

Caspian® UVC

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The Caspian UVC fan convector was developed for recessed or concealed heating projects and is suitable for high, low or ceiling concealed installations, can even be turned upside down

Compatible with two pipe heating systems and any commercial or domestic air source heat pump project, the Caspian UVC has four different main accessories. They function together in any combination to create the recessed or concealed heating solution required, depending on the project specification

Caspian UVC is compatible with most types of wet central heating systems, functioning equally efficiently with conventional boilers, biomass technology or ground or air source heat pumps

Available with [Smart Control](#)



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Issue 012 | September 2025

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Smith's
A Swan Group Company

Product Information

Motor
EC (BMS compliant).

Finish
Casing: galvanised steel 1.2mm.

Filter
Class G2, 100% polyester, non-washable.

Installation
Suitable for two-pipe central heating systems.
Unit must be earthed.
Access should be provided for servicing.

Commissioning
Check water is hot enough to activate the low temperature cut-out thermostat.

Controls
See accessories table.

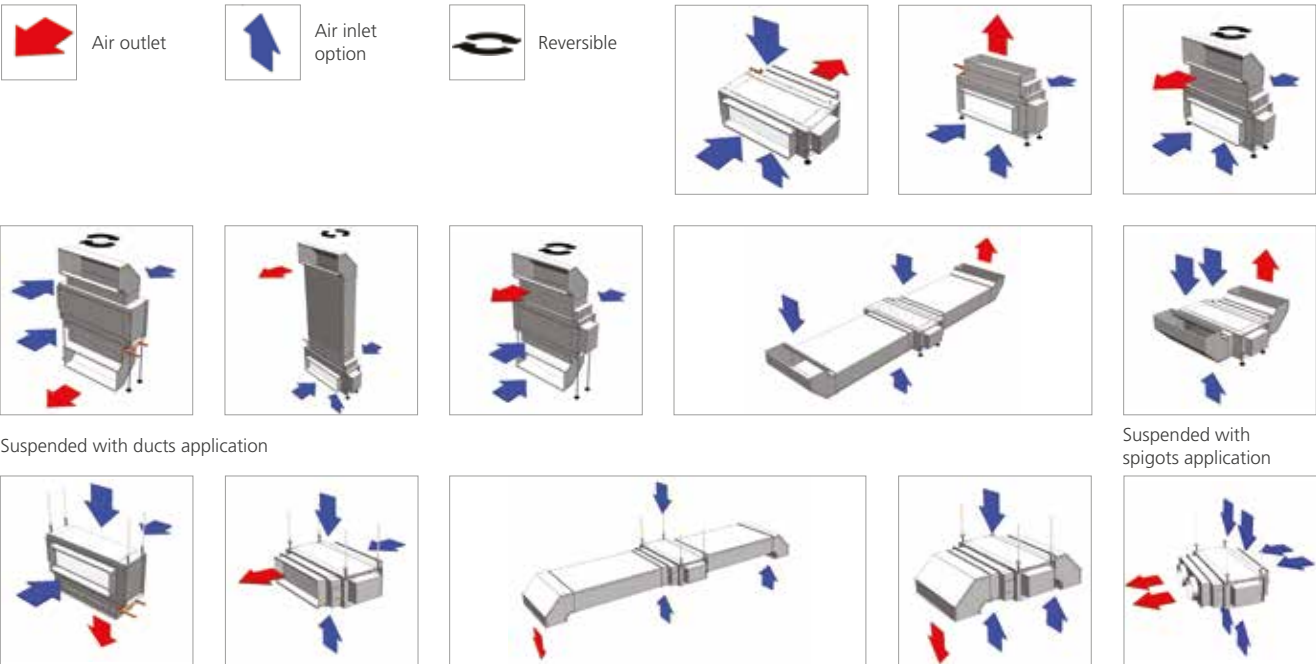
Accessories
White powder-coated steel inlet/outlet grille.
Anodised aluminium air inlet/outlet grille.
90°C cranked air inlet/outlet duct.
1m adjustable straight air inlet/outlet extension duct.
Circular spigot air inlet/outlet duct.

Specification
To specify state:
A concealed fan convector for universal mounting with variable heat output controller.
As Smith's Caspian UVC 60, 90, 120, 150, 180.

Floor Mounted Applications

The Caspian UVC can be installed either on or behind walls at high and low level, in ceiling voids and on or under floors.

Detailed below are a number of application options than can be achieved with the Caspian UVC and Accessories. If in doubt please contact us.



