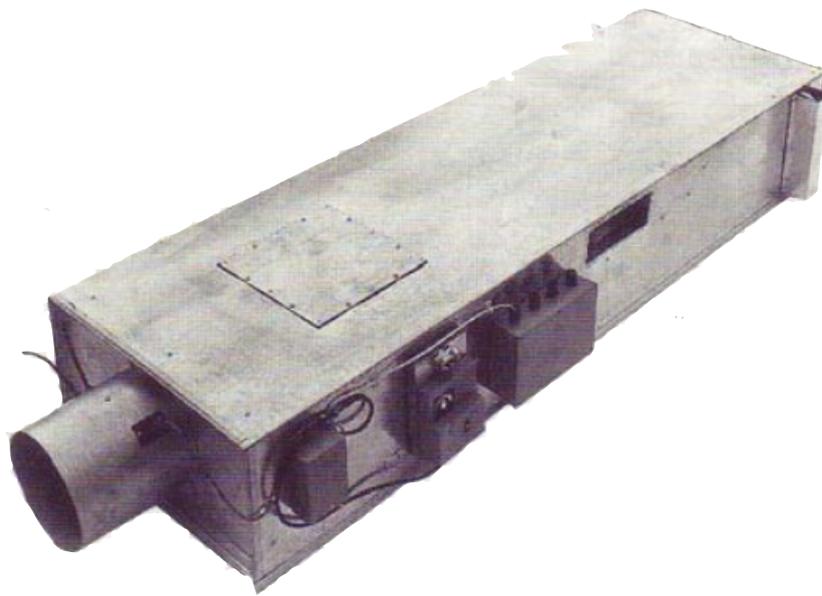


# Induction Air Terminals

## Model HN



**AIR IN MOTION**

### Model HN



Model HNPO



Model HNEW

The model HN induction air terminals are designed for use in low to medium pressure variable volume, single duct air distribution systems. In addition to regulating the primary air flow as a single duct throttling air terminal the primary air damper operation induces warm ceiling plenum air via the induction ports to provide the excellent air circulation characteristics normally associated with constant volume systems whilst retaining the energy efficiency of a VAV system.

The amount of primary air is determined by design air quantity settings (both maximum and minimum). Space thermostats position the primary air dampers to satisfy the space load. On full cooling, the primary air damper is open to provide maximum cool air with the induction of plenum air through the side ports at the minimum. On a decrease in room temperature, the primary air dampers start reducing the cool air flow which increases the air flow through the induction ports raising the total air and thus keeping the air change rate at a much higher level than can be achieved with a straight VAV system

In circumstances where heating demands cannot be satisfied with induced plenum air alone optional auxiliary heat may be added by the incorporation of hot water heating coils.

Terminal controls are electrically or pressure independent pneumatically operated.

The unique multipoint flow sensor measures primary air flow and compensates for changes in system pressure to keep the flow constant for any given space load. If there is a change in the space load, the stand-alone controller or BMS controller adjusts the 0-10 vdc output signal to reposition the damper actuator to reposition for a different primary air flow.

Using the NMV-D2M actuator the maximum and minimum or nominal air flow is factory set since the air flow is "independent" of the inlet pressure.

If future air volume adjustment is required our field services engineers can overwrite previous factory calibrated air flows. Our field staff use a notebook computer, interface equipment and digital manometer to reprogram the new data.

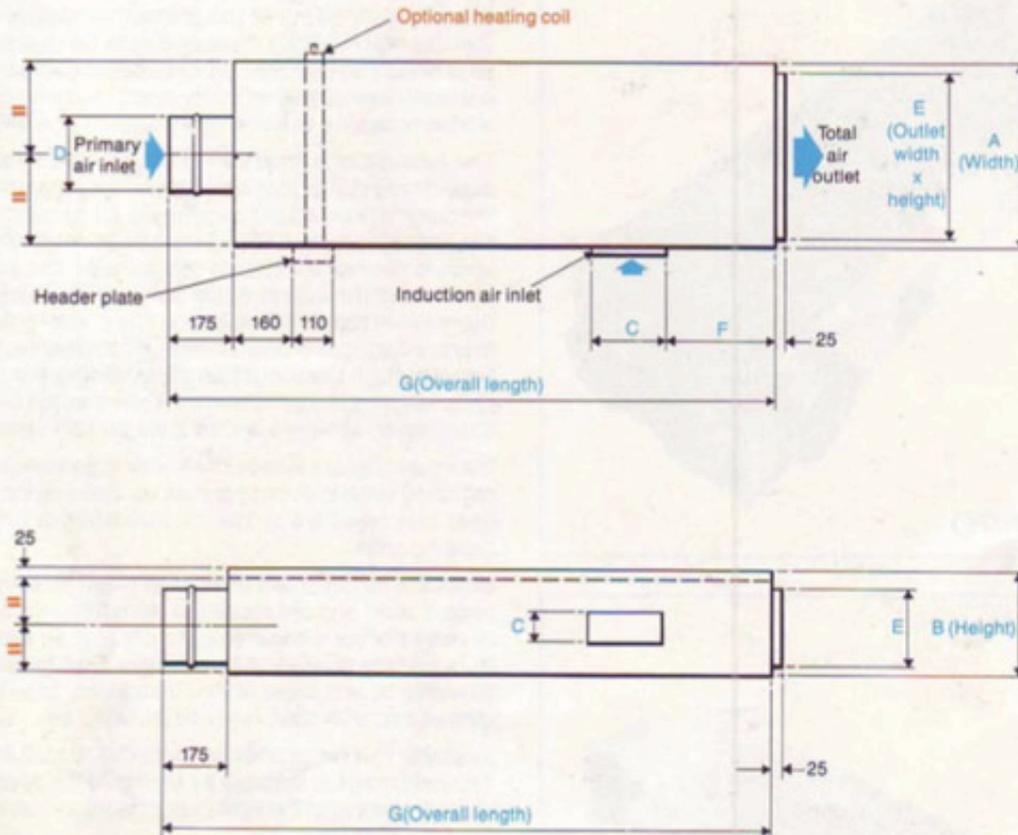
The HN range of units are constructed from high quality galvanised sheet steel. Internal surfaces are acoustically and thermally insulated with class "O" acoustic foams of various densities.

Available in a range of sizes from 0.070 to 0.800 m<sup>3</sup>/sec. The unit range is suitable as standard for pressure independent applications in ductwork systems up to 400 Pa static pressure. Units are electronically or pneumatically controlled to a standard range of control sequences, we can also factory fit free issue BMS control equipment. Please contact us for more details.



## Model HN

### Model HNOO (HNOW)



UNIT SIZE	DIMENSIONS mm							
	A	B	C	D	E	F	G	
							HNOO	HNOW
5	250	250	200 x 65	125 DIA.	198 x 173	300	1675	1675
6	400	250	200 x 65	150 DIA.	348 x 173	300	1675	1675
8	510	280	200 x 80	200 DIA.	445 x 203	270	1675	1675
10	610	330	270 x 120	250 DIA.	545 x 255	300	1875	1875
12	750	370	350 x 130	300 DIA.	685 x 295	300	1975	1975

#### NOTES

- Hot water coil is located as standard on the right hand side of the terminal when viewed in the direction of air flow.
- For removal of heating coil on site allow dimension A from table plus 150mm.
- Water coil connections extend to 75mm beyond the width of the air terminal cabinet.
- Control equipment is located as standard on the right hand side of the terminal when viewed in the direction of air flow.
- Dimensional data for secondary attenuators are shown on Page H40 and also under Section MN Page MN6.