

NEW BRUNSWICK GARAGES

Insulation & Climate Control

Garage insulation, vapour barriers, heating options,
ventilation, and climate control for NB's cold
Maritime winters

19 Expert Answers from Garage IQ

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Is rigid foam board better than batt insulation for garage walls in NB cold?

Rigid foam board insulation is generally superior to batt insulation for garage walls in New Brunswick's cold Maritime climate, particularly for garages that will be heated or used as workshops. The continuous insulation and air sealing properties of rigid foam address the specific moisture and thermal challenges that NB garages face during our long heating season.

Why Rigid Foam Performs Better in NB Garages

Rigid foam board creates a continuous thermal barrier that eliminates the thermal bridging that occurs with batt insulation installed between studs. In NB's extreme temperature swings — from -25°C winter nights to $+25^{\circ}\text{C}$ summer days — this thermal bridging creates cold spots on interior wall surfaces where condensation forms. A 2x4 wall with R-12 batts has an effective R-value of only R-8 to R-9 due to thermal bridging through the wood framing, while the same wall with 2 inches of rigid foam on the exterior maintains its full R-10 to R-13 rating.

The air sealing properties of rigid foam are equally important in NB's windy Maritime climate. Properly sealed rigid foam boards eliminate air infiltration that reduces the effectiveness of any insulation system. When a cold vehicle covered in snow and road salt enters a heated garage, the rapid moisture release can overwhelm a wall system with air leaks, leading to condensation within the wall cavity. Rigid foam's vapour barrier properties help manage this moisture by preventing it from entering the wall assembly.

Installation Methods and Performance

Exterior rigid foam is the premium approach — installing 2-3 inches of polyiso or XPS foam board on the outside of the wall sheathing, then strapping and siding over it. This method keeps the entire wall assembly warm, eliminates thermal bridging completely, and allows the use of standard batt insulation between the studs for additional R-value. Total wall performance can reach R-20 to R-25, ideal for heated garages or workshops. However, this approach requires careful attention to window and door extensions and proper flashing details.

Interior rigid foam is more common for garage renovations — installing 1-2 inches of rigid foam against the interior wall surface, then framing over it or attaching drywall directly. This approach is less effective than exterior foam because thermal bridging still occurs through the studs, but it's much easier to retrofit and still provides significant improvement over batts alone. The foam must be covered with drywall for fire safety — exposed foam board is not permitted in garages.

Cost and Practical Considerations

Rigid foam costs approximately \$1.50-\$3.00 per square foot for materials, compared to \$0.75-\$1.50 for batt insulation, but the labour for proper installation can be similar or higher depending on the method. For a typical

24x24 garage, upgrading from R-12 batts to a rigid foam system adds \$1,500-\$3,000 to the insulation cost but can reduce heating costs by 30-40% and eliminate condensation problems that damage tools and stored items.

When Batt Insulation Still Makes Sense

For unheated garages used purely for vehicle storage, standard R-12 to R-20 batt insulation between studs provides adequate thermal protection to prevent freeze-thaw damage to stored liquids and reduces condensation on cold surfaces. The key is proper installation with a continuous vapour barrier (6-mil poly) on the warm side and careful sealing around electrical boxes and penetrations. Many NB homeowners choose this approach for detached garages, then upgrade to rigid foam if they later decide to heat the space.

Professional Installation Recommended

While batt insulation is a reasonable DIY project, rigid foam installation — particularly exterior foam — requires experience with flashing details, vapour barrier continuity, and proper attachment methods. Incorrectly installed rigid foam can trap moisture and cause more problems than no insulation at all. For heated garages or workshops where condensation control is critical, hire a professional familiar with NB's climate challenges.

Need help finding an insulation contractor experienced with garage applications? New Brunswick Garages can match you with professionals who understand the specific requirements of NB's Maritime climate.

Q2

What is the payback period for spray foam insulation in a NB heated garage?

Spray foam insulation in a heated New Brunswick garage typically pays for itself in 8-12 years through energy savings, but the real value comes from improved comfort, moisture control, and workshop usability during our long heating season.

The payback calculation depends heavily on your garage's size, heating method, and usage patterns. For a typical 24x24 two-car garage in New Brunswick, spray foam insulation costs approximately \$3,500-\$7,000 for walls and ceiling (2-3 inches of closed-cell foam achieving R-12 to R-18). This compares to \$1,500-\$3,000 for traditional batt insulation, so you're paying a \$2,000-\$4,000 premium for spray foam's superior performance.

Energy savings from spray foam versus batt insulation come from its air-sealing properties and higher R-value per inch. In New Brunswick's climate, with 4,800-5,200 heating degree days annually, a well-sealed spray foam garage uses 25-40% less energy than the same garage insulated with batts. If you're spending \$800-\$1,500 per year heating your garage (typical for a 24x24 space maintained at 10-15°C), spray foam saves \$200-\$600 annually

in heating costs. At these savings rates, the spray foam premium pays back in 4-12 years depending on energy prices and usage.

However, the financial payback is only part of the story. **Spray foam's moisture control benefits are particularly valuable in New Brunswick's Maritime climate.** Traditional batt insulation allows air movement that carries moisture into wall cavities, leading to condensation, mould, and deterioration of stored items. Spray foam creates a complete air and vapour barrier, eliminating these moisture problems. This prevents rust on tools, mould on stored materials, and the musty smell common in traditionally-insulated garages where vehicles drip snow and road salt.

The comfort improvement is immediate and significant. Spray foam eliminates cold spots and drafts that make traditionally-insulated garages uncomfortable even when heated. Surface temperatures stay more consistent, reducing radiant heat loss from your body. This makes the garage genuinely usable as workshop space throughout New Brunswick's six-month heating season, rather than just barely tolerable.

Workshop productivity gains can justify spray foam costs for serious DIYers and tradespeople. Consistent temperatures prevent glue from failing, paint from flowing poorly, and metal from being too cold to weld safely. Power tools perform better, and you're more likely to actually use the space for projects when it's comfortable.

Consider spray foam if you plan to heat your garage above 5°C regularly, use it as workshop space, store temperature-sensitive items, or live in northern NB where heating costs are highest. **Stick with batt insulation if** you only occasionally heat the garage for specific projects, primarily use it for vehicle storage, or are building on a tight budget.

The best approach is often a hybrid: spray foam the ceiling (where air leakage is worst) and use quality batt insulation with careful air sealing for walls. This captures most of spray foam's benefits at 60-70% of the cost.

Need help finding insulation contractors who understand New Brunswick garage requirements? New Brunswick Garages can match you with experienced professionals who specialize in Maritime climate construction.

Q3

How do I air seal a garage to prevent drafts without creating moisture problems in NB?

Air sealing a garage in New Brunswick requires a balanced approach that stops drafts while maintaining enough ventilation to prevent moisture buildup from vehicles, temperature changes, and Maritime humidity.

The key to successful garage air sealing in NB is understanding that you're not creating a completely airtight space like a house — you're reducing unwanted air infiltration while preserving intentional ventilation. This is especially critical in our Maritime climate where bringing a snow-covered vehicle into a warmer garage creates significant moisture release that must be managed.

Start with the major air leakage points that cause the most comfort and energy loss. The garage door itself is typically the largest source of air infiltration. Install new bottom weatherstripping if the existing seal is cracked or compressed — this rubber or vinyl seal should compress against the floor when the door is closed but not bind during operation. Side and top weatherstripping around the door frame prevents air infiltration around the perimeter. For overhead doors, check that all sections seal properly against each other — worn hinges or bent door sections create gaps that let in cold air and moisture.

The service door (man door) between the garage and exterior needs proper weatherstripping around the entire frame, plus a door sweep at the bottom. If this door leads to the house, it requires more attention since it affects your home's overall air tightness. Any windows in the garage should be caulked around the frame and have functional weatherstripping if they're operable.

Address structural air leaks that are often overlooked but significant in NB's temperature extremes. Seal the gap between the bottom plate (sill plate) and the concrete foundation with acoustical sealant or expanding foam — this connection is rarely perfect and allows ground-level cold air infiltration. Caulk around any electrical outlets, light fixtures, or other penetrations through the exterior walls. If your garage has a ceiling (rather than open rafters), seal around any ceiling penetrations like lights or garage door opener wiring.

For attached garages, air sealing the fire separation wall serves dual purposes — it's required by code for fire safety and dramatically improves comfort in adjacent living spaces. All electrical boxes, plumbing penetrations, and HVAC ducts that pass through this wall must be sealed with appropriate fire-rated materials. The gap at the top and bottom of the drywall should be sealed with acoustical sealant before installing trim.

The critical balance is maintaining adequate ventilation while reducing unwanted air leakage. Even a well-sealed garage needs air exchange to prevent moisture problems, especially if you park vehicles inside during winter. When a vehicle covered in snow and road salt enters a garage that's 10-20 degrees warmer than outside, the rapid temperature change releases significant moisture. Without ventilation, this moisture condenses on tools, stored items, and the walls themselves.