Technical Data

Heat output - EC

Model Reference	Fan Speed	Control Voltage VDC	40°C MWT	45°C MWT	50°C MWT	55°C MWT	60°C MWT	65°C MWT	70°C MWT	75°C MWT	80°C MWT
EC 60	Low	2.4	0.85	1.20	1.55	1.96	2.37	2.78	3.19	3.61	4.02
	Mid	3.7	1.13	1.62	2.10	2.58	3.06	3.55	4.03	4.51	5.00
	High	5.8	1.47	2.05	2.63	3.21	3.79	4.36	4.94	5.52	6.10
EC 90	Low	2.1	1.98	2.55	3.11	3.67	4.24	4.80	5.37	5.93	6.50
	Mid	3.5	2.80	3.58	4.36	5.14	5.91	6.69	7.47	8.25	9.03
	High	5.5	3.68	4.65	5.62	6.59	7.55	8.52	9.49	10.46	11.42
EC 120	Low	1.8	3.03	3.61	4.19	4.78	5.36	5.94	6.53	7.11	7.69
	Mid	3.3	3.91	4.87	5.82	6.78	7.74	8.70	9.65	10.61	11.57
	High	5.1	4.84	6.00	7.17	8.33	9.49	10.66	11.82	12.99	14.15
EC 150	Low	1.8	3.59	4.57	5.55	6.53	7.51	8.49	9.47	10.45	11.44
	Mid	2.6	4.77	6.10	7.43	8.76	10.08	11.41	12.74	14.07	15.39
	High	3.9	6.47	7.71	8.96	10.21	11.45	12.70	13.94	15.19	16.43
EC 180	Low	1.8	4.69	5.92	7.15	8.39	9.62	10.85	12.08	13.31	14.55
	Mid	2.7	4.93	7.15	9.38	11.60	13.82	16.05	18.27	20.49	22.72
	High	4.1	7.90	9.74	11.58	13.42	15.27	17.11	18.95	20.79	22.63

Model Reference	Fan Speed	Air Volume (m³/h)	Air Volume (l/s)	Specific Fan Power w/l/s	Power Consumption (W)	NR in typical room*	Hydraulic Resistance (KPA)	Nominal Weight (KG)	Water Capacity (L)
EC 60	Low	201.00	55.90	0.14	6.8	34.00	1.38	24.00	0.92
	Mid	290.50	80.75	0.26	13.6	41.50	1.69		
	High	380.00	105.60	0.32	27.3	49.50	2.00		
EC 90	Low	297.00	80.75	0.20	10.6	34.00	4.70	36.00	1.50
	Mid	450.50	124.38	0.34	24.8	41.50	5.85		
	High	604.00	168.00	0.40	50.6	49.97	7.00		
EC 120	Low	419.30	116.50	0.14	9.4	34.00	17.78	44.00	2.08
	Mid	549.65	152.68	0.26	22.8	42.00	20.59		
	High	680.00	188.89	0.34	45.2	49.96	23.40		
EC 150	Low	459.80	127.72	0.17	14.1	34.70	22.23	60.00	2.58
	Mid	598.10	166.14	0.35	24.6	41.50	29.46		
	High	736.40	205.56	0.47	43.2	49.38	36.69		
EC 180	Low	542.00	150.56	0.19	18.8	34.90	47.83	78.00	3.18
	Mid	690.00	191.67	0.40	35.2	41.50	60.76		
	High	838.00	232.78	0.55	62.4	49.00	73.70		

*a typical room is taken as a room with a volume of 173m³ and a reverberation time of 0.8 seconds at 500 Hz with one unit installed, situated against a wall or ceiling (radiating noise in a quartersphere). No allowance is made for attenuation provided by ceilings, enclosures or ductwork. Outputs based upon testing at EN442: 2014 using mean water temperature and an entering air temperature of 20°C with a 10°C temperature drop between flow and return.

Correction factors

Mean Water Temp °C		45 - 80			
Water Temperature drop °C		5	10	15	20
Entering Air Temperature °C	15	1.13	1.10	1.07	1.05
	18	1.08	1.05	1.02	0.99
	20	1.04	1.00	0.95	0.89
	25	0.93	0.91	0.89	0.86

