

Advanced Cooling Technologies, Inc.

ENERGY RECOVERY SYSTEMS

HRVs - Passive Heat Pipe Heat Recovery Ventilators ACT-HP-HRV Series

Standard Features:

- Passive, Energy Saving, Heat Pipe Heat Exchanger Technology
- Filtered intake and exhaust
- Individual fan speed controls
- Low profile for drop ceiling or raised floor installations
- Optional Anti-Frost tilt control
- Corrosion resistant models available
- Built and tested to AHRI standards



ACT-HP-HRV Heat Recovery Ventilators with Passive Heat Pipe Heat Exchanger Technology

ACT's Heat Pipe Heat Recovery Ventilators (ACT-HP-HRVs) are designed using high performance, zero maintenance heat pipe heat exchanger technology. Built and tested to AHRI Standards, all units are manufactured for their specific application. HP-HRV's optimize summer and/or winter performance of heating and/or cooling systems by efficiently exchanging energy between the building exhaust air stream and the supply air stream to either pre-cool or pre-heat the air depending upon the season.



Currently, the low pressure drop, passive energy saving HP-HRVs are offered for applications in the 300 to 2,700 cfm range. Custom units can be designed and built for larger systems, up to 100,000 cfm.

Optional Seasonal /Anti-Frost Tilt Control: Where desired a tilt control feature can be added to the HP-HRV to enhance operation depending upon the season. This same tilting mechanism is often utilized as a frost protection system in extremely cold winter locations.

Individually filtered intake and exhaust

A PLC or the buildings energy management system can be easily employed to activate the tilt mechanism so that frost

build up is avoided. ACT-HP-HRV's feature filtered intake and exhaust streams with individual fan speed controls for air flow balancing. The HRV systems low profile allows for raised flooring or drop ceiling installations. Heavy-duty mounting rings are provided on all models for ease of ceiling installation.



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Specifications:

Model Number	L (in.)	W (in.)	H (in.)	Effectiveness	ΔΡ	POWER Btuh/Hr. O°C Outside Air 75°C Return Air
ACT-HP-HRV-300	35.0	28.00	11.50	62%	0.35 in/H ₂ 0	15,000
ACT-HP-HRV-600	40.5	36.00	14.25	60%	0.46 in/H ₂ 0	29,000
ACT-HP-HRV-1000	40.5	48.00	14.25	57%	0.64 in/H ₂ 0	46,000
ACT-HP-HRV-1650	41.0	76.00	15.63	57%	0.65 in/H ₂ 0	76,000
ACT-HP-HRV-2700	45.0	91.00	17.63	55%	0.80 in/H ₂ 0	120,000

Note: All ACT-HP-HRVs consist of (8) rows of heat pipes and a fin pitch of 12 fpi. Other fin pitch designs are available (8-14fpi) at no extra charge.

Dimensions:



Design Options:

Anti-Frost Tilting Option: ACT-HP-HRV-XXX-AFT

Anti Corrosion Enclosure/E-Coat Option: ACT-HP-HRV-XXX-AFT-AC-E

Note: Anti-Frost and Anti-Corrossion/E-Coat are available on all models

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