Technical sheet:

ER 12



Manufacturer Manufacturer EF12		Technical characteristics		Metric	
1.4	1.1	Manufacturer		Manitou	
1.4	1.2	Model Name		ER 12	
1.5 Max. capacity c 600 mm 1.8 Loud distance, center of drive and to fork x 335 mm 1.9 Wheelbase y 1378 mm 2.1 Service weight 2800 kg 2800 kg 2.1 Times byes 2800 kg 2800 kg 3.1 Times byes 1x 355 x 155 1x 355 x 155 3.2 Number of front wheels - Size of drive wheels 1x 25 x 20x 85 1x 25 x 155 3.3 Number of front wheels x 12x end wheels 1x 25 x 20x 85 1x 25 x 155 3.3 Front wheel gauge b10 0 mm 9 mm 3.7 Rear wheel gauge b10 0 mm 9 mm 4.8 See th eight/stand helpht h7 1077 mm 1077 mm 4.8 See th eight/stand helpht h7 0 mm 10 mm 10 mm 4.2 Forks section / width / length 5 / e / l 40 mm x 100 mm 11 mm 241 mm 10 mm 12 mm 1	1.3	Power source		Electrical - Lead	
1.6	1.4	Operator type		Seated	
1.8 Load distance, centre of dime axie to fook x 335 mm 1.9 Wheelbase y 1378 mm 2.1 Service weight	1.5	Max. capacity	Q	1200 kg	
1378 mm 1378	1.6	Load center of gravity	С	600 mm	
Neght Service weight Service weigh	1.8	Load distance, centre of drive axle to fork	x	335 mm	
Service weight Windows Windows	1.9	Wheelbase	у	1378 mm	
Nime		Weight			
1 1 1 1 1 1 1 1 1 1	2.1	Service weight		2580 kg	
3.5.2 Number of drive wheels - Size of drive wheels 1 x 355 x 155 3.3 Number of load wheels - Size of load wheels 1 / 2 3.5 Number of fload wheels / rear wheels 1 / 2 3.6 Front wheel gauge b10 0 mm 3.7 Rear wheel gauge b10 9995 mm 4.8 Seat height/stand height h7 1077 mm 4.9 Cherall length 11 2413 mm 4.20 Length to face of forks 12 1268 mm 4.21 Overall width 5 / 4 40 mm x 100 mm / 1150 mm 4.22 Fork section / width / length 5 / 4 40 mm x 100 mm / 1150 mm 4.23 Fork section / width / length 5 / 4 40 mm x 100 mm / 1150 mm 4.24 Pork section / width / length 5 / 4 40 mm x 100 mm / 1150 mm 4.25 Obitatione between wheel amms/loading surfaces b1 2 / 4 4.25 Obitatione between wheel amms/loading surfaces b5 316 mm / 697 mm 4.25 Obitatione between wheel amms/loading surfaces b5 36 mm / 697 mm		Wheels			
3.3 Number of load wheels - Size of load wheels 1 / 2 3.5 Number of front wheels / ear wheels 1 / 2 3.6 Foot wheel gauge b10 0 mm 3.7 Rear wheel gauge b11 995 mm 4.8 Seat height/stand height h7 1 1077 mm 4.9 Overall length 11 2413 mm 4.20 Overall width b1 1 120 mm 4.21 Overall width b1 1 120 mm 4.22 Fork section / width / length s / e / l 40 mm x 100 mm / 150 mm 4.22 Fork section / width / length s / e / l 40 mm x 100 mm / 150 mm 4.23 Fork section / width / length s / e / l 40 mm x 100 mm / 150 mm 4.24 Fork section / width / length s / e / l 40 mm x 100 mm / 150 mm 4.25 O'ck carriage (DS 232 (class/from) A/B s / e / l 40 mm x 100 mm / 150 mm 4.25 O'ck carriage (DS 232 (class/from) A/B s / e / l 40 mm x 100 mm / 150 mm 4.25 O'ck carriage (Sa Carriage (classion / mail of the carriage (classion / mail of the carri	3.1	Tires type		Vulkollan	
3.5 Number of front wheels / rear wheels 1 / 2 3.6 Front wheel gauge b10 0 mm 0 Dimensions	3.5.2	Number of drive wheels - Size of drive wheels		1 x 355 x 155	
3.6 Front wheel gauge b10 0 mm 3.7 Rear wheel gauge b11 995 mm 4.8 Seat height/stand height h7 1077 mm 4.19 Overall length I1 2413 mm 4.20 Length to face of forks 12 1263 mm 4.21 Overall width 5 / 2 40 mm x 100 mm / 150 mm 4.22 Fork section / width / length 5 / 2 40 mm x 100 mm / 150 mm 4.23 Fork carriage ISO 2328 (class/form) A/B 2 / 2 2A 4.26 Distance between wheel amms/loading surfaces b5 316 mm / 697 mm 4.27 Width over forks min. / max. b5 316 mm / 697 mm 4.28 Giound clearance at centre of wheelbase m2 70 mm 4.29 Aisle width for 1000 x 1200 pallet lengthways Ast 2254 mm 4.31 Aisle width for 1000 x 1200 pallet lengthways Ast 2275 mm 4.32 Tuming radius Ma 2594 mm 4.35 Lifting speed (laden / unladen) Na 21 250 km/h </td <td>3.3</td> <td>Number of load wheels - Size of load wheels</td> <td></td> <td>2 x 220 x 85</td>	3.3	Number of load wheels - Size of load wheels		2 x 220 x 85	
