EASY OPERATION AND SUPERIOR FUNCTIONALITY FOR THE MOST STRINGENT APPLICATIONS.
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

<table>
<thead>
<tr>
<th>Model</th>
<th>HP</th>
<th>UL Listed</th>
<th>Mounting type</th>
<th>Door Series</th>
<th>416</th>
<th>418</th>
<th>420</th>
<th>422</th>
<th>424</th>
<th>426</th>
<th>430</th>
<th>432</th>
<th>470</th>
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<tbody>
<tr>
<td>RHX®</td>
<td>1/2</td>
<td>Yes</td>
<td>TSC</td>
<td>1310</td>
<td>330</td>
<td>262</td>
<td>406</td>
<td>330</td>
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<td>281</td>
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<tr>
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<td>TSC</td>
<td>1450</td>
<td>366</td>
<td>294</td>
<td>490</td>
<td>406</td>
<td>536</td>
<td>448</td>
<td>326</td>
<td>326</td>
<td>281</td>
</tr>
<tr>
<td>RHX®</td>
<td>1</td>
<td>Yes</td>
<td>TSC</td>
<td>1650</td>
<td>448</td>
<td>366</td>
<td>536</td>
<td>448</td>
<td>632</td>
<td>490</td>
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<td>281</td>
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<tr>
<td>RHX® w/14 RPM direct couple kit</td>
<td>1</td>
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<td>2400</td>
<td>490</td>
<td>406</td>
<td>684</td>
<td>536</td>
<td>792</td>
<td>584</td>
<td>326</td>
<td>326</td>
<td>281</td>
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<tr>
<td>RHX® w/14 RPM direct couple kit</td>
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<td>Yes</td>
<td>SC</td>
<td>3696</td>
<td>701</td>
<td>588</td>
<td>1020</td>
<td>821</td>
<td>1020</td>
<td>821</td>
<td>326</td>
<td>326</td>
<td>281</td>
</tr>
</tbody>
</table>

#### Thermacore

| Model          | HP | UL Listed | Mounting type | Door Series | 591 | 592 | 593 | 594 | 596 | 598 | 599 | 850 | 511 | 521 |
|----------------|----|-----------|---------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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 |

#### Aluminum

| Model          | HP | UL Listed | Mounting type | Door Series | 591 | 592 | 593 | 594 | 596 | 598 | 599 | 850 | 511 | 521 |
|----------------|----|-----------|---------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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

<table>
<thead>
<tr>
<th>Model</th>
<th>HP</th>
<th>Max. output torque (in lbs.)</th>
<th>UL listed</th>
<th>Rolling steel doors</th>
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<tbody>
<tr>
<td>RHX®</td>
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<td>466</td>
<td>Yes</td>
<td>256* 465 403 351 268 450 660 247 215 199 169 600 180 144 144</td>
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<tr>
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<td>570</td>
<td>Yes</td>
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<tr>
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<td>667</td>
<td>Yes</td>
<td>256* 690 600 523 399 450 660 367 320 297 252 660 228 216 216</td>
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<tr>
<td>RHX®</td>
<td>3</td>
<td>1972</td>
<td>Yes</td>
<td>256* N/A 1137 945 867 450 810 798 696 645 548 810 512 476 476</td>
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</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>HP</th>
<th>Max. output torque (in lbs.)</th>
<th>UL listed</th>
<th>FireKing® Rolling fire doors/shutters Counter Grilles</th>
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<tbody>
<tr>
<td>RHX®</td>
<td>1/2</td>
<td>466</td>
<td>Yes</td>
<td>247** 215** 172** 168** 351** 268** N/A All* 540 240</td>
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<tr>
<td>RHX®</td>
<td>3/4</td>
<td>570</td>
<td>Yes</td>
<td>307** 268** 172** 168** 416** 334** N/A All* 620 290</td>
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<tr>
<td>RHX®</td>
<td>1</td>
<td>667</td>
<td>Yes</td>
<td>367** 320** 172** 168** 480** 399** N/A All* 700 340</td>
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<tr>
<td>RHX®</td>
<td>3</td>
<td>1972</td>
<td>Yes</td>
<td>798** 696** 172** 168** 576** 696** N/A All* 1080 888</td>
</tr>
</tbody>
</table>

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

**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.
HEAVY DUTY COMMERCIAL OPERATOR

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.

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.

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