

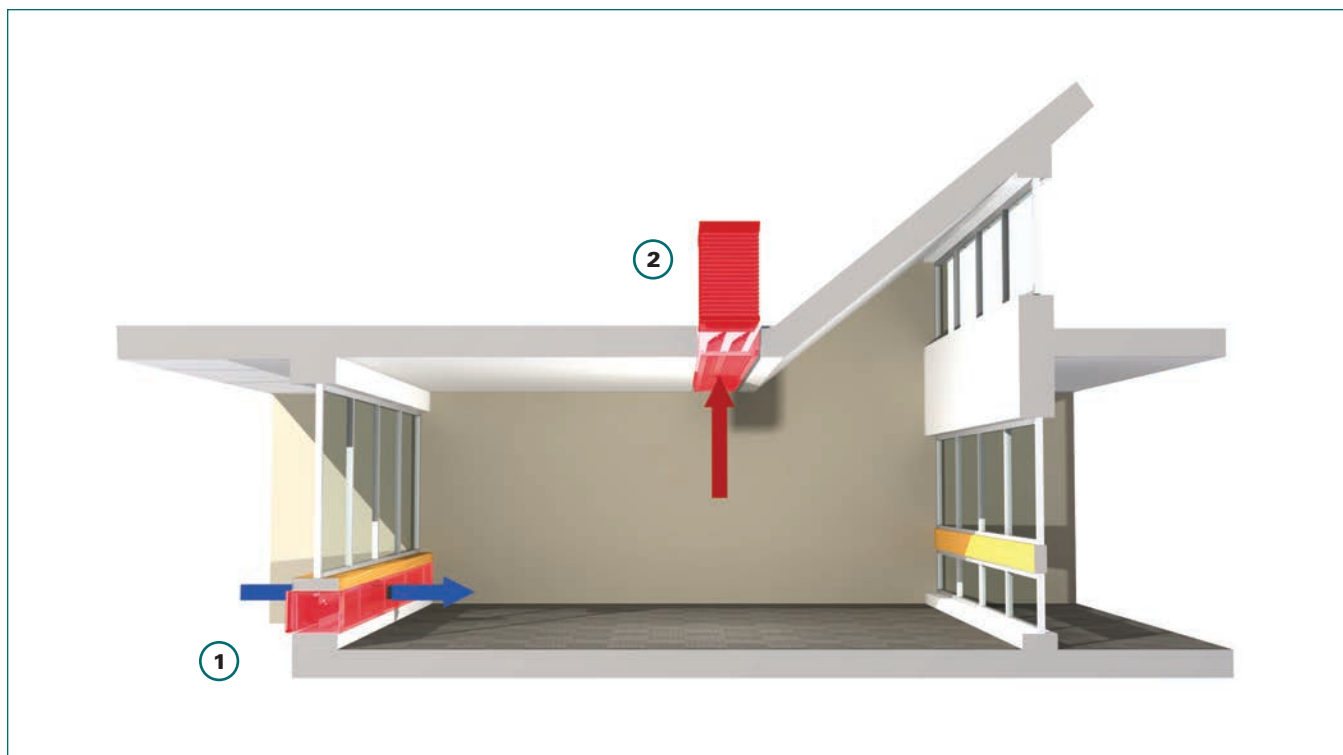
Product Overview

Models

Operable Wall Opening
Roof Mounted Natural Vent

NVT
NVE

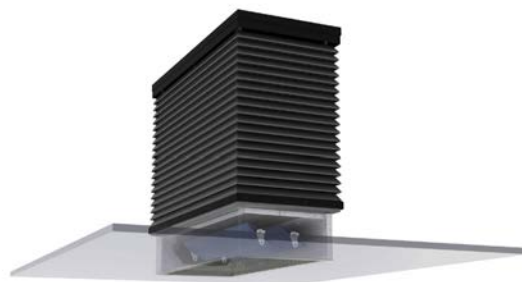
The natural ventilation operable openings are used in a natural upwards displacement strategy in summer cooling mode. These products are used to provide controlled openings in situations where an operable window or standard damper will not work.



1. NVT



2. NVE



NATURAL VENTILATION

Product Information / Dimensional Data

Models

Operable Wall Opening

NVT

The Price Natural Ventilation Terminal represents a unique and effective method for the control of naturally ventilated spaces. These engineered units, which could include an integrated louver, control damper, heater element and indoor grille face are designed to regulate the flow of air through the building envelope. The integral drainable louver is designed to provide a low pressure drop and minimize rain penetration. The control damper is provided with 0-10 VDC or 24VAC floating point control actuator and terminal block for field wiring. The unit is available with a copper tube/aluminum fin hot water element to temper incoming air to the appropriate temperature. The grille face provides a clean look to the natural ventilation terminal, hiding the internal components while minimizing pressure drop. Terminals are custom designed to suit the unique requirements of each application.

