



**CERTS**

CLEAN ENERGY RESOURCE TEAMS

# Bambooyinka kulaylka isha hawada ee

## Kuleylka iyo qaboojiska

**Matoorada kulaylka isha hawada waxay isticmaalaan koronto si ay wax u kululeeyaan una qaboojiyaan.**

- Waxay u shaqeeyaan sidii qaboojiyaha si ay u qaboojiyaan oo ay u shaqeeyaan si cagsi ah si ay kulaylka hawada dibadda uga saaraan gurigaaga si ay u kululeeyaan.
- Waxay u kululeeyaan guryaha ilaa saddex jeer si ka waxtar badan marka loo eego hawo qasabka ah iyo hababka kuleylka iska caabbinta korantada.

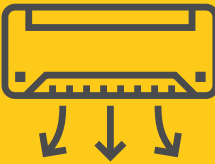


## Laba Habayn: Ductless ama Bartamaha

KEEBA KU HABOON GURIGAADA MINNESOTA?



**QAYBTA DIBADDA**  
oo ka sarreeya qoto dheer oo baraf ah



**QAYBTA GUDAHA**  
oo gidaarka lagu rakibay

### DUCTLESS / MINI-SPLITS

Matoorada kulaylka isha aan lahayn ee hawadu uma baahna tuubooyin. Waxa jira ugu yaraan hal qaboojiyo oo dibadda ah oo ku xidhan hal ama in ka badan oo unug qaybinta hawada gudaha ah. Unugyada gudaha ayaa sida caadiga ah lagu dhejiyaa gidaarka, sagxada, ama saqafka. Unugyada gudaha ee si gaar ah loo xakameeyo ayaa u oggolaanaya qaboojinta aagagga - kor u qaadista kaydinta iyo raaxada.

**QIIMAHA RAKIBAADA: \$3,000–18,000, taas oo ku xidhan tirada gudaha iyo bannaanka**

#### KU FIICAN GOORTA:

- Waxay horeba ugu kululaatay hiitarka, sagxada gudaha, ama sabuuradaha korantada.
- Ka takhalusidda unugyada A/C daaqadda.
- Ku-daridda kulaylka/qaboojinta meelaha aan qaboojiyaha lahayn ee gurigaaga.

### BARTAMAHA / DUCTED

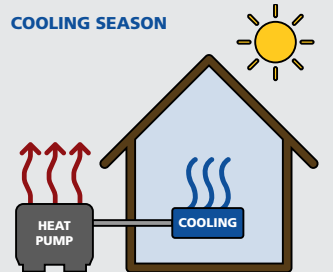
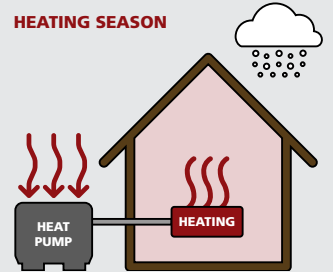
Matoorada kulaylka dhexe waxay isticmaali karaan marawaxada foornada ee jira iyo tubbada si ay ugu dhaqaajiyaan hawada kulul iyo qaboojinta gurigaaga oo dhan. Si ka duwan qaybaha dhexe ee A/C, matoorada kulaylka dhexe ayaa u bixiya kuleyliyaha iyo qaboojinta hal nidaam.

**KHARASHKA SAMEEYNTA: \$4,500–15,000**

#### KU FIICAN GOORTA:

- Durba kuleylinta hawo qasab ah (oo leh tubbada meesha taal).
- Beddelida bartamaha A/C ama ku darida markii ugu horeysay.

### SIDA AY U SHAQAYSO



**QAYBTA DIBADDA**  
oo ka sarreeya qoto dheer oo baraf ah

# Si hufan ugu kululee oo ku qabooji bambooyin kulaylka isha hawada

WAA MAXAY NOOCA BAMBADA KULEELKA AAD U BAAHAN TAHAY MINNESOTA?

