

# VH series

8,000-12,000 lbs



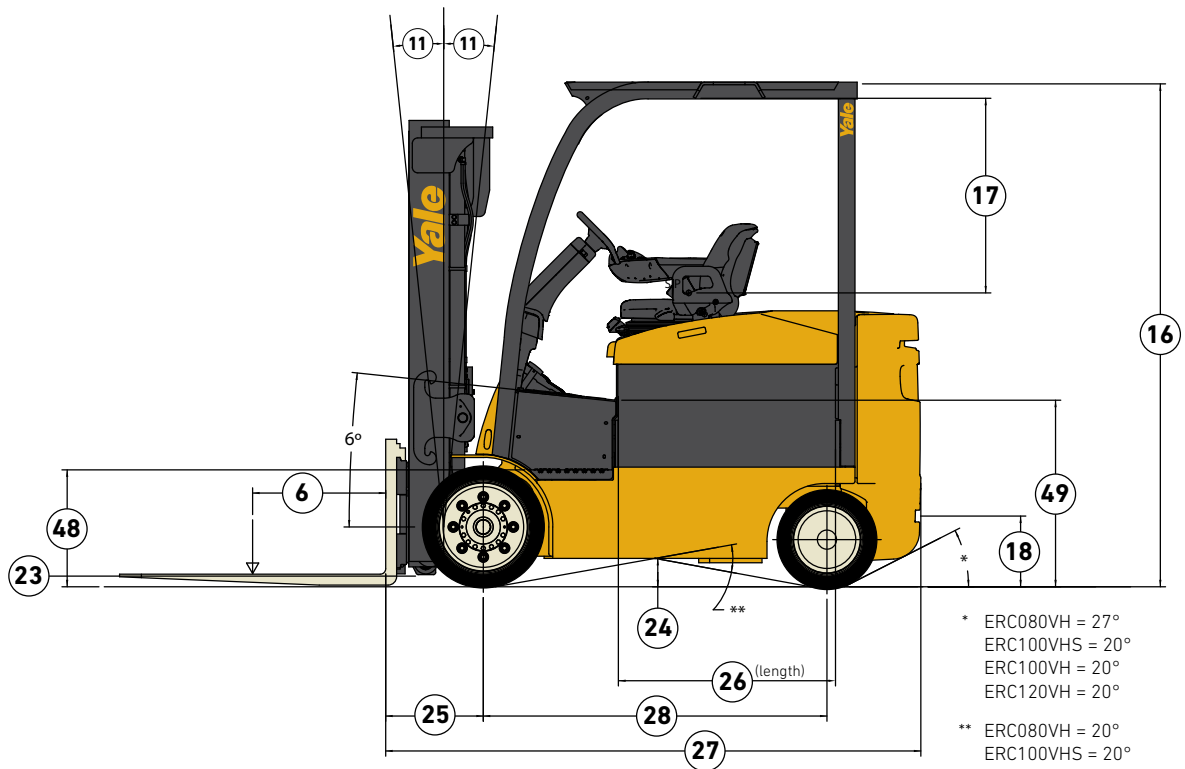
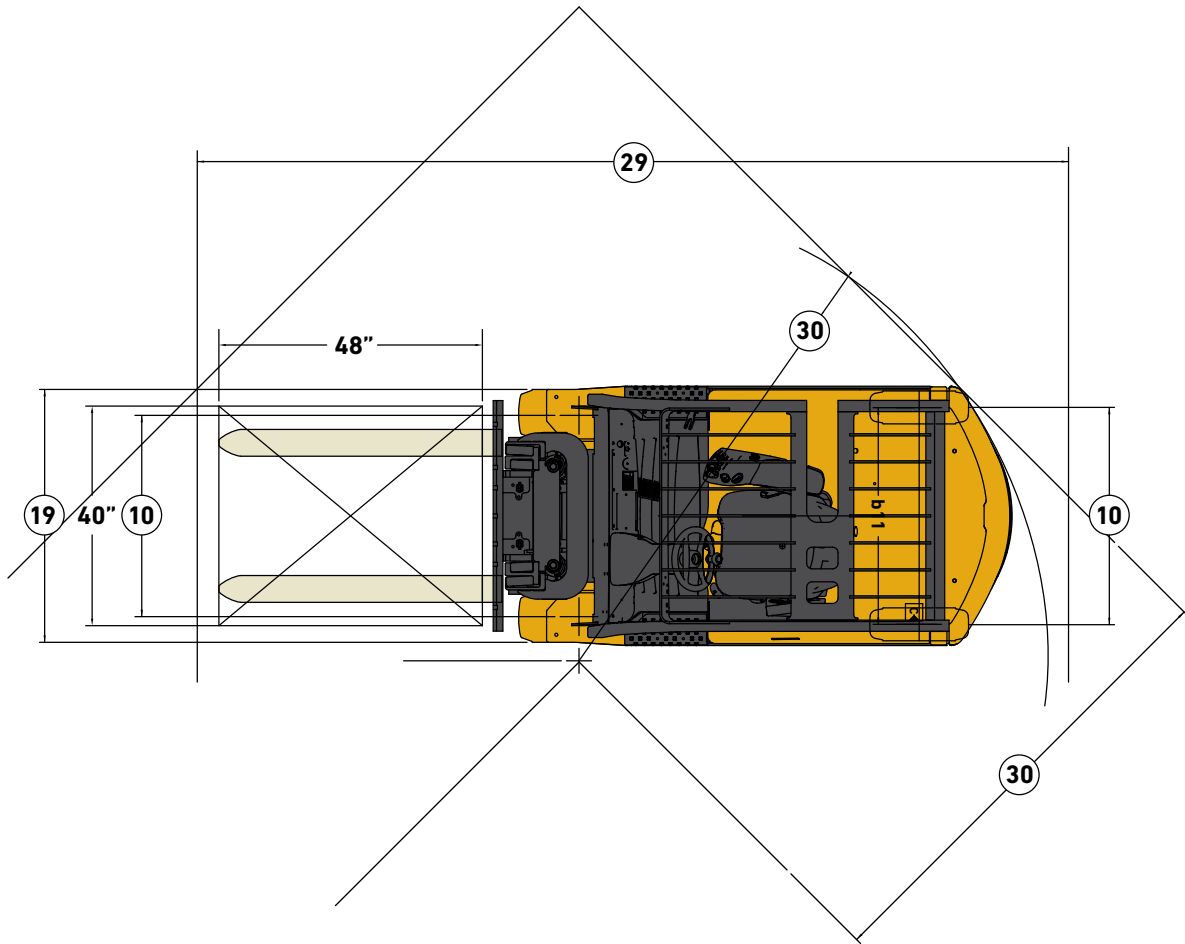
## Electric Powered Cushion Tire Truck