Features

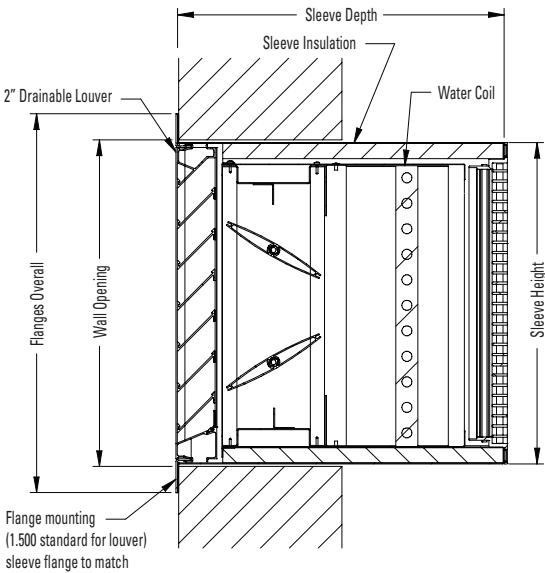
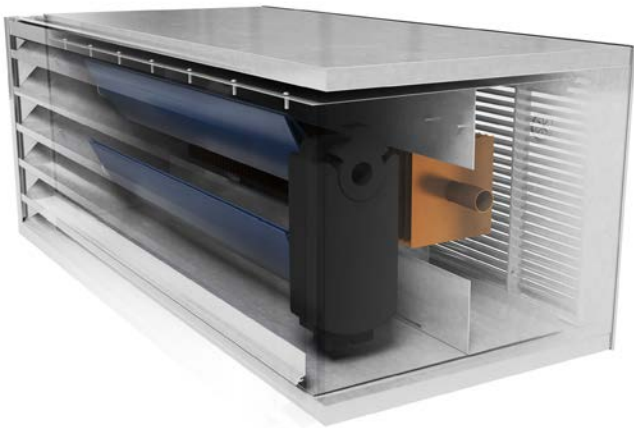
- 2" drainable louver
- Insulated low leakage damper with spring return modulating actuator
- Heavy duty grille construction
- Insulated sleeve
- Central control panel mounted remotely provides signals to all units to respond to environmental conditions

Options

- Bird/Bug screen
- Hot water heating element
- Condensate collection system
- Noise attenuation section
- Finish
 - Mill
 - B12
- Supply
- LBM / LBP series grille
- 520 / 620 series grille

System Options

- Supplemental Heat Control
- Indicator light for window operation
- Actuator signal for window operation
- Remotely located controller
- Can be used in conjunction with all natural ventilation systems:
 - Rectangular roof stack unit (NVR)
 - Square roof stack unit (NVS)
 - Wall unit air transfer units (NVA)
 - Facade mounted natural vent (NVF)
 - Roof mounted natural vent (NVE)



Dimensional Data - Imperial (Inches)

Sleeve Width	24 - 60
Sleeve Height	12 - 36
Sleeve Depth (Basic)	9
Sleeve Depth c/w Coil	14
Sleeve Depth c/w Attenuator	15
Sleeve Depth c/w Coil + Attenuator	20

Dimensional Data - Metric (mm)

Sleeve Width	610 - 1254
Sleeve Height	305 - 914
Sleeve Depth (Basic)	203
Sleeve Depth c/w Coil	356
Sleeve Depth c/w Attenuator	356
Sleeve Depth c/w Coil + Attenuator	508

Performance Data - Airflow

Configuration	Air Volume (fpm)			
	0.05 in. w.g.	0.10 in. w.g.	0.15 in. w.g.	C _d
Base Unit	179	253	310	0.200
Base + Coil	168	237	290	0.187
Base + Attenuator	153	217	266	0.171
Base + Attenuator + Coil	150	212	259	0.167

Performance Notes:

1. Base Unit includes Louver, Damper, and Grille
2. Equivalent area, A_e = C_d A

Performance Data - Attenuation

Configuration	Typical Attenuator Insertion Loss (dB)							
	63	125	250	500	1000	2000	4000	8000
Base Unit	7	10	6	8	10	11	12	12
Base + Attenuator	7	11	6	10	14	17	18	17

Performance Notes:

1. Obtained in accordance with ASTM E477-06a with unit installed at the end of the duct discharging into the reverberation room

Performance Data - Typical Heating Capacity

Size 12 x 36

Coil gpm	HD loss	Air Flow Rate, cfm			
		150	225	300	450
0.5	0.31	4059	4989	5707	6780
1	1.19	4423	5560	6476	7916
2	4.52	4636	5903	6951	8646

Size 16 x 36

Coil gpm	HD loss	Air Flow Rate, cfm			
		200	300	400	600
0.5	0.38	5061	6154	6982	8192
1	1.46	5608	6999	8108	9826
2	5.53	5932	7518	8819	10906

Size 16 x 36

Coil gpm	HD loss	Air Flow Rate, cfm			
		250	375	500	750
0.5	0.49	6143	7407	8348	9694
1	1.88	6923	8601	9925	11953
2	7.09	7391	9345	10941	13486

Performance Notes:

1. Tabulated values are in Btu/h
2. Tables are based on a temperature difference of 80°F (120°F entering water temperature and 40°F entering air temperature)
3. Minimum air and water flow values are based on ASHRAE recommendations for coil selections. For selections below these tabulated air or water values, please consult your local Price representative.
4. Do not select coils for a leaving air temperature above 120°F
5. HD (Head) loss is in feet of water.
6. Air temperature rise = ATR, ATR(°F) = 0.927 x Btu/h / cfm
7. Water temperature drop = WTD, WTD(°F) = 0.00204 x Btu/h/GPM
8. Values in tables are listed for 0 feet of altitude and no glycol in the system
9. For information outside the ranges used in the table consult your Price representative for accurate coil information.
10. Single Circuit Connections: 1/2" OD male solder