How to calculate Mean Water Temperature

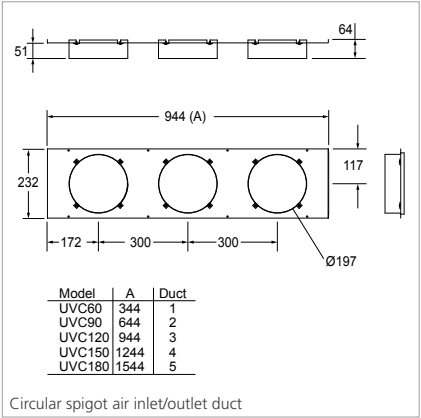
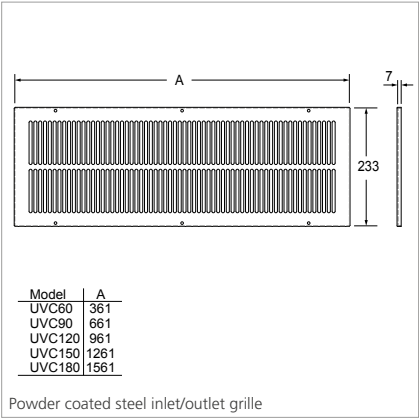
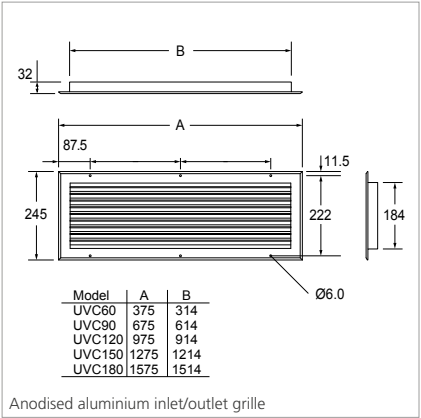
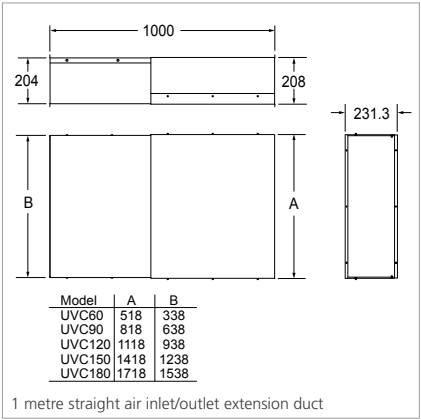
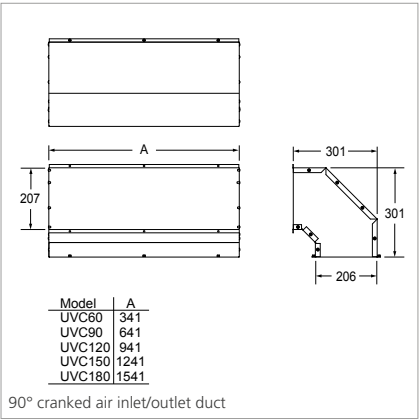
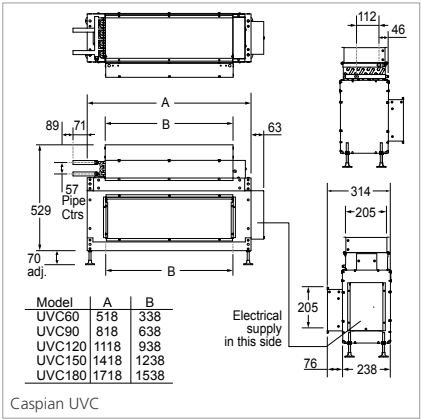
Mean water temperature (ΔT)

Flow temperature + Return temperature

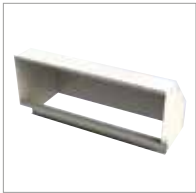
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Factors are approximate data based upon a standard coil.