## SPEC SHEET

Models: ERC080VH, ERC100VHS, ERC100VH, ERC120VH

# TRUCK DIMENSIONS



\* ERC080VH = 27°  
 ERC100VHS = 20°  
 ERC100VH = 20°  
 ERC120VH = 20°

\*\* ERC080VH = 20°  
 ERC100VHS = 20°  
 ERC100VH = 18.5°  
 ERC120VH = 18.5°

# GENERAL SPECIFICATIONS ERC080VH

<b>GENERAL</b>	1	Manufacturer			Yale			
	2	Model Designation			ERC080VH			
	3	Power			Electric			
	4	Operation			Sit			
	5	Rated Capacity		lb. (kg)	8000 (3629)			
	6	Load Center		in. (mm)	24 (610)			
<b>TIRES/ WHEELS</b>	7	Tire Type - Cushion, Solid, Pneumatic, etc.		Drive / Steer	Cushion / Cushion			
	8	Tire Size		Drive / Steer	in.	22 x 9 x 16 / 18 x 6 x 12.1		
	9	Wheels - Number	X=Driven	Drive / Steer		2X / 2		
	10	Tread	Center of Tires	Narr Dr / Wide Dr / Steer	in. (mm)	37 / 41 / 39.5 (941 / 1041 / 1003)		
<b>DIMENSIONS</b>	11	Mast Tilt		Std Opt	degrees	5F / 5B 8F / 5B		
	12	Mast - Lowered Height		Std Mast	in. (mm)	84.1 (2134)		
	13	Free Lift - Top of Fork	Std 2 Stg Limited Free Lift Mast		in. (mm)	5 (150)		
			Opt 2 Stg Full Free Lift Mast with / without LBR		in. (mm)	35 / 53 (900 / 1352)		
	14	Lift Height - Top of Fork	Std 2 Stg Limited Free Lift Mast		in. (mm)	120 (3050)		
	15	Mast - Extended Height	Std Mast with / without LBR		in. (mm)	169 / 149 (4284 / 3783)		
	16	Overhead Guard Height	Std / Opt / Opt Flat Plate		in. (mm)	94 / 91 / 87.1 (2388 / 2311 / 2212)		
	17	SIP to Bottom Std OHG	Seat Depressed	Std / Susp / Swivel	in. (mm)	38.7 / 38.9 / 38.9 (984 / 989 / 989)		
	18	Tow Pin Height	Vertical Center of Pin		in. (mm)	12.7 (324)		
	19	Overall Width	Standard Tread / Wide Tread		in. (mm)	47.2 / 50 (1200 / 1270)		
	20	Forks	Thickness x Width x Length		in. (mm)	2 x 4.9 x 42 (50 x 125 x 1067)		
	21	Standard Carriage Width	Class III		in. (mm)	42 (1067)		
	22	Floor to Top of Battery Rollers			in. (mm)	20 (509)		
	23	Ground Clearance	Lowest Point	NL / RL	in. (mm)	3.8 / 3.5 (96 / 90)		
	24	Ground Clearance	Center of Truck	NL / RL	in. (mm)	5.3 / 5.1 (134 / 130)		
	25	Load Distance	Center of Wheel to Face of Forks		in. (mm)	17.6 (447)		
	26	Battery Compartment	Height	Without / With Battery Rollers	in. (mm)	24.4 / 24 (620 / 609)		
			Width		in. (mm)	45.4 (1152)		
				Nominal	SIZE	39		
			Length	Actual	in. (mm)	39.2 (996)		
	27	Length to Face of Forks	Chassis Length		in. (mm)	96.5 (2451)		
	28	Wheelbase			in. (mm)	62 (1574)		
	29	Right Angle Stack			in. (mm)	150.8 (3831)		
