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RadonAway RP145c

RadonAway RP145c Radon Fan User Manual

Model: RP145c | Brand: RadonAway

Introduction	Safety Information	Product Overview	Setup & Installation	Operation
Maintenance	Troubleshooting	Specifications	Warranty	Support

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the RadonAway RP145c Radon Fan. The RP145c is designed specifically for radon mitigation systems, offering efficient and quiet performance for most sub-slab radon applications. Adherence to these instructions is crucial for the safe and effective operation of the unit.

2. SAFETY INFORMATION

Important: Installation of this radon fan should be performed by a qualified professional in accordance with all local and national building codes and regulations. Improper installation can lead to hazardous conditions, including electrical shock or ineffective radon mitigation.

- **Electrical Safety:** Ensure the power supply is disconnected before any installation or maintenance. All electrical connections must comply with local electrical codes. The fan is designed for corded electric power; a power cord is not included and must be sourced separately.
- **Ventilation:** The fan is intended for use in a radon mitigation system to exhaust radon gas safely to the exterior of the building. Do not operate the fan in an enclosed space without proper ventilation.
- **System Integrity:** For effective radon reduction, all openings, major cracks, and penetrations in the building slab or membrane must be properly sealed. Fan sizing for retrofit systems may require professional diagnostics and design.
- **Installation Location:** While the fan is water-hardened, it is generally recommended to install radon fans in an attic or outside the living space to minimize noise and potential issues. Avoid installing in basements where a fan failure could lead to radon leakage indoors.
- **Handling:** Handle the fan with care to avoid damage to internal components.

3. PRODUCT OVERVIEW

The RadonAway RP145c is a high-performance radon fan engineered for efficient and quiet operation in radon mitigation systems. It features a durable design suitable for both commercial and residential applications.

Key Features:

- Energy efficient and ultra-quiet operation.
- Meets all electrical code requirements.
- Rated for commercial and residential use.
- Features a water-hardened motorized impeller.
- Seams are sealed to inhibit radon leakage.
- Equipped with a thermally protected motor.

Product Images:



Figure 3.1: Front-side view of the RadonAway RP145c Radon Fan. This image displays the fan's main body and the electrical housing, along with the product label indicating the model number and manufacturer information.



Figure 3.2: Top-down view of the RadonAway RP145c Radon Fan. This perspective shows the fan's circular inlet/outlet and the electrical connection box from above, highlighting the internal impeller structure.



Figure 3.3: Example installation of the RadonAway RP145c Radon Fan on an exterior wall. The fan is integrated into a PVC pipe system, demonstrating a typical setup for radon mitigation, with the fan positioned vertically between two pipe sections.



Figure 3.4: Dimensions of the RadonAway RP145c Radon Fan. This image provides a side view of the fan with measurements indicating its height (8.5 inches) and width/depth (9.7 inches), crucial for planning installation space.

4. SETUP & INSTALLATION

Proper installation is critical for the effectiveness and safety of your radon mitigation system. It is highly recommended that installation be performed by a certified radon mitigation professional.

Pre-Installation Checklist:

- Ensure all necessary permits are obtained.
- Verify that all sub-slab openings, cracks, and penetrations are sealed.
- Gather required tools and materials:
 - RadonAway RP145c Radon Fan
 - Appropriate PVC piping (typically 4-inch diameter for RP145c)
 - Two pipe-to-fan connectors/couplings (e.g., Fernco adapters, ensuring compatibility with pipe and fan diameters)
 - Electrical power cord kit (not included with fan)
 - PVC hand saw or fine-tooth sawzall

- Razor or reaming tool for pipe edges
- File for smoothing pipe edges (optional)
- Flat-head screwdriver or socket wrench for tightening couplings
- Radon detector and manometer for system testing
- Determine the optimal installation location (e.g., attic, exterior wall) to minimize noise and ensure proper venting away from living spaces.

Installation Steps:

1. **Power Disconnection:** Before beginning any work, ensure the electrical power to the installation area is completely disconnected at the circuit breaker.
2. **Pipe Preparation:** If replacing an existing fan or installing in a new system, cut the PVC pipe to the appropriate length to accommodate the fan and couplings. For the RP145c, the fan's total length with couplings will influence the required pipe section removal. Smooth any rough edges of the cut pipe using a file or reaming tool.
3. **Electrical Connection:** Connect the electrical power cord to the fan's wiring. The RP145c may have two or three wires; if your power cord has three wires and the fan has two, cap the third (ground) wire on the power cord securely. Ensure all connections are tight and insulated.
4. **Pre-Installation Test:** Briefly plug in the fan (if using a temporary power source) to confirm it operates and there are no loose components.
5. **Attach Couplings:** Securely attach the pipe-to-fan couplings to both ends of the fan before lifting it into position.
6. **Mounting the Fan:** Carefully insert the fan with attached couplings into the prepared pipe sections. Ensure a snug fit and tighten the coupling clamps using a screwdriver or socket wrench. The fan should be installed vertically.
7. **System Sealing:** Double-check that all connections are airtight to prevent radon leakage.
8. **Power Restoration & Testing:** Restore power to the system. Verify fan operation and check the manometer (if installed) to confirm proper suction. Typical manometer readings for effective systems are around 1.25 to 1.75 inches of water column.

5. OPERATION

Once properly installed and powered, the RadonAway RP145c fan operates continuously to create a negative pressure field beneath your home's foundation, drawing radon gas from the soil and venting it safely outdoors. The fan is designed for ultra-quiet operation, making its presence minimally noticeable.

- **Continuous Operation:** For optimal radon reduction, the fan should run 24 hours a day, 7 days a week.
- **Monitoring:** Regularly check your system's manometer (if installed) to ensure the fan is creating the expected suction. A consistent reading indicates proper fan function. Additionally, periodic radon testing with a reliable radon detector is recommended to confirm the effectiveness of the mitigation system.

6. MAINTENANCE

The RadonAway RP145c fan is designed for long-term, maintenance-free operation. However, periodic checks of the overall radon mitigation system are recommended to ensure continued effectiveness.

- **Manometer Check:** Visually inspect the manometer regularly (e.g., monthly) to ensure it shows a consistent vacuum reading. A zero reading or a significantly lower reading may indicate a fan malfunction or a leak in the system.
- **System Inspection:** Periodically inspect the visible components of your radon mitigation system, including

piping and seals, for any signs of damage, cracks, or disconnections.

- **Radon Level Testing:** Conduct radon tests annually or biannually to confirm that radon levels remain below the EPA action limit.
- **Cleaning:** The fan itself generally does not require cleaning. Ensure the exterior of the fan and surrounding area are free from debris that could obstruct airflow or cause overheating.

7. TROUBLESHOOTING

If you experience issues with your RadonAway RP145c fan or your radon mitigation system, refer to the following common problems and solutions. For complex issues, contact a qualified radon mitigation professional.

Problem	Possible Cause	Solution
Fan is not running (no noise, no suction)	<ul style="list-style-type: none">• No power to the fan.• Loose electrical connection.• Fan motor failure.	<ul style="list-style-type: none">• Check circuit breaker and power outlet.• Inspect electrical connections (ensure power is off first).• If power is present and connections are secure, the fan may need replacement.
Manometer shows zero or very low suction	<ul style="list-style-type: none">• Fan not operating (see above).• Leak in the radon piping system.• Unsealed cracks or openings in the slab/foundation.• Manometer malfunction.	<ul style="list-style-type: none">• Verify fan operation.• Inspect all pipe connections and seals for leaks.• Re-seal any identified cracks or openings in the foundation.• Test manometer or replace if faulty.
Radon levels remain high despite fan operation	<ul style="list-style-type: none">• Inadequate sealing of slab/foundation.• Fan is undersized for the property.• System design issues.• Fan malfunction (reduced performance).	<ul style="list-style-type: none">• Thoroughly inspect and seal all potential entry points for radon.• Consult a radon professional for system re-evaluation and potential fan upgrade.• Check manometer for proper suction.
Excessive noise from the fan	<ul style="list-style-type: none">• Fan bearings wearing out.• Vibrations due to improper mounting.• Debris inside the fan.	<ul style="list-style-type: none">• Ensure fan is securely mounted and isolated from structural elements.• Inspect for any foreign objects inside the fan (with power off).• Excessive noise often indicates the fan is nearing the end of its lifespan and may require replacement.

8. SPECIFICATIONS

Attribute	Detail
Model Number	RP145c (P/N 23030-1)
Brand	RadonAway

Attribute	Detail
Airflow Capacity	166 CFM (Cubic Feet per Minute)
Inlet/Outlet Diameter	4.5 inches
Product Dimensions (L x W x H)	9.7 x 9.7 x 8.5 inches
Item Weight	5.5 Pounds
Noise Level	30 dB
Power Source	Corded Electric
Recommended Use	Radon Mitigation, Home, Indoor
Special Feature	Water Resistant

9. WARRANTY INFORMATION

The RadonAway RP145c Radon Fan comes with a manufacturer's warranty. The specific terms and duration of the warranty are provided by RadonAway. For detailed warranty information, including coverage, limitations, and how to make a claim, please refer to the documentation included with your product or visit the official RadonAway website.

10. SUPPORT & CONTACT

For technical assistance, product inquiries, or further support regarding your RadonAway RP145c Radon Fan, please contact RadonAway directly. You can find contact information and additional resources on their official website:

[Visit RadonAway Official Website](#)

It is recommended to have your product model number (RP145c) and any purchase details ready when contacting support.

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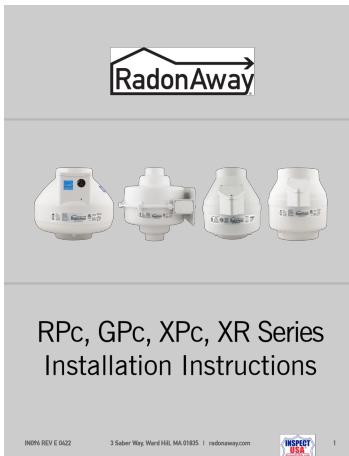
This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents - RP145c

	<p>RadonAway 2018/2019 Product Catalog for Radon Professionals</p> <p>Comprehensive catalog of RadonAway products for radon professionals, featuring fans, testing equipment, sealing solutions, water treatment systems, and IAQ products. Includes specifications, pricing, and technical guides.</p>
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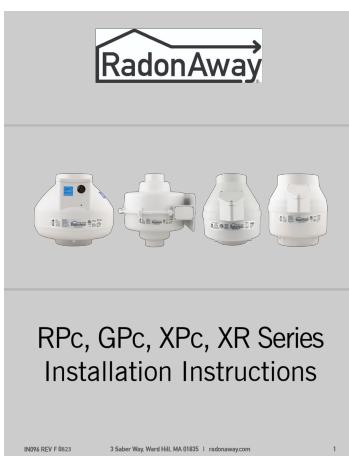
 GX5A Pro Series Fan Installation Instructions	<p>RadonAway GX5A Pro Series Fan Installation Instructions</p> <p>Comprehensive installation and operating instructions for the RadonAway GX5A Pro Series Fan, including system design considerations, mounting, electrical wiring, and warranty information.</p>
 RP and XP Pro Series Installation Instructions	<p>RadonAway RP and XP Pro Series Fan Installation and Operating Instructions</p> <p>Comprehensive installation and operating guide for RadonAway RP and XP Pro Series radon and vapor intrusion fans, covering safety, design, installation, specifications, and warranty.</p>
 INSTRUCTIONS FAN SELECTION DIAGNOSTIC AID KIT P/N 28003	<p>RadonAway Fan Selection Diagnostic Aid Kit Instructions</p> <p>Instructions for using the RadonAway Fan Selection Diagnostic Aid Kit (P/N 28003) to test subslab material and aid in radon mitigation system fan selection. Includes kit contents, assembly, testing procedures, analysis, and potential pitfalls.</p>
 FAN SELECTION SPECIFICATIONS AND GUIDELINES With Fan Replacement Guide	<p>RadonAway Fan Selection Specifications and Guidelines 2024/2025</p> <p>Comprehensive guide to RadonAway fans, including selection specifications, performance data (CFM vs. static pressure), and replacement fan compatibility, adhering to CCAH standards.</p>
 2022/2023	<p>RadonAway 2022/2023 Product Catalog: Radon Mitigation, IAQ, and Testing Solutions</p> <p>Explore the comprehensive RadonAway 2022/2023 catalog featuring a wide range of radon mitigation fans, ASD system components, indoor air quality products, water treatment systems, testing equipment, and professional training. Find solutions for healthier indoor environments.</p>

Documents - RadonAway – RP145c



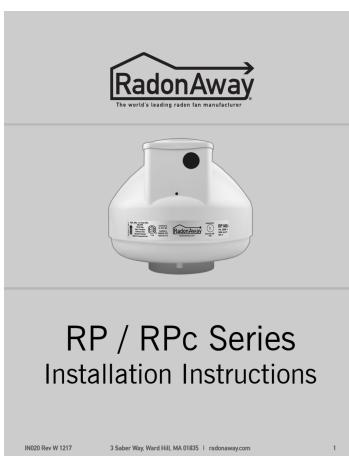
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RP265C 6 in Inlet and Outlet Inline Radon Fan White with 2 3 Maximum Operating Pressure Instructions Assembly RadonAway 23033 1 667829230331 0667829230331 1001648354 10bff9a5 7f78 42d4 87d8 205e58770e83 images thdstatic catalog Images 10 ||| RPc, GPc, Xp, XR Series Installation Instructions IN096 REV E 0422 3 Saber Way, Ward Hill, MA 018 ... rd Hill, MA 01835 radonaway.com 2 Fan Installation Operating Instructions RPc Series RP140c RP145c RP260c RP265c GPc Series GP301c GP501c Xp / XR Series XP201c XR261 1.0 SYSTEM DESIGN CONS... lang:en **score:39** filesize: 782.6 K page_count: 8 document date: 2022-04-26



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[pdf] Warranty Catalog



RadonAway® RP145c Radon Mitigation Fan at Menards®RPc cutsheet RevB0322 webcdn menardc main items media SPRUC003 Prod Tech Spec RPc web Menards®RadonAway RP145C 4 in Inlet and Outlet Inline White with 1 7 Maximum Operating Pressure 23030 The Home DepotRPc webac150858 539a 41fa a470 fd1ac2226d67cdn webimages thdstatic catalog Images ac ac150858 fd1ac2226d67 ||| ||| RPc Contractor Series Radon Mitigation Fan All RadonAway fans are specifically designed for radon mitigation. RPc Series Fans provide superb performance, run ultra-quiet and are attractive. They are ideal for most sub-slab radon mitigation systems

Features

- Energy efficient
- Ultra-quiet operation
- Meets all electrical code requirements
- Water-hardened motorized impeller
- RP140c & RP145c double snap sealed
- ETL Listed - for indoor or outdoor use
- Thermally protected motor
- Rated for commercial and residential use
- UL listed for indoor use
- 5-year limited warranty (extended to 5 years when installed by a radon professional)



Model	P/N	FAN DUCT DIAMETER	MOTOR	TYPICAL CFM @ 0.0" static pressure (in. H2O)	AMPS	W	IN	MM	IN	MM	IN	MM	IN	MM
RP140c	230065	4"	1/20	1,7	1.68	130W	132P	84H	44	112	132P	84H	44	112
RP140c	230066	6"	1/10	3,2	2.88	250W	242P	124H	51	130	242P	124H	51	130
RP145c	230067	6"	1/10	3,2	2.2	250W	242P	124H	51	130	242P	124H	51	130
RP145c	230068	8"	1/10	5,5	4.28	350W	342P	124H	61	152	342P	124H	61	152

MADE IN USA ETL Listed

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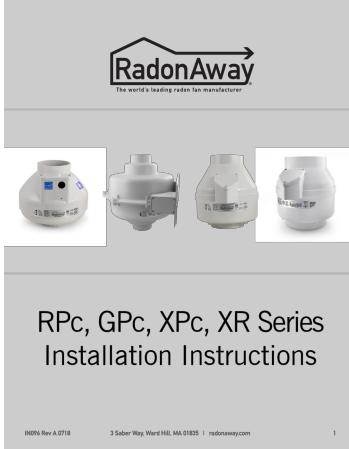
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sealed to inhibit radon leakage RP140c RP145c double snap sealed ETL Listed - for

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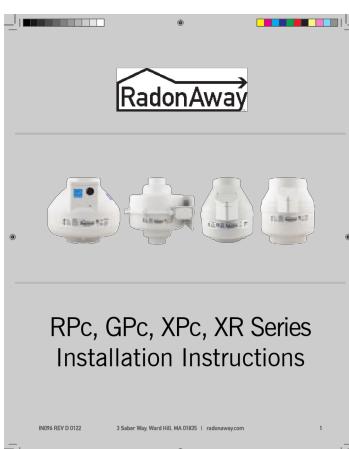


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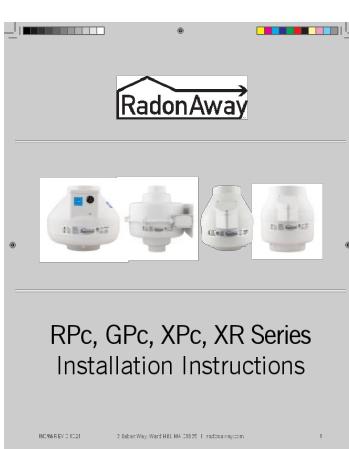


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RPc Series



Radon Mitigation Fan
All RadonAway® fans are specifically designed for radon mitigation. RPc Series Fans provide superb performance, run ultra quiet and are attractive. They are ideal for most sub-dab radon mitigation systems.

Features

- Energy efficient
- Ultra-quiet operation
- Meets all electrical code requirements
- Water-hardened motorized impeller
- Seams sealed to inhibit radon leakage
- UL Listed for indoor use
- ETL Listed for indoor or outdoor use
- UL Listed for outdoor use
- Rated for commercial and residential use

Model	P/N	FAN DUCT DIAMETER	Watts	Max. Air Flow (cfm)	Typical CFM at Static Pressure (in. H2O)	4"	6"	8"	10"	12"
RP140c	230301	4"	43.72	1.7	306	126	80	43	9	
RP145c	230302	6"	100.00	1.9	306	247	170	100	22	
RP140c	230303	8"	93.59	2.2	304	247	170	116	52	
RP140c	230304	10"	95.152	2.0	407	363	200	130	58	

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For Further Information Contact Your Radon Professional.

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INLINE VENTILATION FANS RADON Radon in water testing VI MOISTURE CONTROL IAQ PRODUCTS ACC RadonAway 18 apr 2023 — Our first fan designed specifically for radon mitigation was released under the RadonAway® brand name now offers 5 lines and 17 models Spruce Catalog WEB radonaway s newsletters General |||

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RP Series



Radon Mitigation Fan
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RP140c	230301	4"	43.72	1.7	306	126	80	43	9	
RP145c	230302	6"	100.00	1.9	306	247	170	100	22	
RP140c	230303	8"	93.59	2.2	304	247	170	116	52	
RP140c	230304	10"	95.152	2.0	407	363	200	130	58	

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For Further Information Contact Your Radon Professional.

Rev C 04/12

[pdf] Warranty Catalog

RP265C 6 in Inlet and Outlet Inline Radon Fan White with 2 3 Maximum Operating Pressure Warranty RadonAway 230303 1 667829230331 0667829230331 1001648354 ac9fd505 1f80 4255 bc84 f913408fa44c images thdstatic catalog Images ac |||

RP Series Radon Mitigation Fan All RadonAway fans are specifically designed for radon mitigation. R ... tdoor use Thermally protected motor Rated for commercial and residential use MODEL P/N RP140c* RP145c RP260c RP265c RP380 23029-1 23030-1 23032-1 23033-1 28208 FAN DUCT DIAMETER 4 4 6 6 8 ...

lang:en score:28 filesize: 551.47 K page_count: 1 document date: 2017-05-02



[RadonAway 2022/2023 Product Catalog: Radon Mitigation, IAQ, and Testing Solutions](#)

Explore the comprehensive RadonAway 2022/2023 catalog featuring a wide range of radon mitigation fans, ASD system components, indoor air quality products, water treatment systems, testing equipment, and professional training. Find solutions for healthier indoor environments.

