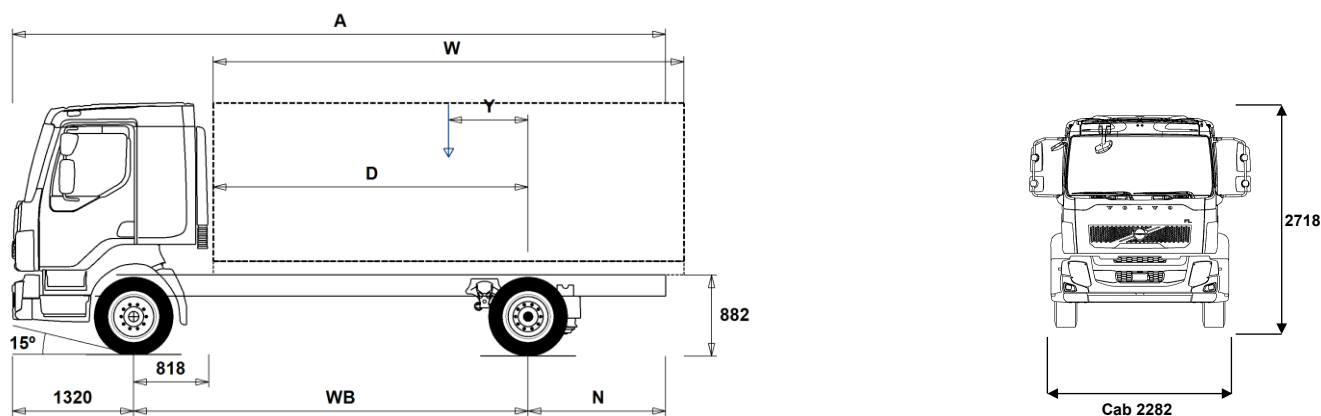


# MODEL RANGE

FL 42R GVW12 8L air FL 42 R 812A



## Chassis Dimensions [mm]

| WB Wheelbase                           | 3500 | 3800 | 4100 | 4400 | 4700 | 5000 | 5300 | 5600  | 5900  | 6200  | 6500  |
|----------------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| A Overall Chassis Length               | 6975 | 7425 | 7955 | 8425 | 8915 | 9435 | 9915 | 10425 | 10835 | 11430 | 11730 |
| D Center of rear axle to front of body | 2632 | 2932 | 3232 | 3532 | 3832 | 4132 | 4432 | 4732  | 5032  | 5332  | 5632  |
| N Rear Overhang (Min.)                 | 1685 | 1885 | 2085 | 2255 | 2485 | 2685 | 2895 | 3095  | 3295  | 3505  | 3755  |
| N Rear Overhang (Max.)                 | 2155 | 2305 | 2535 | 2705 | 2895 | 3115 | 3295 | 3505  | 3615  | 3910  | 3910  |
| Y Center of Gravity for Payload (Min.) | 115  | 122  | 132  | 141  | 147  | 153  | 159  | 166   | 164   | 172   | 173   |
| Y Center of Gravity for Payload (Max.) | 593  | 643  | 696  | 748  | 798  | 848  | 898  | 950   | 995   | 1047  | 1093  |
| W Body Length (Min.)                   | 4078 | 4578 | 5072 | 5568 | 6069 | 6568 | 7067 | 7565  | 8074  | 8570  | 9079  |
| W Body Length (Max.)                   | 4732 | 5212 | 5692 | 6172 | 6652 | 7132 | 7612 | 8092  | 8572  | 9052  | 9532  |

## Chassis Weights [kg]

|                                              |      |      |      |      |      |      |      |      |      |      |      |
|----------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Front Axle                                   | 3260 | 3265 | 3265 | 3265 | 3275 | 3280 | 3285 | 3290 | 3300 | 3305 | 3310 |
| Rear Axle                                    | 1420 | 1445 | 1465 | 1480 | 1500 | 1530 | 1550 | 1565 | 1595 | 1615 | 1620 |
| Kerb Weight                                  | 4680 | 4710 | 4730 | 4745 | 4775 | 4810 | 4835 | 4855 | 4895 | 4920 | 4930 |
| Payload (including body, driver, fuel, etc.) | 7320 | 7290 | 7270 | 7255 | 7225 | 7190 | 7165 | 7145 | 7105 | 7080 | 7070 |

## Turning Diameter [mm]

|                                      |       |       |       |       |       |       |       |       |       |       |       |
|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Turning Circle Diameter Kerb to Kerb | 12400 | 13300 | 14200 | 15100 | 16000 | 16900 | 17800 | 18700 | 19600 | 20500 | 21400 |
| Turning Circle Diameter Wall to Wall | 13700 | 14600 | 15500 | 16400 | 17300 | 18200 | 19100 | 20000 | 20900 | 21800 | 22700 |

## Plated Weights [kg]

|                          | Design |
|--------------------------|--------|
| Gross Vehicle Weight     | 12000  |
| Gross Combination Weight | 15500  |
| Front Axle               | 4500   |
| Rear Axle                | 8500   |

## Important Notes

### Chassis Dimensions

Cab Height: +39 mm for CAB-CRW.

Front Axle to Back of Cab: +978 mm for CAB-CRW, -280 mm for CAB-DAY.

D-measure includes a front clearance of 50 mm and for rigid trucks also a subframe of 120 mm.

Height can vary  $\pm 20$  mm for leaf and  $\pm 10$  mm for air suspension.

All dimensions are for unladen chassis and any tag axles down.

Weight and dimensions are based upon the following tyres:

Front Axle Tyres: 265/70R19.5

Drive Axle Tyres: 265/70R19.5

Chassis weight includes oil, water, AdBlue, 0 litres fuel and without driver. Kerb weight can vary  $\pm 3\%$ .

Turning diameters are theoretically calculated.

Legal weights can differ from country to country.

For more detailed weight information, including optional equipment weights, ask your Volvo sales contact to enter your specification into the Volvo Weight Information system (WIS).

Do NOT use this drawing for bodybuilding. Refer to Volvo Bodybuilder Instructions and chassis assembly drawing FL42R812A.

# MODEL RANGE

FL 42R GVW12 8L air FL 42 R 812A

## Core components

- **CHH-MED** Chassis height medium - approx. 900 mm above ground level
- **RAD-A2V** Rear air suspension - one axle, driving
- **FL-CREW2** FL Crew cab
- **FL-DAY2** FL Day cab
- **FL-SSLP2** FL Comfort cab
- **EU6SCR** Euro 6 with SCR, particulate filter and EGR, Turbo-S
- **D8K250** Diesel engine, Euro 6, 7.7 litres, 250 hp/184 kW, 950 Nm
- **D8K280** Diesel engine, Euro 6, 7.7 litres, 280 hp/206 kW, 1050 Nm
- **ATO1056**
- **ZTO1006** Manual 6-speed gearbox, 1050 Nm
- **EBR-CEB** Engine compression and exhaust brake
- **EBR-EPG** Engine brake with exhaust pressure governor
- **RSS1125A** Rear single reduction solo axle - axle load 11 tonnes, GCW 25 tonnes
- **RSS1132A** Rear single reduction solo axle - axle load 11 tonnes, GCW 32.5 tonnes

## Packages

- **DRIVEFL** Driver convenience package FL
- **VISIFL** Visibility package FL
- **AIRFLOW** Airflow package with roof and side air deflectors and chassis fairings
- **AUDIODAB** Audio system with DAB radio and DAB amplifier
- **AUDIOPD** Preparation kit for DAB radio, including DAB amplifier

## Chassis

- **FST-PAR** Two-leaf front parabolic springs (normal stiffness)
- **FAL4.5** Front axle load 4.5 tonnes
- **FAL5.0** Front axle load 5.0 tonnes
- **RAL8.5** Rear axle load 8.5 tonnes
- **EBS-MED** EBS (Electronic Braking System), Medium package
- **EBS-STD** EBS (Electronic Braking System), Standard package
- **RST-AIR** Rear air springs
- **SUSPL-E1** Remote control with wander lead for air suspension levelling, 1 sensor on rear axle
- **SUSPL-E2** Remote control with wander lead for air suspension levelling, 2 sensors on rear axle
- **SUSPL-E3** Three dashboard switches for air suspension levelling, 1 sensor on rear axle
- **FST6060** Frame thickness - web 6.0 mm / flange 6.0 mm
- **FST7070** Frame thickness - web 7.0 mm / flange 7.0 mm
- **FST8080** Frame thickness - web 8.0 mm / flange 8.0 mm
- **2BATT170** Batteries, 2x170 Ah
- **ADR2** ADR adaptation, 1 switch in dashboard, 1 outside on back of cab
- **R80P** Right 80-litre plastic fuel tank  
Min volume 80l  
Max volume 430l
- **UL-FUEL** Without left side fuel tank  
Min volume 80l  
Max volume 215l
- **ADTP-L** AdBlue tank on left hand side
- **ADTP-R** AdBlue tank on right hand side
- **WHC-FIX1** One non-collapsible wheel chock
- **WHC-FIX2** Two non-collapsible wheel chocks
- **TOWMBRH** Towing member, high-mounted in centre of frame
- **C-RO40AG** Towing coupling Rockinger 400 G-145
- **TOWF-NO1** One front towing device
- **TOWF-NO2** Two front towing devices

- **TOWR-ONE** Rear towing device in frame-end cross member
- **TREL15** 15-pin trailer connection (ADR certified)
- **TBC-EC** Trailer brake connection, European Community
- **RUP-FIX2**
- **RFEND-T** Transport mudguard

## Rims and tyres

- **RT-AL** Brushed aluminium rims with standard holes (long stud fixing) on all axles
- **RT-ALDP** Dura-Bright® polished aluminium rims with standard holes (long stud fixing) on all axles
- **RT-STEEL** Steel rims on all axles
- **SPWT-F** Spare front wheel
- **SWCP-LF** Spare wheel carrier on left side in front of rear axle
- **SWCP-R** Spare wheel carrier mounted behind rear axle
- **SWCP-T** Spare wheel transport-mounted on top of frame
- **SWCP-TP** Spare wheel and carrier transport-mounted on top of frame
- **JACK-8T** Hydraulic jack, 8 tonnes. Low manual pumping force facilitates use in uncomfortable positions. Has a release valve, which permits safe, easy and precise control over rate of lowering and a filter in the oil reservoir gives protection from contamination. Colour RAL 9004. Height 227-469 mm, weight 7.3 kg
- **GAUGE-TP** Tyre pressure gauge

## Powertrain equipment

- **CS39A-O** Single-plate clutch, plate diameter 395 mm
- **RET-TPT** Gearbox-mounted Powertronic primary retarder
- **TC-HWO** Oil cooler for hydraulic transmissions – water/oil
- **1COMP500** Single-cylinder air compressor 360 cc, 500 l/min
- **2COM1080** Dual-cylinder air compressor 704 cc, 1080 l/min
- **AIRIN-HI** High air inlet
- **AIRIN-RL** Low air inlet, chassis mounted behind cab on left-hand side
- **ACL1ST** Air cleaner with one filter element
- **ACL1ST-S** Air cleaner with extra filter element
- **24AL110B** Alternator 110 Ampere
- **24AL130B** Alternator 130 Ampere
- **CCV-C** Closed crankcase ventilation
- **CCV-OX** Open extended crankcase ventilation with oil separator and maintenance-free gas centrifuge
- **EST-AID** Engine intake air heater
- **PTER-100** Rear engine, clutch-independent PTO, flange connection, DIN 100/ISO 7646
- **PTER-DIN** Rear engine, clutch-ind. PTO, splined shaft groove (fem), close-coupled pump DIN 5462/ISO7653
- **PTER1400** Rear engine, clutch-independent PTO, flange connection, SAE 1410/ISO 7647
- **PR-HF4S** Rear gearbox (side) PTO, flange connection
- **PR-HF4SH** Rear gearbox (side) PTO, flange connection, high-speed
- **PR-HF6S** Rear gearbox (side) PTO, flange connection
- **PR-HP4S** Preparation kit for rear, side-mounted gearbox PTO, pump connection, 400 Nm
- **PR-HP4SH** Rear gearbox PTO, pump connection, side-mounted, high-speed
- **PR-HP6S** Preparation kit for rear, side-mounted gearbox PTO, pump connection, 600 Nm
- **PTR-FH1** Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft 800 Nm
- **PTR-FH2** Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft, 430 Nm
- **PTR-FH5** Rear gearbox PTO with flange connection DIN 90/ISO 7646 for propshaft, 450 Nm
- **PTR-PH1** Rear gearbox PTO Hydrocar S81, connection DIN 5462/ISO 7653 for pump, 800 Nm