	30	Equal Aisle	90° Intersecting Aisle		in. (mm)	79.4 (2017)		
	31	Outside Turning Radius			in. (mm)	85.2 (2165)		
	<b>WEIGHT</b>	32	Truck Weight	Without Battery	NL	lb. (kg)	11070 (5021)	
		33	Axle Loading - Drive	Static with Max. Wt. Battery	NL / RL	lb. (kg)	6728 / 20098 (3052 / 9116)	
		34	Axle Loading - Steer	Static with Max. Wt. Battery	NL / RL	lb. (kg)	9141 / 3771 (4146 / 1710)	
	<b>PERFORMANCE</b>					Standard Performance		
					VOLTS	36	48	80
		36	Travel Speed	Extended Shift OFF	NL / RL	mph (km/h)	11.4 / 9.7 (18.3 / 15.6)	12.7 / 12.2 (20.4 / 19.6)
			Extended Shift ON	NL / RL	mph (km/h)	9.8 / 8.4 (15.8 / 13.5)	12.5 / 10.8 (20.1 / 17.4)	12.5/10.8 (20.1/17.4)
37		Lift Speed	Std 2 Stg LFL Mast	NL / RL	ft/min (m/sec)	94 / 58 (0.48 / 0.296)	118 / 73 (0.6 / 0.37)	118/73 (0.6/0.37)
			Opt 2 Stg FFL Mast	NL / RL	ft/min (m/sec)	85 / 53 (0.4336 / 0.267)	107 / 66 (0.542 / 0.334)	107/66 (0.542/0.334)
			Opt 3 Stg FFL Mast	NL / RL	ft/min (m/sec)	88 / 54 (0.448 / 0.276)	110 / 68 (0.56 / 0.345)	110/68 (0.56/0.345)
38		Lower Speed	Std 2 Stg LFL Mast	NL / RL	ft/min (m/sec)	94 / 104 (0.48 / 0.53)		
			Opt 2 Stg FFL Mast	NL / RL	ft/min (m/sec)	75 / 91 (0.38 / 0.46)		
			Opt 3 Stg FFL Mast	NL / RL	ft/min (m/sec)	77 / 98 (0.39 / 0.5)		
39		Gradability	5 Minute Rating	NL / RL	%	23 / 14.1	29.3 / 17.8	30.1 / 18.3
		60 Minute Rating	NL / RL	%	8.4 / 5.4	10.6 / 6.8	10.9 / 7	
40	Drawbar Pull	5 Minute Rating	NL / RL	lbf	3327 / 3193	4023 / 3864	4104 / 3941	
		60 Minute Rating	NL / RL	lbf	1246 / 1232	1511 / 1497	1541 / 1526	
41	Brake	Method of Control	Service / Parking		Hydraulic / Spring Applied			
		Method of Operation	Service / Parking		Foot / Automatic			
<b>ELECTRIC</b>	42	Battery		Type	Lead Acid or Lithium-Ion			
					Standard Performance			
				VOLTS	36	48	80	
	43	Traction Motor		60 Minute Rating	hp (kW)	28.8 (21.5)	28.8 (21.5)	28.2 (21)
	44	Pump Motor		15 % Rating	hp (kW)	35.5 (26.5)	48.3 (36)	48.3 (36)
	45	Traction Motor		Type / Control Method	AC / Transistor			
	46	Pump Motor		Type / Control Method	AC / Transistor			
47	Number of Speeds		Traction / Pump	Infinitely Variable / Infinitely Variable				
<b>OTHER</b>	48	Step Height		in. (mm)	21.1 (536)			
	49	Floor Height		Lowest Point	in. (mm)	33.7 (855)		
	50	Attachment Relief Pressure		psi (bar)	2248 (155)			
	51	Auxiliary Oil Flow	3rd and 4th Function		gal/min (l/min)	16 (60)		
	52	Sound Level		Measured per ANSI B56.11.5	dB (A)	69/66		