3.7 Rear wheel gauge b11 995 mm 4.8 Rear wheel gauge b17 1077 mm 4.19 Overall length 11 2413 mm 4.20 Length to face of forks 12 122 mg 122 mg <th< td=""><td>3.5</td><td>Number of front wheels / rear wheels</td><td></td><td>1/2</td></th<>	3.5	Number of front wheels / rear wheels		1/2	
3.7 Rear wheel gauge b11 995 mm 4.8 Sear height/stand height h7 1077 mm 4.19 Overall length 11 2413 mm 4.20 Length to face of forks 12 21263 mm 4.21 Fork carriage ISO 2232 (class/form) A/B 5 e/1 40 mm x 100 mm / 1150 mm 4.22 Fork carriage ISO 2232 (class/form) A/B 5 e/1 40 mm x 100 mm / 1150 mm 4.23 Fork carriage ISO 2232 (class/form) A/B 5 e/1 40 mm x 100 mm / 1150 mm 4.25.1 Width over forks min. / max. 5 f 316 mm / 697 mm 4.25.1 Width over forks min. / max. 5 f 316 mm / 697 mm 4.25.1 Width over forks min. / max. 5 f 316 mm / 697 mm 4.25.1 Width over forks min. / max. 6 f 207 mm 4.32 Alse width of 1000 v. 1200 pallet lengthways Ast 2751 mm 4.33 Alsie width for 800 x 1200 pallet lengthways Ast 2751 mm 4.35 Turning radius 8 1598 mm 5.1 Parformance 0.50 m/s 10.55	3.6	Front wheel gauge	b10	0 mm	
4.8 Seat height/stand height h7 1077 mm 4.19 Overall length 11 2413 mm 4.20 Length to face of forks 12 1263 mm 4.21 Overall width bit 11120 mm 4.22 Fork section / Width / length s / e/1 40 mm x 100 mm / 1150 mm 4.23 Fork carriage ISO 2328 (class/form) A/B 2A 2A 4.24 Distance between wheel arms/loading surfaces b4 900 mm 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m5 2 70 mm 4.32 Aisle width for 1000 x 1200 pallet lengthways Ast 2 2751 mm 4.33 Aisle width for 1000 x 1200 pallet lengthways M8 2 2751 mm 4.35 Timing reget (laden / unladen) W8 1259 mm 5.1 Travel speed (laden / unladen) 5 1.05 m/s / 0.5 m/s 5.2 Lowering speed (laden / unladen) 5	3.7		b11	995 mm	
4.19 Overall length foace of forks 11 2413 mm 4.20 Length to face of forks 12 1265 mm 4.21 Overall width bit 1120 mm 4.22 Forks section / width / length s / e / l 40 mm x 100 mm / 1150 mm 4.23 Fork carriage ISO 2292 (class / form) A / B 5 2A 4.26 Distance between wheel ams/loading surfaces b5 316 mm / 697 mm 4.27 Width over forks min / max. b5 316 mm / 697 mm 4.28 Ground clearance at centre of wheelbase m2 70 mm 4.31 Alse width for 1000 x 1200 pallet lengthways Ast 251 mm 4.32 Alse width for 800x 1200 pallet lengthways Ast 2751 mm 4.33 Alse width for 800x 1200 pallet lengthways Ast 2751 mm 4.34 Alse width for 800x 1200 pallet lengthways Ast 2751 mm 4.35 Turning radius Wa 1598 mm 4.7 Height of overhead guard (cabin) B 200 ms / 50 cm / 50 cm / 50 mm 5.1 Tave Ispeed (laden / unlad					
4.19 Overall length 11 2413 mm 4.20 Length foace of forks 12 1268 mm 4.21 Fork section / width / length 51 110 mm 4.22 Fork section / width / length 8 / e / l 40 mm x 100 mm / 1150 mm 4.23 Fork carriage ISO 2282 (class / form) A/B 54 90 mm 4.26 Distance between wheel amm/loading surfaces b5 316 mm / 697 mm 4.27 Width over forks min / max. b5 316 mm / 697 mm 4.28 Ground clearance at centre of wheelbase m2 70 mm 4.31 Alse width for 900x x 1200 pallet lengthways Ast 251 mm 4.32 Alse width for 900x x 1200 pallet lengthways Ast 251 mm 4.34 Alse width for 900x x 1200 pallet lengthways Ast 251 mm 4.35 Turning radius M8 251 mm 4.37 Tavel speed (laden / unladen) B16 2205 mm 5.1 Tavel speed (laden / unladen) 5.0 5.0 m/s / 0.55 m/s 5.2 Lifting speed (laden / unladen) 5.0<	4.8	Seat height/stand height	h7	1077 mm	
