



HOME EFFICIENCY
GROUP

oh..HEG!



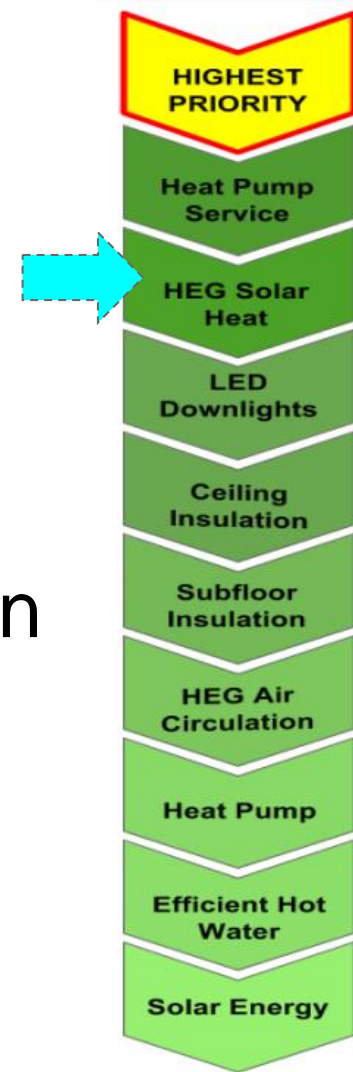
Solar Air Heaters: Roof Heat Recovery



APRIL 2017

Discussion Points

1. What is HEG?
2. What is a Solar Air Heater?
3. What is its Purpose?
4. Integration with Ducted Air Circulation



HEG Overview

Established 8 years ago

Business Focus:

- Comfort & Savings

- Energy efficiency

- Healthier Air

18 staff, teams in Invermay & Moonah

Environmental Electrical Australia partnership



Professional tradespeople & sales staff



Product Range

Solar Energy Systems

Heat Pumps

Ducted Air Circulation Systems

Ceiling and underfloor Insulation

Roof & Sub-floor ventilation

Energy/Heat Recovery Ventilation

Heat Pump Hot Water Cylinders

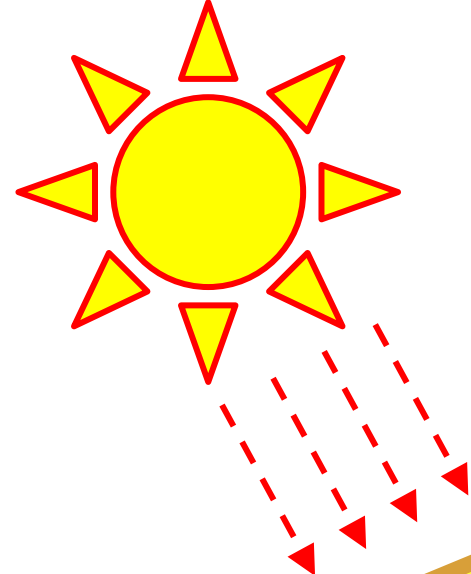
What is a Solar Air Heater?

Filtered intake in the ceiling that harvests heat from a roof space, and uses it to offset heating costs in a home or business.

Uses the actual roof as a solar collector, just like inside a car on a bright but chilly day.

Radiant heat from the sun → convective heat → used in the house.

HEG Solar Heat™



EC Fan with variable speed controller

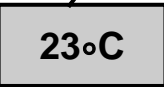
Insulated flexible ducting



Backdraught damper

Filter Sock

Digital controller with remote thermostat



Diffuser

Components... simplicity refined

Roof heat recovery display



Regular Inlet



Bedroom outlet (1 to 10)



Filtered Square Inlet (optional)



Solar Air Heater Filter



Why use a Solar Heater?

- Offset heating costs by reducing the time when heaters are required.
- Pre-heat a house, just like you pre-heat an oven.
- Utilise a hereunto wasted heat source.



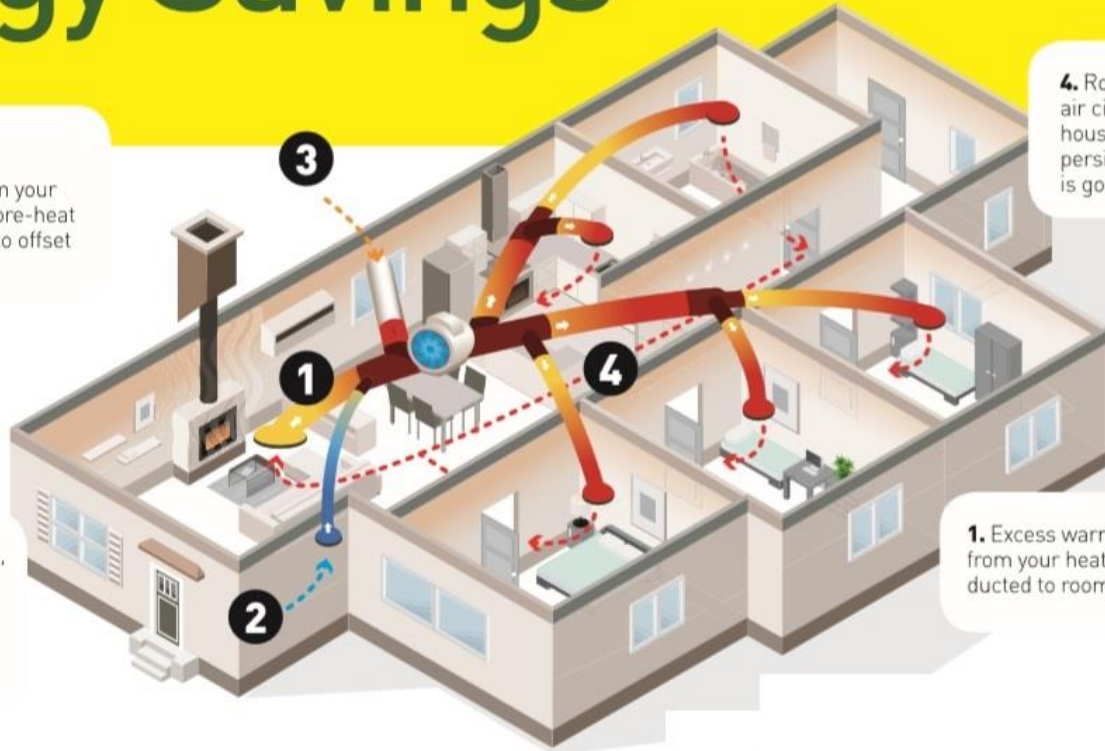
Integrating a solar air heater with a Ducted
Air Circulation System

Enjoy Comfort & Energy Savings

DUCTED AIR CIRCULATION™

3. Free heat is automatically harvested from your roof space to pre-heat your home & to offset heater costs.

2. Via a filtered eave inlet, your home is ventilated with a small amount of dry air to offset the moisture build-up (from cooking, drying clothes, breathing etc.)



4. Rooms are warmed as air circulates around the house continuously, and persistent condensation is gone.

1. Excess warmth from your heater is ducted to rooms.

HEGair

Multiple functions, some optional

Air transfer (warm or cool air - base function)

Ventilation (window condensation)

Roof heat recovery (Solar air heater)

Cooling (air con, or ventilation circulation)

HEG Air™ Characteristics

Cheap to run

\$0.0125/hr EC Fan, 50W

5 year parts warranty, 1 year labour warranty

Aims to lower net heating/energy costs

3-in-1 (current version):

Air Circulation / re-distribution

Roof Heat Recovery (Solar Air Heater)

Room Ventilation

Heater agnostic / 1 to 10 outlets

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Moonah | Invermay