Install intentional ventilation rather than relying on random air leaks. A simple solution is a through-wall exhaust fan on a timer or humidity sensor — run it for 15-30 minutes after parking a wet vehicle to remove moisture-laden air. Passive ventilation can work too: install soffit vents near the floor on one wall and ridge or gable vents high on the opposite wall to create natural air circulation. The key is controlling where air enters and exits rather than having

random leakage throughout the structure.

For heated garages, the ventilation requirement increases because the temperature differential creates more condensation potential. A heated garage should have at least 0.5 air changes per hour, either through mechanical ventilation or a combination of controlled passive vents. Never seal a heated garage completely tight — the moisture problems will be severe and expensive to remediate.

Avoid common air sealing mistakes that create problems in NB's climate. Don't seal the garage so tightly that vehicle exhaust has nowhere to go — carbon monoxide buildup is dangerous and potentially fatal. Don't ignore the need for combustion air if you have a gas-fired heater or hot water tank in the garage. Don't use expanding foam around the garage door tracks or springs — this can interfere with door operation and create binding.

When to hire a professional: Basic weatherstripping and caulking are good DIY projects, but if your garage has complex air leakage issues, moisture problems, or you're planning to add heating, consult with an insulation contractor or energy auditor who understands Maritime climate conditions. They can perform a blower door test to identify major leakage points and recommend the right balance of air sealing and ventilation for your specific situation.

The goal is a garage that's comfortable to work in, protects your vehicles and stored items, but doesn't trap moisture that leads to rust, mould, and deterioration in NB's humid climate.

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Should I use closed-cell or open-cell spray foam in my garage ceiling in Moncton NB?

For a garage ceiling in Moncton, closed-cell spray foam is the better choice if you're planning to heat the garage or have living space above it. Open-cell foam can trap moisture in New Brunswick's humid Maritime climate, leading to condensation problems and reduced insulation performance over time.

Closed-cell spray foam provides superior moisture control for garage applications in NB. At 2 inches thick, it delivers approximately R-14 insulation value while also acting as a vapour barrier — this dual function is particularly valuable in garage ceilings where temperature differentials between heated garage air and cold attic space create prime conditions for condensation. The closed-cell structure prevents moisture migration through the insulation, protecting the roof structure above from humidity generated by vehicles, snow melt, and temperature swings.

Open-cell spray foam absorbs moisture like a sponge, which makes it problematic in garage applications. When warm, humid air from the garage (especially when snow-covered vehicles are brought inside) contacts the cooler upper portion of open-cell foam, condensation can occur within the insulation itself. This trapped moisture reduces the foam's R-value, can lead to mould growth, and may cause the foam to sag or deteriorate over time. In Moncton's Maritime climate with high year-round humidity, this moisture risk is significant.

The **cost difference** is substantial — closed-cell typically runs \$5-\$7 per square foot installed in the Moncton area, while open-cell costs \$2.50-\$4.50 per square foot. However, for garage ceiling applications, the moisture protection and higher R-value per inch of closed-cell foam justify the premium. A typical two-car garage ceiling (500-600 square feet) will cost \$2,500-\$4,200 for closed-cell versus \$1,250-\$2,700 for open-cell.

Application considerations for your Moncton garage: If you're heating the garage for workshop use or vehicle protection, 2-3 inches of closed-cell foam provides excellent thermal performance and eliminates the need for a separate vapour barrier. If there's a bonus room or living space above the garage, closed-cell foam also provides superior sound dampening compared to open-cell. The air-sealing properties of closed-cell foam reduce drafts and improve the effectiveness of your garage heating system.

When open-cell might work: Only consider open-cell foam if the garage will remain unheated, you're in a very dry climate (not applicable in Maritime NB), and cost is the primary concern. Even then, you'd need a separate vapour barrier on the warm side of the insulation.

Professional installation is essential for either foam type. Spray foam application requires proper surface preparation, correct mixing ratios, appropriate thickness, and safety equipment for handling isocyanate chemicals. Licensed spray foam contractors in the Moncton area typically guarantee their work for 10-20 years when properly

applied.

For your Moncton garage ceiling, invest in closed-cell spray foam — the moisture protection alone is worth the extra cost in New Brunswick's humid climate, and you'll get better long-term performance from your insulation investment.

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Q5

What R-value insulation do I need in garage walls for a heated garage in Fredericton NB?

For a heated garage in Fredericton, you should insulate the walls to a minimum of R-20, with R-24 being the recommended target for comfortable year-round use as a workshop or hobby space. Fredericton experiences roughly **4,800 to 5,000 heating degree days** per year with winter temperatures regularly reaching **-25 to -30 degrees Celsius**, so under-insulating a heated garage means high energy bills, uncomfortable working conditions, and wasted money on heating fuel.

The most common and cost-effective approach for garage wall insulation in NB is **fibreglass batt insulation in 2x6 framing**. A 2x6 wall gives you a full 5.5 inches of cavity depth, which accommodates R-20 batts perfectly and can accept R-22 high-density batts for a modest cost increase. If your garage is framed with 2x4 walls (3.5-inch cavity), you are limited to R-12 or R-14 batts, which is inadequate for a heated garage in Fredericton's climate. In that case, you can add rigid foam board insulation to the interior or exterior of the wall to boost the total R-value — a 1.5-inch layer of **extruded polystyrene (XPS) rigid foam (R-7.5)** over the 2x4 wall brings the assembly to approximately R-20.

For a heated garage, the **vapour barrier** is just as important as the insulation itself. Install a **6-mil polyethylene vapour barrier** on the warm (interior) side of the insulation, overlapping seams by at least 6 inches and sealing all

penetrations, joints, and edges with acoustic sealant or red tuck tape. In Fredericton's cold climate, warm moist air from inside the heated garage will try to migrate through the wall toward the cold exterior. Without a proper vapour barrier, that moisture condenses inside the wall cavity, soaking the insulation (which destroys its R-value) and eventually rotting the framing. This is one of the most common failures in heated NB garages — the insulation was installed but the vapour barrier was skipped or poorly sealed.

Ceiling insulation is equally critical and often more important than the walls because heat rises. For a heated garage with an unfinished attic above, insulate to **R-32 minimum, and preferably R-40 to R-50**. Blown-in cellulose or fibreglass over the ceiling joists is the most economical method for this, costing **\$2 to \$4 per square foot installed** in the Fredericton area. If your garage has a finished bonus room or loft above, the ceiling insulation requirements change — you will need to insulate the knee walls and roof slope of the room above rather than the garage ceiling.

Do not forget the **garage door itself** in your insulation plan. An uninsulated garage door is the single largest thermal hole in the building. For a heated garage in Fredericton, you need an insulated door with an **R-value of at least R-12, and preferably R-16 or higher**. Replacing a non-insulated door with an insulated one typically costs **\$1,200 to \$3,500 installed** depending on size, but the energy savings and comfort improvement are dramatic. If replacement is not in the budget, a DIY insulation kit with polystyrene panels (\$50 to \$150) provides some improvement, though it will not match a factory-insulated door's performance.

The garage slab is another area of heat loss that is often overlooked. If the slab is already poured, you can install **rigid foam insulation vertically along the interior perimeter** of the foundation wall (from the top of the slab down to the footing level), covered with a durable finish material to protect it from impact. This reduces heat loss through the slab edge, which is the primary path for thermal energy to escape from a slab-on-grade garage.

For materials and installed costs in the Fredericton area, expect to pay **\$1.50 to \$3.00 per square foot for fibreglass batt insulation in walls** (installed, including vapour barrier) and **\$3.50 to \$7.00 per square foot for closed-cell spray foam**, which provides air sealing and vapour barrier in one application. A complete insulation package for a 24x24 two-car garage — walls, ceiling, and vapour barrier — typically runs **\$2,500 to \$5,000 installed with batts**, or **\$5,000 to \$10,000 with spray foam**.

This is a project where professional installation is worth the investment, particularly for the vapour barrier detailing and ceiling insulation. Poorly installed vapour barriers cause more problems than no vapour barrier at all in some cases. Get matched with insulation contractors through New Brunswick Garages for free estimates on your project.

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Q6

What is the best way to heat a detached garage in Moncton New Brunswick?

The best heating option for a detached garage in Moncton depends on how you use the space, but for most homeowners a natural gas or propane unit heater is the most practical and cost-effective choice, providing fast heat-up, reliable performance in Moncton's cold winters, and reasonable operating costs. If your garage is well-insulated and you want year-round climate control, a **mini-split heat pump** is increasingly popular and offers both heating and cooling with excellent energy efficiency.

Moncton's climate is a key factor in this decision. With roughly **4,800 heating degree days** per year, winter temperatures regularly reaching **-20 to -25 degrees Celsius**, and the heating season stretching from October through April, you need a system that can handle sustained cold without excessive fuel costs. The Greater Moncton area has good access to natural gas through Enbridge, which gives homeowners in Moncton, Dieppe, and Riverview a cost advantage over communities that rely solely on propane, oil, or electricity.

