

POWER UNITS

Provides power, smooth service and precise operation

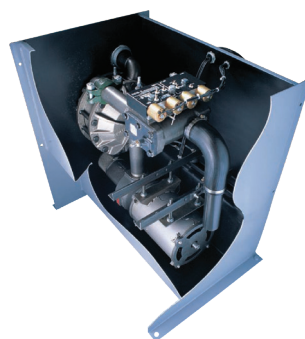
TK Elevator offers two types of power units.

Dry units provide more power and lifting ability to move larger loads at higher speeds. These units are better options for high traffic applications.

Submersible units submerge the motor and pump in the tank, taking up less space and greatly reducing elevator noise.

Features and benefits

- Helps prevent shutdowns
- Consistently maintains correct oil temperatures
- Increases life of oil, seals, valve, pump and motor
- Improves leveling and elevator performance
- Smoother, more consistent ride quality
- Quieter operation
- Reduced vibration
- Reduced maintenance
- Reduced floor-to-floor times



Recommended maximum oil flow rates

	Nominal pipe size	
	2 inch	3 inch
Pipe wall thickness (inch)		
Schedule 40	0.154	0.216
Schedule 80	0.218	0.300
Max flow in up direction (gpm)		
Schedule 40	167	368
Schedule 80	147	329
Max flow in down direction (gpm)		
Schedule 40	229	506
Schedule 80	202	452



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Car speed (fpm) (as a function of pump flow rate and plunger diameter)

Flow rate (gpm)	Plunger diameter (inch)											
	2.75	3.0	3.5	3.885	4.0	4.375	4.5	5.0	5.438	5.5	6.0	6.5
60	194	163	120	97	92	77	73	59	50	49	41	35
70		191	140	114	107	90	85	69	58	57	48	41
80			160	130	123	102	97	7/8	66	65	54	46
95			190	154	146	122	115	93	79	77	65	55
125				191	160	151	123	104	104	101	85	73
150					192	182	147	124	124	122	102	87
170								167	141	138	116	99
190								186	157	154	129	110

Pump flow rate (gpm) (as a function of pump flow rate and plunger diameter)

Car speed (fpm)	Plunger diameter (inch)											
	2.75	3.0	3.5	3.885	4.0	4.375	4.5	5.0	5.438	5.5	6.0	6.5
40											59	69
50									60	62	73	86
60								61	72	74	88	103
70								71	84	86	103	121
80						62	66	82	97	99	118	138
90					59	70	74	92	109	111	132	155
100				62	65	78	83	102	121	123	147	172
110				68	72	86	91	112	133	136	162	190
120			60	74	78	94	99	122	145	148	176	
130			65	80	85	102	107	133	157	160	191	
140			70	86	91	109	116	143	169	173		
150			75	92	98	117	124	153	181	185		
160		59	80	99	104	125	132	163	193			
170		62	85	105	111	133	140	173				
180		66	90	111	118	141	149	184				
190	59	70	95	117	124	148	157	194				
200	62	73	100	123	131	156	165					
210	65	77	105	129	137	164	174					
220	68	81	110	135	144	172	182					
230	71	84	115	142	150	180	190					
240	74	88	120	148	157	187						
250	77	92	125	154	163	195						

Plunger properties

	Plunger diameter (inch)											
	2.75	3.0	3.5	3.885	4.0	4.375	4.5	5.0	5.438	5.5	6.0	6.5
Plunger area (in ²)	5.94	7.07	9.62	11.85	12.57	15.03	15.90	19.63	23.23	23.76	28.27	33.18
Plunger displacement (gal/ft)	0.31	0.37	0.50	0.62	0.65	0.78	0.83	1.02	1.21	1.23	1.47	1.72

For more information, visit <https://shop-us.tkelevator.com/> or contact your sales representative.

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