HCV – Selection Code and Specification

Model Number Key

HCV	X	X	X	X	X	X	XXX
	CONTROLLER MAKE.	CONTROL TYPE AND ACTION. COLD DECK.	HEATING COIL.	ATTENUATOR.	INLET:	OUTLET ADAPTER.	CASE SIZE.
Model: Pressure Independent VAV Assembly.	1 Siemens. 2 Honeywell. 3 Alerton. 4 Belimo. 5 KMC. 6 Delta. 7 Schneider Electric. 8 CSI. 9 Other Manufacturers (Please Specify).	0 None. 1 Pneumatic. 2 Electronic.	0 None. 1 1 Row HW. 2 2 Row HW. 3 Electric**. 9 Special.	0 None. 1 Attenuator. 9 Special.	C Circular. S Square.	0 None. 1 Round (undampered). 2 Multiple (dampered). 9 Special.	100 125 150 175 200 225 250 300 350 400 600 x 400

** Seperately schedule voltage, phases, kW & stages.

Suggested Specifications

Variable air volume air distribution assemblies shall be Holyoake Series HCV supplied with, or without controls and matching factory furnished accessories (electric heater, HW reheat coils, attenuators, outlet adapters) as shown elsewhere in this specification, or on the drawings. They shall be pressure independent and shall be capable of temperature controlled velocity re-set between zero and the maximum catalogued air flow.

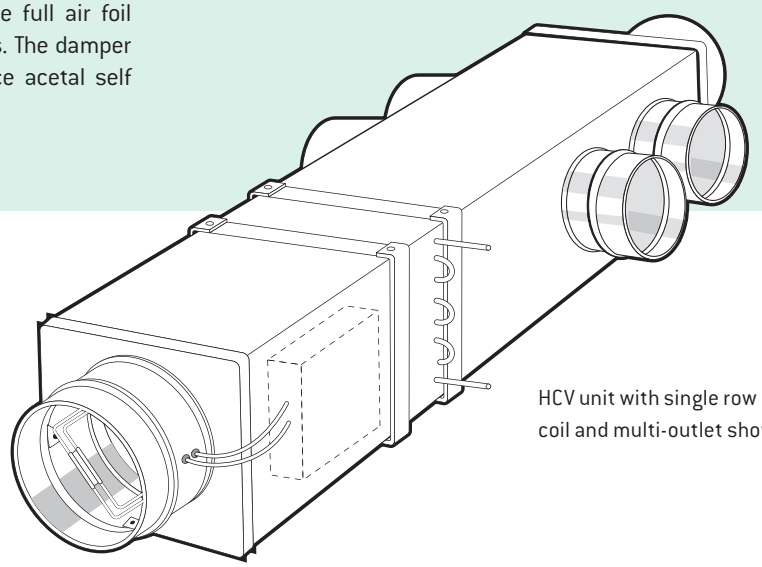
At an inlet velocity of 10 m/s, the differential static pressure for any size shall not exceed 37 Pa for the basic unit. Each assembly shall be constructed to minimise noise generation and shall not exceed NC... at...Pa inlet static pressure.

Basic assemblies shall consist of a casing insulated with 25mm non-woven acoustic polyester insulation and constructed of 0.75 galvanised steel. The controlling damper shall have full air foil extruded aluminium blades with inflating edge seals. The damper shafts shall be stainless steel, pivoted in two piece acetal self lubricating bearings locked in place, with locating ribs.

The combined leakage of the closed damper and the high pressure casing shall not exceed 2% of maximum rated flow at 750 Pa inlet static pressure.

Assemblies shall be furnished with flow averaging Δp velocity sensors of the PDI type, as manufactured by Holyoake. Single point electronic sensors are not acceptable.

Each flow sensor shall be furnished with capped Tees for independent site measurement of Δp. Each sensor shall be provided with a label showing its formula for flow calculation. Such calculated air flow shall be within ±5% of actual, provided inlet connections are in non-deforming rigid, or semi rigid duct of the same size as the assembly inlet, irrespective of inlet angles from zero to 90°.



HCV unit with single row hot water coil and multi-outlet shown.

Due to a policy of continuous development and improvement the right is reserved to supply products which may differ slightly from those illustrated and described in this publication.