Natural gas or propane unit heaters are the most popular choice for detached garages in the Moncton area. These are ceiling-mounted or wall-mounted forced-air units that heat the garage quickly and run on relatively inexpensive fuel. A **30,000 to 75,000 BTU unit heater** handles most two-car garages, with the exact size depending on insulation levels, ceiling height, and your target temperature. Installation costs run **\$1,500 to \$3,500** including the heater, gas line, venting, and labour. Operating costs for a natural gas unit in Moncton are roughly **\$80 to \$200 per month** during peak winter if you maintain the garage at workshop temperatures (10 to 15 degrees Celsius). These units are simple, reliable, and provide heat within minutes of firing up — ideal for garages that are used intermittently rather than heated continuously.

One critical requirement: **gas-fired heaters in garages must be installed with the burner at least 8 feet above the floor** (or otherwise protected from flammable vapours) per code requirements, since gasoline vapours are heavier than air and collect at floor level. They also require proper venting to the exterior — never use an unvented gas heater in a garage. All gas appliance installation in NB must be done by a licensed gas fitter.

Mini-split heat pumps are an increasingly attractive option for Moncton garages, especially for homeowners who want efficient year-round climate control. Modern cold-climate mini-splits (Mitsubishi Hyper-Heat, Fujitsu XLTH, and similar models) operate effectively down to **-25 to -30 degrees Celsius**, which covers Moncton's winter extremes. A single-zone mini-split sized for a two-car garage (18,000 to 24,000 BTU) costs **\$3,500 to \$6,000 installed**. The operating cost advantage is significant — heat pumps deliver 2 to 3 times more heat energy per dollar than electric resistance heaters and are competitive with natural gas on a cost-per-BTU basis. They also provide cooling and dehumidification in summer, which is a bonus for workshop use. The drawback is slower heat-up time compared to a gas unit heater, and the upfront cost is higher.

Electric heaters are the simplest option but the most expensive to operate in NB. A **240V electric garage heater** (4,000 to 7,500 watts) costs **\$300 to \$800 installed** but runs on NB Power electricity rates that make sustained heating expensive. Electric heaters work well for garages that are heated only during occasional use — a few hours at a time for weekend projects — but are not economical for maintaining continuous heat through a Moncton winter.

In-floor radiant heating (hydronic tubes in the concrete slab) is the premium option, providing the most comfortable and even heat with no cold spots and no drafts. However, it must be planned and installed **before the slab is poured** — it cannot be added retroactively. Costs run **\$8 to \$14 per square foot** for the in-slab system, plus the cost of a boiler or heat source. Total installed cost for a two-car garage is **\$8,000 to \$15,000**. This makes sense for homeowners building a new garage who plan to use it as a serious workshop or hobby space.

Regardless of which heating system you choose, **insulation is the prerequisite that makes any of them affordable to operate**. Heating an uninsulated garage in Moncton is like pouring money out the door — literally. Insulate walls to R-20 minimum, the ceiling to R-32 or higher, and install an insulated garage door before investing in a heating system. Browse garage contractors through the New Brunswick Construction Network at newbrunswickconstructionnetwork.com to find heating and insulation professionals in the Moncton area.

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How much does it cost to insulate a 2-car garage in Dieppe New Brunswick?

Insulating a standard two-car garage (24x24 feet, approximately 576 square feet of floor space) in Dieppe costs between \$2,500 and \$5,000 for fibreglass batt insulation with a vapour barrier, or \$5,000 to \$10,000 for closed-cell spray foam insulation, depending on wall height, ceiling configuration, and whether you include the garage door in the scope.

Let me break down what those numbers include for a typical Dieppe garage. The walls of a 24x24 garage with 9-foot ceilings have roughly **700 to 800 square feet of insulation area** after subtracting the overhead door opening, service door, and any windows. The ceiling adds another **576 square feet**. Combined, you are looking at approximately **1,200 to 1,400 square feet of surface area** to insulate.

Fibreglass batt insulation is the most common and affordable option. For a heated garage in Dieppe, you want **R-20 batts in 2x6 walls** (\$1.50 to \$3.00 per square foot installed) and **R-32 to R-50 in the ceiling** (\$2.00 to \$4.00 per square foot installed, depending on method). The walls on a two-car garage typically run **\$1,000 to \$2,400**, and the ceiling runs **\$1,100 to \$2,300**. Add the **6-mil polyethylene vapour barrier** on the warm side of the insulation (essential in Dieppe's climate) at **\$0.50 to \$1.00 per square foot installed**, and the total for a professionally insulated two-car garage with batts lands at **\$2,500 to \$5,000**. If you plan to finish the interior with drywall, that adds another **\$2,000 to \$4,000** for the garage walls and ceiling.

Closed-cell spray foam insulation is the premium option and particularly well-suited to Dieppe's Maritime climate. At **\$3.50 to \$7.00 per square foot for a 2-inch application** (roughly R-12 to R-14 per inch), spray foam provides the insulation, air barrier, and vapour barrier all in one application. For a two-car garage, the walls cost **\$2,500 to \$5,500** and the ceiling adds **\$2,000 to \$4,000**, bringing the total to **\$5,000 to \$10,000**. The higher cost buys you superior air sealing — spray foam fills every crack, gap, and imperfection in the framing, which is especially valuable in older garages where the framing may not be perfectly straight or evenly spaced. In Dieppe's humid Maritime climate, the air sealing properties of spray foam significantly reduce condensation problems inside the wall cavity.

What About DIY to Save Money?

Fibreglass batt insulation is one of the more accessible DIY projects. The materials for a two-car garage — batts, vapour barrier, tape, acoustic sealant, and staples — run roughly **\$1,000 to \$2,000**, saving you \$1,500 to \$3,000 in labour compared to professional installation. The work is straightforward but uncomfortable — wear long sleeves, gloves, goggles, and a dust mask. The critical detail that most DIY installers get wrong is the **vapour barrier**. It must be continuous and sealed at every seam, penetration, and edge. Every gap, tear, or unsealed joint allows warm moist air to enter the wall cavity where it condenses and causes problems. If you DIY the batts, take extra

time and care with the vapour barrier — this is where the job succeeds or fails in NB's climate. Spray foam is not a DIY project; it requires specialized equipment, training, and PPE, and is always professionally installed.

Dieppe sits in the Greater Moncton area with roughly **4,800 heating degree days** per year and winter temperatures regularly dropping below **-20 degrees Celsius**. An insulated two-car garage with a proper vapour barrier and an insulated garage door (R-12 to R-16) can maintain above-freezing temperatures even without heat on most winter days, simply by retaining some warmth from vehicles parked inside. Add a modest heating system and you have a comfortable year-round workshop.

Do not overlook the **garage door** in your insulation plan. An uninsulated garage door on a 16-foot opening is the single largest thermal weak point — even perfectly insulated walls and ceiling cannot compensate for a thin steel door with no insulation value. An insulated replacement door (R-16) costs **\$1,800 to \$3,500 installed**, or a DIY insulation kit for the existing door runs **\$50 to \$150**.

For finding insulation contractors in the Dieppe and Greater Moncton area, New Brunswick Garages can match you with professionals for free estimates. Browse local contractors through the New Brunswick Construction Network directory at newbrunswickconstructionnetwork.com.

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Q8

Is spray foam insulation worth the cost for a garage in Miramichi NB?

Spray foam insulation is worth the cost for a Miramichi garage if you plan to heat the space and use it regularly as a workshop, hobby space, or for protecting temperature-sensitive items — but if the garage is unheated and used purely for vehicle storage, the premium cost over fibreglass batts is difficult to justify. The decision comes down to how you use the garage and how long you plan to stay in the home.

Miramichi's climate makes the case for spray foam stronger than it would be in a milder region. Located in north-central New Brunswick along the Miramichi River, the area experiences **5,000 or more heating degree days** per year, winter temperatures that regularly hit **-25 to -30 degrees Celsius**, and the temperature swings and moisture challenges that come with a river valley location. These conditions are precisely where spray foam's advantages over fibreglass batts are most pronounced.

The primary advantage of **closed-cell spray foam** is that it delivers insulation, air sealing, and a vapour barrier in a single application. In a garage — where the framing is often exposed, the construction may not be as tight as the main house, and there are numerous gaps around door frames, sill plates, and corners — the air sealing is arguably more valuable than the insulation itself. Studies consistently show that **air leakage accounts for 25 to 40 percent of heating energy loss** in a typical building, and a garage with its large overhead door opening, service door, and often less-than-perfect framing is particularly leaky. Spray foam seals every crack, gap, and imperfection in the building envelope, dramatically reducing the amount of heated air that escapes. Fibreglass batts, by contrast, only resist heat transfer through the insulation itself — they do nothing to stop air movement around, through, and behind them.

The second major advantage in Miramichi is **moisture management**. Closed-cell spray foam at 2 inches or more acts as a vapour barrier, meaning you do not need to install a separate polyethylene sheet. In Miramichi's climate, with its river valley humidity and dramatic temperature differentials between heated garage interiors and frigid exterior surfaces, condensation inside wall cavities is a serious concern. Spray foam eliminates this risk by preventing moisture-laden air from reaching the cold sheathing. With fibreglass batts, you must install a perfect vapour barrier — and in practice, achieving a truly continuous vapour barrier in a garage with its numerous penetrations and rough framing is difficult. Imperfect vapour barriers over fibreglass batts can actually trap moisture and make problems worse.

