylight with mosquito net	●	●	●	●	●
Heating					
Gas heating S 3004 with automatic ignition	●	●	●	●	●
Electrical installation					
Awning light 12V	●	●	●	●	●
CEE external output socket for 230V on-board electrics	●	●	●	●	●
Water supply					
Electric water supply	●	●	●	●	●
Fresh water canister 12 l	●	●	●	●	●
Miscellaneous					
SIU-ready (preparation for SIU control unit)	●	●	●	●	●

Packages c'joy

Package	Dynamic Package (13094)	Dynamic Package (13274)	Dynamic Package (13275)
Safety coupling	x	x	x
Shock absorbers	x	x	x
Fresh water tank 44 l	x	x	x
Mobile 22 l waste water tank	x	x	x
Spare wheel carrier in gas locker	x	x	x
Access locker door front right side 1000x420 mm	x		
Access locker door rear right side 1000x420 mm		x	
Access locker door front right side 750x300 mm			x
Additional weight (kg)*	28.1	28.1	28.1

Package	Autonomy Package I (10011)	Autonomy Package II (10012)
Battery (95 Ah)	x	x
Battery charger	x	x
Central 12V main switch	x	x
Voltage display	x	x
Fan 12V for S 3004	x	
Additional weight (kg)*	31	29

Touring Package (9243)	
Hot water supply	
Hot air system	
Skylight 700 x 500 mm	
Flyscreen door	
Additional weight (kg)*	13

△ Not known at the time of publication



The factory installation of optional equipment increases the actual mass of the vehicle and reduces the payload. The specified additional weight for packages and optional equipment shows the additional weight compared with the standard equipment of the respective model or layout. The total weight of the selected optional equipment must not exceed the mass for optional equipment specified by the manufacturer in the model overviews. This is an imputed

value determined for each model and layout that Dethleffs uses to determine the maximum weight available for factory-installed optional equipment. In the event of an increase of load capacity, the mass for optional equipment specified by the manufacturer is increased. For detailed information and explanations on the topic of weight, please refer to the "Legal notes" section.

Optional equipment*

	Included in package	Additional weight (kg)*	Code	410 LK	420 QSH	460 LE	480 FSH	480 QLK
Chassis								
17" alloy wheels in Dethleffs design (single axle)	—	1	11608	○	○	○	○	○
Tyres on alloy wheels 185 R14 C LI102, up to and including 1600 kg	—	1	836	○	○	○	○	○
Weight upgrade								
Weight upgrade to 1.200 kg (without chassis change)	—	0	134	○	○	—	—	—
Weight upgrade to 1.300 kg (without chassis change)	—	0	135	—	○	—	—	—
Weight upgrade to 1.360 kg (without chassis change)	—	0	9619	○	○	○	○	○
Weight upgrade to 1.500 kg	—	20	136	—	○	—	—	—
Weight upgrade to 1.500 kg	—	0	136	—	—	—	○	○
Chassis features								
Draw bar cover	—	2.5	13098	○	○	○	○	○
ETS Plus stabilisation system	—	5.3	10764	○	○	○	○	○
Safety coupling ¹⁾	—	15.7	13096	○	○	○	○	○
Shock absorbers ¹⁾	—	0.4	13097	○	○	○	○	○
Spare tyre with alloy wheel 185 R14 C LI 102, up to and including 1.600 kg	—	17	837	—	○	—	○	○
Spare tyre with alloy wheel 215/60 R17 C LI 109	—	24.1	11540	○	○	○	○	○
Spare tyre with steel wheel 185 R14 C 8 PR, up to and including 1.600 kg	—	18	831	—	○	—	○	○
Wheel trims for 14" tyres	—	0.5	276	○	○	○	○	○
Exterior features								
Flyscreen door	—	3	360	○	○	○	○	○
Front window	—	3	982	●	○	●	○	○
Kitchen window, sliding (change of window shape)	—	3	6406	○	○	○	○	○
Opening window in bathroom	—	2	1028	○	○	○	○	○
Rear window	—	4	1108	—	—	○	—	—
Skylight 700 x 500 mm	—	8	11575	○	○	○	○	○
Spare wheel carrier in gas locker	—	1	432	○	○	○	○	○
Access locker doors								
Access locker door front left side 1000x420 mm	—	2	6415	—	○	—	—	○
Access locker door front right side 1000x420 mm	—	2	6416	—	○	—	○	○
Access locker door front right side 750x300 mm	—	2	6420	○	—	—	—	—
Access locker door rear left side 1000x420 mm	—	2	6417	—	—	○	—	—
Access locker door rear right side 1000x420 mm	—	2	6418	—	—	○	—	—
Interior design								
Upholstery Kapan	—	0	13226	○	○	○	○	○
Furniture layouts								
Bunk bed with 3 sleeping berths, not foldable	—	21	200	○	—	—	—	○
Single beds convert to double bed	—	6	685	—	—	○	—	—
Multimedia								
Multifunctional external connection, 12 V, 220 V, TV and SAT	—	1	611	○	○	○	○	○
Preparation for flat screen TV (antenna cable and TV bracket)	—	2	678	○	○	○	○	○
Heating								
Fan 12V for S 3004	—	2	177	○	○	○	○	○
Hot air system	—	0	142	○	○	○	○	○
Ultraheat additional heating for S 3004, electric 220 V	—	2	364	○	○	○	○	○



