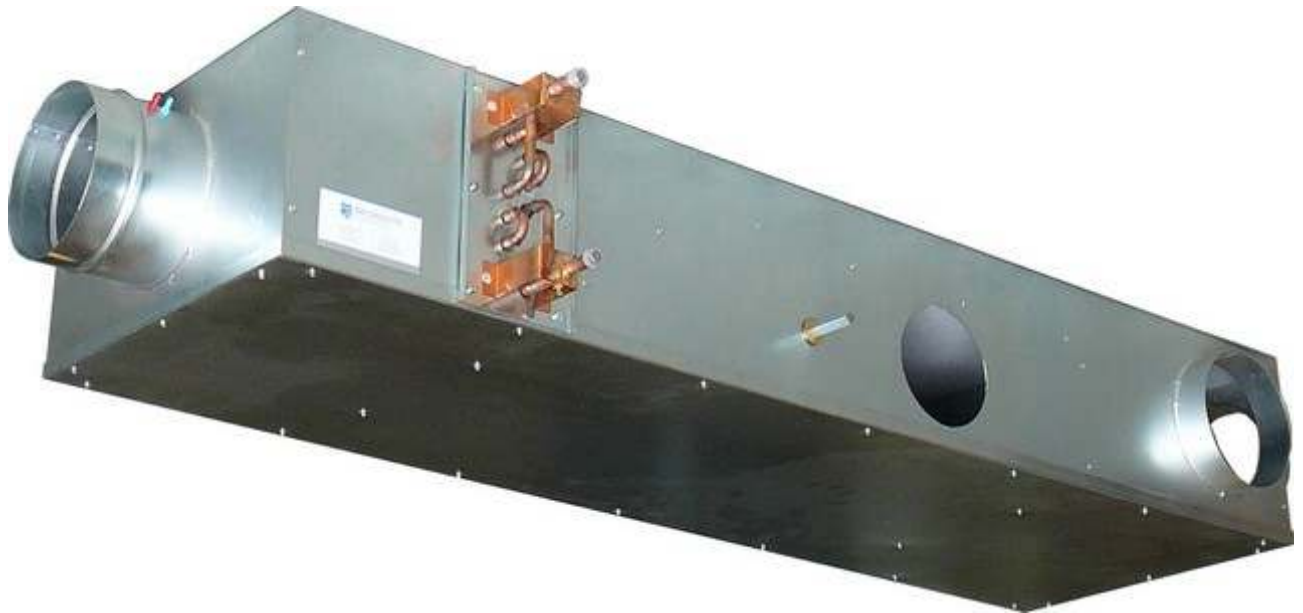


Induction VAV Terminals

VIN



AIR-CONCEPTS
air distribution products



Application

Induction-VAV terminals are used in VAV systems to improve human comfort and increase energy efficiency. The Vary-Jet™ damper controls the primary air volume similar as a regular VAV terminal, but at the same time, it creates a "venturi-effect" which induces room air into the terminal. The advantage is that the temperature difference between supply air and room air is reduced, which has a positive effect on the human comfort in the room. The induction of room air allows the terminal to turn down to 20% without risk of "cold air dumping", this increases the human comfort and reduces energy consumption and use of reheat.



Typical lay-out Induction-VAV system

Design features

Casing

- Ridged galvanised steel construction (1,2mm)
- Spigots comply with DIN 24145 or DIN 24146 ducts.
- Optional lip seals (factory-fitted) for easy and air tight mounting
- Air leakage flow complies with Class II, VDI 3803 or DIN V 24194, Part 2
- Insulation: thermal and acoustic, BS-476 Class "1" fire resistant.
- Optional insulation type BASOTECT®, thermal and acoustic, BS-476 Class "O" fire resistant
- Operating temperature 10 to 50°C
- Storage temperature 0 to 70°C
- Sound pressure levels <NC25 achievable

Air flow sensor

- Multi point averaging and amplifying sensor. The unique shape (patent pending) creates an amplified signal (at least $2.5 \times P_{dyn}$) with a very low pressure drop and noise level.

Vary-Jet™ damper

- The damper construction ensures precision control of the primary air volume. The aerofoil shape has been designed to have optimum "venturi-effect". The linkage mechanism is balanced for a minimum torque and is maintenance free.