Above specifications, unless otherwise listed, are for a standard truck without optional equipment.

Right Angle Stack and Equal Intersecting Aisle dimensions provided with a 48" long and 40" wide pallet load, allowing zero clearance.

# GENERAL SPECIFICATIONS ERC100VHS

GENERAL	1	Manufacturer			Yale						
	2	Model Designation			ERC100VHS						
	3	Power			Electric						
	4	Operation			Sit						
	5	Rated Capacity		lb. (kg)	10000 (4536)						
	6	Load Center		in. (mm)	24 (610)						
TIRES/ WHEELS	7	Tire Type - Cushion, Solid, Pneumatic, etc.		Drive / Steer	Cushion / Cushion						
	8	Tire Size		Drive / Steer	in.	22 x 12 x 16 / 18 x 7 x 12.1					
	9	Wheels - Number	X=Driven	Drive / Steer		2X / 2					
	10	Tread	Center of Tires	Narr Dr / Wide Dr / Steer	in. (mm)	40 / 43.9 / 38.3 (1015 / 1115 / 972)					
DIMENSIONS	11	Mast Tilt		Std Opt	degrees	5F / 5B 8F / 5B					
	12	Mast - Lowered Height		Std Mast	in. (mm)	84.2 (2138)					
	13	Free Lift - Top of Fork		Std 2 Stg Limited Free Lift Mast		in. (mm)	5 (150)				
				Opt 2 Stg Full Free Lift Mast with / without LBR		in. (mm)	35 / 48 (897 / 1222)				
	14	Lift Height - Top of Fork		Std 2 Stg Limited Free Lift Mast		in. (mm)	109 (2790)				
	15	Mast - Extended Height		Std Mast with / without LBR		in. (mm)	159 / 144 (4031 / 3657)				
	16	Overhead Guard Height		Std / Opt / Opt Flat Plate		in. (mm)	94 / 91 / 87.1 (2388 / 2311 / 2212)				
	17	SIP to Bottom Std OHG		Seat Depressed	Std / Susp / Swivel	in. (mm)	38.7 / 38.9 / 38.9 (984 / 989 / 989)				
	18	Tow Pin Height		Vertical Center of Pin		in. (mm)	12.7 (324)				
	19	Overall Width		Standard Tread / Wide Tread		in. (mm)	52 / 55.9 (1320 / 1420)				
	20	Forks		Thickness x Width x Length		in. (mm)	2 x 5.9 x 42 (50 x 150 x 1067)				
	21	Standard Carriage Width		Class III		in. (mm)	42 (1067)				
	22	Floor to Top of Battery Rollers				in. (mm)	20 (509)				
	23	Ground Clearance	Lowest Point	NL / RL	in. (mm)	3.6 / 3.4 (92 / 87)					
	24	Ground Clearance	Center of Truck	NL / RL	in. (mm)	5.3 / 5.1 (134 / 130)					
	25	Load Distance	Center of Wheel to Face of Forks		in. (mm)	17.8 (452)					
	26	Battery Compartment		Height		Without / With Battery Rollers	in. (mm)	24.4 / 24 (620 / 609)			
				Width			in. (mm)	45.4 (1152)			
				Length		Nominal	SIZE	39"			
	27	Length to Face of Forks		Chassis Length		in. (mm)	100.3 (2548)				
	28	Wheelbase				in. (mm)	62 (1574)				
29	Right Angle Stack				in. (mm)	154 (3911)					
30	Equal Aisle	90° Intersecting Aisle		in. (mm)	83 (2107)						
31	Outside Turning Radius				in. (mm)	88.2 (2240)					
WEIGHT	32	Truck Weight	Without Battery	NL	lb. (kg)	13070 (5928)					
	33	Axle Loading - Drive	Static with Max. Wt. Battery	NL / RL	lb. (kg)	6798 / 23542 (3084 / 10678)					
	34	Axle Loading - Steer	Static with Max. Wt. Battery	NL / RL	lb. (kg)	11069 / 4325 (5021 / 1962)					
PERFORMANCE					Standard Performance						
	36	Travel Speed		Extended Shift OFF		NL / RL	VOLTS		36	48	80
				Extended Shift ON		NL / RL	mph (km/h)	10.3 / 8.8 (16.6 / 14.2)	11.4 / 11 (18.3 / 17.7)	11.4 / 11 (18.3 / 17.7)	
	37	Lift Speed		Std 2 Stg LFL Mast		NL / RL	mph (km/h)	9.1 / 7.7 (14.6 / 12.4)	11.4 / 9.9 (18.3 / 15.9)	11.4 / 9.9 (18.3 / 15.9)	
				Opt 2 Stg FFL Mast		NL / RL	ft/min (m/sec)	71 / 46 (0.36 / 0.232)	89 / 57 (0.45 / 0.29)	89 / 57 (0.45 / 0.29)	
				Opt 3 Stg FFL Mast		NL / RL	ft/min (m/sec)	67 / 43 (0.34 / 0.219)	84 / 54 (0.425 / 0.274)	84 / 54 (0.425 / 0.274)	
	38	Lower Speed		Std 2 Stg LFL Mast		NL / RL	ft/min (m/sec)	68 / 44 (0.346 / 0.223)	85 / 55 (0.433 / 0.279)	85 / 55 (0.433 / 0.279)	
				Opt 2 Stg FFL Mast		NL / RL	ft/min (m/sec)	73 / 89 (0.37 / 0.45)			
				Opt 3 Stg FFL Mast		NL / RL	ft/min (m/sec)	57 / 81 (0.29 / 0.41)			
	39	Gradability		5 Minute Rating		NL / RL	ft/min (m/sec)	63 / 87 (0.32 / 0.44)			
				60 Minute Rating		NL / RL	%	19.4 / 11.8	24.6 / 14.7	25.2 / 15.1	
	40	Drawbar Pull		5 Minute Rating		NL / RL	%	7.1 / 4.5			
60 Minute Rating				NL / RL	lbf	3323 / 3185	3994 / 3832	4074 / 3909			
41	Brake		Method of Control		Service / Parking	lbf	1242 / 1224	1497 / 1479	1527 / 1509		
			Method of Operation		Service / Parking	Hydraulic / Spring Applied Foot / Automatic					
ELECTRIC	42		Battery		Type	Lead Acid or Lithium-Ion Standard Performance					
					VOLTS				36	48	80
	43	Traction Motor		60 Minute Rating		hp (kW)	28.8 (21.5)	28.8 (21.5)	28.2 (21)		
	44	Pump Motor		15 % Rating		hp (kW)	35.5 (26.5)	48.3 (36)	48.3 (36)		
	45	Traction Motor		Type / Control Method		AC / Transistor					
	46	Pump Motor		Type / Control Method		AC / Transistor					
	47	Number of Speeds		Traction / Pump		Infinitely Variable / Infinitely Variable					
OTHER	48		Step Height		in. (mm)	21.1 (536)					
	49		Floor Height		Lowest Point	in. (mm)	33.7 (855)				
	50		Attachment Relief Pressure		psi (bar)	2248 (155)					
	51	Auxiliary Oil Flow	3rd and 4th Function		gal/min (l/min)	16 (60)					
	52	Sound Level		Measured per ANSI B56.11.5		dB (A)	69/66				

Above specifications, unless otherwise listed, are for a standard truck without optional equipment.

Right Angle Stack and Equal Intersecting Aisle dimensions provided with a 48" long and 40" wide pallet load, allowing zero clearance.