The cost difference is significant. For a typical two-car garage in Miramichi (24x24 feet), closed-cell spray foam for walls and ceiling runs **\$5,000 to \$10,000 installed**, compared to **\$2,500 to \$5,000 for fibreglass batts with vapour barrier**. That is a premium of \$2,500 to \$5,000. Whether that premium pays for itself depends on your heating costs and usage. If you heat the garage 6 months per year and spend \$150 to \$250 per month on heat, the improved air sealing from spray foam can reduce those costs by **20 to 35 percent**, saving \$200 to \$500 per heating season. At that rate, the spray foam premium pays for itself in **5 to 12 years** — reasonable for a homeowner who plans to stay long-term.

There are scenarios where spray foam is clearly the right choice in Miramichi: if the garage has **irregular framing** (post-and-beam, pole barn, or older construction with non-standard stud spacing), spray foam conforms to any shape while batts would need to be cut and pieced together with inevitable gaps. If the garage has **stone, block, or poured concrete walls**, spray foam applied directly to the interior surface is the most effective insulation method. If

you are building a **garage with a bonus room or living space above**, spray foam in the roof slope and walls provides the tight building envelope that conditioned living space demands.

Scenarios where batts are the better value: if the garage is **new construction with clean 2x6 framing** at standard 16-inch spacing, batts install quickly and perform well when combined with a carefully installed vapour barrier. If the garage will be **unheated or only heated occasionally** with a portable heater, the energy savings from spray foam's superior air sealing are too small to offset the cost premium. If you are on a tight budget and need to insulate now, **well-installed R-20 batts with a proper vapour barrier** provide solid performance at half the cost.

One important note: spray foam installation is strictly a professional job requiring specialized equipment, PPE, and training. Always hire an installer experienced with garage applications, and ensure they apply the correct thickness — a minimum of **2 inches of closed-cell foam** for the vapour barrier properties to be effective. Find insulation contractors in the Miramichi area through the New Brunswick Construction Network directory at newbrunswickconstructionnetwork.com.

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Q9

What is the best garage ceiling insulation R-value for New Brunswick winters?

For a heated garage in New Brunswick, the best ceiling insulation R-value is R-40 to R-50, with R-32 as the absolute minimum. If your garage has a bonus room or living space above, the NB Building Code requires even higher thermal performance in the floor assembly separating the two spaces. For an unheated garage, ceiling insulation is generally unnecessary unless you are trying to prevent heat loss from a heated room above the garage.

The reason NB garages demand such high ceiling R-values comes down to basic physics and our Maritime climate. Heat rises, and in a heated garage, the ceiling is the single largest source of heat loss. New Brunswick

communities accumulate **4,800 to 5,200 heating degree days** per year, with winter temperatures regularly dropping to **-20 to -30 degrees Celsius**. A garage ceiling insulated to only R-20 or R-24 will bleed heat relentlessly through the coldest months, driving up your heating costs and making the space uncomfortable despite running your heater constantly. The difference in annual heating cost between an R-24 ceiling and an R-50 ceiling in a two-car NB garage can be \$400-\$800 per year depending on your heat source.

Fibreglass batt insulation is the most common and affordable option for garage ceilings, typically installed between 2x10 or 2x12 ceiling joists or between bottom chord trusses. An R-40 batt is approximately 12 inches thick, and R-50 requires about 15 inches of depth, so your framing must accommodate the thickness. If your trusses or joists only allow 10 inches of depth, you can combine methods — for example, R-32 batts between the framing members plus a layer of rigid foam board beneath, bringing the total assembly to R-40 or higher. **Blown-in cellulose or fibreglass** is another excellent option for garage ceilings, particularly when the ceiling is already drywalled and you want to add insulation from above through the attic space. Blown-in insulation fills irregular cavities and eliminates the gaps that batts sometimes leave around wiring and framing members.

Vapour Barrier and Moisture Control

In NB's climate, a **6-mil polyethylene vapour barrier must be installed on the warm side of the insulation** — meaning the garage-interior side of the ceiling assembly. Without this vapour barrier, warm, moist air from inside the heated garage migrates into the insulation, condenses when it hits cold surfaces, and saturates the insulation. Wet insulation loses its R-value dramatically and creates conditions for mould growth and wood rot in the ceiling framing. This is especially critical in garages where vehicles bring in snow and road salt, releasing significant moisture as they warm up.

Spray foam insulation (closed-cell, 2 inches minimum) is a premium alternative that provides both insulation and an air/vapour barrier in one application. At roughly R-6.5 per inch, 3 inches of closed-cell spray foam delivers approximately R-20, which can be supplemented with batts to reach your target R-value. The cost for spray foam in NB runs **\$3.50 to \$7.00 per square foot** installed, compared to **\$2.00 to \$5.00 per square foot** for batt insulation at R-40 to R-50. For a typical 24x24 two-car garage ceiling (576 square feet), expect to pay **\$1,200 to \$2,900 for batts** or **\$2,000 to \$4,000 for spray foam**, not including drywall.

One practical tip that many NB homeowners overlook: if you are insulating your garage ceiling, **insulate the walls to at least R-20 as well**. An R-50 ceiling with uninsulated walls is like wearing a warm hat with no coat — you will still lose most of your heat through the walls and garage door. A properly insulated garage is a system, and every component matters. If you are planning to heat your garage as a workshop or to protect vehicles, investing in the right ceiling R-value now saves significant money over the life of the building. A qualified insulation contractor can assess your specific garage framing and recommend the most cost-effective approach to reach R-40 or higher. Browse garage and general contractors in the New Brunswick Construction Network directory at

newbrunswickconstructionnetwork.com to find professionals who understand NB's climate requirements.

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Can a wood stove safely heat a garage workshop in Riverview NB?

Yes, a wood stove can safely heat a garage workshop in Riverview, but it requires strict compliance with fire safety codes, proper installation by a WETT-certified technician, and several important precautions specific to garage environments. A wood stove is one of the most popular heating options for detached garage workshops across New Brunswick, particularly in communities like Riverview where many homeowners have access to affordable firewood from local suppliers or their own woodlots.

The most critical requirement is that the wood stove installation must meet **CSA B365 (Installation Code for Solid-Fuel-Burning Appliances and Equipment)** and must be inspected by a **WETT-certified professional** (Wood Energy Technology Transfer). In NB, your home insurance provider will almost certainly require proof of a WETT inspection before covering a wood stove installation in any structure, including a detached garage. Installing a wood stove without proper clearances, hearth protection, and chimney specifications can void your insurance entirely — and in a garage filled with flammable materials, the consequences of a fire are severe.

Clearance requirements are the biggest challenge in a garage setting. A typical wood stove requires **36 inches of clearance from combustible walls** on all sides unless a heat shield is installed, which can reduce clearances to 12-18 inches depending on the shield type and manufacturer specifications. In a single-car garage, these clearances can consume a significant portion of your floor space. A two-car garage workshop is much more practical for a wood stove installation because you have the room to maintain safe clearances while still having usable workspace. The stove must sit on a **non-combustible hearth pad** that extends at least 18 inches in front of the loading door and 8 inches beyond each side of the stove.

The chimney system is equally important. A wood stove in an NB garage requires a **CSA-listed insulated stainless steel chimney** that extends at least 3 feet above the roof penetration point and at least 2 feet higher than any structure within 10 feet. In Riverview's Maritime climate, an insulated chimney is essential — an uninsulated chimney in a cold garage creates poor draft, excessive creosote buildup, and potential chimney fire risk. Expect to pay **\$2,500 to \$5,000** for a quality wood stove and **\$1,500 to \$3,000** for the chimney system and installation by a WETT-certified installer.

There are several garage-specific concerns that go beyond a typical residential wood stove installation. **Flammable liquids** — gasoline, solvents, paints, stains, and lubricants — must be stored well away from the stove, ideally in a separate metal cabinet or outside the garage entirely. The radiant heat from a wood stove can raise the temperature of nearby containers enough to increase vapour release, and a spark or ember can ignite those vapours. **Sawdust and wood shavings** from workshop activities are also fire hazards near a wood stove — keep the area around the stove clean and clear at all times.

For an attached garage in Riverview, a wood stove is generally not recommended and may not be permitted. The fire separation requirements between an attached garage and the dwelling, combined with the additional fire risk of a solid-fuel appliance in a space where vehicles with gasoline are parked, make this a problematic combination. Most insurance providers will resist or refuse coverage for a wood stove in an attached garage. If your garage is attached, consider a **natural gas or propane unit heater** instead, which costs **\$1,500 to \$3,500 installed** and provides cleaner, more controllable heat without the fire risk of an open combustion appliance.

For your detached Riverview garage workshop, make sure the space is **properly insulated** (R-20 walls, R-40 or higher ceiling) before investing in any heating system. An uninsulated garage will eat firewood relentlessly and never stay warm. A well-insulated two-car garage workshop with a properly sized wood stove (40,000-60,000 BTU) will maintain comfortable working temperatures even on the coldest NB winter days. Find qualified WETT-certified installers and garage contractors through the New Brunswick Construction Network at newbrunswickconstructionnetwork.com.