4.20 Length to face of forks 12 1263 mm 4.21 Overall width b1 1120 mm 4.22 Fork section / width / length \$ /e / 1 40 mm x 100 mm / 1150 mm 4.23 Fork carriage ISO 2328 (class/form) A/B 2A 4.26 Distance between wheel amms/loading surfaces b4 900 mm 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.27 Ground clearance at centre of wheelbase m2 70 mm 4.32 Asile width for 1000 x 1200 pallet lengthways Ast 2594 mm 4.33 Alsie width for 800 x 1200 pallet lengthways Ast 2751 mm 4.34 Alsie width for 800 x 1200 pallet lengthways Ast 2751 mm 4.35 Tuming radius Ma 1598 mm 4.7 Height of overhead guard (cabin) Ma 1598 mm 5.1 Taval speed (laden / unladen) 0.50 m/s / 0.50 m/s 0.50 m/s / 0.55 m/s 5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.55 m/s 0.50 m/s / 0.55 m/s 5.1 Gradeability (aden / unladen)<	4.19			2413 mm	
4.21 Overall width b1 1120 mm 4.22 Forks section / width / length s / e / l 40 mm x 100 mm / 1150 mm 4.23 Fork carriage ISO 2328 (class/from) A/B Distance between wheel amms/loading surfaces b4 900 mm 4.26 Distance between wheel amms/loading surfaces b5 316 mm / 697 mm 4.27 Width over forks min. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 A sile width for 800 x 1200 pallet lengthways Ast 2694 mm 4.34 A isle width for 800 x 1200 pallet lengthways Ast 2751 mm 4.35 Tuming radius Ma 1598 mm 4.7 Height of overhead guard (cabin) Ma 1598 mm 4.7 Travel speed (laden / unladen) M 20.50 m/s / 0.56 m/s 5.1 Tavel speed (laden / unladen) 5.0 0.50 m/s / 0.56 m/s 5.1 Reach speed (with load / without load) 5.0 0.50 m/s / 0.56 m/s 5.1 Reach speed (with load / without load) 5.0 0.50 m/s / 0.	4.20		12	1263 mm	
4.22 Foks section / width / length s / e / l 40 mm x 100 mm / 1150 mm 4.23 Fock carriage ISO 2388 (class/form) A/B 2A 4.26 Distance between wheel ams/loading surfaces b5 316 mm / 697 mm 4.25.1 Width over flook smin. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2751 mm 4.34 Aisle width for 1000 x 1200 pallet lengthways Ma 1598 mm 4.35 Tunning radius Wa 1598 mm 4.70 Height of overhead guard (cabin) Wa 1598 mm 4.71 Height of overhead guard (cabin) Ma 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) Tavel speed (laden / unladen) Tavel speed (laden / unladen) 0.50 m/s / 0.55 m/s 5.3 Lowering speed (laden / unladen) To.50 m/s / 0.50 m/s 0.50 m/s / 0.55 m/s 5.1 Reach speed (with load / without load) To.50 m/s / 0.50 m/s 0.50 m/s / 0.50 m/s 5.7 Gradeability (laden / unlad				1120 mm	
4.23 Fork carriage ISO 2328 (class/form) A/B 2A 4.26 Distance between wheel arms/loading surfaces b4 900 mm 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2694 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2751 mm 4.35 Tuming radius Ma 1598 mm 4.7 Height of owerhead guard (cabin) h6 2205 mm 6.1 Travel speed (laden / unladen) 10.20 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.58 m/s / 0.55 m/s 5.3 Lowering speed (laden / unladen) 0.58 m/s / 0.58 m/s 5.4.1 Reach speed (with load / without load) 0.58 m/s / 0.55 m/s 5.10 Service brake Electric 6.1 Drive motor rating \$2.50 min 5.90 kW 6.1 Drive motor rating \$2.50 min 5.90 kW 6.2 Lift motor rating \$4.5315% A, B, C 0.00 m/s / 0.0		Forks section / width / length	s / e / l	40 mm x 100 mm / 1150 mm	
