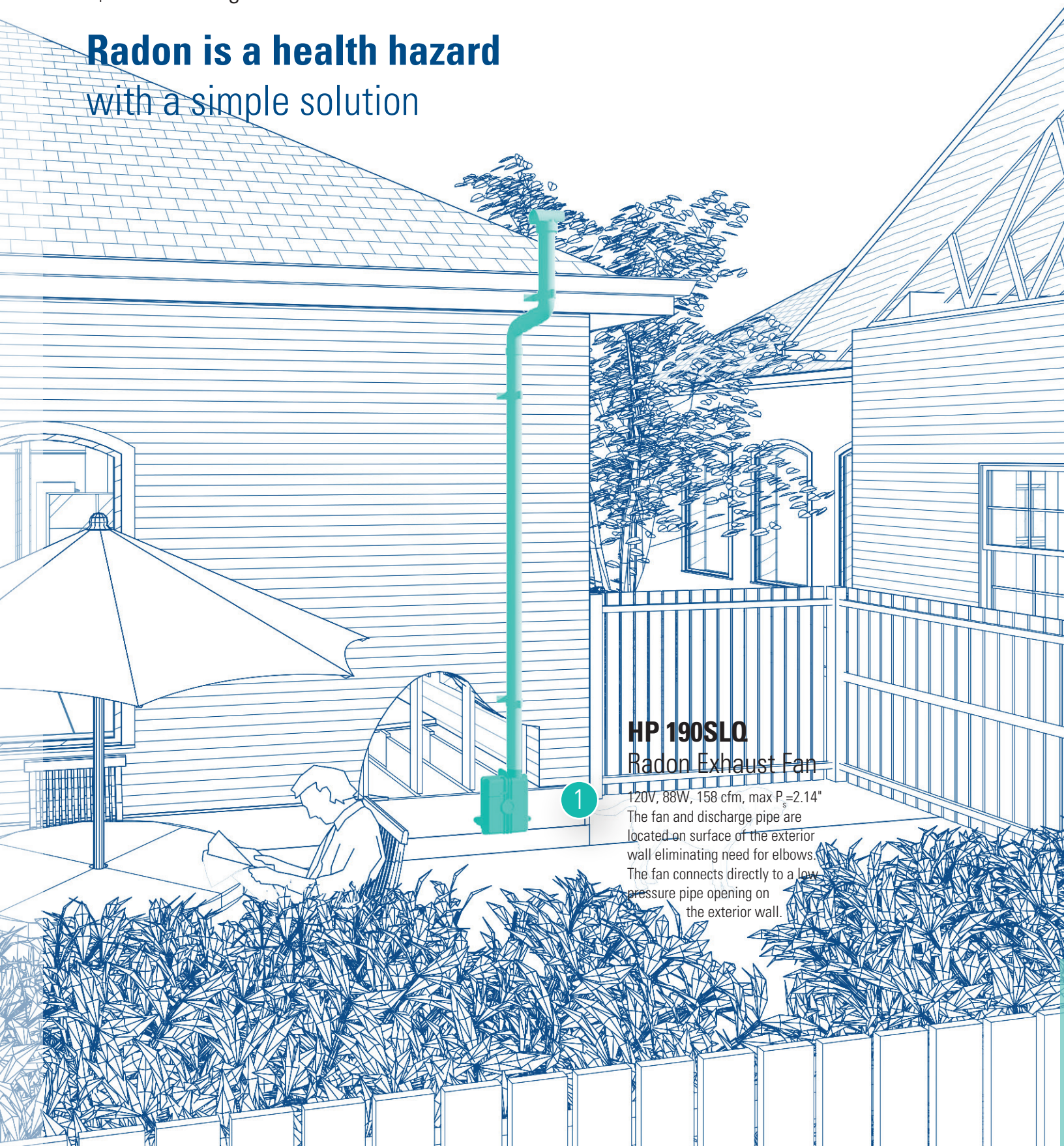
fantech®

Ventilation Solutions

Radon Mitigation

Radon is a health hazard
with a simple solution

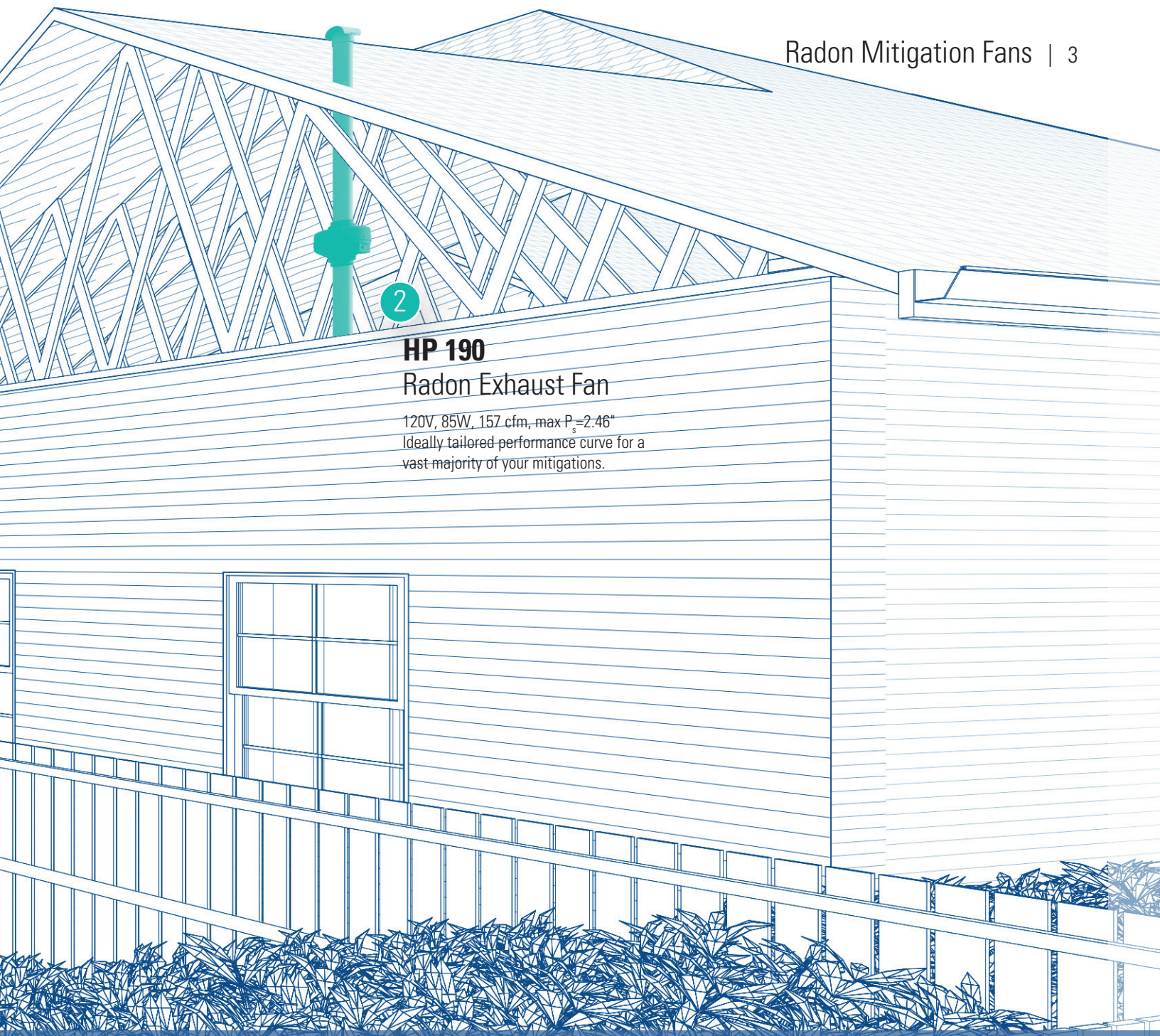


HP 190SLQ
Radon Exhaust Fan

120V, 88W, 158 cfm, max P_s=2.14"
The fan and discharge pipe are located on surface of the exterior wall eliminating need for elbows. The fan connects directly to a low pressure pipe opening on the exterior wall.

