



SUNCOURT® INSTALLATION INSTRUCTIONS

RADON FAN MODEL: RDK04, RDK04-3, RDN04 & RDN04-3

**READ THESE INSTRUCTIONS BEFORE PLANNING YOUR INSTALLATION
PLEASE READ AND SAVE THESE INSTRUCTIONS:**



DO NOT CONNECT POWER SUPPLY UNTIL FAN IS COMPLETELY INSTALLED.

CAUTION: BEFORE CARRYING OUT ANY MAINTENANCE OR SERVICING, ENSURE THE UNIT IS DISCONNECTED FROM THE MAIN POWER SUPPLY.

DO NOT USE TO EXHAUST HAZARDOUS OR EXPLOSIVE MATERIALS AND VAPORS OR DUST.

NEVER EXPOSE THIS FAN TO TEMPERATURES EXCEEDING 140°F (60°C).

WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

1. Do not use fan in hazardous environments where the fan electrical system could provide ignition to combustible or flammable materials.
2. Do not use fan to exhaust explosive or corrosive gases.
3. Check voltage at the fan to insure it corresponds with product nameplate.
4. Normal operation of this device may affect the supply of fresh air needed for safe operation of fuel burning equipment. Follow safety standards, codes, and heating equipment manufacturer's procedures guide lines.
5. There are no user serviceable parts located inside the fan unit. Do NOT attempt to open (this will void manufacturer's warranty). Return unit to the factory with original purchase receipt for service after obtaining a Return Goods Authorization (RGA).
6. All wiring must be in accordance with local and national electrical codes. When installed outside, power must be supplied from a GFCI (Ground Fault Circuit Interrupter).
7. Operate unit only in the manner intended. If you have questions, contact the manufacturer.
8. Before servicing or cleaning unit, switch power off at service panel and lock service panel to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag to the service panel.
9. Installation work and electrical wiring must be done by a qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
10. This unit has an unguarded impeller. Do not use in locations where the impeller is readily accessible to people or animals.

NE PAS CONNECTER D'ALIMENTATION JUSQU'À CE QUE LE VENTILATEUR EST COMPLÈTEMENT INSTALLÉ.



AVANT UNITÉ D'ENTRETIEN OU DE NETTOYAGE, COMMUTEZ LA MISE HORS TENSION AU PANNEAU DE SERVICE ET FERMEZ À CLEF LE SERVICE LA DÉCONNEXION SIGNIFIE POUR EMPÊCHER LA PUISSANCE D'ÊTRE BRANCHÉ ACCIDENTELLEMENT. QUAND LE SERVICE LA DÉCONNEXION DES MOYENS NE PEUT PAS ÊTRE VERROUILLÉE, ATTACHEZ SOLIDEMENT UN DISPOSITIF D'AVERTISSEMENT EN AVANT TEL QU'UNE ÉTIQUETTE AU PANNEAU DE SERVICE.

N'EMPLOYEZ PAS POUR ÉPUISER MATÉRIAUX DANGEREUX OU EXPLOSIFS ET VAPEURS OU POUSSIÈRE.

N'EXPOSEZ JAMAIS VOTRE VENTILATEUR DE CENTRAX® AUX TEMPÉRATURES AU-DESSUS DE 140°F (60°C) EMPLOYEZ DES FILS D'ALIMENTATION ADEQUATS POUR 105°C.

AVERTISSEMENT - POUR RÉDUIRE LES RISQUES DE FEU, CHOC ÉLECTRIQUE OU DE BLESSURES AUX PERSONNES, À OBSERVE CE QUI SUIT:

1. N'utilisez pas de ventilateur dans des environnements dangereux où le système électrique du ventilateur pourrait offrir allumage des matériaux combustibles ou inflammables.
2. N'employez pas pour épuiser des gaz explosifs ou corrosifs.
3. Vérifiez la tension sur le ventilateur pour assurer qu'il correspond à la tension sur l'étiquette.
4. Normal fonctionnement de ce dispositif peut affecter l'approvisionnement d'air frais nécessaire pour la sécurité de fonctionnement des appareils à combustible. Suivez la directive du fabricant d'équipement de chauffage, les standards de sécurité et les autorités de code local.
5. Il n'y a pas de pièces à l'intérieur qui peuvent être réparées. N'essayez pas d'ouvrir cet annule toutes les garanties. Expédiez l'unité à Suncourt Inc avec le reçu d'achat original pour le service seulement après l'obtention d'une autorisation de retour de marchandise (RGA)
6. Tous les câblages doivent être conformes aux codes électriques des états et nationaux. Lorsqu'il est installé à l'extérieur, la puissance doit être assurée à partir d'un interrupteur de circuit moulu de défaut (GFCI) (Ground Fault Circuit Interruptor).
7. Exploitation d'unité que dans la manière de l'intention. Si vous avez des questions, contactez le fabricant.
8. Avant l'entretien ou de nettoyage d'unité, éteignez puissance au service et panneau de service de verrouillage pour empêcher l'électricité allumée accidentellement. Lorsque le service moyens de déconnexion ne peut pas être verrouillé, solidement attachez un dispositif d'avertissement important, comme une balise pour le panneau de service.
9. Travaux d'installation et le câblage électrique doivent être effectués par une personne qualifiée conformément à toutes les codes applicables et les normes, y compris la construction de feu-évalué.
10. Cette unité a une roue sans dispositif protecteur. Ne pas utiliser dans les endroits où la roue est facilement accessible pour les personnes ou les animaux.



NO CONECTE LA ENERGÍA HASTA ESTÁ INSTALADO POR COMPLETO.

PRECAUCIÓN – PARA ANTES REALIZAR CUALQUIER MANTENIMIENTO O SERVICIO, ASEGURARSE DE QUE EL VENTILADOR ESTÁ DESCONECTADO DE LA FUENTE DE ENERGÍA PRINCIPAL.

NUNCA UTILICE PARA EVACUAR MATERIALES PELIGROSOS O EXPLOSIVOS Y VAPORES O POLVO.

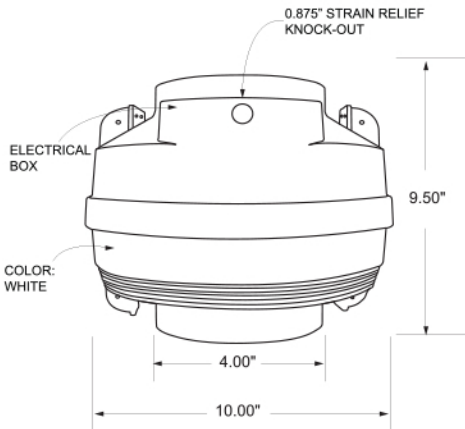
NUNCA EXPONGA ESTE VENTILADOR TEMPERATURAS SUPERIORES A 140° F (60° C).

ADVERTENCIA - PARA REDUCIR EL RIESGO DE INCENDIO, ELECTROCUCIÓN O LESIONES A PERSONAS, OBSERVA LO SIGUIENTE:

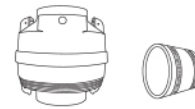
1. No use este ventilador en entornos peligrosos donde un sistema de ventilación puede encender materiales combustibles o inflamables.
2. No utilice para evacuar materiales peligrosos o explosivos y vapores o polvo.
3. Compruebe el voltaje comprobarel voltaje en el ventilador para asegurarse de que coincida con la placa de características del producto.
4. El funcionamiento normal de esta unidad puede que afecte el suministro de aire fresco necesario para la operación segura de los equipos de la quema de combustibles.
5. No hay piezas que el usuario situados en el interior del ventilador. NO intente abrir (esto anulará la garantía del fabricante). Devuelva la unidad a la fábrica con el recibo original para el servicio después de obtener una autorización de devolución (RGA).
6. Todos los cables deben ser de conformidad con los códigos eléctricos locales y nacionales. Cuando se instalan en el exterior, poder debe suministrarse desde un GFCI (interruptor de circuito de la avería tierra).
7. Utilice esta unidad solamente en la manera prevista por el fabricante. Si usted tiene preguntas, entre en contacto con el fabricante.
8. Antes de mantenimiento o limpieza de la unidad, apague el interruptor en el panel de servicio y bloquearlo para evitar que el poder de forma accidental activado. Cuando coloque un dispositivo de advertencia prominente, tal como una etiqueta para el panel de servicio.
9. El trabajo de instalación y el cableado eléctrico debe ser hecho por una persona(s) calificada(s) de acuerdo con todos los códigos y estándares aplicables, incluyendo la construcción clasificada contra fuego.
10. Esta unidad tiene un impulsor sin vigilancia. No utilice en lugares fácilmente cuando el impulsor es accesible a la gente o a los animales.

