RHX®

EASY OPERATION AND SUPERIOR FUNCTIONALITY FOR THE MOST STRINGENT APPLICATIONS.

OVERHEAD DOOR®

**INDUSTRY LEADING
COMMERCIAL & INDUSTRIAL SOLUTIONS**

Standard features at a glance
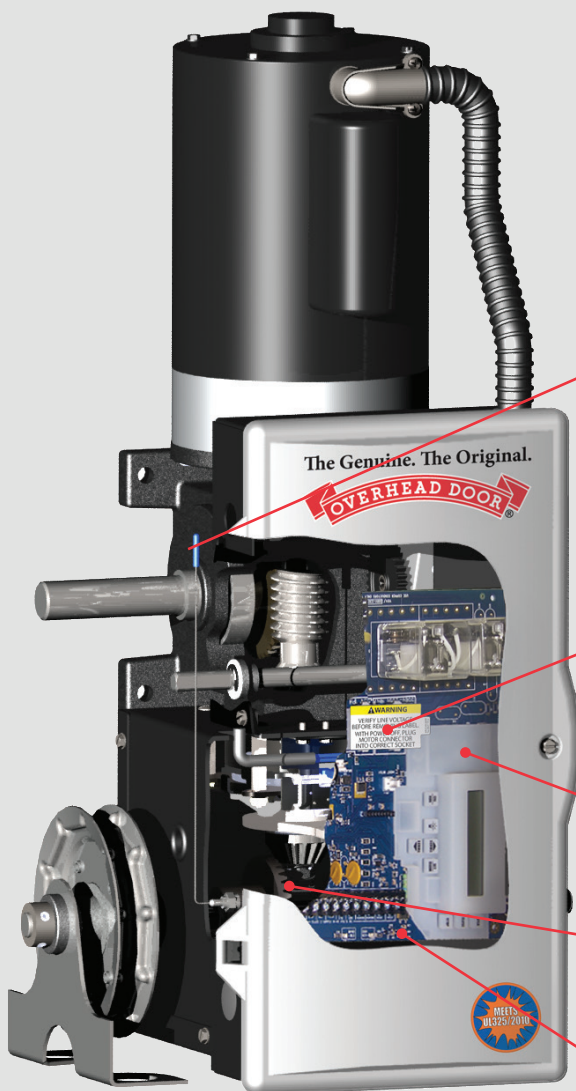
Progressive braking*
An advanced DC brake system similar to anti-lock brakes brings the door to a soft stop for less wear and tear on the system.

Easy limit setting with LimitLock®
An electro/mechanical limit sensor that makes it easy to set and maintain limits.

Advanced radio receiver system with auto seek frequency range
Quickly and easily learns up to 250 CodeDodger® transmitters. This system will automatically cycle between 315 and 390 frequencies. It can add and delete transmitters from the menu and easily identify which transmitters are operating the door.

Voltage freedom with Voltamatic®
Voltamatic® provides 115/208/230V single phase in one unit, and 208/230/460V three phase in another unit. A separate 575V three phase unit is also available.

16-character LCD display
Simplifies installation and troubleshooting. Intelligent menu structure and expanded self-diagnostics.

True gear head design
This system's primary drive reduction is via worm gear running in oil bath, which provides reliable operation.

UL325 2010 compliant
This standard requires the addition of monitored external entrapment devices prior to the operator working in momentary contact in the close direction.

*Patents # 6,737,823 and # 6,388,412

Sectional Steel Door square foot limits

					Commercial steel insulated & non-insulated								
			Door Series ➡		416	418	420	422	424	426	430	432	470
Model	HP	UL Listed	Mounting type	Max. door weight (lbs)	16 ga. Flush steel	16 ga. Flush steel insulated	20 ga. Ribbed steel	20 ga. Ribbed steel insulated	24 ga. Ribbed steel	24 ga. Ribbed steel insulated	Nominal 24 ga. Ribbed steel	Nominal 24 ga. Ribbed steel insulated	Styrene steelback insulated
					Maximum door square footage								
RHX®	1/2	Yes	TSC	1310	330	262	406	330	448	366	326	326	281
RHX®	3/4	Yes	TSC	1450	366	294	490	406	536	448	326	326	281
RHX®	1	Yes	TSC	1650	448	366	536	448	632	490	326	326	281
RHX® w/14 RPM direct couple kit	1	Yes	SC	2400	490	406	684	536	792	584	326	326	281
RHX® w/14 RPM direct couple kit	3	Yes	SC	3696	701	588	1020	821	1020	821	326	326	281