4.26 Distance between wheel ams/loading surfaces b4 900 mm 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Aisle width for 800 x 1200 pallet lengthways Ast 2.694 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ma 1.598 mm 4.35 Tuming radius Ma 1.598 mm 4.7 Helight of overhead guard (cabin) Ma 2.205 mm 4.7 Helight of overhead guard (cabin) Ma 12.30 km/h / 12.50 km/h 5.1 Travel speed (laden / unladen) 5.00 km/h 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 5.00 km/s / 0.50 m/s / 0.50 m/s 0.58 m/s / 0.55 m/s 5.1 Reach speed (with load / without load) 5.00 km/s / 0.50 m/s / 0.50 m/s 0.50 m/s / 0.50 m/s 5.1 Gradeability (laden / unladen) 5.00 km/s / 0.50 m/s 7.50 k/ 11.10 k 5.1 Beatery seed teak Electric 11 kW 6.1 Drive borake 5.00 kW 5.00 kW		-		2A	
4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2694 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2751 mm 4.35 Tuming radius Wa 1598 mm 4.7 Height of overhead guard (cabin) h6 2205 mm 4.7 Performances Travel speed (laden / unladen) 12.00 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.55 m/s 5.3 Lowering speed (laden / unladen) 0.50 m/s / 0.55 m/s 5.4 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 0.20 m/s / 0.20 m/s 5.1 Regince brake Electric 6.2 Engline 11 kW 6.3 Dive motor rating s2.60 min 5.90 kW 6.2 Lift motor rating s2.60 min 5.90 kW 6.3 Battery voltage / capacity 48 t/ 310 Ah 6.4 Battery weight (+/- 5%) 730 kg 6.5	4.26		b4	900 mm	
4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2694 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ma 1598 mm 4.35 Turning adius Ma 1598 mm 4.7 Height of overhead guard (cabin) h6 2205 mm Performances 5.1 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.55 m/s 5.3 Lowering speed (laden / unladen) 0.50 m/s / 0.50 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) Electric 5.1 Engine Electric 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating \$2.60 min 5.90 kW 6.3 Battery according to DIN 43531/35/36 A, B, C 5.90 kW 6.4 Battery voltage / capacity 48 V / 310 Ah 6.4 Battery weight (+/- 5%) 730 kg 6.7 Miscellaneous 1 8.1 Type of drive control Electronic 8.3 Oil flow ra		-	b5	316 mm / 697 mm	
4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2751 mm 4.35 Tuming radius Wa 1598 mm 4.7 Height of overhead guard (cabin) h6 2205 mm Performances Colspan="2">Co	4.32	Ground clearance at centre of wheelbase	m2	70 mm	
4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2751 mm 4.35 Tuming radius Wa 1598 mm 4.7 Height of overhead quard (cabin) h6 2205 mm Performances 5.1 Travel speed (laden / unladen) 0.50 m/s / 0.55 m/s 5.2 Lifting speed (laden / unladen) 0.58 m/s / 0.55 m/s 5.3 Lowering speed (with load / without load) 0.20 m/s / 0.20 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 0.20 m/s / 0.20 m/s 5.1 Service brake Electric Engine Electric 6.1 Drive motor rating s2 60 min 5.90 kW 6.2 Lift motor rating s2 50 min 5.90 kW 6.3 Battery according to DIN 43531/35/36 A, B, C 11 kW 6.3 Battery veltage / capacity 48 V / 310 Ah 6.4 Battery weight (+/- 5%) 730 kg Milscellaneous 8 Electronic 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 55 l/min	4.33	Aisle width for 1000 x 1200 pallet lengthways		2694 mm	
4.35 Tuming radius Wa 1598 mm 4.7 Height of overhead guard (cabin) h6 2205 mm Performances 5.1 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.55 m/s 5.3 Lowering speed (laden / unladen) 0.58 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) Electric 5.10 Service brake Electric Engine 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery weight (+/- 5%) 48 V/ 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min	4.34		Ast	2751 mm	