FAN SPECIFICATIONS

Electric Motor • External Rotor • Ball Bearing • Class B • Thermally Protected • Conforms To ANSI-UL 705 & CSA 22.2 • ETL Listed • Housing Material FRABS • UV Protected • Flame Rating UL 94V0 • Housing Color White



MOUNTING HARDWARE INCLUDED



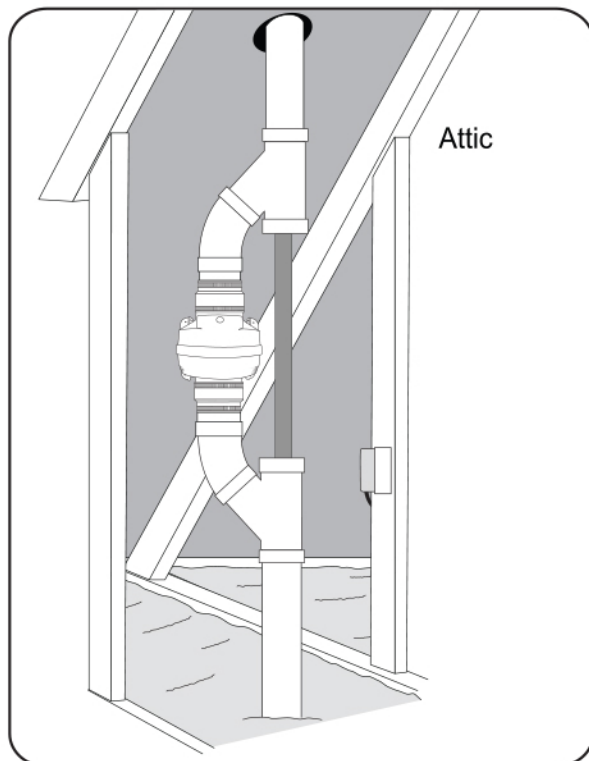
TF104	White Couplers
Qty. 1	Qty. 2

INSTALLATION

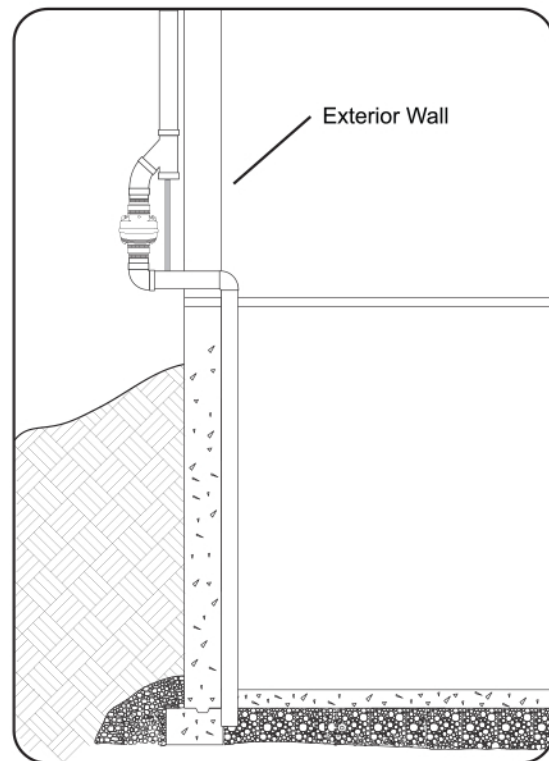
Retain original packaging.

The fan can be mounted indoors or outdoors. (It is suggested that EPA recommendations be followed in choosing the fan location.) The fan should be mounted directly to the system piping..

Indoor Installation

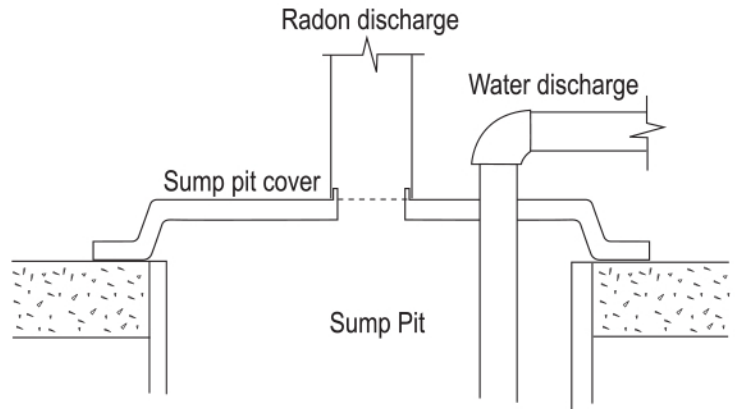


Outdoor Installation



OPTIONAL SUMP PIT INSTALLATION

In homes with a sump pit, a sump pit cover, or dome, can be mounted and sealed over the sump pit opening. Fittings in the sump pit cover are used to attach the pipes for water and radon gas discharge. All gaps in the cover should be sealed air tight.