NOTE:

Installations that will result in condensate forming in the outlet ducting should have a condensate bypass installed to route the condensate outside of the fan housing. Conditions that are likely to produce condensate include but are not limited to: outdoor installations in cold climates, long lengths of outlet ducting, high moisture content in soil and thin wall or aluminum outlet ducting. Failure to install a proper condensate bypass may void any warranty claims.



2

HP 190

Radon Exhaust Fan

120V, 85W, 157 cfm, max P_s=2.46"
Ideally tailored performance curve for a vast majority of your mitigations.

Radon Exhaust in a Single Family Home

Radon comes from the natural (radioactive) breakdown of uranium in soil, rock and water and get's into the air you breathe. Radon is all over the US in every type of building, however you and your family are most likely to get your greatest exposure at home, where you spend most of your time.

Testing is the only way to know if you and your family are at risk. Testing is easy and inexpensive; most hardware stores carry Radon Test Kits. The EPA recommends that you mitigate your home if the radon level is above 4 Picocuries per liter (4pCi/L).

The good news is that reducing the levels is not hard but requires the technical knowledge of a qualified mitigator. Check with your state Radon office for names of qualified or state certified radon contractors in your area.

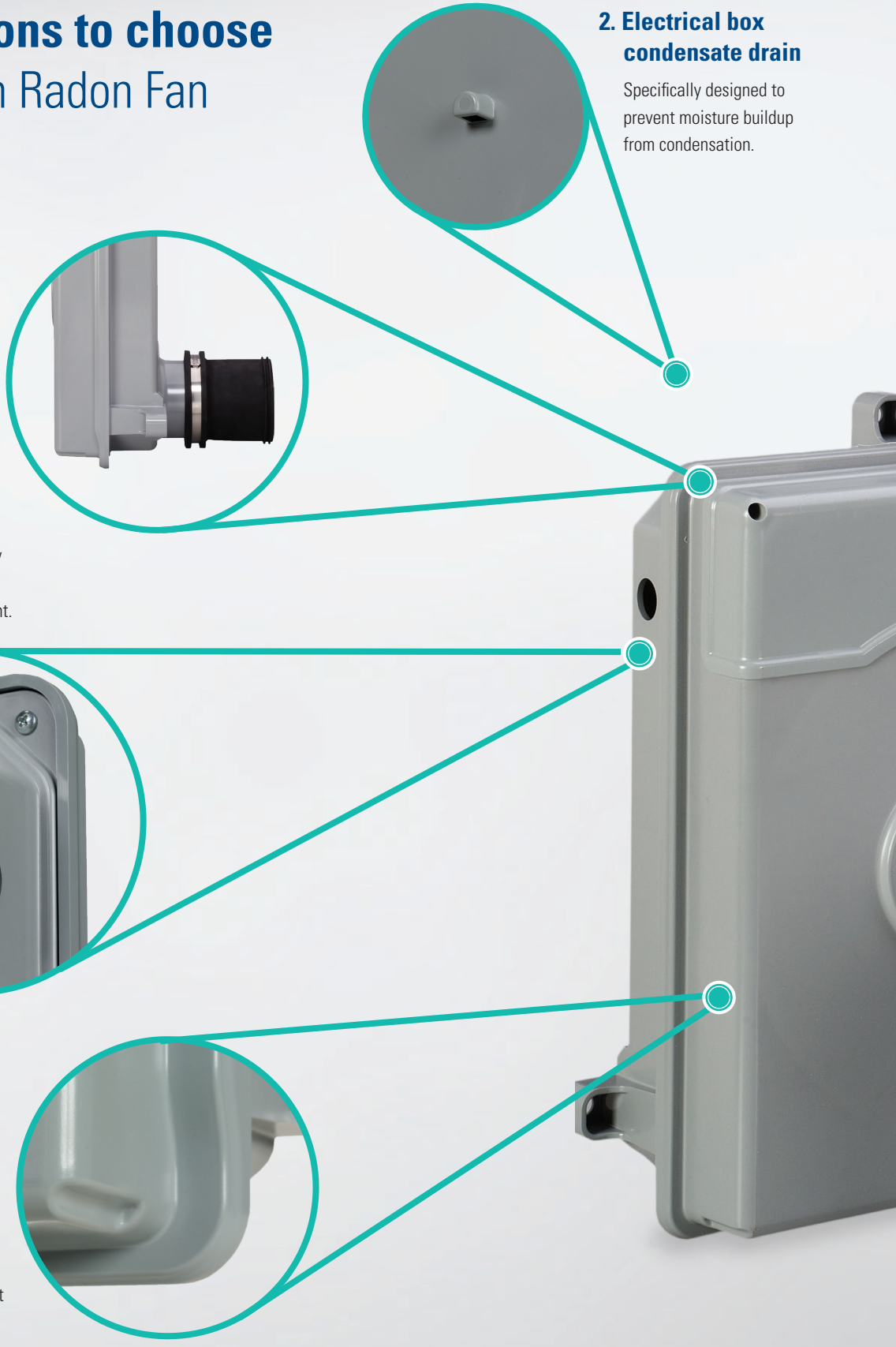
Top nine reasons to choose
HP 190SLQ Slim Radon Fan