# GENERAL SPECIFICATIONS ERC100VHS

GENERAL	1	Manufacturer			Yale			
	2	Model Designation			ERC100VH			
	3	Power			Electric			
	4	Operation			Sit			
	5	Rated Capacity		lb. (kg)	10000 (4536)			
	6	Load Center		in. (mm)	24 (610)			
TIRES/ WHEELS	7	Tire Type - Cushion, Solid, Pneumatic, etc.		Drive / Steer	Cushion / Cushion			
	8	Tire Size		Drive / Steer	in. 22 x 12 x 16 / 18 x 7 x 12.1			
	9	Wheels - Number	X=Driven	Drive / Steer	2X / 2			
	10	Tread	Center of Tires	Narr Dr / Wide Dr / Steer	in. (mm)	40 / 43.9 / 38.3 (1015 / 1115 / 972)		
DIMENSIONS	11	Mast Tilt		Std Opt	degrees	5F / 5B 8F / 5B		
	12	Mast - Lowered Height		Std Mast	in. (mm)	84.2 (2138)		
	13	Free Lift - Top of Fork	Std 2 Stg Limited Free Lift Mast		in. (mm)	5 (150)		
			Opt 2 Stg Full Free Lift Mast with / without LBR		in. (mm)	35 / 48 (897 / 1222)		
	14	Lift Height - Top of Fork	Std 2 Stg Limited Free Lift Mast		in. (mm)	109 (2790)		
	15	Mast - Extended Height	Std Mast with / without LBR		in. (mm)	159 / 144 (4031 / 3657)		
	16	Overhead Guard Height	Std / Opt / Opt Flat Plate		in. (mm)	94 / 91 / 87.1 (2388 / 2311 / 2212)		
	17	SIP to Bottom Std OHG	Seat Depressed	Std / Susp / Swivel	in. (mm)	38.7 / 38.9 / 38.9 (984 / 989 / 989)		
	18	Tow Pin Height	Vertical Center of Pin		in. (mm)	12.7 (324)		
	19	Overall Width	Standard Tread / Wide Tread		in. (mm)	52 / 55.9 (1320 / 1420)		
	20	Forks	Thickness x Width x Length		in. (mm)	2 x 5.9 x 42 (50 x 150 x 1067)		
	21	Standard Carriage Width	Class III		in. (mm)	42 (1067)		
	22	Floor to Top of Battery Rollers			in. (mm)	20 (509)		
	23	Ground Clearance	Lowest Point	NL / RL	in. (mm)	3.6 / 3.4 (92 / 87)		
	24	Ground Clearance	Center of Truck	NL / RL	in. (mm)	5.3 / 5.1 (134 / 130)		
	25	Load Distance	Center of Wheel to Face of Forks		in. (mm)	17.8 (452)		
	26	Battery Compartment	Height	Without / With Battery Rollers	in. (mm)	24.4 / 24 (620 / 609)		
			Width		in. (mm)	45.4 (1152)		
				Nominal	SIZE	45"		
			Length	Actual	in. (mm)	45.7 (1161)		
	27	Length to Face of Forks	Chassis Length		in. (mm)	103.1 (2621)		
28	Wheelbase			in. (mm)	68.5 (1739)			
29	Right Angle Stack			in. (mm)	158 (4012)			
30	Equal Aisle	90° Intersecting Aisle		in. (mm)	84.3 (2141)			
31	Outside Turning Radius			in. (mm)	92.2 (2341)			
WEIGHT	32	Truck Weight	Without Battery	NL	lb. (kg)	12300 (5579)		
	33	Axle Loading - Drive	Static with Max. Wt. Battery	NL / RL	lb. (kg)	7708 / 23813 (3496 / 10801)		
	34	Axle Loading - Steer	Static with Max. Wt. Battery	NL / RL	lb. (kg)	10139 / 4035 (4599 / 1830)		
PERFORMANCE					Standard Performance			
	36	Travel Speed	Extended Shift OFF	NL / RL	mph (km/h)	10.3 / 8.8 (16.6 / 14.2)	11.4 / 11 (18.3 / 17.7)	11.4 / 11 (18.3 / 17.7)
			Extended Shift ON	NL / RL	mph (km/h)	9.1 / 7.7 (14.6 / 12.4)	11.4 / 9.9 (18.3 / 15.9)	11.4 / 9.9 (18.3 / 15.9)
	37	Lift Speed	Std 2 Stg LFL Mast	NL / RL	ft/min (m/sec)	71 / 46 (0.36 / 0.232)	89 / 57 (0.45 / 0.29)	89 / 57 (0.45 / 0.29)
			Opt 2 Stg FFL Mast	NL / RL	ft/min (m/sec)	67 / 43 (0.34 / 0.219)	84 / 54 (0.425 / 0.274)	84 / 54 (0.425 / 0.274)
			Opt 3 Stg FFL Mast	NL / RL	ft/min (m/sec)	68 / 44 (0.346 / 0.223)	85 / 55 (0.433 / 0.279)	85 / 55 (0.433 / 0.279)
	38	Lower Speed	Std 2 Stg LFL Mast	NL / RL	ft/min (m/sec)	73 / 89 (0.37 / 0.45)		
			Opt 2 Stg FFL Mast	NL / RL	ft/min (m/sec)	57 / 81 (0.29 / 0.41)		
			Opt 3 Stg FFL Mast	NL / RL	ft/min (m/sec)	63 / 87 (0.32 / 0.44)		
	39	Gradability	5 Minute Rating	NL / RL	%	19.9 / 11.9	25.2 / 15	25.8 / 15.3
			60 Minute Rating	NL / RL	%	7.3 / 4.5	9.2 / 5.7	9.4 / 5.9
	40	Drawbar Pull	5 Minute Rating	NL / RL	lbf	3322 / 3185	3970 / 3809	4049 / 3885
		60 Minute Rating	NL / RL	lbf	1241 / 1224	1488 / 1470	1518 / 1500	
41	Brake	Method of Control	Service / Parking	Hydraulic / Spring Applied				
		Method of Operation	Service / Parking	Foot / Automatic				
ELECTRIC	42	Battery	Type	Lead Acid or Lithium-Ion				
				Standard Performance				
				VOLTS	36	48	80	
	43	Traction Motor	60 Minute Rating	hp (kW)	28.8 (21.5)	28.8 (21.5)	28.2 (21)	
	44	Pump Motor	15 % Rating	hp (kW)	35.5 (26.5)	48.3 (36)	48.3 (36)	
	45	Traction Motor	Type / Control Method	AC / Transistor				
	46	Pump Motor	Type / Control Method	AC / Transistor				
47	Number of Speeds	Traction / Pump	Infinitely Variable / Infinitely Variable					
OTHER	48	Step Height		in. (mm)	21.1 (536)			
	49	Floor Height	Lowest Point	in. (mm)	33.7 (855)			
	50	Attachment Relief Pressure		psi (bar)	2248 (155)			
	51	Auxiliary Oil Flow	3rd and 4th Function	gal/min (l/min)	16 (60)			
	52	Sound Level	Measured per ANSI B56.11.5		dB (A)	69/66		

Above specifications, unless otherwise listed, are for a standard truck without optional equipment.