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Q11

How do I insulate a garage ceiling to prevent ice dams in Edmundston New Brunswick?

Preventing ice dams on a garage in Edmundston starts with proper ceiling insulation combined with adequate attic ventilation — the goal is to keep the roof surface cold and uniform so that snow does not melt unevenly and refreeze at the eaves. Edmundston sits in northern New Brunswick where snow loads are among the heaviest in the province at **3.5 to 4.8 kPa**, and the extended cold season means snow sits on roofs for weeks or months at a time, making ice dams a persistent and potentially damaging problem.

Ice dams form when heat escaping through the garage ceiling warms the roof deck, melting the snow above. That meltwater runs down the roof slope until it reaches the eave overhang, which is colder because it extends beyond the heated space below. The water refreezes at the eave, forming a dam of ice that traps subsequent meltwater behind it. This trapped water backs up under shingles, penetrates the roof deck, and causes leaks, rot, and damage to the garage structure below. The solution is a two-part approach: **maximise insulation to prevent heat from reaching the roof deck**, and **ensure proper ventilation so any residual heat is swept away before it can warm the shingles**.

For Edmundston's climate, insulate the garage ceiling to a minimum of R-40, with R-50 being the recommended target. Given that Edmundston's heating degree days exceed 5,000 per year and winter temperatures routinely hit -25 to -35 degrees Celsius, a high R-value ceiling is essential not only for ice dam prevention but also for heating efficiency if you use the garage as a workshop. Use **fibreglass batts, blown-in cellulose, or a combination of spray foam and batts** to achieve your target R-value. The key is to eliminate gaps, compressions, and thermal bridges — even small areas of missing or compressed insulation create hot spots on the roof deck that trigger ice dam formation. Pay special attention to areas around light fixtures, electrical boxes, and any penetrations through the ceiling, sealing them with fire-rated caulking or spray foam before installing insulation.

Ventilation Is Equally Critical

Insulation alone will not prevent ice dams if the attic or rafter space above the garage ceiling is not properly ventilated. The NB Building Code requires a **minimum ventilation ratio of 1:300** (1 square foot of net free ventilation area for every 300 square feet of insulated ceiling area). For a 24x24 garage, that means at least **1.9 square feet of net free ventilation**, split between intake vents at the soffits and exhaust vents at the ridge or near the peak. **Soffit vents provide cool air intake at the eaves**, and **ridge vents or roof vents exhaust warm air at the peak**, creating a continuous airflow that keeps the roof deck cold and prevents snow from melting unevenly.

One detail that is frequently overlooked in garage ceiling insulation projects is **maintaining a clear air channel between the top of the insulation and the underside of the roof sheathing**. If insulation is pushed up against the roof deck, it blocks airflow from the soffit vents and defeats the ventilation system entirely. Install **ventilation baffles (also called rafter baffles or chutes)** in every rafter bay at the eave end before installing insulation. These inexpensive polystyrene or cardboard channels maintain a minimum 1-inch air gap between the insulation and the roof deck, ensuring that cold air flows freely from the soffit to the ridge.

On the exterior, install ice and water shield membrane from the eave edge up to at least 36 inches past the interior wall line — this is the NB code minimum. For Edmundston, experienced roofers typically recommend **48 to 72 inches of ice and water shield coverage** because ice dams in northern NB are more severe and persistent than in southern communities. This membrane does not prevent ice dams, but it prevents the water trapped behind

an ice dam from penetrating the roof deck and causing interior damage. It is your last line of defence.

If your garage already has ice dam problems, **do not attempt to remove ice dams with a hammer, chisel, or heat gun** — you will damage the roofing and potentially injure yourself. A professional can assess whether your current insulation and ventilation are adequate and recommend targeted improvements. In many Edmundston garages, simply air-sealing the ceiling penetrations and adding blown-in insulation on top of existing batts is enough to solve the problem at a cost of **\$1,500 to \$3,500 for a two-car garage**. Find experienced garage and roofing contractors through the New Brunswick Construction Network at newbrunswickconstructionnetwork.com.

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Q12

What type of heater is most energy-efficient for a New Brunswick garage?

The most energy-efficient heater for a New Brunswick garage depends on how you use the space, but for most NB homeowners, a natural gas or propane unit heater offers the best balance of efficiency, operating cost, and practical performance in our Maritime climate. If your garage is well-insulated and you have access to natural gas service, a modern condensing unit heater with an efficiency rating of 90-95% is the top choice for regular use.

Before discussing heater types, the single most important factor in garage heating efficiency is **insulation**. No heater, regardless of how efficient it is, will perform well in an uninsulated or poorly insulated garage. New Brunswick's winter temperatures regularly reach **-20 to -30 degrees Celsius**, and an uninsulated two-car garage loses heat so rapidly that even a large heater runs continuously without maintaining a comfortable temperature. Before investing in any heating system, ensure your garage has at least **R-20 wall insulation, R-40 to R-50 ceiling insulation, and an insulated garage door rated to R-16 or higher**. A well-insulated two-car garage can be kept comfortable with a heater half the size needed for an uninsulated space.

Natural gas unit heaters are the most popular choice for NB garages where natural gas service is available (Moncton, Saint John, Fredericton, and surrounding communities). A 45,000-75,000 BTU gas-fired unit heater costs **\$1,500 to \$3,500 installed** including the gas line connection, and modern units operate at 80-95% efficiency. Monthly operating costs during NB's six-month heating season run approximately **\$80 to \$200 per month** for a well-insulated two-car garage, depending on your thermostat setting and how often the garage door is opened. The key advantage of gas unit heaters is their ability to recover quickly — when you open the garage door on a -25 degree day and the temperature plummets, a gas heater brings the space back to working temperature within 15-20 minutes.

Propane unit heaters are essentially the same equipment as natural gas units but run on propane, making them the go-to choice for rural NB properties without natural gas service. Efficiency ratings are comparable (80-95%), but operating costs are approximately **30-50% higher than natural gas** because propane costs more per BTU in New Brunswick. A 250-gallon propane tank and annual fuel costs of **\$1,200 to \$2,500** are typical for regular winter use of a two-car garage workshop.

Electric heaters come in several varieties. **240V electric forced-air heaters** (4,000-7,500 watts) are inexpensive to purchase and install at **\$300 to \$800 installed**, but NB's electricity rates make them the most expensive option to operate — roughly **\$200 to \$400 per month** for a well-insulated two-car garage kept at workshop temperatures.

Electric infrared/radiant heaters are a more targeted option that heats objects and people directly rather than heating the air. They are excellent for garages where you work in one area because they provide immediate warmth without needing to heat the entire volume of air. Operating costs are lower than forced-air electric because you are only heating a zone rather than the whole space.

Ductless mini-split heat pumps are the emerging efficiency champion for NB garages. Modern cold-climate mini-splits operate effectively down to **-25 to -30 degrees Celsius** and deliver 2-3 times more heat energy than the electrical energy they consume, making them the lowest-cost option to operate. A 12,000-18,000 BTU mini-split costs **\$3,000 to \$5,500 installed** and can both heat and cool the garage. Monthly heating costs run **\$50 to \$120** for a well-insulated two-car garage. The main drawback is slower recovery time compared to a gas heater — if you open the garage door frequently in winter, a mini-split struggles to keep up.

In-floor radiant heating (hydronic) is the premium option at **\$8 to \$14 per square foot** installed and must be planned before the concrete slab is poured. It provides the most comfortable, uniform heat and is ideal for garages used as serious workshops. However, the high installation cost means it is typically only justified for garages that will be used daily throughout winter.

For most NB homeowners, the practical recommendation is a **natural gas unit heater if you have gas service**, or a **cold-climate mini-split heat pump** if you want the lowest operating costs. Either way, invest in proper insulation first — it is the foundation of an energy-efficient heated garage. Find qualified HVAC and garage contractors

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Should I install a vapour barrier in my insulated garage in Bathurst NB?

Yes, you absolutely should install a vapour barrier in your insulated garage in Bathurst — skipping this step is one of the most common and damaging mistakes in NB garage construction. In Bathurst's northern Maritime climate, where winter temperatures regularly plunge to **-25 to -35 degrees Celsius** and the heating season stretches six full months, the temperature difference between the inside of a heated garage and the outside creates intense vapour drive that pushes moisture through your wall and ceiling assemblies. Without a vapour barrier, that moisture condenses inside the insulation, soaking it, destroying its R-value, and creating ideal conditions for mould growth and wood rot in your framing.

The principle is straightforward: warm air holds more moisture than cold air, and when warm, humid garage air contacts a cold surface — such as the backside of exterior sheathing in January — the moisture in that air condenses into liquid water. In a Bathurst garage, this condensation cycle runs from roughly October through April, meaning moisture accumulates in your wall cavities for months. A **6-mil polyethylene vapour barrier installed on the warm side (interior side) of the insulation** stops this moisture migration before it reaches the cold zone where condensation occurs. This is not optional in NB's climate — it is a fundamental building science requirement.