■ Standard Equipment      □ Optional Equipment

For more detailed information about cab and powertrain equipment, please refer to separate specification sheets.

For all possible options and combinations of options please consult your Volvo sales contact who can create a specification to match your requirements using the Volvo Sales Support system (VSS).

The factory reserves the right to modify design and change equipment without previous notification. The specification can vary from country to country.

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- **PTR-PH2** Rear gearbox PTO Hydrocar S84, connection DIN 5462/ISO 765 for pump, 430 Nm
- **PTR-PH4** Rear gearbox PTO Hydrocar S88, connection DIN 5462/ISO 7653 for pump, 450 Nm
- **PTR-PK** Preparation kit for rear gearbox PTO
- **PTR-ZF2** Rear gearbox PTO ZF, flange connection DIN 100/ISO 7646 for propshaft, 410 Nm
- **PTR-ZF3** Rear gearbox PTO ZF, connection DIN 5462/ISO 7653 for pump, 410 Nm
- **PTR-ZF4** Rear gearbox PTO ZF, flange connection DIN 100/ISO 7646 for propshaft, 320 Nm
- **PTR-ZF5** Rear gearbox PTO ZF, connection DIN 5462/ISO 7653 for pump, 320 Nm
- **PTR-ZF6** Rear gearbox PTO ZF, flange connection DIN 100/ISO 7646 for propshaft, 270 Nm
  
- **HPG-F101** Gearbox-mounted hydraulic pump F1-101, fixed displacement, single flow
- **HPG-F41** Gearbox-mounted hydraulic pump F1-41, fixed displacement, single flow
- **HPG-F51** Gearbox-mounted hydraulic pump F1-51, fixed displacement, single flow
- **HPG-F61** Gearbox-mounted hydraulic pump F1-61, fixed displacement, single flow
- **HPG-F81** Gearbox-mounted hydraulic pump F1-81, fixed displacement, single flow
  
- **ETC** PTO speed control 900-1500 rpm with dash-mounted switch

## Cab interior

- **TAS-DIG4** Gen 4 one-day digital tachograph, EC approved (GNSS & DSRC, EU 2020/1054)
  
- **TSRS** Road sign recognition
- **TSRS2** Road sign recognition (not ISA compliant)

## Cab exterior

- **SUNV-B** Exterior front sun visor, transparent dark-grey
- **SUNV-PK** Preparation kit for exterior front sun visor (cab roof reinforcement)
  
- **AD-SIDES** Cab side air deflectors, short
- **BEACON-P** Preparation kit for roof beacons
- **BEACONA2** Two amber LED beacons on cab front roof

## Superstructure preparations

- **PCA90192** SKAB turnkey box body for distribution, GVW 12 tonnes, wheelbase 5000 mm
- **PCA90193** SKAB turnkey box body for distribution, GVW 12 tonnes, wheelbase 4700 mm
  
- **FBA-BTF** Front body attachment brackets, lower, for flexible body
- **FBA-BTSF** Front body attachment brackets, lower, for semi-flexible body
- **RBA-T2** Rear body attachment brackets, lower
- **TAILPREP** Tail lift preparation kit

## Services

- **TGW-4G**
  
- **WVTA** Whole Vehicle Type Approved

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