Controls

- All controls fitted are pressure independent and factory calibrated.
- The unit can be supplied with analogue or DDC controls
- The unit can also be supplied with free issue controls from 3rd party



WARMWATER NAVERWARMINGSBATTERIJEN SELECTIE

Voor VAV units met rechthoekige uitlaat

Type HWQ 1-rij

Room temperature Primary air temperature			Summer season						Winter season			
			25 °C		23 °C		23 °C		22 °C		22 °C	
			11 °C		11 °C		13 °C		17 °C		19 °C	
Model	Air flow (l/s)		P _{sens.}	T _{supply}	P _{sens.}	T _{supply}	P _{sens.}	T _{supply}	P _{sens.}	T _{supply}	P _{sens.}	T _{supply}
	Prim.	Total	Watt	°C	Watt	°C	Watt	°C	Watt	°C	Watt	°C
125 (5")	25	56	432	18,7	371	17,6	309	18,5	154	19,8	93	20,7
	50	84	865	16,7	741	15,9	618	17,1	309	19,0	185	20,2
	75	107	1297	15,2	1112	14,6	926	16,0	463	18,5	278	19,9
	100	128	1729	14,0	1482	13,6	1235	15,2	618	18,1	371	19,6
	125	146	2161	13,0	1853	12,8	1544	14,5	772	17,7	463	19,4
	150	164	2594	12,2	2223	12,0	1853	13,9	926	17,4	556	19,3
160 (6")	40	90	692	18,8	593	17,7	494	18,5	247	19,8	148	20,7
	80	136	1383	16,7	1186	15,9	988	17,1	494	19,0	296	20,2
	120	173	2075	15,3	1778	14,7	1482	16,0	741	18,5	445	19,9
	160	205	2766	14,1	2371	13,6	1976	15,2	988	18,1	593	19,7
	200	235	3458	13,1	2964	12,8	2470	14,5	1235	17,7	741	19,4
	240	264	4150	12,3	3557	12,1	2964	13,9	1482	17,5	889	19,3
200 (8")	60	136	1037	18,8	889	17,7	741	18,6	371	19,8	222	20,7
	120	206	2075	16,9	1778	16,0	1482	17,2	741	19,1	445	20,3
	180	262	3112	15,4	2668	14,8	2223	16,1	1112	18,6	667	19,9
	240	312	4150	14,2	3557	13,8	2964	15,3	1482	18,1	889	19,7
	300	357	5187	13,2	4446	12,9	3705	14,6	1853	17,8	1112	19,5
	360	401	6224	12,4	5335	12,2	4446	14,0	2223	17,5	1334	19,3
250 (10")	100	222	1729	18,7	1482	17,6	1235	18,5	618	19,8	371	20,7
	200	336	3458	16,7	2964	15,9	2470	17,0	1235	19,0	741	20,2
	300	427	5187	15,2	4446	14,6	3705	16,0	1853	18,5	1112	19,9
	400	508	6916	14,0	5928	13,5	4940	15,1	2470	18,1	1482	19,6
	500	583	8645	13,0	7410	12,7	6175	14,4	3088	17,7	1853	19,4
	600	654	10374	12,2	8892	12,0	7410	13,8	3705	17,4	2223	19,2
315 (12")	125	288	2161	18,9	1853	17,8	1544	18,7	772	19,8	463	20,7
	250	435	4323	17,0	3705	16,1	3088	17,3	1544	19,1	926	20,3
	375	553	6484	15,5	5558	14,9	4631	16,2	2316	18,6	1389	20,0
	500	657	8645	14,3	7410	13,9	6175	15,4	3088	18,2	1853	19,7
	625	753	10806	13,4	9263	13,0	7719	14,7	3859	17,8	2316	19,5
	750	844	12968	12,6	11115	12,3	9263	14,1	4631	17,6	2779	19,3
355 (14")	150	344	2594	18,9	2223	17,8	1853	18,6	926	19,8	556	20,7
	300	521	5187	16,9	4446	16,1	3705	17,2	1853	19,1	1112	20,3
	450	662	7781	15,5	6669	14,8	5558	16,2	2779	18,6	1667	20,0
	600	786	10374	14,3	8892	13,8	7410	15,4	3705	18,2	2223	19,7
	750	901	12968	13,3	11115	13,0	9263	14,7	4631	17,8	2779	19,5
	900	1011	15561	12,5	13338	12,3	11115	14,1	5558	17,5	3335	19,3



VIN - M - S - 2 - 160 - R

Type

Inlet

Standard -

Outlet

Standard, rectangular -
Multiple outlet -
Multiple outlet with VCD -
Hotel room application -

Handing

Model

- Right hand side
 - Left hand side

Heat exchanger

- None
 - 1-row
 - 2-row
 - 4-row
 - Electric reheat coil