					Thermacore									**Aluminum**	
			Door Series ➡		591	592	593	594	596	598	599	850		
Model	HP	UL Listed	Mounting type	Max. door weight (lbs)	Ribbed steel 1-5/8"	Ribbed steel 2"	Ribbed steel 1-3/8"	Raised panel steel 1-3/8"	20 ga. Flush steel 2"	Ribbed steel 1"	Ribbed steel 2"	20 ga. Flush steel 3"	511	521
					Maximum door square footage										
RHX®	1/2	Yes	TSC	1310	490	448	326	326	380	200	448	400	326	406
RHX®	3/4	Yes	TSC	1450	536	490	326	326	419	200	448	420	326	506
RHX®	1	Yes	TSC	1650	632	584	326	326	501	200	448	470	326	526
RHX® w/14 RPM direct couple kit	1	Yes	SC	2400	792	736	326	326	591	200	448	605	326	526
RHX® w/14 RPM direct couple kit	3	Yes	SC	3696	1164	1020	326	326	888	200	448	840	326	526

T = Trolley   S = Jackshaft, Side Mount   C = Jackshaft, Center Mount
Note: Side/center direct couple kit output speed is 26 RPM for 1/2, 3/4, and 1hp. For large doors use 14 RPM output speed direct couple kit on 1, and 3 HP RHX operators.
Note: Total door weight, and not the square footage, is the critical factor in selecting the proper operator. Square foot measurements are based on "square doors". (Example = 16' x 16')
Note: Doors that require special windloading and wide doors normally require increased strutting (reinforcement). Strutting doors can significantly increase door weight beyond maximum weight shown. Consult factory personnel in these situations.

Rolling Steel Door square foot limits

Model	HP	Max. output torque (in lbs.)	UL listed	Rolling steel doors														
				600	610/620						625					627		
				24 ga.	24 ga.	22 ga.	20 ga.	18 ga.	16/18 ga. Alum.	14 ga. Alum.	24 ga.	22 ga.	20 ga.	18 ga.	14 ga. Alum.	24 ga.	22 ga.	14 ga. Alum.
				Maximum door square footage														
RHX®	1/2	466	Yes	256*	465	403	351	268	450	660	247	215	199	169	600	180	144	144
RHX®	3/4	570	Yes	256*	580	502	437	334	450	480	307	268	248	211	420	216	180	180
RHX®	1	667	Yes	256*	690	600	523	399	450	660	367	320	297	252	660	228	216	216
RHX®	3	1972	Yes	256*	N/A	1137	945	867	450	810	798	696	645	548	810	512	476	476

Model	HP	Max. output torque (in lbs.)	UL listed	FireKing® 635		Rolling fire doors/shutters 630/631/634				640/641	Counter 650/651/652	Grilles 670	671
				24 ga.	22 ga.	24 ga.	22 ga.	20 ga.	18 ga.	22 ga.	20 ga. Alum.	Alum.	Steel
				Maximum door square footage									
RHX®	1/2	466	Yes	247**	215**	172**	168**	351**	268**	N/A	All*	540	240
RHX®	3/4	570	Yes	307**	268**	172**	168**	416**	334**	N/A	All*	620	290
RHX®	1	667	Yes	367**	320**	172**	168**	480**	399**	N/A	All*	700	340
RHX®	3	1972	Yes	798**	696**	172**	168**	576**	696**	N/A	All*	1080	888

Note: Door chart represents max. door height of 24ft., over 24ft high consult factory.
* Operator must be wall mounted.
** Must use the Auxiliary Input/Output Module part number OPABIOX.S when used in conjunction with a Fire Sentinel®