* INFO

The factory installation of optional equipment increases the actual mass of the vehicle and reduces the payload. The specified additional weight for packages and optional equipment shows the additional weight compared with the standard equipment of the respective model or layout. The total weight of the selected optional equipment must not exceed the mass for optional equipment specified by the manufacturer in the model overviews. This is an imputed

value determined for each model and layout that Dethleffs uses to determine the maximum weight available for factory-installed optional equipment. In the event of an increase of load capacity, the mass for optional equipment specified by the manufacturer is increased. For detailed information and explanations on the topic of weight, please refer to the "Legal notes" section.

Optional equipment^{**}

	Included in package	Additional weight (kg) [*]	Code	410 LK	420 QSH	460 LE	480 FSH	480 QLK
Air Conditioning								
Pre-wiring for A/C	—	3.5	172	○	○	○	○	○
Electrical installation								
Additional lighting through LED spotlights	—	2	9692	○	○	○	○	○
USB port for spotlight bar	—	0.5	9989	○	○	○	○	○
Water supply								
Fresh water tank 44 l	—	6	9240	○	○	○	○	○
Hot water supply	—	2	123	○	○	○	○	○
Mobile 22 l waste water tank	—	3	367	○	○	○	○	○
Shower equipment with shower fittings and curtain	—	3	1097	○	○	○	○	○
Gas supply								
Gas detection system	—	0.5	10058	○	○	○	○	○
Packages								
Autonomy Package I ³⁾	—	31	10011	○	○	○	○	○
Autonomy Package II	—	29	10012	○	○	○	○	○
Dynamic Package ²⁾	—	28.1	13094	—	○	—	○	○
Dynamic Package ²⁾	—	28.1	13274	—	—	○	—	—
Dynamic Package ²⁾	—	28.1	13275	○	—	—	—	—
Touring Package	—	13	9243	○	○	○	○	○
Miscellaneous								
Registration documents (CoC papers)	—	0	15151	◆	◆	◆	◆	◆

○ Optional equipment — Not possible ● Standard equipment ◆ Mandatory △ Not known at the time of publication



^{*} INFO

The factory installation of optional equipment increases the actual mass of the vehicle and reduces the payload. The specified additional weight for packages and optional equipment shows the additional weight compared with the standard equipment of the respective model or layout. The total weight of the selected optional equipment must not exceed the mass for optional equipment specified by the manufacturer in the model overviews. This is an imputed

value determined for each model and layout that Dethleffs uses to determine the maximum weight available for factory-installed optional equipment. In the event of an increase of load capacity, the mass for optional equipment specified by the manufacturer is increased. For detailed information and explanations on the topic of weight, please refer to the "Legal notes" section.