Garage environments are actually more demanding on vapour barriers than typical residential rooms because of the unique moisture sources in a garage. When you drive a snow-covered vehicle into a heated garage in Bathurst, the snow and ice on the vehicle melts and evaporates, releasing a significant volume of moisture into the garage air. Road salt accelerates this process. If you use the garage as a workshop, additional moisture comes from concrete curing, cleaning activities, and even your own breathing and perspiration during physical work. All of this moisture is eager to migrate into your wall and ceiling cavities if there is no vapour barrier to stop it.

Installation Details That Matter

The vapour barrier must be continuous and well-sealed. Install 6-mil polyethylene sheeting over the insulation on the interior side of all exterior walls and the ceiling, overlapping seams by at least 6 inches and sealing them with **red Tuck Tape (sheathing tape)** or acoustical sealant. Seal the poly around all penetrations — electrical boxes, light fixtures, plumbing pipes, exhaust fans — using vapour barrier boots or acoustical sealant. Every gap, tear, or unsealed penetration allows moisture to bypass the barrier and reach the cold side of the assembly, potentially concentrating moisture damage in that area.

Around electrical boxes, use vapour barrier boxes (poly boots) that slip over the electrical box and seal to the surrounding poly sheet. Standard electrical box installations without vapour barrier boots are one of the most common failure points — warm, moist air leaks around the box into the wall cavity and condenses on the cold sheathing directly behind the box.

If you are using closed-cell spray foam insulation (minimum 2 inches), the spray foam itself acts as both insulation and vapour barrier, and no separate poly sheet is required. This is one of the advantages of spray foam in NB garage applications — it eliminates the need for a separate vapour barrier while also providing superior air sealing. However, spray foam costs **\$3.50 to \$7.00 per square foot** compared to **\$1.50 to \$3.00 per square foot** for batt insulation with a poly vapour barrier.

Do not install a vapour barrier on both sides of the wall assembly. The exterior side of your garage walls should have a **weather-resistive barrier (house wrap such as Tyvek)** that blocks liquid water and wind but allows vapour to pass through from inside to outside. If you trap moisture between two vapour barriers — poly on the inside and a non-permeable material on the outside — any moisture that does get into the cavity has no way to dry out, guaranteeing rot and mould.

Under the concrete slab, a separate **6-mil poly vapour barrier** should be installed before the concrete is poured to prevent ground moisture from wicking up through the slab. This is a different vapour barrier from the one in your walls and ceiling, and it is equally important. A garage slab without a vapour barrier underneath will be perpetually damp, causing floor coatings to peel, stored items to develop mildew, and a general feeling of dampness in the space.

The cost of a vapour barrier for a typical two-car garage in Bathurst is **\$300 to \$600 for materials and \$500 to \$1,200 for professional installation** — a modest investment that protects thousands of dollars' worth of insulation, framing, and interior finishing. Find experienced garage builders and insulation contractors through the New Brunswick Construction Network at newbrunswickconstructionnetwork.com.

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Q14

How do I ventilate a heated garage to prevent moisture buildup in NB winters?

Proper ventilation in a heated NB garage requires a combination of controlled mechanical exhaust and passive or mechanical makeup air to remove moisture without wasting all your heat. This is one of the most overlooked aspects of garage construction in New Brunswick, and failing to address it leads to chronic condensation on walls and ceiling, rusting tools and vehicles, mould growth behind drywall, and deterioration of stored belongings.

The moisture problem in a heated NB garage is uniquely intense. Every time you drive a snow-covered vehicle into a warm garage during our six-month winter, kilograms of snow and ice melt and evaporate into the garage air. Road salt and brine accelerate the melt rate. A single vehicle can release **2 to 4 litres of water** into the garage air after a winter drive, and if you have two vehicles, that is potentially 4 to 8 litres of moisture per day entering a space that may only have 80 to 100 cubic metres of air volume. Without ventilation, this moisture has nowhere to go except into your walls, ceiling, and belongings.

The most effective ventilation strategy for a heated NB garage is a through-wall or ceiling-mounted exhaust fan paired with a passive makeup air inlet. A bathroom-style exhaust fan rated at **80 to 150 CFM** (cubic feet per minute) installed on an exterior wall or through the roof is the minimum for a two-car garage. For a workshop where you also generate dust, fumes, or additional moisture, a **200 to 300 CFM** fan is more appropriate. Install the exhaust fan on the wall opposite the garage doors, positioned high on the wall or in the ceiling where warm, moist air naturally accumulates. The passive makeup air inlet — a simple **4 to 6-inch insulated duct with a gravity damper** — should be installed on the opposite wall, low to the ground, to create a cross-ventilation path that sweeps moisture-laden air across the space and out through the exhaust.

Timer and humidistat controls make the system practical for NB winters. You do not want the exhaust fan running continuously because it pulls your expensive heated air outside. A **humidistat** (humidity-sensing switch) set to activate the fan when relative humidity exceeds **50-55%** is the most energy-efficient approach — the fan runs only when moisture levels are actually elevated, typically for 30 to 90 minutes after vehicles are brought in. Alternatively, a simple **timer switch** that runs the fan for 30 to 60 minutes after you park is a low-cost, effective approach. Many NB homeowners set their exhaust fan on a timer that activates when they arrive home and runs for an hour.

For serious workshop garages or garages where moisture problems are persistent, consider a **heat recovery ventilator (HRV)**. An HRV exhausts stale, moist air while recovering 70-85% of the heat from that exhaust air and transferring it to the incoming fresh air. This means you get effective moisture removal without the heating penalty of a simple exhaust fan. A small HRV unit suitable for a two-car garage costs **\$800 to \$2,000 for the unit plus \$500 to \$1,500 for installation**. While this is significantly more expensive than a \$150 exhaust fan, the energy savings in NB's long heating season can pay back the difference within 3 to 5 years if the garage is heated daily.

Passive ventilation through soffit and ridge vents is essential for the attic space above the garage ceiling but does not ventilate the garage interior itself. These vents prevent ice dams and moisture accumulation in the roof structure by keeping the attic cold and dry, but they do nothing to remove the moisture inside the heated garage below. You need both systems — attic ventilation above the insulated ceiling, and interior ventilation within the heated garage space.

A few practical tips for NB garages specifically: **keep a squeegee or floor drain near the garage doors** to manage meltwater that pools on the slab rather than evaporating. **Brush heavy snow off your vehicle before pulling into the garage** — removing even half the snow before entry dramatically reduces interior moisture release. And **never leave the garage door cracked open for ventilation in winter** — this wastes enormous amounts of heat, creates uneven temperatures that promote condensation in specific spots, and can freeze your garage door tracks and weatherstripping.

The cost of a proper garage ventilation setup — exhaust fan, makeup air inlet, and humidistat control — is approximately **\$300 to \$800 for materials and \$400 to \$1,000 for professional installation**. This modest investment protects your garage structure, your vehicles, your tools, and your health. Find qualified HVAC and garage contractors through the New Brunswick Construction Network at newbrunswickconstructionnetwork.com.

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Q15

Is radiant floor heating practical for a garage in Quispamsis New Brunswick?

Radiant floor heating is absolutely practical for a garage in Quispamsis and is considered the premium heating option for NB garage workshops and hobby spaces, but it must be planned and installed before the concrete slab is poured — it cannot be easily retrofitted. If you are building a new garage or replacing an existing slab, hydronic in-floor radiant heating delivers the most comfortable, uniform warmth of any garage heating system, and it is particularly well-suited to New Brunswick's long, cold winters.

Hydronic radiant floor heating works by circulating warm water (typically 30 to 45 degrees Celsius) through PEX tubing embedded in or beneath the concrete slab. The entire slab becomes a gentle, low-temperature radiator that warms the garage from the ground up. In Quispamsis, where winter temperatures regularly drop to **-15 to -25 degrees Celsius** and the heating season runs from October through April, the thermal mass of a heated concrete slab provides remarkably stable temperatures. Once the slab is warm, it holds heat for hours even if the boiler cycles off, smoothing out the temperature swings that forced-air heaters create.

The cost for hydronic radiant floor heating in a NB garage runs **\$8 to \$14 per square foot** for the in-floor tubing, manifolds, and slab preparation, plus **\$3,000 to \$8,000** for the boiler or water heater that supplies the hot water. For a typical 24x24 two-car garage (576 square feet), the total installed cost is approximately **\$8,000 to \$16,000** including the heat source. This is significantly more expensive than a gas unit heater (\$1,500 to \$3,500 installed) or an electric heater (\$300 to \$800 installed), so radiant floor heating is typically chosen by homeowners who plan to use their garage as a daily workshop, hobby space, or vehicle restoration area where comfort and consistent temperature matter.