1. Only 5 inches deep

Low profile design mounts close to the wall. Direct connection to the pipe in the wall reduces the amount of pipe fittings needed for installation.

2. Electrical box condensate drain

Specifically designed to prevent moisture buildup from condensation.



9. Conduit connection

Side conduit connection for easy installation and allows for an aesthetically pleasing placement.

8. Housing

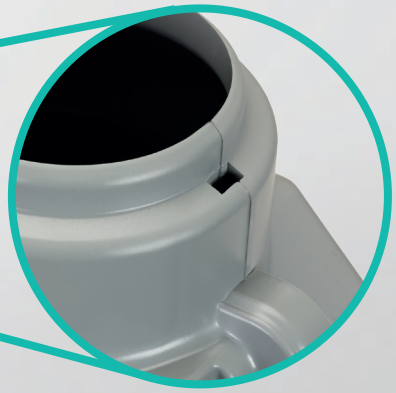
Manufactured from durable UV resistant polycarbonate - UL approved material for outdoor use. Factory sealed, no leak design. The unit's grey color closely matches the color of most utility and electrical boxes.

3. Ice breaker

To protect the fan wheel in case of condensate freezing and hitting wheel, the ice breaker breaks apart falling ice.

4. Flexible coupling and integrated condensate bypass

Included coupling isolates vibration from the system pipe. Condensate bypasses the motor and drains out from the bottom of the housing.



5. Terminal block

For easy wiring installation, the terminal block slides in (no screws). The rubber gasket around the terminal block compartment protects from moisture penetration.

6. External rotor-motor

External rotor-motor with backward curved impeller is in airstream thus giving the fan best in class performance, reliability and longevity.

7. Flexible sleeve coupling

Included sleeve connects the fan to the pipe in the wall and isolates the fan's natural vibration from the pipe and building structure.

HP 190SLQ NEW

Slimline Radon Fans

- Inconspicuous appearance
- Factory sealed, no leak design
- Integrated condensate bypass
- Vibration isolated exterior mounting design

Application

A radon fan doesn't have to look industrial to be effective! Model HP 190SLQ is engineered specifically for the demands of radon mitigation applications with aesthetics in mind. This exterior-mounted fan features a sleek, neutral-colored housing that is less contrasting to the appearance of many homes' exteriors.

Design

Model HP 190SLQ is designed to simplify the installer's work. The fan connects directly to the system pipe via included connectors. The fan's inlet connection is located on the back of the housing, so that it connects to the pipe where it comes through the wall. This eliminates the need for a pipe elbow, and conceals the wall penetration from view. The fan's discharge is located on top for connection directly to the vertical pipe riser.