LEGAL NOTES ON WEIGHT-RELATED INFORMATION

The weight specifications and tests for caravans are regulated uniformly throughout the EU in EU Implementing Regulation No. 2021/535 (until June 2022: EU Regulation No. 1230/2012). We have summarized and explained the essential terminology and legal requirements from this regulation for you below. Our dealers and the Dethleffs configurator on our website are there to give you additional assistance in configuring your vehicle.

1. Technically permissible maximum laden mass

The **technically permissible maximum laden mass** of the vehicle (e.g. 2,000 kg) is a mass specification defined by the manufacturer that the vehicle must not exceed. You can find information on the technically permissible maximum laden mass of the model you have selected in the technical data. Driving the vehicle even if it exceeds the technically permissible maximum laden mass constitutes an administrative offense that may result in a fine.

2. Mass in running order

In simple terms, the mass in running order is the basic vehicle with standard equipment. This essentially includes the following items:

- the unladen weight of the vehicle together with the bodywork, including operating fluids;
- the standard equipment, i.e. all equipment and standard fittings included when the vehicle leaves the factory;
- the 100% filled water tank or driving tank according to the manufacturer's specifications and a 100% filled aluminum gas cylinder.

You can find information on the mass in running order for each model in our sales documents. It is **important to note** that the value specified in the sales documents for the mass in running order is a **standard value** determined in the type approval process and verified by the authorities. It is legally permissible and possible for the mass in running order of the vehicle delivered to you to deviate from the nominal value specified in the sales documents. The **legally permissible tolerance** is $\pm 5\%$. This allows EU legislation to account for the occurrence of certain fluctuations in the mass in running order due to weight fluctuations in components supplied by third-party suppliers as well as process and weather-related factors.

These weight deviations can be illustrated using the following example calculation:

- Mass in running order according to sales documents: 1,600 kg
- Legally permissible tolerance of $\pm 5\%$: 80 kg
- Legally permissible range of mass in running order: 1,520 kg to 1,680 kg

The specific range of permissible weight deviations can be found in the technical data for each model.

Dethleffs makes great efforts to reduce weight variations to the minimum level that is unavoidable for production reasons. Deviations at the upper and lower ends of the range are therefore very rare; however, they cannot be completely ruled out technically, even after carrying out all possible optimization measures. For this reason, Dethleffs checks the actual weight of the vehicle and compliance with the permissible tolerance by weighing each vehicle at the end of the line.

3. Optional equipment and actual mass

According to the legal definition, optional equipment (also including special or additional equipment) includes all optional equipment parts not included with the standard equipment that are fitted to the vehicle under the responsibility of the manufacturer – i.e. at the factory – and can be ordered by the customer (e.g. awning, smooth panel, Alde heating system, oven, etc.). For information on the individual or package weights of the optional equipment that can be ordered, please refer to our sales documents. In this meaning, optional equipment does not include other accessories that are retrofitted by you or your dealer personally after the vehicle has been delivered from the factory.

The mass of the vehicle in running order (see no. 2 above) and the mass of the optional equipment installed on a specific vehicle at the factory are together referred to as the actual mass. You will find the corresponding information for your vehicle after handover under item 13.2 of the Certificate of Conformity (CoC). Please note that this information also represents a standardized value. Since the mass in running order – as an element of the actual mass – is subject to a legally permissible tolerance of $\pm 5\%$ (see no. 2), the actual mass may also deviate accordingly from the specified nominal value.

4. Payload and minimum payload

The installation of **optional equipment** is also subject to technical and legal limits: It is only permissible to order an amount of optional equipment for installation at the factory that will leave sufficient free weight for baggage and other accessories (i.e. "payload") without exceeding the technically permissible maximum laden mass.