## Matoorada kulaylka isha hawada waxay bixiyaan faa'iido qaboojin la mid ah tan qaboojiyaha oo badanaa leh waxtar sare.

Haddii aad rabto in bamka kulaylku noqdo nidaamka kuleyliyaahaaga aasaasiga ah, waxaad u baahan doontaa "bamka kulaylka isha qabow-cimilada" iyo habka kuleylka labaad.

### ● Maxaa bamka kulaylka ka dhigaya mid ku habboon cimiladayada qabow?

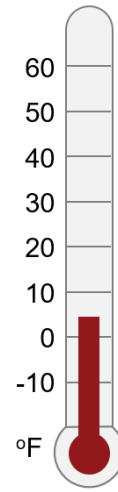
Waxay si hufan ugu kululaataa ilaa 5°F oo xataa waxay hoos u dhigtaa xaalado badan.

### ● Waa maxay nidaamka kuleyliyaaha sare?

Waxay taageertaa bamka kulaylka dhowrka toddobaad ee sannadkii marka uu aad u qaboobo. Badanaa, waxaad si fudud u ilaalin kartaa nidaamka kuleyliyaahaaga jira si uu u shaqeeyo.

### Haddii gurigaaga hadda lagu kululeeyo koronto leh bamka kulaylka isha qabow ee cimilada, waxaad arki kartaa 55% kaydka biilka. Wixii propane, 30% kaydka biilka ama ka badan.

Haddii gurigaaga hadda lagu kululeeyo gaaska dabiiciga ah foornooyinka gaaska dabiiciga ah ee waxtarka leh waxay ahaayeen hab la awoodi karo oo lagu kululeeyo guryaha Minnesota. Bamka kulaylka isha qabow-cimilada ama mid ka mid ah fursadaha kale ee badan ee bamka kulaylku waxay ku siin karaan qaboojin hufan oo dhaqaale ahaan u dhimi kara hawlgalka fooradaada guga iyo dayrta ee kuleylka.



### MA OGTAHAY?

Matoorada kuleylku waxay dhaqaajiyaan kulaylka taasina waxay qaadataa tamar aad uga yar marka loo eego nidaamyada kuleyliyaaha caadiga ah ee kuleyliya.

Waxaad xitaa kulaylka ka soo saari kartaa hawo aad u qabow oo dibadda ah!

**TALO:** Si aad sare ugu qaaddo kaydkaaga, hel qiimaynta tamarta guriga si aad u ogaatid haddii dahaadhka gurigaaga iyo xidhitaanka hawada la horumarin karo - iyo wax kaloo badan! Wax dheeri ah baro: [cleanenergyresourceteams.org/assessment](https://cleanenergyresourceteams.org/assessment)



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### La xidhiidh adeeg bixiyahaaga korontada

Baro wax ku saabsan dib u soo celinta tamarta korontadaada, fursadaha qiimaynta, iyo shuruudaha ku xeeran ka qaybqaatayaasha ama qandaraaslayaasha u qalma.

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### Ka hel 2-3 dalab oo qandaraasle

ah oo xirfad leh Haddii tas-hiilaadkaagu aanu lahayn shuruudaha qandaraaslaha, booqo Isku-xidhka Qandaraaslayaasha La Doorbiday ee MN ASHP: [mnashp.org/preferred-contractor-network-homeowners](https://mnashp.org/preferred-contractor-network-homeowners)

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### Waydii qandaraaslayaasha su'aalaha saxda ah

Marka laga reebo hubinta inay caymis ku jiraan iyo inay haystaan shati, waydii inay xisaabiyaan kulaylinta iyo qaboojinta gurigaaga. Su'aalaha kale ee la weydiinayo way kala duwanaan doonaan iyadoo ku xiran waxa aad ka rabto bamka kulaylkaaga (qaboojinta, kululaynta, labadaba). Booqo mareegahayaga si aad u hesho su'aalo dheeraad ah oo aad tixgeliso.



**KA HEL ILO DHEERAADA**