Dimensions



Accessories



90° cranked air inlet/outlet



1m adjustable straight air inlet/outlet extension duct



Anodised aluminium inlet/outlet grille



Powder-coated steel inlet/outlet grille



Circular spigot inlet/outlet grille

Ordering Guide

Model	Packed Wt (kg)	Product Codes	Accessories	Product Codes
CASPIAN UVC 60 EC	24	HPCA26001	CASPIAN UVC 60 1M ADJUSTABLE STRAIGHT AIR INLET/OUTLET EXTENSION DUCT	HACA33016
CASPIAN UVC 90 EC	36	HPCA26002	CASPIAN UVC 90 1M ADJUSTABLE STRAIGHT AIR INLET/OUTLET EXTENSION DUCT	HACA33017
CASPIAN UVC 120 EC	44	HPCA26003	CASPIAN UVC 120 1M ADJUSTABLE STRAIGHT AIR INLET/OUTLET EXTENSION DUCT	HACA33018
CASPIAN UVC 150 EC	60	HPCA26004	CASPIAN UVC 150 1M ADJUSTABLE STRAIGHT AIR INLET/OUTLET EXTENSION DUCT	HACA33019
CASPIAN UVC 180 EC	78	HPCA26005	CASPIAN UVC 180 1M ADJUSTABLE STRAIGHT AIR INLET/OUTLET EXTENSION DUCT	HACA33020
			CASPIAN UVC 60 90° CRANKED AIR INLET/OUTLET DUCT	HACA33011
			CASPIAN UVC 90 90° CRANKED AIR INLET/OUTLET DUCT	HACA33012
			CASPIAN UVC 120 90° CRANKED AIR INLET/OUTLET DUCT	HACA33013
			CASPIAN UVC 150 90° CRANKED AIR INLET/OUTLET DUCT	HACA33014
			CASPIAN UVC 180 90° CRANKED AIR INLET/OUTLET DUCT	HACA33015
			CASPIAN UVC 60 CIRCULAR SPIGOT (200MM X 1) AIR INLET/OUTLET DUCT	HACA33021
			CASPIAN UVC 90 CIRCULAR SPIGOT (200MM X 2) AIR INLET/OUTLET DUCT	HACA33022
			CASPIAN UVC 120 CIRCULAR SPIGOT (200MM X 3) AIR INLET/OUTLET DUCT	HACA33023
			CASPIAN UVC 150 CIRCULAR SPIGOT (200MM X 4) AIR INLET/OUTLET DUCT	HACA33024
			CASPIAN UVC 180 CIRCULAR SPIGOT (200MM X 5) AIR INLET/OUTLET DUCT	HACA33025
			CASPIAN UVC 60 INLET/OUTLET GRILLE ANODISED ALUMINIUM	HACA33031
			CASPIAN UVC 90 INLET/OUTLET GRILLE ANODISED ALUMINIUM	HACA33032
			CASPIAN UVC 120 INLET/OUTLET GRILLE ANODISED ALUMINIUM	HACA33033
			CASPIAN UVC 150 INLET/OUTLET GRILLE ANODISED ALUMINIUM	HACA33034
			CASPIAN UVC 180 INLET/OUTLET GRILLE ANODISED ALUMINIUM	HACA33035
			CASPIAN UVC 60 INLET/OUTLET GRILLE POWDER COATED WHITE	HACA33026
			CASPIAN UVC 90 INLET/OUTLET GRILLE POWDER COATED WHITE	HACA33027
			CASPIAN UVC 120 INLET/OUTLET GRILLE POWDER COATED WHITE	HACA33028
			CASPIAN UVC 150 INLET/OUTLET GRILLE POWDER COATED WHITE	HACA33029
			CASPIAN UVC 180 INLET/OUTLET GRILLE POWDER COATED WHITE	HACA33030
			FLEXIBLE HOSES 22MM PAIR	HAGA95003
			ROOM THERMOSTAT HARD WIRED	HAGA95001
			ROOM THERMOSTAT TAMPER PROOF	HAGA95004
			CASPIAN PROPORTIONAL HEAT OUTPUT CONTROLLER 15°-25° INTEGRAL (EC)	HACA33005
			CASPIAN PROPORTIONAL HEAT OUTPUT CONTROLLER 15°-25° REMOTE SENSOR (EC)	HACA33037
			CASPIAN PROPORTIONAL HEAT OUTPUT CONTROLLER 11°-21° INTEGRAL (EC)	HACA33117
			CASPIAN PROPORTIONAL HEAT OUTPUT CONTROLLER 11°-21° REMOTE SENSOR (EC)	HACA33118
			BLANK CONFIGURABLE PROPORTIONAL HEAT OUTPUT CONTROLLER (PROGRAMMED AT FACTORY)	HACA33126
			CASPIAN ADJUSTABLE LOW TEMPERATURE CUT-OUT	HACA33001
			CASPIAN EXTERNAL CONTROL HARNESS (EC)	HACA33004
			CASPIAN EC LINKING KIT (MASTER/S�AVE)	HACA33068
			CASPIAN REMOTE SWITCHING ON/OFF RELAY (24V AC COIL)	HACA33127
			CASPIAN EC THERMOSTAT (T1) & AUTO-SPEED CONTROL (T2) C/W CIRCUIT	HACA33039
			CASPIAN THERMOSTAT (T1) (EC LOW LEVEL)	HACA33002
			CASPIAN EC AUTO-SPEED CONTROL (T2) C/W CIRCUIT BOARD	HACA33038