Right Angle Stack and Equal Intersecting Aisle dimensions provided with a 48" long and 40" wide pallet load, allowing zero clearance.

# GENERAL SPECIFICATIONS ERC120VH

GENERAL	1	Manufacturer			Yale			
	2	Model Designation			ERC120VH			
	3	Power			Electric			
	4	Operation			Sit			
	5	Rated Capacity		lb. (kg)	12000 (5443)			
	6	Load Center		in. (mm)	24 (610)			
TIRES/ WHEELS	7	Tire Type - Cushion, Solid, Pneumatic, etc.		Drive / Steer	Cushion / Cushion			
	8	Tire Size		Drive / Steer	in. 22 x 12 x 16 / 18 x 7 x 12.1			
	9	Wheels - Number	X=Driven	Drive / Steer	2X / 2			
	10	Tread	Center of Tires	Narr Dr / Wide Dr / Steer	in. (mm)	40 / 43.9 / 38.3 (1015 / 1115 / 972)		
DIMENSIONS	11	Mast Tilt		Std Opt	degrees	5F / 5B 8F / 5B		
	12	Mast - Lowered Height		Std Mast	in. (mm)	84.2 (2138)		
	13	Free Lift - Top of Fork	Std 2 Stg Limited Free Lift Mast		in. (mm)	5 (150)		
			Opt 2 Stg Full Free Lift Mast with / without LBR		in. (mm)	35 / 48 (897 / 1222)		
	14	Free Lift - Top of Fork	Std 2 Stg Limited Free Lift Mast		in. (mm)	109 (2790)		
	15	Mast - Extended Height	Std Mast with / without LBR		in. (mm)	159 / 144 (4031 / 3657)		
	16	Overhead Guard Height	Std / Opt / Opt Flat Plate		in. (mm)	94 / 91 / 87.1 (2388 / 2311 / 2212)		
	17	SIP to Bottom Std OHG	Seat Depressed	Std / Susp / Swivel	in. (mm)	38.7 / 38.9 / 38.9 (984 / 989 / 989)		
	18	Tow Pin Height	Vertical Center of Pin		in. (mm)	12.7 (324)		
	19	Overall Width	Standard Tread / Wide Tread		in. (mm)	52 / 55.9 (1320 / 1420)		
	20	Forks	Thickness x Width x Length		in. (mm)	2.4 x 5.9 x 42 (60 x 150 x 1067)		
	21	Standard Carriage Width	Class III		in. (mm)	42 (1067)		
	22	Floor to Top of Battery Rollers			in. (mm)	20 (509)		
	23	Ground Clearance	Lowest Point	NL / RL	in. (mm)	3.6 / 3.4 (92 / 87)		
	24	Ground Clearance	Center of Truck	NL / RL	in. (mm)	5.3 / 5.1 (134 / 130)		
	25	Load Distance	Center of Wheel to Face of Forks		in. (mm)	18.2 (462)		
	26	Battery Compartment	Height	Without / With Battery Rollers	in. (mm)	24.4 / 24 (620 / 609)		
			Width		in. (mm)	45.4 (1152)		
				Nominal	SIZE		45"	
			Length	Actual	in. (mm)	45.7 (1161)		
	27	Length to Face of Forks	Chassis Length		in. (mm)	107.2 (2724)		
28	Wheelbase			in. (mm)	68.5 (1739)			
29	Right Angle Stack			in. (mm)	161.5 (4101)			
30	Equal Aisle	90° Intersecting Aisle		in. (mm)	85.7 (2178)			
31	Outside Turning Radius			in. (mm)	95.3 (2420)			
WEIGHT	32	Truck Weight	Without Battery	NL	lb. (kg)	13860 (6287)		
	33	Axle Loading - Drive	Static with Max. Wt. Battery	NL / RL	lb. (kg)	7556 / 26951 (3427 / 12225)		
	34	Axle Loading - Steer	Static with Max. Wt. Battery	NL / RL	lb. (kg)	11848 / 4453 (5374 / 2020)		
PERFORMANCE					Standard Performance			
				VOLTS	36	48	80	
	36	Travel Speed	Extended Shift OFF	NL / RL	mph (km/h)	9.4 / 8 (15.1 / 12.9)	10.4 / 10 (16.7 / 16.1)	10.4 / 10 (16.7 / 16.1)
			Extended Shift ON	NL / RL	mph (km/h)	8.2 / 7 (13.2 / 11.3)	10.4 / 9 (16.7 / 14.5)	10.4 / 9 (16.7 / 14.5)
	37	Lift Speed	Std 2 Stg LFL Mast	NL / RL	ft/min (m/sec)	71 / 43 (0.36 / 0.216)	89 / 53 (0.45 / 0.27)	89 / 53 (0.45 / 0.27)
			Opt 2 Stg FFL Mast	NL / RL	ft/min (m/sec)	67 / 40 (0.34 / 0.204)	84 / 50 (0.425 / 0.255)	84 / 50 (0.425 / 0.255)
			Opt 3 Stg FFL Mast	NL / RL	ft/min (m/sec)	68 / 41 (0.346 / 0.208)	85 / 51 (0.433 / 0.26)	85 / 51 (0.433 / 0.26)
	38	Lower Speed	Std 2 Stg LFL Mast	NL / RL	ft/min (m/sec)	73 / 89 (0.37 / 0.45)		
			Opt 2 Stg FFL Mast	NL / RL	ft/min (m/sec)	57 / 81 (0.29 / 0.41)		
			Opt 3 Stg FFL Mast	NL / RL	ft/min (m/sec)	63 / 87 (0.32 / 0.44)		
	39	Gradability	5 Minute Rating	NL / RL	%	18.5 / 10.4	22.8 / 13.1	23.3 / 13.4
			60 Minute Rating	NL / RL	%	6.6 / 4	8.3 / 5.1	8.5 / 5.1
40	Drawbar Pull	5 Minute Rating	NL / RL	lbf	3320 / 3179	3918 / 3755	3996 / 3830	
		60 Minute Rating	NL / RL	lbf	1239 / 1218	1466 / 1445	1495 / 1474	
41	Brake	Method of Control	Service / Parking		Hydraulic / Spring Applied			
		Method of Operation	Service / Parking		Foot / Automatic			
ELECTRIC	42	Battery	Type		Lead Acid or Lithium-Ion			
					Standard Performance			
					VOLTS	36	48	80
	43	Traction Motor	60 Minute Rating	hp (kW)	28.8 (21.5)	28.8 (21.5)	28.2 (21)	
	44	Pump Motor	15 % Rating	hp (kW)	35.5 (26.5)	48.3 (36)	48.3 (36)	
	45	Traction Motor	Type / Control Method		AC / Transistor			
	46	Pump Motor	Type / Control Method		AC / Transistor			
47	Number of Speeds	Traction / Pump		Infinitely Variable / Infinitely Variable				
OTHER	48	Step Height		in. (mm)	21.1 (536)			
	49	Floor Height	Lowest Point	in. (mm)	33.7 (855)			
	50	Attachment Relief Pressure		psi (bar)	2248 (155)			
	51	Auxiliary Oil Flow	3rd and 4th Function	gal/min (l/min)	16 (60)			
	52	Sound Level	Measured per ANSI B56.11.5		dB (A)	69/66		

