

Halton Foodservice

- H.R.U. Heat Recovery Units for commercial kitchens





Halton, the technology leader in commercial kitchen ventilation, provides another ingredient for sustainable kitchen ventilation design.

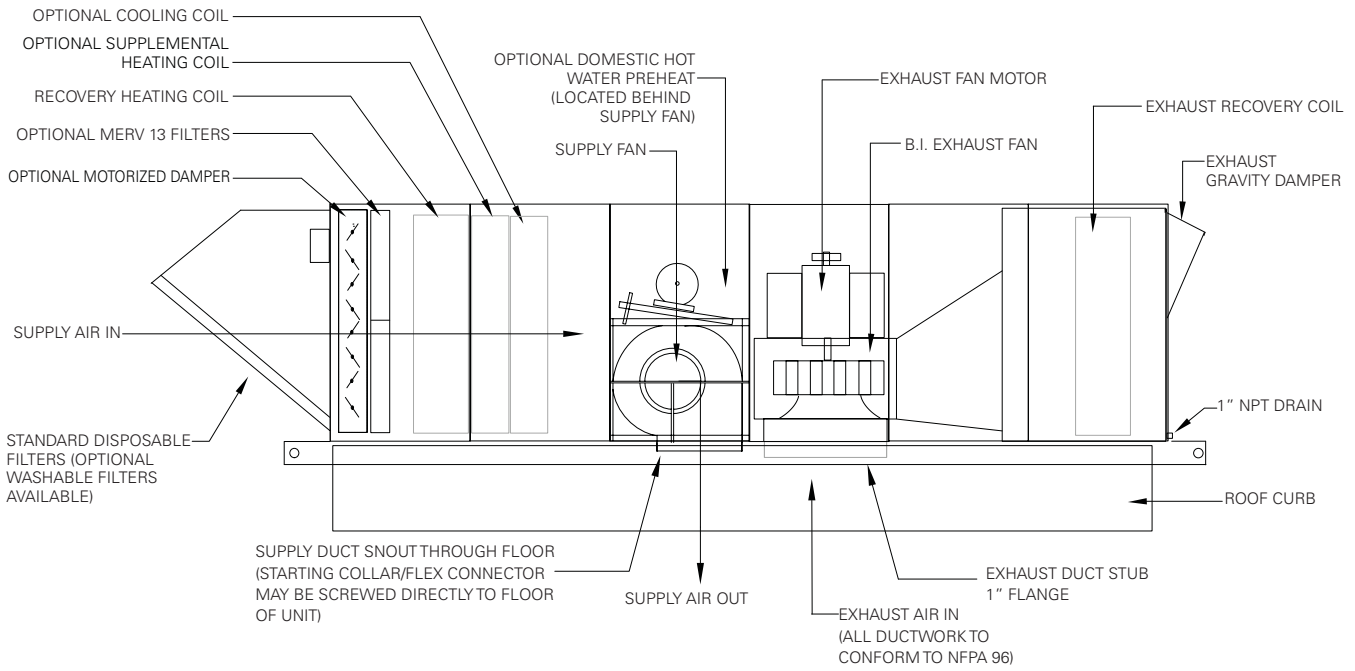
Halton's Heat Recovery Unit (HRU) is a packaged exhaust fan and make-up air unit with heat reclaim. The HRU recovers heat from exhaust air to preheat incoming make-up air, eliminating the need for a dedicated make-up air unit. In the summer, waste heat can be used to preheat hot water further accelerating the payback time.

Features & Benefits

- The HRU recovered heat can also be used to preheat water during summer months.
- Payback original cost of the HRU in two to five years.
- Units are available from 2,000 cfm to 20,000 cfm
- Adaptable for M.A.R.V.E.L. Demand Control Ventilation Systems.
- ETL and UL 762 Grease Exhaust Ventilator, UL 705 Power Roof Ventilator and UL 1812 Ducted Heat Recovery Ventilator Listed.

Options & Modifications

- DHW (Domestic Hot Water) Preheat
- Supplementary Cooling DX Coil (Condenser/ controls by others)
- Supplementary Glycol Heating Coil
- Supplementary Glycol Cooling Coil
- Coil Monitoring System
- Side Discharge
- Exhaust Gravity Damper
- Motorized Supply Inlet Damper for LEED Applications
- Rated MERV 13 Filters for LEED Applications
- M.A.R.V.E.L. Demand Control Ventilation System



Potential energy saving for North America

Air-to-air heat recovery
Using heat of exhaust air to preheat supply air in winter

Calculation basis:

- heat recovery efficiency = 50%
- electricity rate 0.9 \$/kWh
- gas rate 1.0 \$/Therm (0.03 \$/kWh)
- gas used as a heat source
- exhaust air temperature 100°F (38°F)
- operating hours 14 hours/day (9 AM to 11 PM), 6 days/week
- additional pressure drop created by the heat exchanger coil in supply and exhaust duct 1 inches of water (249 Pa)

City	Energy Savings	
	\$ per cfm	\$ per l/s
Canada		
Montreal , QC	0.99	2.10
Toronto, ON	0.92	1.95
Vancouver, BC	0.68	1.44
Winnipeg, MB	1.24	2.63
USA		
Atlanta, GA	0.27	0.57
Boston, MA	0.76	1.61
Chicago, IL	0.8	1.69
Kansas City, MO	0.62	1.31
Minneapolis, MN	0.94	1.99
New York, NY	0.63	1.33



Halton – Enabling wellbeing in indoor environments

Halton is a family owned company specializing in indoor climate and indoor environment products, services and solutions. Halton's aim is to create comfortable and safe indoor environments with energy-efficient and sustainable life cycle.

Halton solutions range from public and commercial buildings to industry, commercial kitchen and restaurant applications. Halton is also one of the most recognized indoor climate solution providers for marine and offshore applications. Areas of expertise and product ranges cover air diffusion, airflow management, fire safety, kitchen ventilation, air purification and indoor environment management.

Halton operates in 23 countries around the world. Headquarters are located in Finland and in the USA. Production facilities are located in Finland, France, Germany, Hungary, the UK, the USA, Canada and Malaysia. Indoor environment laboratories are located in the USA, France and Finland.

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