Optional accessories

Accessory	Description
Transmitters	The RHX® operator features a built-in Radio Receiver System that can store up to 250 transmitters, giving the customer the ability to identify which transmitters have been operating the door. Radio transmitters may be single-button, two-button, three-button, four-button, or Open-Close-Stop. They are easily programmed or erased using the LCD display. The patented CodeDodger® technology automatically cycles between 315 and 390 MHz with the touch of a button.
Motors	The following motors are available when specified: • **Totally Enclosed Non Ventilated** (TENV) • **Totally Enclosed Fan Cooled** (TEFC) • **Environmental modifications:** TENV, TEFC, NEMA 4 and NEMA 4X
Auxiliary modules	• **Timer to Close Module** – provides auxiliary control inputs, auxiliary safety inputs, auxiliary timer hold input, and an automatic door closing feature with a user-selectable time delay. Safety inputs can be enabled or disabled using the on-board keypad. A monitored safety device must be used with this module. • **Auxiliary Output Module** – this plug-in module will provide several auxiliary sets of dry contacts for monitoring door status. Outputs can be configured using the on-board keypad.
Sensing devices	• **Bottom Sensing Edge** – stops and reverses the door upon contact with an obstruction. • **Safe-T-Beam®** – senses an obstruction and signals the operator to stop or reverse the door.

RHX® advantages

Mounting

A wide variety of mounting options are available to fit any application including:

Sectional Doors: Standard, side mount, and dual trolley applications. All models come standard with the DC brake system. Side-mount and center-mount chain couple or direct couple to the door shaft with hoist. Hoist models are left or right hand adjustable in the field.

Rolling Steel Doors: With hoist, front of hood, top of hood, bench mount, and wall-mount applications. Hoist models are left or right hand adjustable in the field.

Motor

Open drip-proof motor available in ½, ¾, 1 and 3* horsepower, single or three-phase. Totally enclosed non-ventilated (TENV) construction and totally enclosed fan cooled (TEFC) construction units are available as options.

On-board radio receiver

This standard feature can add radio functionality to every job with no additional cost for the receiver. Stores up to 250 CodeDodger® transmitters including the new commercial dual frequency cycling versions.

Drive reduction

Primary reduction is worm gear running in oil bath. Secondary reduction is by chain and sprocket.

Direct coupling (optional on sectional doors only)

Provides fast, easy installation and prevents chain slacking. Available as an optional kit for sectional side/center mount and hoist units.

For sectional, options include:

- 14 RPM kit
- 26 RPM kit

Timed Close

Doors can be set to automatically close after a two second to five minute delay.

* 3 horsepower models come only in three phase standard with (TEFC) construction.

Mechanical brake system

24V DC Disc Brake. Fewer mechanical parts for improved reliability.

Clutch (standard with trolley; optional with hoist)

Adjustable disc-type helps protect door and operator from major damage should the door meet an obstruction. (Included in 14 and 26 RPM direct couple mounting kits).

Cycle counter

LCD clearly indicates the exact number of cycles logged for easy maintenance support.

Adjustable shaft

Output shaft of the optional direct coupling kits can be moved from one side to the other, providing flexible installation options.

Trolley rail assembly

High strength 2 inch structural angle for added strength and durability.

NEMA 4/4X operators (optional)

Available for wet, dusty and corrosive environments.

CodeDodger® commercial dual frequency cycling transmitters (optional)

Available in 1, 2, 3, 4-button and Open/Close/Stop versions. Automatically operates at both 315 and 390 MHz every time a button is pressed.

Limited Warranty

RHX® operator features a 2-year or 20,000 cycle limited warranty. See installation manual for complete limitations and details.

Architect's Corner

A resource for architects, containing comprehensive technical and resource materials to support your project, including drawings and specifications for commercial doors.

www.overheaddoor.com

The original, innovative choice for unequalled quality and service.

Overhead Door Corporation pioneered the upward-acting door industry, inventing the first upward-acting door in 1921 and the first electric door operator in 1926. Today, we continue to be the industry leader through the strength of our product innovation, superior craftsmanship and outstanding customer support, underscoring a legacy of quality, expertise and integrity. That's why design and construction professionals specify Overhead Door™ products more often than any other brand. Our family of over 400 Overhead Door™ Distributors across the U.S. and Canada not only share our name and logo, but also our commitment to excellence.

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