Performances 5.1 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.65 m/s 5.3 Lowering speed (with load / without load) 0.20 m/s / 0.20 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric Engine 6.1 Drive motor rating S2 60 min 5.90 kW 6.2 Lift motor rating s3 15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery woltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min	4.35		Wa	1598 mm	
Performances 5.1 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.65 m/s 5.3 Lowering speed (with load / without load) 0.20 m/s / 0.20 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric Engine 6.1 Drive motor rating S2 60 min 5.90 kW 6.2 Lift motor rating s3 15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery woltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min		•		2205 mm	
5.1 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.65 m/s 5.3 Lowering speed (with load / without load) 0.20 m/s / 0.20 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/-5%) 730 kg Miscellaneous Electronic 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 1/min					
5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.65 m/s 5.3 Lowering speed (laden / unladen) 0.58 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric Engine 6.1 Drive motor rating \$2 60 min 5.90 kW 6.2 Lift motor rating at \$3 15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/-5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 I/min	5.1			12.30 km/h / 12.50 km/h	
5.3 Lowering speed (laden / unladen) 0.58 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric Engine 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/-5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 I/min					
5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric Engine 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 I/min					
5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric Engine 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/-5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 I/min		- , ,			
Electric Engine Electric 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/-5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 I/min					
Engine Engine 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 I/min		,			
6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 I/min					
6.2 Lift motor rating at S3 15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 I/min	6.1			5.90 kW	
6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 I/min					
6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 I/min					
6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min		•			
Miscellaneous Electronic 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min					
8.1Type of drive controlElectronic8.3Oil flow rate for attachments25 l/min		, , ,			
8.3 Oil flow rate for attachments 25 l/min	8.1			Electronic	
		••			

ER 12 - Dimensional drawing



Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 48	FLT 54	FLT 57	FLT 63	FLT 68
α - Mast/fork carriage tilt, forward °		3	3	3	3	3
β - Mast/fork carriage tilt, backward		1	1	1	1	1
h1 - Mast lowered height	mm	2140	2340	2440	2640	2790
h2 - Mast free lift	mm	1600	1800	1900	2100	2250
h3 - Mast lifting height	mm	4800	5400	5700	6300	6800
h4 - Mast extended height	mm	5380	5980	6280	6880	7330
Residual capacity with integrated side shift at max heigth	kg	1200	1200	1200	1000	700





Head Office

B.P. 249 - 430 rue de l'Aubinière 44150 Ancenis Cedex - France Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97 www.manitou.com



This publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.

MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes