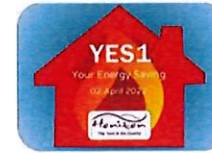




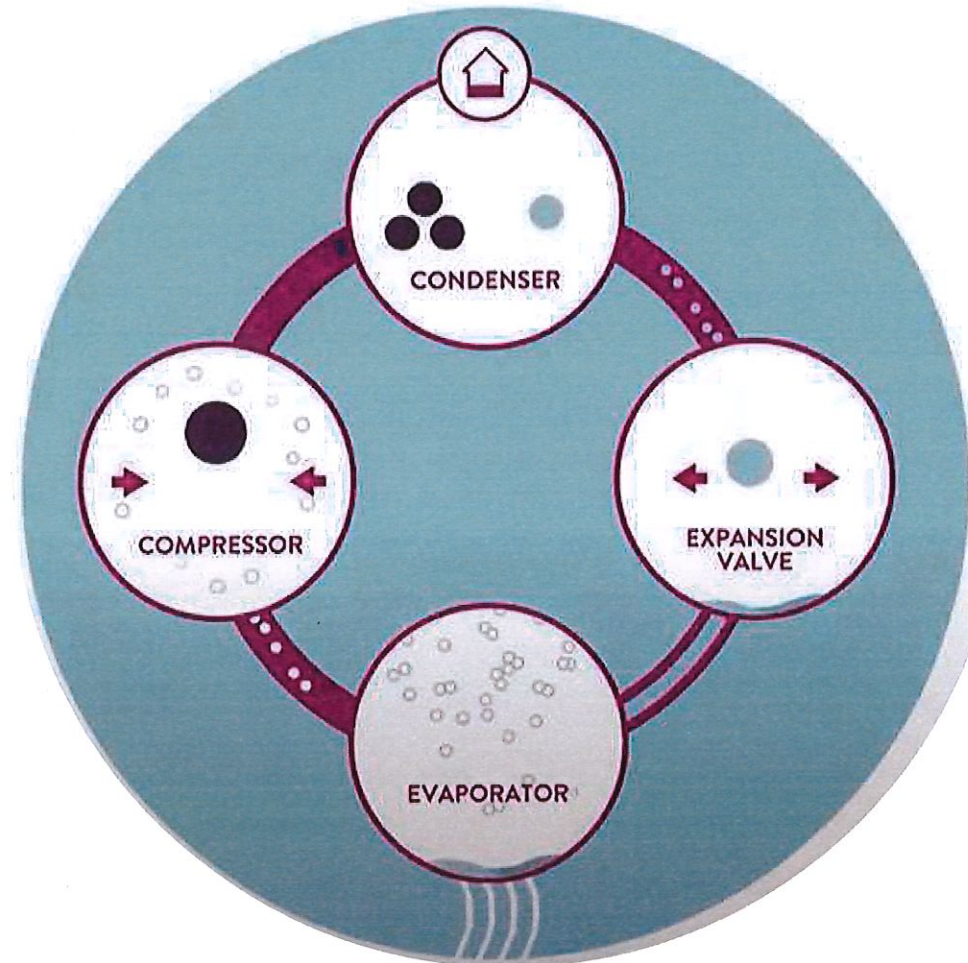
Nu-Heat
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Heat pumps

How does a heat pump work?



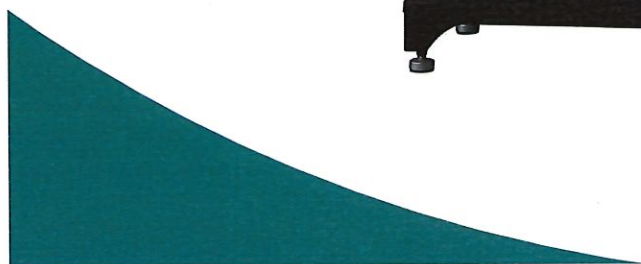
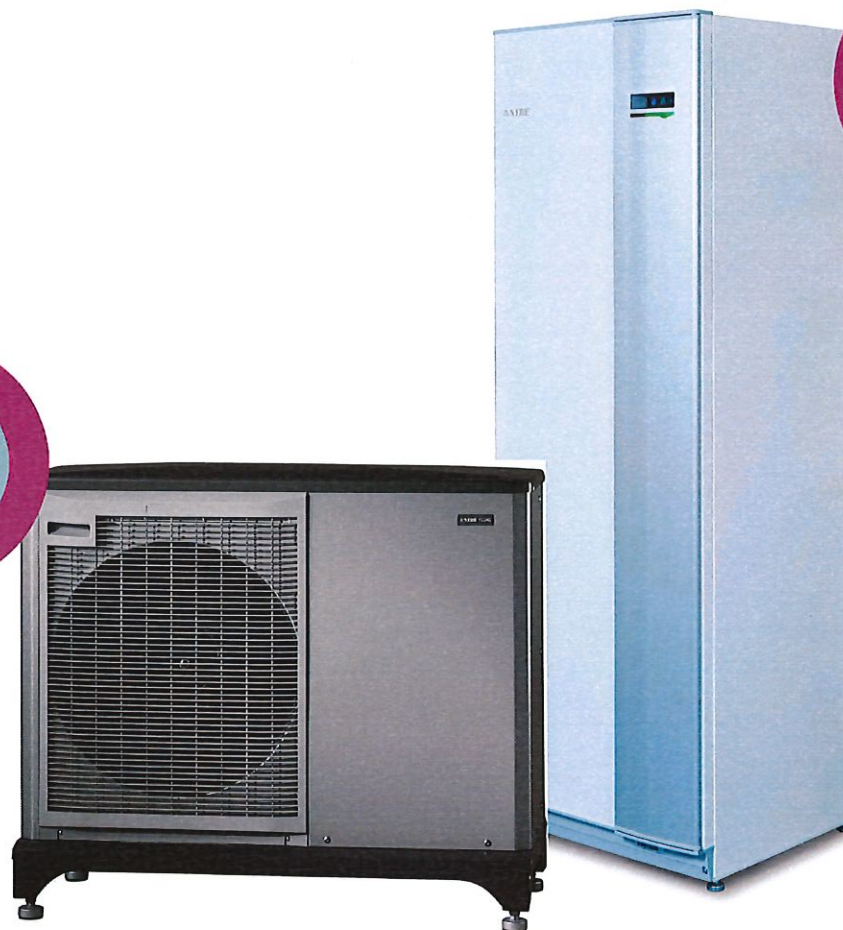
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Air source or ground source?



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Air source heat pumps



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Suitable for a wide range of homes

- Heat pump installed outside
- 300% efficient
- Quiet
- 15+ year lifespan
- Eligible for the BUS

Considerations

- Insulation
- Location of heat pump
- Planning permission?



Ground source heat pumps



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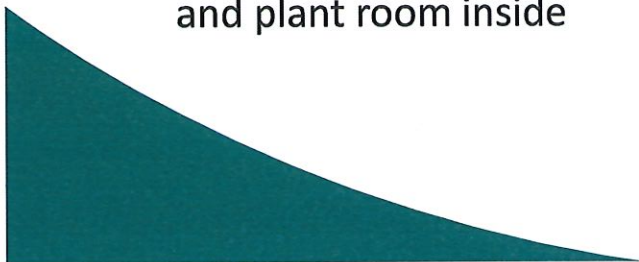
For properties on larger plots

- Heat pump installed inside, ground loops outside
- 400%+ efficient
- Consistent year-round performance
- Silent operation
- Eligible for the BUS



Considerations

- Insulation
- Space – ground loops outside and plant room inside



Heat pump installation and running costs



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Air source installed cost = £10,000 - £12,000

Ground source installed cost = £15,000 - £20,000

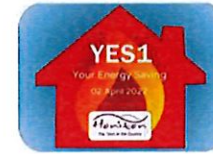
Minus any Government Incentive payments

Running costs

Heat Source	Fuel Cost (kWh)	Efficiency (%)	Real Cost (kWh)
GSHP	15.0p	330	4.5p
Mains gas	4.2p	89	4.7p
ASHP	15.0p	310	4.8p
Oil	4.8p	92	5.1p
LPG	5.8p	89	6.6p
Electric	15.0p	100	15.0p

Figures Provided by Energy Savings Trust, April 2020, and should be used as a guide

Heat pump grants



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Boiler Upgrade Scheme

- An upfront grant
- £5000 for ASHP, £6000 for GSHP
- Details on application still TBC



Heat pumps in summary...



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Air source

Efficiency	Slightly less efficient
Aesthetics	Heat pump located in close proximity to building
Sound	Audible
Planning	Permitted development, must also meet MCS020
Site	Suitable for urban properties
Scale	Small – large
Installed cost (approx. 250m ²)	£10,000 - £12,000
BUS	£5,000

Ground source

Efficiency	Generally more efficient
Aesthetics	'Invisible' once fitted
Sound	Very quiet (silent)
Planning	Not required (subject to groundworks)
Site	Large plot required
Scale	Medium – large properties
Installed cost (approx. 250m ²)	£15,000 - £20,000
BUS	£6,000

Why design matters: performance & installation



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A bespoke, integrated heating design...

- ✓ Guarantees the system performance
- ✓ Makes installation quick & simple





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Thank you