lang:en score:24 filesize: 35.52 M page_count: 104 document date: 2022-05-03

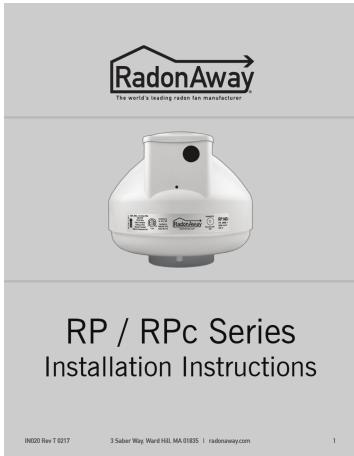


[\[pdf\] Guide Catalog](#)

RadonAway Mobile App RadStar Alpha Reporting Compliance RVI model per order †Denotes Energy Star® Rated Reduces the need for an exhaust fan or basement dehumidifier HealthWay® brings into home professional ExhibitorProductLit 43645 RA2122 catalog web buildersshow assets docs ibs pressReleases |||

RadonAway Mobile App pg. 103 RadStar Alpha Reporting Compliance pg. 48 RVI Test Port pg. 52 2023/202 ... ssional 1-year limited warranty for non-radon professionals . GP500 covered by a 2-year warranty. RP145c SPECIFICATIONS RP265c GP301c TYPICAL CFM vs. STATIC MODEL FAN DUCT DIAMETER WATTS RECO...

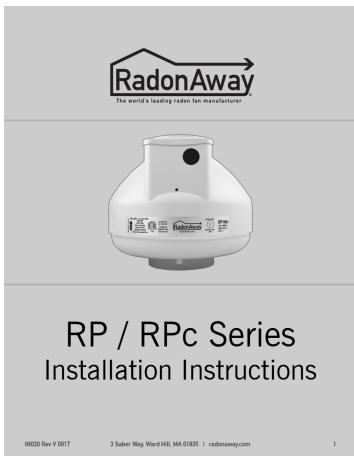
lang:en score:21 filesize: 17.15 M page_count: 0 document date: 0000-00-00



[\[pdf\]](#) Instructions Warranty Catalog

IN020 Rev T PRINT0517 RP RPc Series RadonAway® will replace any fan which fails due to defects in materials or workmanship during the Warranty Term. This is contingent on installation of 047f8c34 c6ff 4b0e af00 f0d544fc1cd6 images thdstatic catalog Images 04 047f8c34 f0d544fc1cd6 ||| c RP / RPc Series Installation Instructions IN020 Rev T 0217 3 Saber Way, Ward Hill, MA 01835 r ... n Operating Instructions Fan Series RP140 P/N 28460 RP140c P/N 23029-1 RP145 P/N 28461 RP145c P/N 23030-1 RP260 P/N 28462 RP260c P/N 23032-1 RP265 P/N 28463 RP265c P/N 23033...

lang:en **score:19** filesize: 5.24 M page_count: 8 document date: 2017-05-02



[\[pdf\]](#) Instructions

RP RPc Series supply grille s and the fan Fans are not suitable for kitchen range hood remote ventilation applications 1 5 GROUND WATER In event that a temporary high water table results in at or above slab level may be drawn into riser pipes thus blocking air flow to Fan 91PRSVHP1QL images na ssl amazon I c RP / RPc Series Installation Instructions IN020 Rev V 0917 3 Saber Way, Ward Hill, MA 01835 r ... n Operating Instructions Fan Series RP140 P/N 28460 RP140c P/N 23029-1 RP145 P/N 28461 RP145c P/N 23030-1 RP260 P/N 28462 RP260c P/N 23032-1 RP265 P/N 28463 RP265c P/N 23033...

lang:en **score:19** filesize: 710.72 K page_count: 8 document date: 2017-09-28



RP / RPc Series Installation Instructions

IN020 Rev X 0218

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[\[pdf\] Instructions Catalog](#)

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c RP / RPc Series Installation Instructions IN020 Rev X 0218 3 Saber Way, Ward Hill, MA 01835 r ... n Operating Instructions Fan Series RP140 P/N 28460 RP140c P/N 23029-1 RP145 P/N 28461 RP145c P/N 23030-1 RP260 P/N 28462 RP260c P/N 23032-1 RP265 P/N 28463 RP265c P/N 23033...

lang:en **score:19** filesize: 601.57 K page_count: 8 document date: 2018-02-26