Above specifications, unless otherwise listed, are for a standard truck without optional equipment.

Right Angle Stack and Equal Intersecting Aisle dimensions provided with a 48" long and 40" wide pallet load, allowing zero clearance.

## ERC80VH MAST DIMENSIONS

Maximum Fork Height (TOF) +	Overall Lowered Ht.	Overall Extended Height w/Load Backrest	Overall Extended Height w/o Load Backrest	Free-Lift (TOF) w/ Load Backrest	Free-Lift (TOF) w/o Load Backrest
in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)
<b>2-Stage Limited Free-lift (LFL) Mast</b>					
120 (3050)	84 (2134)	176 (4455)	149 (3783)	5 (150)	5 (150)
143 (3650)	96 (2434)	193 (4884)	173 (4383)	5 (150)	5 (150)
<b>2-Stage Full Free-lift (FFL) Mast</b>					
121 (3075)	84 (2134)	170 (4309)	152 (3857)	35 (900)	53 (1352)
144 (3675)	96 (2434)	194 (4909)	176 (4457)	47 (1200)	65 (1652)
<b>3-Stage Full Free-lift (FFL) Mast</b>					
173 (4415)	84 (2134)	223 (5649)	205 (5197)	35 (900)	53 (1352)
185 (4715)	88 (2234)	235 (5949)	217 (5497)	39 (1000)	57 (1452)
194 (4950)	92 (2334)	244 (6184)	226 (5732)	43 (1100)	61 (1552)
218 (5550)	100 (2534)	268 (6784)	250 (6332)	51 (1300)	69 (1752)

## ERC100-120VH MAST DIMENSIONS

Maximum Fork Height (TOF) +	Overall Lowered Ht.	Overall Extended Height w/Load Backrest	Overall Extended Height w/o Load Backrest	Free-Lift (TOF) w/ Load Backrest	Free-Lift (TOF) w/o Load Backrest
in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)
<b>2-Stage Limited Free-lift (LFL) Mast</b>					
109 (2790)	85 (2138)	159 (4031)	144 (3657)	5 (150)	5 (150)
133 (3390)	96 (2438)	183 (4631)	168 (4257)	5 (150)	5 (150)
157 (3990)	108 (2738)	206 (5231)	192 (4857)	5 (150)	5 (150)
<b>2-Stage Full Free-lift (FFL) Mast</b>					
110 (2815)	85 (2138)	160 (4056)	147 (3731)	35 (897)	48 (1222)
134 (3415)	96 (2438)	184 (4656)	171 (4331)	47 (1197)	59 (1522)
<b>3-Stage Full Free-lift (FFL) Mast</b>					
162 (4137)	85 (2138)	212 (5378)	200 (5058)	35 (897)	47 (1217)
184 (4690)	92 (2338)	234 (5931)	221 (5611)	43 (1097)	55 (1417)
208 (5290)	100 (2538)	258 (6531)	245 (6211)	51 (1297)	63 (1617)

## BATTERY AND COMPARTMENT SPECIFICATIONS

Truck Model	Compartment Dim			Battery Dim - Max			Volts	No. of Cells	Plates per Cell	Max Capacity 6 Hour Rate amp hr (kwh)	Weight	
	Width	Length	Height	"X"	"Y"	"Z"					Min	Max
	in (mm)			in (mm)							lb (kg)	
ERC080VH ERC100VHS 39" Compartment	45.4 (1152)	39.2 (996)	24.5 (622)	45 (1143)	39 (990)	23.9 (608)	36	18	33	2300 (80.3)	3400 (1542)	4800 (2177)
							48	24	29	1800 (83.8)		
							80	40	15	1000 (77.6)		
ERC100VH ERC120VH 45" Compartment	45.4 (1152)	45.7 (1161)	24.5 (622)	45 (1143)	45.3 (1150)	23.9 (608)	36	36	19	2300 (160.6)	4000 (1814)	5500 (2517)
							48	24	33	1800 (83.8)		
							80	40	17	1000 (77.6)		