MOUNTING

Mount the fan vertically with the outlet up. Insure the unit is plumb and level. When mounting directly to the system piping ensure that the fan does not contact any building surface to avoid vibration noise. Use the flexible couplers provided to secure the fan to the piping.

ELECTRICAL WIRING

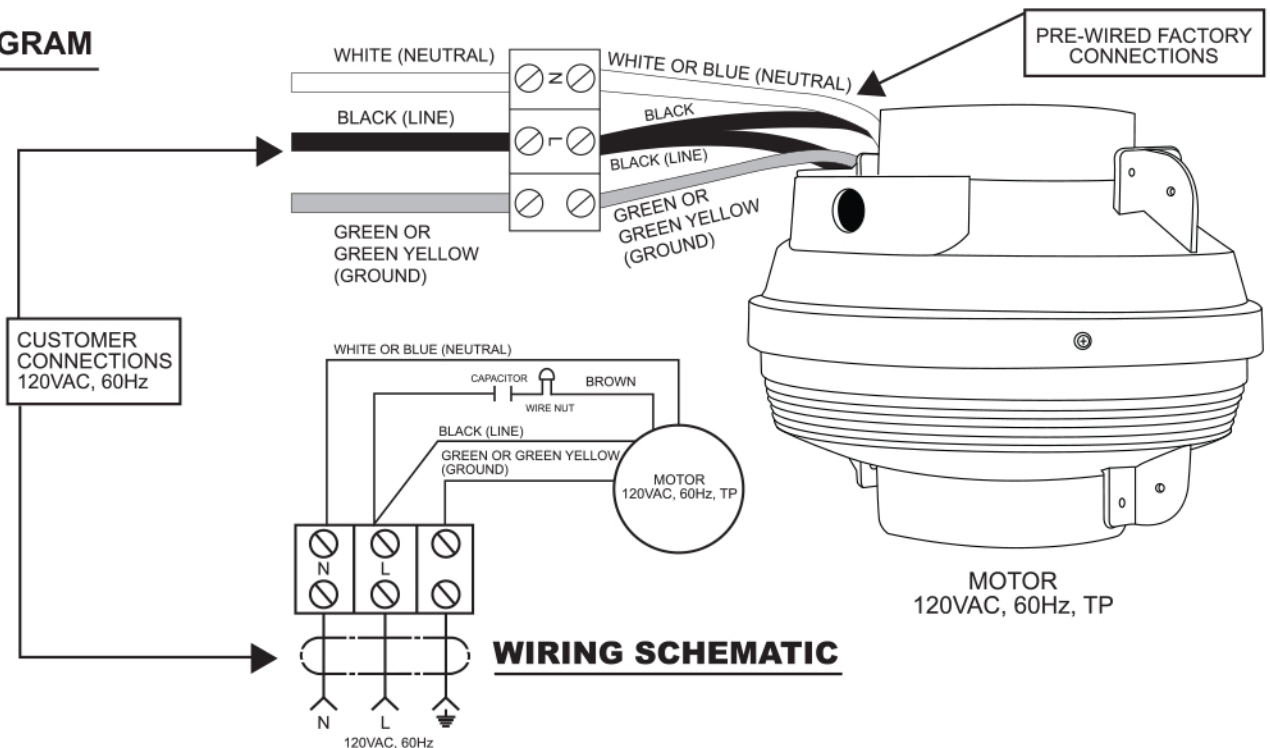
The fans operate on standard 120VAC 60Hz. All wiring must be performed in accordance with the National Electrical Code and state and local building codes. A qualified electrician should perform all electrical work. Outdoor installations require the use of UL Listed watertight conduit and power supplied from a GFCI (Ground Fault Circuit Interrupter).

ELECTRICAL CONNECTION

Connect wiring with terminal block provided, observing proper connections.