Installation

The flexible connectors serve to isolate the fan's natural vibration from the system pipe and the home's structure. The fan is supported by its connections to the system pipe and does not make direct contact with the home. The fan's natural vibration is isolated from the home, so that no structure-borne noise is induced. Additional installation kit (FRIK SLQ, item #44965) includes the U-tube manometer and radon system labels only.

Certification

c UL us

What`s included with the fan?

- Slimline radon fan
- Flexible sleeve coupling and stainless steel hose clamp for fan inlet connection to 4" PVC pipe
- Flexible, gray coupling and (2) stainless steel hose clamps for fan discharge connection to 4" PVC pipe
- Wall bracket for support via hose clamp connection to vertical pipe riser

Specification data

Model	Rated power	Voltage / phase	Max. amps	0.5" P_s	0.75" P_s	1.0" P_s	1.25" P_s	1.5" P_s	1.75" P_s	2.0" P_s	Max P_s	Shipping weight	Shipping class	Item #
	W	V / ~	A	cfm							in.wg	lbs		
HP 190SLQ	88	120 / 1	0.78	133	117	103	90	62	44	13	2.14	12	1	44664

The performance shown for this product is representative of the actual test results recorded at Texas Engineering Experiment Station/Energy Systems Lab, a recognized testing authority for HVI. Testing was done in accordance with AMCA Standard 210-85 and HVI 916 Test Procedures. Fan is attached to PVC pipe using flexible coupling.

HP Series
Inline Radon Fans

HP 175 & HP 190

HP 2190 & HP 2133

HP 220

- UV resistant, UL Listed durable plastic
- UL Listed for use in commercial applications
- Automatic reset thermal overload protection
- Vibration welded seam* ensures leak proof housing

* except for the HP 175 model

Application
HP Series fans are specially designed with higher pressure capabilities for radon mitigation applications.

How it works
Active radon mitigation systems employ specialized fans to exhaust radon gas from underneath building structures via a sealed pipe system. Such systems are designed to remove radon gas before it migrates to a building's interior.

Models

HP 175

The economical choice where there is good sub slab communication and lower Radon levels.

HP 190 and HP 2190

Ideally tailored performance curve for a vast majority of your mitigations.

HP 220

Excellent choice for systems with elevated radon levels, poor communication, multiple suction points and large subslab footprint.

HP 2133

For applications where lower pressure and flow are needed. Record low power consumption of 14-20 W! Often used where there is good sub slab communication and lower Radon levels.

Installation Kits
Kits include a pair of flexible white couplings with stainless steel hose clamps, a U-tube manometer and radon system labels.

Model	Used with fan models	PVC pipe size	Weight, lbs	Shipping class	Item #
FRIK 190-3 / FRIK 190-4	HP 190	3"/ 4"	3 / 3	1 / 1	44960 / 44961
FRIK 2190-3 / FRIK 2190-4	HP 2133 & 2190	3"/ 4"	3 / 3	1 / 1	44962 / 44963
FRIK 220	HP 220	4"	4	1	44964

Certification

Specification data

Model	Duct size	Rated power	Voltage / phase	Max. amps	0.5" P_s	1.0" P_s	1.25" P_s	1.5" P_s	1.75" P_s	2.0" P_s	Max P_s	Shipping weight	Shipping class	Item #
	inch	W	V / ~	A							in.wg	lbs		
HP 175	4	65	120 / 1	0.57	112	70	40	12	-	-	1.66	7	1	45047
HP 190	4	85	120 / 1	0.78	123	89	67	45	18	1	2.01	7	1	411297
HP 220	6	152	120 / 1	1.30	260	193	166	137	102	58	2.46	8	1	411349
HP 2133	5	20	120 / 1	0.17	68	-	-	-	-	-	0.84	4	1	45044
HP 2190	5	85	120 / 1	0.78	126	81	58	35	15	-	1.93	7	1	45048

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