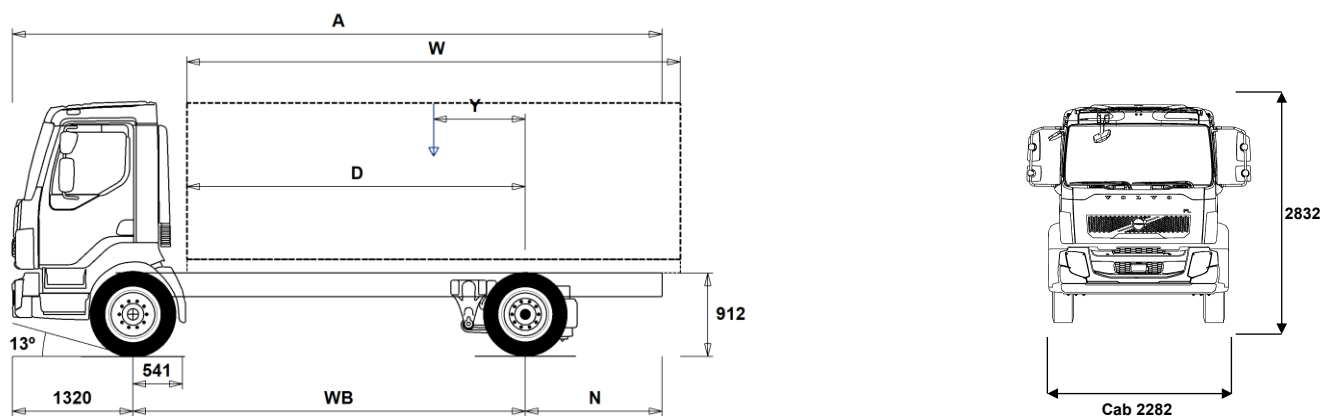


MODEL RANGE

FL 42R GVW18 8L air FL 42 R 818A



Chassis Dimensions [mm]

WB Wheelbase	3500	3800	4100	4400	4700	5000	5300	5600	5900	6200	6500	6800
A Overall Chassis Length	6975	7425	7955	8425	8915	9435	9915	10425	10835	11430	11730	12030
D Center of rear axle to front of body	2909	3209	3509	3809	4109	4409	4709	5009	5309	5609	5909	6209
N Rear Overhang (Min.)	1310	1310	1475	1475	1475	1975	2155	2305	2535	2705	2835	3025
N Rear Overhang (Max.)	2155	2305	2535	2705	2895	3115	3295	3505	3615	3910	3910	3910
Y Center of Gravity for Payload (Min.)	828	903	978	1054	1129	1205	1279	1355	1429	1506	1576	1649
Y Center of Gravity for Payload (Max.)	992	1081	1171	1261	1351	1442	1531	1621	1710	1802	1887	1974
W Body Length (Min.)	3835	4257	4676	5097	5516	5935	6357	6775	7199	7613	8043	8469
W Body Length (Max.)	4162	4613	5061	5511	5960	6408	6859	7307	7761	8205	8665	9121

Chassis Weights [kg]

Front Axle	3465	3460	3450	3445	3445	3440	3445	3445	3450	3445	3460	3465
Rear Axle	1700	1735	1775	1805	1840	1870	1900	1925	1955	1985	2000	2010
Kerb Weight	5165	5195	5225	5250	5285	5310	5345	5370	5405	5430	5460	5475
Payload (including body, driver, fuel, etc.)	12835	12805	12775	12750	12715	12690	12655	12630	12595	12570	12540	12525

Turning Diameter [mm]

Turning Circle Diameter Kerb to Kerb	13100	14000	14900	15900	16800	17800	18700	19700	20600	21500	22500	23400
Turning Circle Diameter Wall to Wall	14200	15100	16100	17000	18000	18900	19900	20800	21700	22700	23600	24600

Plated Weights [kg]

	Design
Gross Vehicle Weight	18000
Gross Combination Weight	21000
Front Axle	7100
Rear Axle	11500

Important Notes

Chassis Dimensions

Front Axle to Back of Cab: +277 mm for CAB-SSLP.
D-measure includes a front clearance of 50 mm and for rigid trucks also a subframe of 120 mm.
Height can vary ± 20 mm for leaf and ± 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: 315/60R22.5
Drive Axle Tyres: 295/60R22.5

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 FL42R818A.

MODEL RANGE

FL 42R GVW18 8L air FL 42 R 818A

Core components

- **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
- **AL306** Automatic 6-speed gearbox, 1695 Nm
- **ATO1056**
- **ZTO1006** Manual 6-speed gearbox, 1050 Nm
- **EBR-CEB** Engine compression and exhaust brake
- **EBR-EPG** Engine brake with exhaust pressure governor
- **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-AIR** Front air suspension
- **FST-PAR** Two-leaf front parabolic springs (normal stiffness)
- **EBS-MED** EBS (Electronic Braking System), Medium package
- **EBS-STD** EBS (Electronic Braking System), Standard package
- **RST-AIR** Rear air springs
- **SUSPL-E2** Remote control with wander lead for air suspension levelling, 2 sensors on rear axle
- **SUSPL-E4** Three dashboard switches for air suspension levelling, 2 sensors on rear axle
- **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 160l
Max volume 210l
- **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-10T** Hydraulic jack, 10 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 200-518 mm, weight 9,2 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-FR** Front air inlet
- **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
- **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

■ 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.

MODEL RANGE

FL 42R GVW18 8L air FL 42 R 818A

- **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

- **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

Volvo Trucks. Driving Progress