The practical advantages for a Quispamsis garage are significant. Radiant heat warms objects from the floor up, which means your feet are warm when you are standing on the concrete working — a huge comfort factor compared to overhead forced-air heating where warm air rises to the ceiling and the floor stays cold. There are no hot or cold spots, no blowing dust or debris, no noise from a fan or burner, and no hanging heater taking up wall or ceiling space. For a woodworking shop, radiant heat is ideal because it does not stir up sawdust. For a vehicle restoration garage, the even, gentle heat prevents condensation on metal parts and painted surfaces.

However, radiant floor heating does have **practical limitations** you should consider. **Recovery time is the biggest drawback** — if you open the garage door on a cold Quispamsis January morning to move vehicles in and out, the slab temperature drops and it takes 2 to 4 hours to fully recover. A forced-air heater recovers in 15 to 20 minutes. Many NB homeowners with radiant floors address this by adding a small supplemental forced-air heater for quick recovery, or by using a programmable thermostat that maintains a low baseline temperature (8 to 10 degrees Celsius) overnight so the slab never fully cools down.

The slab design must accommodate the radiant system. The concrete slab should be at least **4 inches thick over the PEX tubing**, poured over **2 inches of rigid foam insulation (R-10 minimum)** with a **6-mil poly vapour barrier** beneath the foam. The perimeter of the slab needs rigid foam insulation to prevent heat from migrating outward through the frost walls. Without underslab and perimeter insulation, you are heating the ground beneath the garage rather than the garage itself — a waste of energy that increases operating costs by 30-50%. The PEX tubing is typically installed in a serpentine pattern at 9 to 12-inch spacing, tied to reinforcing mesh or held in place by insulation boards with built-in tube channels.

For the heat source, a high-efficiency condensing boiler (natural gas or propane) is the most common choice in the Quispamsis area, where natural gas service is available. A dedicated boiler for the garage floor typically costs **\$3,000 to \$6,000 installed**. Alternatively, if your home's existing boiler has sufficient capacity, a separate zone can sometimes be added for the garage floor at lower cost, though this requires careful assessment by an HVAC professional.

Radiant floor heating is a long-term investment that adds value to your property and transforms a garage from basic vehicle storage into a genuinely comfortable year-round workspace. If you are building a new garage in Quispamsis and plan to use it as a serious workshop, it is well worth the upfront cost. Find experienced HVAC and garage contractors through the New Brunswick Construction Network at newbrunswickconstructionnetwork.com.

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What is the best garage door insulation R-value for the Maritime climate in NB?

For New Brunswick's Maritime climate, the best garage door insulation R-value is R-16 to R-18 for heated garages and workshops, with R-12 as the minimum worthwhile investment. The garage door is the largest opening in your garage and the single biggest source of heat loss — a standard non-insulated steel garage door has an R-value of roughly R-1 to R-3, which in NB's climate is essentially no insulation at all.

To understand why the garage door matters so much, consider the surface area involved. A standard 16-foot double garage door is approximately **112 square feet** of surface area — larger than most garage walls. When winter temperatures in NB drop to **-20 to -30 degrees Celsius** and you are trying to keep a heated garage at workshop temperature (10 to 15 degrees Celsius), the temperature differential across that thin, uninsulated door can exceed 40 degrees. The heat loss through 112 square feet of R-2 door at that differential is enormous, and your heater runs constantly trying to compensate. Upgrading to an R-16 door reduces heat loss through that surface by approximately **85%**, which translates directly into lower heating costs and a more comfortable garage.

Insulated garage doors come in two main construction types, and the type matters as much as the R-value number. **Polystyrene-insulated doors** use rigid foam panels inserted between the steel skins. They are lighter, less expensive, and typically offer R-values of R-6 to R-12. **Polyurethane-insulated doors** use injected foam that bonds to both steel skins, creating a stronger, quieter, and better-insulated door with R-values of R-12 to R-18. For NB's climate, **polyurethane-injected doors are the better investment** — they provide higher R-values in a thinner profile, they are significantly stronger and more dent-resistant than polystyrene doors, and the foam bonding to both skins eliminates the thermal bridging that occurs at the steel stiles and rails of polystyrene doors.

In terms of actual products and pricing in the NB market, expect to pay the following for a 16-foot double garage door, installed: a non-insulated steel door runs **\$1,200 to \$2,500**, a polystyrene-insulated door (R-6 to R-12) runs **\$1,500 to \$2,800**, and a polyurethane-insulated door (R-16 to R-18) runs **\$1,800 to \$3,500**. The price difference between a non-insulated and an R-16 insulated door is typically **\$500 to \$1,000** — a modest premium that pays for itself within 2 to 4 heating seasons if you heat your garage. For a single 9-foot garage door, subtract roughly 30-40% from these prices.

Beyond R-value, the weatherstripping and bottom seal on your garage door are critical for NB's climate.

Even an R-18 door loses its advantage if cold air infiltrates around the edges. Quality insulated doors come with compression weatherstripping on the sides and top, and a flexible rubber bottom seal that conforms to minor irregularities in your garage floor. In NB, where frost heave can cause slight slab movement that creates gaps under the door, a **dual-contact or bulb-type bottom seal** provides the best air seal. Replace weatherstripping every 5 to 7 years, or sooner if you notice daylight or drafts around the door edges.

If you have an existing non-insulated garage door and are not ready to replace it, aftermarket insulation kits are available for **\$100 to \$250 per door**. These kits typically use rigid polystyrene or reflective foam panels that friction-fit or adhesive-mount into the door panels. They raise the door's R-value to approximately R-4 to R-8 — a meaningful improvement, though not as effective as a factory-insulated polyurethane door. The added weight of the insulation panels may require a garage door spring adjustment to maintain proper balance, which is a job for a professional — **never adjust garage door torsion springs yourself**, as they are under extreme tension and can cause serious injury.

For an unheated garage, an R-8 to R-12 door still provides value in NB's Maritime climate by moderating temperature extremes. An insulated door keeps the garage several degrees warmer than outside on cold days, which protects vehicles from extreme cold starts, prevents liquids from freezing, and reduces condensation when temperatures fluctuate during spring and fall freeze-thaw cycles. The insulated door also reduces noise transmission and is more resistant to denting from wind-blown debris and accidental impacts.

Need help choosing and installing the right insulated garage door for your NB home? Browse garage door and general contractors through the New Brunswick Construction Network directory at newbrunswickconstructionnetwork.com.

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Q17

How much does it cost to run a natural gas heater in a NB garage through winter?

Running a natural gas heater in a New Brunswick garage through the full winter heating season (October through April) typically costs \$500 to \$1,500, depending heavily on your garage's insulation level, the thermostat setting, and how frequently the garage door is opened. A well-insulated two-car garage kept at workshop temperature (12 to 15 degrees Celsius) will cost roughly \$80 to \$200 per month, while an uninsulated or

poorly insulated garage can easily cost \$250 to \$400 per month and still never feel warm.

The math behind these numbers starts with **New Brunswick's natural gas rates**, which as of 2025-2026 run approximately **\$0.35 to \$0.50 per cubic metre** through Enbridge Gas New Brunswick (Liberty Utilities). Natural gas contains approximately **37.5 megajoules per cubic metre**, and a modern 80% efficient unit heater converts about 30 megajoules of that into usable heat. A high-efficiency condensing unit heater (90-95% efficient) extracts 34-36 megajoules per cubic metre, reducing fuel consumption by 10-15% compared to a standard unit.

To estimate your specific costs, consider the main variables. **Garage size** is the obvious one — a single-car garage (roughly 300 square feet) requires about half the heating energy of a standard two-car garage (576 square feet), and a three-car garage (800+ square feet) requires proportionally more. **Insulation level** is the factor that most dramatically affects cost. A well-insulated garage (R-20 walls, R-40+ ceiling, R-16 garage door, sealed and weatherstripped) might lose heat at a rate of **15,000 to 25,000 BTU per hour** when the outside temperature is -20 degrees Celsius. An uninsulated garage of the same size loses heat at **50,000 to 80,000 BTU per hour** under the same conditions — three to four times as much, which means three to four times the fuel consumption.

The thermostat setting has a larger impact than most people realize. Every degree Celsius you raise the garage temperature increases heating costs by approximately 5-8%. Keeping a garage at 18 degrees Celsius (comfortable shirtsleeve working temperature) costs roughly 40-60% more than maintaining 10 degrees Celsius (above-freezing storage temperature). Many NB homeowners use a two-stage approach: maintain a **baseline temperature of 5 to 8 degrees Celsius** overnight and when away to prevent freezing, then boost to **12 to 16 degrees Celsius** during active workshop use. This approach can cut seasonal heating costs by 30-40% compared to maintaining a constant workshop temperature.

Garage door openings are the hidden cost driver in NB's cold climate. Every time you open the garage door on a -20 degree day, you dump the entire volume of warm air and replace it with frigid outdoor air in under a minute. For a two-car garage, that is roughly 140 cubic metres of air that must be reheated from -20 to your setpoint — each door opening costs approximately **\$0.50 to \$2.00 in natural gas** depending on the temperature differential and your setpoint. If you open the garage door 4 to 6 times per day during winter (two vehicles, morning and evening), door openings alone can add **\$40 to \$100 per month** to your heating bill. Minimizing unnecessary door openings and using the **service door** for pedestrian access makes a measurable difference.

