

# TECHNICAL BROCHURE

ultraviolet air sterilisation systems

MOBILE

CEILING JET

DUCT MOUNTED

A large, stylized sun graphic in the background, composed of a large circle and several triangular rays extending outwards. The sun is rendered in a light purple color.

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# UV - MOBILE

portable air sterilisation systems

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## Portable Air Sterilisation Unit



ultra-clean air from Mansfield Pollard

Mansfield Pollard, Edward House, Parry Lane, Bradford BD4 8TL

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E: [salesteam@mansfieldpollard.co.uk](mailto:salesteam@mansfieldpollard.co.uk)

- A UVent mobile unit provides a practical but aesthetic sterilisation unit suitable for both commercial and medical applications.

- This effective sterilisation unit maximises use of a minimum air quantity to affect the greatest room area and as such is capable of servicing areas up to **80 cu metres approx.**

- The basic unit comes complete with a fixed speed fan setting with manual over-ride for 'boost' fan room purging.

- For varying automatic sterilisation control a pre-programmed logic processor can be incorporated into the unit at additional cost.



- The unit is designed with easy top access for tube and reflector replacement with fan, filter and controls accessed from the base.

Technical details	
<i>Dimensions W x D x H (mm)</i>	400 x 400 (base footprint) x 880
<i>Weight</i>	20 kg
<i>Fan</i>	Direct drive, rotor motor, forward curve DIDW centrifugal fan with sealed bearings
<i>Power supply</i> (Unit provided with 2.0m flying lead only.)	220 - 240 AC / 50 Hz / 1 phase
<i>Tube replacement</i>	<b>9,000 hrs</b>
<i>Visual "Lamp fail" system</i>	Included
<i>Removable foam filter (mm)</i>	210 x 340 x 12
<i>Optimum room size</i>	<b>50-80 cu m approx</b>
<i>Finish (visible-surface only)</i>	White polyester gloss (RAL 9003) <b>stainless steel option</b>

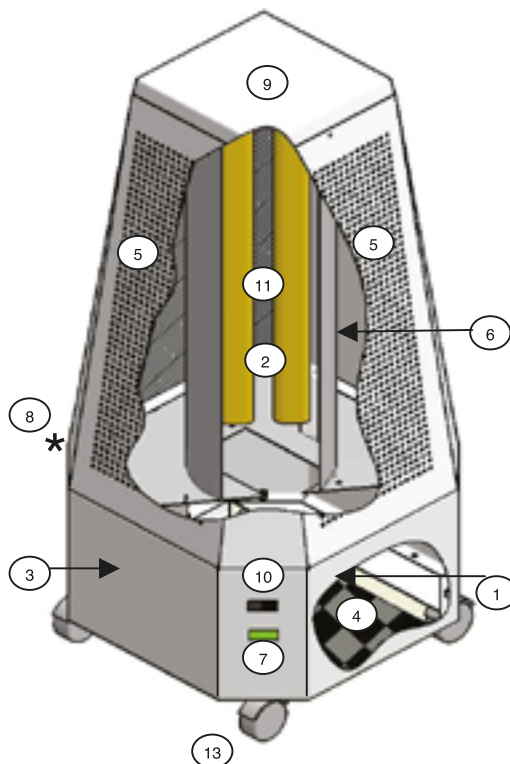
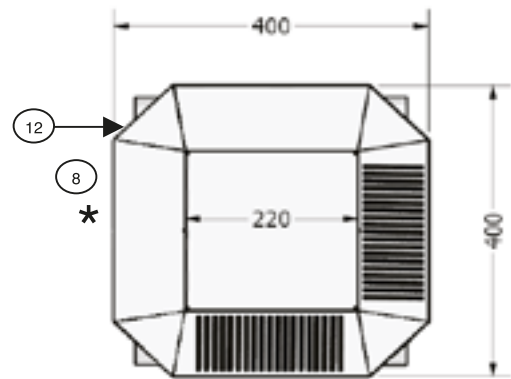
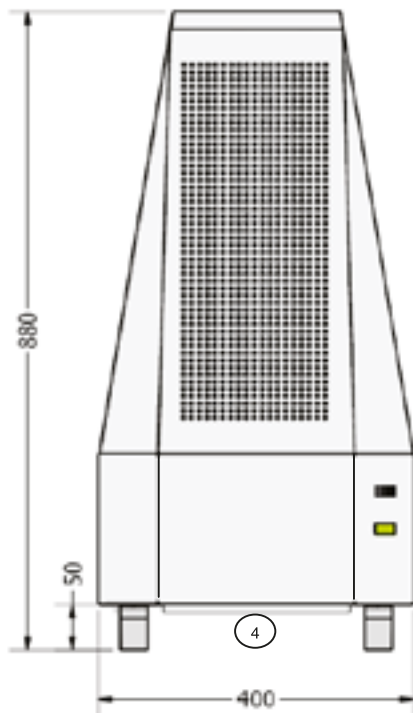
Settings	Air volume m <sup>3</sup> /s (CFM)	dBA	Amps	Watts
Standard (Factory setting)	<b>0.05 (106)</b>	40	1.16	270
Boost (option)	<b>0.10 (212)</b>	<b>53.6</b>	1.28	288