Fan Wire	Connection
Green (Green-Yellow)	Ground (G)
Black	AC Line
White (Blue)	AC Neutral

WIRING DIAGRAM

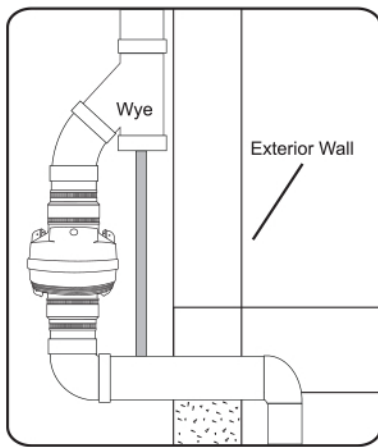


CONDENSATION & DRAINAGE

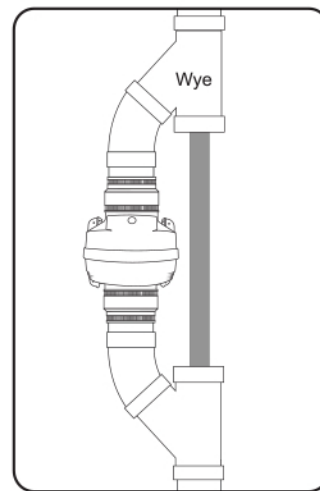
Condensation can form in the piping of a mitigation system when the air in the piping is chilled below its dew point. This can occur at points where the system piping goes through unheated space such as an attic, garage or outside. The system design must provide a means for water to drain back to a slab hole to remove the condensation. The fan **MUST** be mounted vertically plumb and level, with the outlet pointing up for proper drainage through the fan. Avoid mounting the fans in any orientation that will allow water to accumulate inside the fan housing. The fans are **NOT** suitable for underground burial.

A condensate bypass should be installed in the outlet ducting as shown below. This is particularly true in cold climate installations, which require long lengths of outlet ducting or when the outlet ducting is likely to produce large amounts of condensation because of high soil moisture or outlet duct material. Schedule 20 piping and other thin-walled plastic ducting or aluminum downspout piping will normally produce much more condensation than Schedule 40 piping.

The condensation produced in the outlet stack is collected in the Wye fitting and drained through the bypass tube. The bypass tubing may be insulated to prevent freezing.



The bypass is constructed with a 45 degree Wye fitting at the bottom of the outlet stack. The bottom of the Wye is capped and fitted with a tube that connects to the inlet piping.



The bypass is constructed using (2) 45 degree Wye fittings mounted above and below the fan. The Wye's divert the fan and allow the condensation to bypass the fan via a 1" drain tube.

Condensate bypass parts list

- (1) 3" or 4" 45DEG PVC Wye
- (1) 3" or 4" 45DEG PVC Strt Elbow
- (1) 3" or 4" x 1-1/2" PVC Bushing
- (1) 1-1/2" x 1" PVC Flush Bushing
- (1) 1" x 5' PVC
- (1) 1" x 3/8" x 3' pipe wrap
- (1) 3" or 4" 90DEG PVC Elbow

(3" or 4" depending on your installation)

Condensate bypass parts list

- (2) 3" or 4" 45DEG PVC Wye
- (2) 3" or 4" 45DEG PVC Strt Elbow
- (2) 3" or 4" x 1-1/2" PVC Bushing
- (2) 1-1/2" x 1" PVC Flush Bushing
- (1) 1" x 5' PVC
- (1) 1" x 3/8" x 3' pipe wrap

(3" or 4" depending on your installation)

Failure to install a proper condensate collection system voids the product warranty.

MAINTENANCE

Inspect the product at least once every 12 months for excessive dust and dirt build up on the impeller (more often in dusty environments). Clean as necessary. The unit must be disconnected from power during inspection and/or cleaning.

“SYSTEM ON” INDICATOR

Install a “system on” indicator to confirm status. A pressure indicator, manometer, or vacuum alarm is recommended for this purpose. The Suncourt Air Pressure Indicator is included with models RDK04 and RDK04-3.

SLAB COVERAGE

The Suncourt Radon Fan provides coverage up to 2000 sq. ft. per slab penetration depending on type of sub slab material. If one slab penetration does not sufficiently mitigate the Radon then additional slab penetration points can be added as required.

Detailed Radon information is available on the EPA’s website at: <http://www.epa.gov/radon/>