The payload is obtained by deducting the mass in running order (nominal value according to sales documents; see no. 2 above) and the mass of the optional equipment from the technically permissible maximum laden mass (see no. 1 above). The EU regulations stipulate a fixed minimum payload for caravans that must remain as a minimum for baggage or other accessories not installed at the factory. This minimum payload is calculated as follows:

Minimum payload in kg $\geq 10 \cdot (n + L)$

where "n" = maximum number of sleeping berths and

"L" = total length of the vehicle body (without drawbar).

The maximum number of sleeping berths corresponds to the actual configured sleeping berths of the individual vehicle. For a caravan with 6 designated sleeping berths and a total length of the vehicle body of 7 m, the minimum payload is calculated as follows: $10 \text{ kg} \cdot (6 + 7) = 130 \text{ kg}$.

To ensure that the minimum payload is maintained, there is a maximum combination of optional equipment that can be ordered for each vehicle model. In the above example with a minimum payload of 130 kg, the total mass of the optional equipment for a vehicle with 6 designated sleeping berths and a mass in running order of 1,750 kg should not exceed 120 kg:

2,000 kg technically permissible maximum laden mass

- 1,750 kg mass in running order
- 130 kg minimum payload
- = **120 kg maximum permissible mass for optional equipment**

It is important to note that this calculation is based on the standard value for the mass in running order specified in the type approval procedure and does not account for permissible weight deviations for the mass in running order (see no. 2 above). If the maximum permissible value of 120 kg for the optional equipment is nearly or fully exhausted in this example and the standard value of the mass in running order is applied, it is possible for the minimum payload of 130 kg to be complied with mathematically in the event of an upward weight deviation even if the vehicle has no load capacity.

Here is another example calculation for a vehicle with 6 sleeping berths whose actual weighed mass in running order is 2% above the nominal value:

2,000 kg technically permissible maximum laden mass

- 1,785 kg actual weighed mass in running order
(in the example: 2% higher than the specified value of 1,750 kg)
- 120 kg optional equipment (maximum permissible value)
- = **95 kg actual load capacity**
($<$ minimum payload of 130 kg)

To avoid such a situation, Dethleffs further reduces the maximum permissible weight of the total optional equipment that can be ordered depending on the specific model. The limitation of optional equipment is intended to ensure that the minimum payload, i.e. the legally prescribed free mass for baggage and retrofitted accessories, is actually available for the load capacity of the vehicles delivered by Dethleffs.

Since the weight of a specific vehicle can only be determined when it is weighed at the end of the line, in very rare cases a situation may arise in which the minimum payload is not guaranteed at the end of the line despite this limitation of optional equipment. In order to guarantee the minimum payload even in these cases, Dethleffs will check together with your trading partner and you before delivery of the vehicle whether, for example, the load capacity of your vehicle is to be increased or optional equipment removed.

5. Effects of tolerances of the mass in running order on the remaining load capacity

Irrespective of the minimum payload, you should bear in mind that unavoidable production-related fluctuations in the mass in running order – both upwards and downwards – have a corresponding effect on the remaining load capacity: If, for example, you order our example vehicle with optional equipment with a total weight of 90 kg, the calculated payload based on the standard value for the mass in running order is 160 kg.

The load capacity actually available may deviate upwards or downwards from this value due to tolerances. If the mass of your vehicle in running order is approximately 2% higher than specified in the sales documents, the load capacity is reduced from 160 kg to 125 kg:

2,000 kg technically permissible maximum laden mass

- 1,785 kg actual weighed mass in running order
(in the example: 2% higher than the specified value of 1,750 kg)
- 90 kg ordered optional equipment of the specific vehicle
- = **125 kg actual load capacity**

In order to ensure that the calculated payload is actually adhered to, you should therefore take the possible and permissible tolerances for the mass in running order into account as a precaution when configuring your vehicle.

We also recommend weighing the loaded caravan on a scale before each journey to check whether the technically permissible total weight is adhered to. In addition, we recommend checking the actual drawbar load of the loaded vehicle. This must not be higher than the max. drawbar load of the towing vehicle. Furthermore, the technically permissible maximum laden mass of the vehicle combination must be observed when loaded, i.e. the maximum mass of the combination of your motor vehicle and your caravan.