synergy

ONE WORLD. ONE COMPANY. ONE SOLUTION.

Model 100R

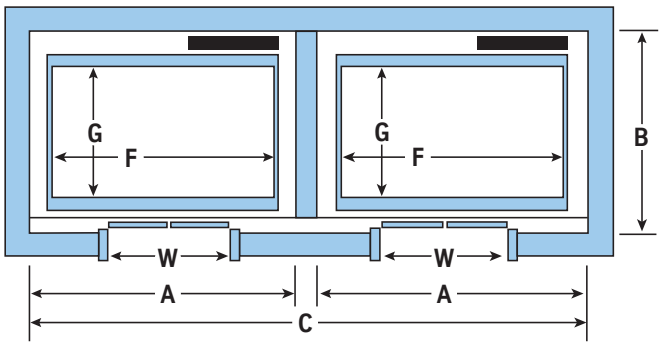
ThyssenKrupp Elevator's synergy 100R is a self-supported application that does not place additional loads onto your building structure. For travel up to 100'-0" and speeds of 200 and 350 fpm, this is a cost-effective low-rise MRL solution. The 100R offers standard cab and signal fixture designs.

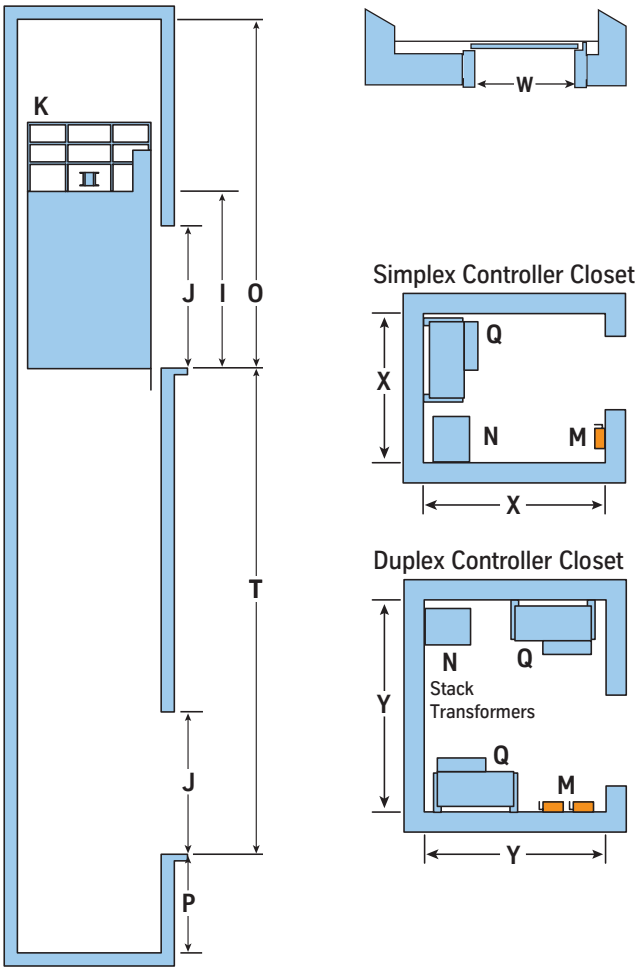
ThyssenKrupp Elevator's determination to develop the most innovative products available has allowed us to become committed to machine room-less elevator technology. synergy is a cost-efficient solution for architects, builders and building owners that uses less space and meets or exceeds today's safety standards.

synergy's compact permanent magnet gearless machine is a highly efficient sustainable solution that provides the performance of a much larger geared-driven system. These permanent magnet gearless machines, coupled with efficient drives in place of conventional geared machines, use less energy. In addition, the machines do not require contaminating gear lubricants.

Both the counterweight and the car are roped 2:1, with standard steel ropes. Innovative design reduces hoistway footprint, as well as overhead and pit depth requirements. In fact, synergy's reduced overhead eliminates the need to alter the superstructure of roofs at all, thus giving it lower overhead requirements that other MRL systems.

It all adds up to maximum design freedom and flexibility – flexibility that allows you to design and plan without compromise. Contact your local ThyssenKrupp Elevator representative at (877) 230.0303.





Simplex Controller Closet

Duplex Controller Closet

ThyssenKrupp Elevator Americas

Model 100R Data Table

	Capacity (lbs.)	2500	3000	3500
	Speed (fpm)	200	200	200
		350	350	350
T	Maximum Travel	100'-0"	100'-0"	100'-0"
A	Hoistway Width [1]	8'-4"	8'-4"	8'-4"
B	Hoistway Depth	6'-8"	7'-2"	7'-10"
C	Duplex Hoistway Width [1, 4]	17'-0"	17'-0"	17'-0"
F	Clear Inside Width	6'-8"	6'-8"	6'-8"
G	Clear Inside Depth	4'-3"	4'-9"	5'-5"
W	Door Opening Width	3'-6"	3'-6"	3'-6"
J	Door Opening Height	7'-0"	7'-0"	7'-0"
I	Cab Height [5]	7'-10"	7'-10"	7'-10"
P	Pit (200 fpm) [3]	5'-0"	5'-0"	5'-0"
P	Pit (350 fpm) [3]	5'-5"	5'-5"	5'-5"
O	Overhead (200 fpm) [6]	14'-9"	14'-9"	14'-9"
O	Overhead (350 fpm) [6]	15'-5"	15'-5"	15'-5"
	Support Type	Self-Supporting	Self-Supporting	Self-Supporting
	Rope Size	8mm & 10mm	8mm & 10mm	8mm & 10mm
Y	Controller Closet [2]	5'-6" x 6'-4"	5'-6" x 6'-4"	5'-6" x 6'-4"
X	Duplex Controller Closet [2]	8'-0" x 5'-6"	8'-0" x 5'-6"	8'-0" x 5'-6"
	Cwt Location	Rear	Rear	Rear
	Roping	2:1 Overslung	2:1 Overslung	2:1 Overslung

Hoistway dimensions are based on 3/4" out of plumb for non-seismic (1 3/4" out of plumb for seismic conditions) and no occupied space below the hoistway. If these conditions cannot be met, then consideration must be given for additional required space. Hoistway temperature range = 32° F minimum, 122° F maximum.

1 Seismic Zones 2 and greater, add 2" to hoistway width. For duplex cars, add 4" to hoistway width. NOTE: For Seismic Zones 2 and greater, special low profile seismic fishplates are required.

2 Controller closet temperature range 32° F. Min., 104° F. Max. 10% - 95% Non-Condensing Relative Humidity. **(M)** Disconnect by others. **(N)** Isolation Transformer (as required) **(Q)** - Controller. Additional controller closet space may be required with security cabinet or additional electrical boxes or features.

3 Pit Ladder **(P)** by others. Requirements for Pit Ladder cut out: notch for 7" ladder is 2 ½" deep. Cut out location varies, depending on project conditions. Refer to your specific project layout, or contact your local TKE representative for details.

4 Duplex Hoistway Width includes a 4" allowance for divider beam.

5 Cab Heights of 8'-10" and 9'-10" also available (in one foot increments only).

6 Overhead (**O**) shown is based on machine being flown in prior to hoistway roof installation. If the hoistway is covered prior to machine installation, a safety beam is required. With the use of a safety beam, the overhead dimension (**O**) will be to the bottom of the beam rather than hoistway cap.

NOTES: **(K)** represents Car Top Rail, if required.
5,000 lb. capacity safety beam **(U)** is by others.

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