Here is a realistic seasonal cost breakdown for a **well-insulated two-car garage** in the greater Moncton, Saint John, or Fredericton area, heated to 12 degrees Celsius during the day and 5 degrees overnight, with a modern 90%+ efficient unit heater:

October and April (mild months): \$40-\$80 per month. **November and March**: \$80-\$150 per month. **December through February** (peak cold): \$120-\$200 per month. **Full-season total: approximately \$500 to \$1,200.** For an

uninsulated garage at the same settings, double these figures. For a garage maintained at 18 degrees Celsius for full-time workshop use, add 40-60%.

Compared to other fuel sources, natural gas is the most affordable heating option for NB garages where service is available. Propane costs roughly **40-60% more** per BTU than natural gas. Electric resistance heating costs approximately **2 to 3 times more** than natural gas at current NB electricity rates. A cold-climate heat pump offers operating costs comparable to natural gas but with higher equipment costs upfront.

The best way to reduce your garage heating costs is to invest in insulation before you invest in a bigger heater. An insulation upgrade costing **\$2,000 to \$4,000** for a two-car garage typically pays for itself in 3 to 5 years through reduced heating costs, and it makes the space dramatically more comfortable. Find qualified heating and garage contractors through the New Brunswick Construction Network at newbrunswickconstructionnetwork.com.

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Q18

Should I insulate my unheated detached garage in Sussex New Brunswick?

In most cases, insulating an unheated detached garage in Sussex is not necessary and not the best use of your renovation budget — but there are specific situations where partial insulation provides meaningful benefits even without a heating system. The decision depends on what you store in the garage, whether you plan to add heat in the future, and how much you are willing to spend for moderate temperature improvement.

An unheated, uninsulated detached garage in Sussex will closely track outdoor temperatures throughout the year, typically staying 3 to 5 degrees Celsius warmer than outside on the coldest winter days due to the wind shelter and modest solar gain through the walls and roof. During NB's coldest stretches in January and February, when temperatures drop to **-20 to -30 degrees Celsius**, an uninsulated garage will still be well below freezing. Adding insulation without a heat source raises the interior temperature by another **3 to 8 degrees** above outdoor

conditions, depending on insulation level, solar exposure, and how airtight the garage is. So a well-insulated but unheated garage in Sussex might stay at **-10 to -15 degrees** when it is **-25 outside** — still below freezing, but the moderated temperature does provide real benefits in certain situations.

The strongest case for insulating an unheated garage is protecting temperature-sensitive items. Latex paint, household chemicals, canned goods, and many adhesives are damaged by repeated freeze-thaw cycles. Vehicles that sit in a moderately cold garage rather than an extremely cold garage start more reliably and have less stress on batteries, fluids, and rubber components. If you use your Sussex garage to store anything that should not freeze hard — and many NB homeowners do — insulation provides a buffer that reduces the severity and duration of freezing conditions inside the garage.

If you plan to add heat in the future, insulating now while the walls are open or accessible is dramatically cheaper than retrofitting later. Adding R-20 batt insulation to the walls and R-40 to the ceiling of a two-car garage in Sussex costs approximately **\$1,500 to \$4,000** when the framing is exposed. Doing the same work after drywall is installed — removing drywall, insulating, installing vapour barrier, re-drywalling — costs **\$4,000 to \$8,000** or more. If there is any reasonable chance you will want a heated garage workshop within the next 5 to 10 years, insulating during initial construction or while the walls are accessible is a wise investment.

However, there are reasons NOT to insulate an unheated detached garage. The primary concern is **moisture**. In NB's Maritime climate, an insulated garage without adequate ventilation can trap moisture inside, leading to condensation on cold surfaces, mould growth, and accelerated corrosion of tools and vehicles. An uninsulated garage breathes freely — moisture that enters through vehicle snow melt or humidity escapes through the walls and roof just as easily. The moment you insulate, you slow down this natural drying process, and without a heat source to raise the dew point or a ventilation system to actively remove moisture, you can create worse conditions than the uninsulated garage provided.

If you do decide to insulate your unheated Sussex garage, follow these guidelines. **Insulate the walls to R-12 to R-20 and the ceiling to R-32 to R-40.** Install a **6-mil polyethylene vapour barrier on the interior side** of all insulated surfaces. Ensure the garage has **adequate ventilation** — soffit and ridge vents for the attic space above the ceiling, and at minimum one or two passive vents or a small exhaust fan in the garage interior to manage moisture. **Install an insulated garage door (R-12 minimum)** — there is little point in insulating the walls and ceiling if the largest opening in the building has an R-value of 2.

The garage door is actually the most impactful single upgrade for an unheated garage. Replacing a non-insulated door with an R-16 polyurethane-insulated door costs **\$1,800 to \$3,500 installed** for a double door and immediately reduces heat loss through the largest surface. Combined with weatherstripping and sealing the service door, this single upgrade moderates interior temperatures significantly without the moisture concerns of full cavity insulation.

For a basic unheated detached garage in Sussex used primarily for vehicle parking and general storage, the practical recommendation is to **insulate the garage door and weatherstrip the service door**, but skip full wall and ceiling insulation unless you plan to add heat within the next few years. If you are building a new detached garage and the walls are open during framing, go ahead and insulate — the incremental cost during construction is modest and it preserves all your future options. Need guidance on your specific garage project? New Brunswick Garages can match you with local contractors for a free estimate through the New Brunswick Construction Network.

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What is the best insulation for a garage attic in the Woodstock NB climate?

The best insulation for a garage attic in the Woodstock area is **blown-in cellulose or fibreglass batts installed to a minimum of R-32, with R-50 strongly recommended if you heat the garage or plan to finish the space above.** Woodstock sits in the Saint John River valley where winter temperatures regularly drop to -25 to -30 degrees Celsius, and the area accumulates roughly 5,000 heating degree days per year — making proper attic insulation one of the most impactful upgrades you can make to a garage.

For an unfinished garage attic where you simply want to keep heat from escaping through the roof, **blown-in cellulose** is the most cost-effective option. A professional crew can insulate a typical 24x24 garage attic to R-50 in a few hours, and the material settles into every gap and cavity, creating a continuous thermal blanket across the attic floor. In the Woodstock NB market, expect to pay **\$1.50 to \$3.00 per square foot** for blown-in cellulose installed to R-50, which works out to roughly **\$900 to \$1,700 for a standard two-car garage attic.** Blown-in fibreglass is a similar option at comparable pricing, with slightly better moisture resistance but a tendency to settle more over time.

If you plan to finish the attic as a bonus room, workshop loft, or storage space with climate control, the approach changes significantly. In that case, you would insulate **between the roof rafters** rather than on the attic floor, using either fibreglass batts (R-20 to R-28 between 2x8 or 2x10 rafters) or **closed-cell spray foam** applied directly to the underside of the roof sheathing. Spray foam at 2 inches of thickness delivers approximately R-13 while also serving as an air barrier and vapour retarder — a major advantage in Woodstock's climate where condensation in roof assemblies is a real concern during the freeze-thaw cycles of late fall and early spring. Closed-cell spray foam runs **\$3.50 to \$7.00 per square foot** installed in NB, making it the premium option at roughly **\$2,000 to \$4,000 for a two-car garage roof area.**

Woodstock Climate Considerations

Woodstock's river valley location creates some specific challenges for garage attic insulation. The area experiences **wider temperature swings** than coastal NB communities — hot summers and brutally cold winters — which puts more thermal stress on insulation and roofing assemblies. Moisture management is critical: a **6-mil polyethylene vapour barrier** must be installed on the warm side of the insulation (facing down toward the garage interior) to prevent warm, moist air from reaching the cold roof sheathing and condensing. Without this vapour barrier, moisture accumulates in the insulation and roof structure, leading to mould growth, reduced insulation performance, and eventual sheathing rot.

Ventilation is equally important. Whether you insulate the attic floor or the roof cavity, the attic space needs adequate airflow to remove any moisture that does get past the vapour barrier. For a standard garage attic, this means soffit vents at the eaves and a ridge vent or gable vents at the peak, providing a minimum of 1 square foot of net free ventilation area per 300 square feet of attic floor. In Woodstock's heavy snow load zone (approximately 2.8 to 3.2 kPa ground snow load), make sure soffit vents are not blocked by snow or insulation — install baffles at each rafter bay to maintain a clear air channel from soffit to ridge.

For most Woodstock homeowners with an unheated garage, **blown-in cellulose to R-40 or R-50 on the attic floor** offers the best balance of cost and performance. If you heat your garage or want a usable loft space, invest in **closed-cell spray foam between the rafters combined with a continuous layer of rigid foam board** for maximum thermal performance. Either way, this is a project where professional installation pays for itself — improper vapour barrier placement or inadequate ventilation can cause more damage than no insulation at all. A licensed insulation contractor familiar with NB building code requirements and Woodstock's climate conditions will ensure the job is done right. Browse garage and general contractors in the New Brunswick Construction Network directory at newbrunswickconstructionnetwork.com/directory?category=general-contracting to find professionals in the Woodstock area.

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