Call Us Toll Free: 1 (866) 554-HEAT (4328)
Monday - Thursday: 8am - 6pm CST
Friday: 9am - 5pm CST
Saturday and Sunday: Closed

Basic Room & Home

Room Type	Garage
Room Size	400 sq. ft.
ZIP Code	28150
Building Age	After 2000

Temperature

Avg. Outdoor Temp. High	91
Avg. Outdoor Temp. Low	22
Desired Indoor Cooling	75
Desired Indoor Heating	55

Walls

Wall Type	Frame Wall (Siding or Stucco)
Wall Insulation Quality	No Insulation
North Wall Exposed Area	200 sq.ft.
East Wall Exposed Area	0 sq.ft.
South Wall Exposed Area	200 sq.ft.
West Wall Exposed Area	200 sq.ft.

Windows

Window Type	Single Pane
North Wall	0 Windows 0 Sliding Doors 0 French Doors
East Wall	0 Windows 0 Sliding Doors 0 French Doors
South Wall	0 Windows 0 Sliding Doors 0 French Doors
West Wall	0 Windows 0 Sliding Doors 0 French Doors

Ceiling

Ceiling Exposed	Yes
Ceiling Insulation Quality	No Insulation
Ceiling Type	Ceiling Under Attic

Garage Door

# of Garage Doors	2
Garage Door Insulation Quality	Insulated

Floor

Floor Exposed	Yes
Floor Insulation Quality	No Insulation
Floor Type	Slab On Grade

Load Results (BTU/hr)

	Cooling load	Heating load
Wall	2752	3865
Window	0	0
Ceiling	7670	5386
Floor	0	2336
Bay	747	1072
Infiltration	164	605
Internal	0	
MRA *	4874	
Total	16,200 BTU/hr	13,300 BTU/hr

* MRA - Moisture Removal Allowance: It is typical for roughly 30% of your air conditioner's capacity to be used to reduce the humidity in your home.

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Temperature

Avg. Outdoor Temp. High	91
Avg. Outdoor Temp. Low	22
Desired Indoor Cooling	75
Desired Indoor Heating	55

Walls

Wall Type	Frame Wall (Siding or Stucco)
Wall Insulation Quality	Fair Insulation
North Wall Exposed Area	200 sq.ft.
East Wall Exposed Area	0 sq.ft.
South Wall Exposed Area	200 sq.ft.
West Wall Exposed Area	200 sq.ft.

Windows

Window Type	Single Pane
North Wall	0 Windows 0 Sliding Doors 0 French Doors
East Wall	0 Windows 0 Sliding Doors 0 French Doors
South Wall	0 Windows 0 Sliding Doors 0 French Doors
West Wall	0 Windows 0 Sliding Doors 0 French Doors

Ceiling

Ceiling Exposed	Yes
Ceiling Insulation Quality	Excellent Insulation
Ceiling Type	Ceiling Under Attic

Garage Door

# of Garage Doors	2
Garage Door Insulation Quality	Insulated

Floor

Floor Exposed	Yes
Floor Insulation Quality	No Insulation
Floor Type	Slab On Grade

Load Results (BTU/hr)

	Cooling load	Heating load
Wall	999	1562
Window	0	0
Ceiling	602	422
Floor	0	2336
Bay	747	1072
Infiltration	164	605
Internal	0	
MRA *	1080	
Total	3,600 BTU/hr	6,000 BTU/hr

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Room Size	400 sq. ft.
ZIP Code	28150
Building Age	After 2000

Temperature

Avg. Outdoor Temp. High	91
Avg. Outdoor Temp. Low	22
Desired Indoor Cooling	75
Desired Indoor Heating	55

Walls

Wall Type	Frame Wall (Siding or Stucco)
Wall Insulation Quality	Fair Insulation
North Wall Exposed Area	200 sq.ft.
East Wall Exposed Area	0 sq.ft.
South Wall Exposed Area	200 sq.ft.
West Wall Exposed Area	200 sq.ft.

Windows

Window Type	Single Pane
North Wall	0 Windows 0 Sliding Doors 0 French Doors
East Wall	0 Windows 0 Sliding Doors 0 French Doors
South Wall	0 Windows 0 Sliding Doors 0 French Doors
West Wall	0 Windows 0 Sliding Doors 0 French Doors

Ceiling

Ceiling Exposed	Yes
Ceiling Insulation Quality	No Insulation
Ceiling Type	Ceiling Under Attic

Garage Door

# of Garage Doors	2
Garage Door Insulation Quality	Insulated

Floor

Floor Exposed	Yes
Floor Insulation Quality	No Insulation
Floor Type	Slab On Grade

Load Results (BTU/hr)

	Cooling load	Heating load
Wall	999	1562
Window	0	0
Ceiling	7670	5386
Floor	0	2336
Bay	747	1072
Infiltration	164	605
Internal	0	
MRA *	4120	
Total	13,700 BTU/hr	11,000 BTU/hr

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Avg. Outdoor Temp. High	91
Avg. Outdoor Temp. Low	22
Desired Indoor Cooling	75
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Walls

Wall Type	Frame Wall (Siding or Stucco)
Wall Insulation Quality	No Insulation
North Wall Exposed Area	200 sq.ft.
East Wall Exposed Area	0 sq.ft.
South Wall Exposed Area	200 sq.ft.
West Wall Exposed Area	200 sq.ft.

Windows

Window Type	Single Pane
North Wall	0 Windows 0 Sliding Doors 0 French Doors
East Wall	0 Windows 0 Sliding Doors 0 French Doors
South Wall	0 Windows 0 Sliding Doors 0 French Doors
West Wall	0 Windows 0 Sliding Doors 0 French Doors

Ceiling

Ceiling Exposed	Yes
Ceiling Insulation Quality	Excellent Insulation
Ceiling Type	Ceiling Under Attic

Garage Door

# of Garage Doors	2
Garage Door Insulation Quality	Insulated

Floor

Floor Exposed	Yes
Floor Insulation Quality	No Insulation
Floor Type	Slab On Grade

Load Results (BTU/hr)

	Cooling load	Heating load
Wall	2752	3865
Window	0	0
Ceiling	602	422
Floor	0	2336
Bay	747	1072
Infiltration	164	605
Internal	0	
MRA *	1834	
Total	6,100 BTU/hr	8,400 BTU/hr

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Watts to BTU/hr conversion calculator

Enter the power in watts and press the *Convert* button:

BTU/hr to watts conversion calculator ▶

Electrical load is 1.5hp * 75 % duty cycle = 3.8kBTU/hr * 0.75 = 2.9kBTU/hr

Go with a 9000BTU/hr unit for cooling since ceiling insulation quality will largely determine this. For excellent ceiling insulation no wall insulation, 6,100BTU/hr (cooling load) +2,900BTU/hr (electrical equipment load) = 9,000BTU/hr. With fair wall insulation and excellent ceiling insulation as low as 3,600BTU/hr (cooling load) + 2,900BTU/hr (electrical equipment load) = 6,500BTU/hr.

Go with Senville 9000BTU/hr kit with precharge. Amazon third party seller wanted $150 to ship...found a different vendor on Amazon with no shipping charge.