

Home Energy Rating Certificate

CLEARResult

Property
E+ Solutions
152 Highland Street
Roxbury, MA 02119

HERS
Rating Type: Projected Rating
Rating Date: 4/11/2017
Registry ID:

Certified Energy Rater: Brendan Kavanagh
Rating Number:

Projected Rating: Based on Plans - Field Confirmation Required.

HERS Index: -22

General Information

Conditioned Area	1435 sq. ft.	House Type	Townhouse, end unit
Conditioned Volume	17274 cubic ft.	Foundation	Unconditioned basement
Bedrooms	3		

Mechanical Systems Features

Air-source heat pump:	Electric, Htg: 13.5 HSPF. Clg: 30.0 SEER.
Water Heating:	Heat pump, Electric, 3.24 EF, 50.0 Gal.
Duct Leakage to Outside	NA
Ventilation System	Balanced: HRV, 64 cfm, 24.0 watts.
Programmable Thermostat	Heat=Yes; Cool=Yes

Building Shell Features

Ceiling Flat	R-66.7	Slab	None
Sealed Attic	NA	Exposed Floor	R-30.0
Vaulted Ceiling	R-50.4	Window Type	U-Value: 0.180, SHGC: 0.210
Above Grade Walls	R-43.2	Infiltration Rate	Htg: 0.50 Clg: 0.50 ACH50
Foundation Walls	R-12.0	Method	Blower door test

Lights and Appliance Features

Percent Interior Lighting	100.00	Range/Oven Fuel	Electric
Percent Exterior Lighting	100.00	Clothes Dryer Fuel	Electric
Refrigerator (kWh/yr)	539	Clothes Dryer EF	3.01
Dishwasher (kWh/yr)	260	Ceiling Fan (cfm/Watt)	0.00

Estimated Annual Energy Cost

Use	MMBtu	Cost	Percent
Heating	8.2	\$247	-44%
Cooling	2.8	\$42	-7%
Hot Water	3.0	\$146	-26%
Lights/Appliances	14.8	\$652	-115%
Photovoltaics	-39.5	-\$1734	305%
Service Charges		\$78	-14%
Total	-10.6	-\$568	100%

Criteria

This home meets or exceeds the minimum criteria for the following:
Massachusetts Stretch Energy Code*
* Compliance is determined by the rater.

CLEARResult
50 Washington St
Suite 3000
Westborough, MA 01581

Certified Energy Rater: _____

REM/Rate - Residential Energy Analysis and Rating Software v14.6.4

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The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

Home Energy Rating Certificate

CLEARResult

Property
E+ Solutions
154 Highland Street
Roxbury, MA 02119

HERS
Rating Type: Projected Rating
Rating Date: 4/11/2017
Registry ID:

Certified Energy Rater: Brendan Kavanagh
Rating Number:

Projected Rating: Based on Plans - Field Confirmation Required.

HERS Index: -22

General Information

Conditioned Area	1435 sq. ft.	House Type	Townhouse, end unit
Conditioned Volume	14374 cubic ft.	Foundation	Unconditioned basement
Bedrooms	3		

Mechanical Systems Features

Air-source heat pump:	Electric, Htg: 13.5 HSPF. Clg: 30.0 SEER.
Water Heating:	Heat pump, Electric, 3.24 EF, 50.0 Gal.
Duct Leakage to Outside	NA
Ventilation System	Balanced: HRV, 64 cfm, 24.0 watts.
Programmable Thermostat	Heat=Yes; Cool=Yes

Building Shell Features

Ceiling Flat	R-66.7	Slab	None
Sealed Attic	NA	Exposed Floor	R-30.0
Vaulted Ceiling	R-50.4	Window Type	U-Value: 0.180, SHGC: 0.210
Above Grade Walls	R-43.2	Infiltration Rate	Htg: 0.50 Clg: 0.50 ACH50
Foundation Walls	R-12.0	Method	Blower door test

Lights and Appliance Features

Percent Interior Lighting	100.00	Range/Oven Fuel	Electric
Percent Exterior Lighting	100.00	Clothes Dryer Fuel	Electric
Refrigerator (kWh/yr)	539	Clothes Dryer EF	3.01
Dishwasher (kWh/yr)	260	Ceiling Fan (cfm/Watt)	0.00

Estimated Annual Energy Cost

Use	MMBtu	Cost	Percent
Heating	8.0	\$242	-42%
Cooling	2.8	\$43	-7%
Hot Water	3.0	\$146	-26%
Lights/Appliances	14.8	\$652	-114%
Photovoltaics	-39.5	-\$1734	303%
Service Charges		\$78	-14%
Total	-10.7	-\$573	100%

Criteria

This home meets or exceeds the minimum criteria for the following:
Massachusetts Stretch Energy Code*
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CLEARResult
50 Washington St
Suite 3000
Westborough, MA 01581

Certified Energy Rater: _____

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Home Energy Rating Certificate

CLEARResult

Property
E+ Solutions LLC
156 Highland Street
Roxbury, MA 02119

HERS
Rating Type: Projected Rating
Rating Date: 4/11/17
Registry ID:

Certified Energy Rater: Brendan Kavanagh
Rating Number:

Projected Rating: Based on Plans - Field Confirmation Required.

HERS Index: -23

General Information

Conditioned Area	1363 sq. ft.	House Type	Townhouse, end unit
Conditioned Volume	18896 cubic ft.	Foundation	Slab
Bedrooms	2		

Mechanical Systems Features

Air-source heat pump:	Electric, Htg: 13.5 HSPF. Clg: 30.0 SEER.
Water Heating:	Heat pump, Electric, 3.24 EF, 50.0 Gal.
Duct Leakage to Outside	NA
Ventilation System	Balanced: HRV, 64 cfm, 25.0 watts.
Programmable Thermostat	Heat=Yes; Cool=Yes

Building Shell Features

Ceiling Flat	NA	Slab	R-20.0 Edge, R-10.0 Under
Sealed Attic	R-60.0	Exposed Floor	NA
Vaulted Ceiling	NA	Window Type	U-Value: 0.180, SHGC: 0.210
Above Grade Walls	R-43.2	Infiltration Rate	Htg: 0.50 Clg: 0.50 ACH50
Foundation Walls	NA	Method	Blower door test

Lights and Appliance Features

Percent Interior Lighting	100.00	Range/Oven Fuel	Electric
Percent Exterior Lighting	100.00	Clothes Dryer Fuel	Electric
Refrigerator (kWh/yr)	539	Clothes Dryer EF	3.01
Dishwasher (kWh/yr)	260	Ceiling Fan (cfm/Watt)	0.00

Estimated Annual Energy Cost

Use	MMBtu	Cost	Percent
Heating	8.6	\$250	-46%
Cooling	2.9	\$44	-8%
Hot Water	2.5	\$119	-22%
Lights/Appliances	13.9	\$612	-112%
Photovoltaics	-37.5	-\$1647	303%
Service Charges		\$78	-14%
Total	-9.6	-\$544	100%

Criteria

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50 Washington St
Suite 3000
Westborough, MA 01581

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Home Energy Rating Certificate

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Property
E+ Solutions LLC
158 Highland Street
Roxbury, MA 02119

HERS
Rating Type: Projected Rating
Rating Date: 4/11/2017
Registry ID:

Certified Energy Rater: Brendan Kavanagh
Rating Number:

Projected Rating: Based on Plans - Field Confirmation Required.

HERS Index: -17

General Information

Conditioned Area	914 sq. ft.	House Type	Apartment, end unit
Conditioned Volume	8226 cubic ft.	Foundation	Slab
Bedrooms	2		

Mechanical Systems Features

Air-source heat pump:	Electric, Htg: 13.5 HSPF. Clg: 30.0 SEER.
Water Heating:	Heat pump, Electric, 3.24 EF, 50.0 Gal.
Duct Leakage to Outside	NA
Ventilation System	Balanced: HRV, 64 cfm, 25.0 watts.
Programmable Thermostat	Heat=Yes; Cool=Yes

Building Shell Features

Ceiling Flat	NA	Slab	R-20.0 Edge, R-10.0 Under
Sealed Attic	NA	Exposed Floor	NA
Vaulted Ceiling	NA	Window Type	U-Value: 0.180, SHGC: 0.210
Above Grade Walls	R-43.2	Infiltration Rate	Htg: 0.50 Clg: 0.50 ACH50
Foundation Walls	NA	Method	Blower door test

Lights and Appliance Features

Percent Interior Lighting	100.00	Range/Oven Fuel	Electric
Percent Exterior Lighting	100.00	Clothes Dryer Fuel	Electric
Refrigerator (kWh/yr)	539	Clothes Dryer EF	3.01
Dishwasher (kWh/yr)	260	Ceiling Fan (cfm/Watt)	0.00

Estimated Annual Energy Cost

Use	MMBtu	Cost	Percent
Heating	3.5	\$103	-38%
Cooling	2.1	\$32	-12%
Hot Water	2.5	\$119	-44%
Lights/Appliances	11.4	\$503	-186%
Photovoltaics	-25.1	\$-1105	410%
Service Charges		\$78	-29%
Total	-5.6	\$-269	100%

Criteria

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