Battery Type: "EO" (Without Cover)

Battery amp hr (kwh) capacity is max allowable per UL

Commercially available Lead Acid or Lithium-Ion batteries may not necessarily reach these max limits

Battery Roller option reduces battery compartment height to 24.0" (609mm) & max battery height to 23.4" (595mm)

Battery Compartment Length is measured front to rear. Battery Compartment Width is measured across the truck

Battery Notes - Conventional Charging (Option BCSSBC)

Battery Connector: 36 volt - Grey SB®350 (Anderson Power Products® P/N 6320G2 or equivalent)

48 volt - Blue SB®350 (Anderson Power Products® P/N 6321G2 or equivalent)

80 volt - Black SBE®320 (Anderson Power Products® P/N E6359G3 or equivalent)

Handle (not required): SB®350 and SBE®320 (Anderson Power Products®: "A" TYPE (Grey) P/N 995G2 or equivalent)

Battery Lead: Length 20" (508 mm), Position "B", 4/0 AWG

Battery Notes - Rapid / Fast Charging (Option BARFBC)

Battery Connector: Requires Dual Positive / Negative Cabling terminating in (2) Female EBC-320 DIN Connectors (Anderson Power Products® P/N E32504-00X9 or equivalent)

Each individual DIN connector to include 1 Red Conductor to (+) and 1 black conductor to (-)

Battery Lead: Length 25" (635 mm), Position "B", Minimum Cable Size 4/0 AWG


## FEATURES LIST

PERFORMANCE	STD	OPT	ERGONOMICS continued		
36-volt electrical system	●		Full-suspension seat (vinyl or cloth)		●
AC traction and pump motors (completely brushless)	●		Full-suspension swivel seat (vinyl or cloth)		●
Transistor drive and pump control	●		Seatside directional control		●
Advanced VSM (Vehicle System Manager)	●		Telescoping steering column with tilt memory		●
Regenerative braking	●		LED dome/reading light		●
48-volt electrical system		●	Rear drive handle with horn button		●
80-volt electrical system		●	Dual rear view mirrors		●
DRIVE	STD	OPT	Panoramic rear view mirror		●
Smooth tread rubber drive tire and steer tire	●		Red, high-visibility, non-cinch seat belt with or without interlock		●
Non-marking, rubber, or lug tread tires		●	Low mount display		●
Wide tread tires		●	Accutouch mini-levers		●
LIFT	STD	OPT	OPERATION	STD	OPT
2-stage limited free lift (LFL) mast with maximum fork height of 120" (3050mm) (ERC080VH)	●		Standard environmental construction	●	
2-stage limited free lift (LFL) mast with maximum fork height of 109" (2790mm) (ERC100-120VH)	●		Key switch start	●	
5° forward and 5° back mast tilt	●		94" grid style overhead guard	●	
2-Stage full free lift mast		●	3-function hydraulic control valve	●	
3-Stage full free lift mast		●	Fully integrated CANbus communication	●	
8° forward / 5° back tilt		●	Battery Removal without Rollers - Lift Out	●	
HANDLING	STD	OPT	Static strap	●	
42" (1067mm) wide hook-type carriage with 48" (1219mm) high load backrest extension	●		Tow pin	●	
42" (1067mm) long forks	●		Type "E" UL construction	●	
48" (1220mm) wide Hook Type Carriage w/ 48" high load backrest extension		●	Continuous Stability System (CSS™)	●	
42" (1067mm) wide Attachment Carriage (ERC100VH/VHS)		●	Cooler / freezer package – operating temperatures: -20°F to +120° F		●
42" (1067mm) wide integral side shift (ERC080VH)		●	4-function hydraulic control valve		●
48" (1220mm) Integral Sideshift Carriage		●	Horizontal Battery Extraction (Rollers)		●
Multiple Fork Lengths		●	Keyless start (with auxiliary key switch)		●
Return to set tilt		●	LED brake/tail/back-up light packages		●
Hydraulic attachment extension tubes with or without quick disconnect fittings		●	LED and halogen work light packages		●
Load weight indicator		●	Key switch controlled lights		●
Accumulator		●	Audible alarm - reverse operation (manually adjustable to 87, 97 or 102 dB)		●
ERGONOMICS	STD	OPT	Visible amber strobe light - continuous activated, overhead guard mounted		●
Foot directional control pedal	●		Fire extinguisher - 2.5lb dry chemical		●
Mechanical hydraulic levers	●		Impact monitor with programmable shutdown		●
Steering wheel w/ integral spinner knob	●		Operator password start interlock		●
Non-suspension vinyl seat	●		Operator daily checklist		●
Black, non-cinch seat belt with Emergency Locking Retractor (ELR)	●		System monitor - hydraulic low fluid level indicator and hydraulic filter service indicator		●
Automatic park brake	●		Programmable maintenance reminder		●
Power assist braking	●		Rapid / fast charge		●
On-demand hydrostatic power-assist steering	●		Type "EE" UL construction		●
Auto Deceleration System (ADS)	●		12-Volt auxiliary power supply		●
Multifunction display (high mount)	●		Auxiliary DC-DC converter		●
Easy ingress/egress with low step height and contoured handhold	●		91" grid style overhead guard		●
Operator convenience station	●		87" flat plate overhead guard		●
Adjustable tilt steering column	●		Yale Reliant™		●
Operator Presence System (OPS)	●		SUPPLEMENTAL	STD	OPT
Cushioned Floormat	●		Operating manual	●	
Seatside power disconnect button	●		12 month / 2,000 hour full truck warranty	●	
Non-suspension cloth seat		●	36 month / 6,000 hour powertrain warranty	●	

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