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- 1) Fan (Not shown for clarity)
- 2) 2 N° UV Lamps (Including supports)
- 3) Removable Controls (Access from u/s)
- 4) Return Air Filter Pad (Access from u/s)
- 5) Perforated Supply Air Grille
- 6) Acoustic Insulation
- 7) Visual Indicator Light
- 8) Electrical Flying Lead (2.0 m)
- 9) Removable Top Access Cap
- 10) On/Off and Fan Boost Switch
- 11) Replacement Anacoil Reflector (Omitted from diagram for clarity)
- 12) Hours-Run Indicator
- 13) Castors

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# UV - CEILING JET

room canopy air sterilisation unit

# UV - CEILING JET

## Room Canopy Air Sterilisation Unit



ultra-clean air from Mansfield Pollard

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E: [salesteam@mansfieldpollard.co.uk](mailto:salesteam@mansfieldpollard.co.uk)

- The UVent Ceiling Jet unit is a compact ultra-violet sterilisation unit providing non-obtrusive air distribution suitable for both commercial and medical applications.

- Sized to replace a single ceiling tile, this quiet recirculation unit sterilises a variable air volume to suit the specific room requirements.

- Using latest air discharge technology, the cassette maximises use of the minimum air quantity to affect the greatest room area.

- The basic unit comes complete with a fixed speed fan setting with remote key-fob 'on-off' over-ride for 'boost' fan room purging.

- For varying automatic sterilisation control a pre-programmed logic processor can be incorporated into the unit at additional cost.

- This multi-tasking integral controller provides variable speed operation at designated times to suit the given environment.

- A dedicated volt-free plug is provided to allow connection to an external monitoring circuit.



### Technical details

<i>Dimensions W x D x H (mm)</i>	595 x 595 x 345 High
<i>Weight</i>	30 kg
<i>Fan</i>	In-line backward curve fan c/w plastic impellor and EC rotor motor with integrated electronic controls
<i>Power supply (Unit provided with 2.0m flying lead only.)</i>	220 - 240 AC / 50 Hz / 1 phase
<i>Tube replacement</i>	<b>9,000 hrs</b>
<i>Visual "Lamp fail" system</i>	Included
<i>Removable foam filter (mm)</i>	550 x 220 x 12
<i>Optimum room size</i>	50-80 cu m approx
<i>Finish (visible-surface only)</i>	White polyester gloss (RAL 9003)

Settings	Air volume m <sup>3</sup> /s (CFM)	dBA	Amps	Watts
Standard (Factory setting)	<b>0.05 (106)</b>	40	0.78	180
Boost (option)	<b>0.10 (212)</b>	<b>53.6</b>	0.84	230

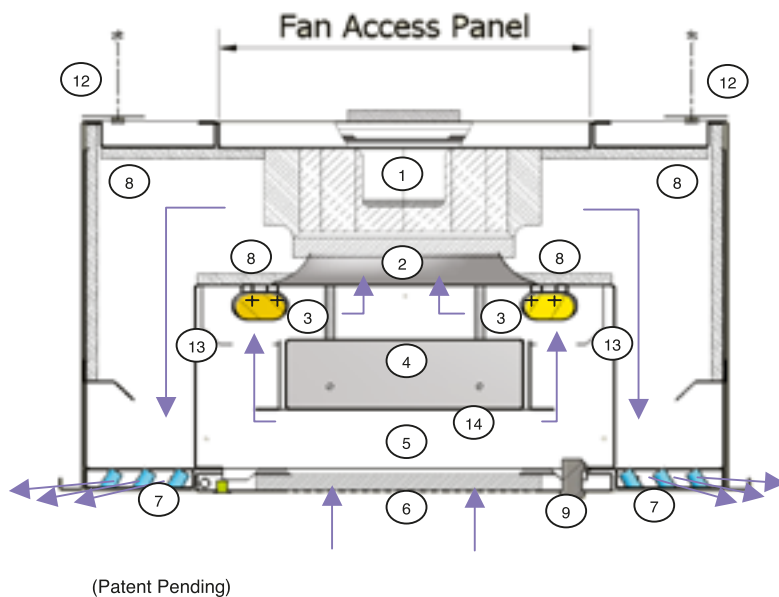
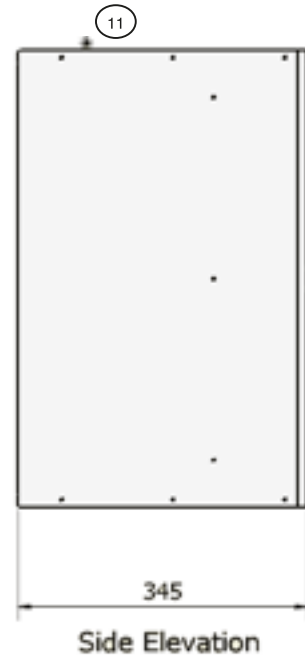
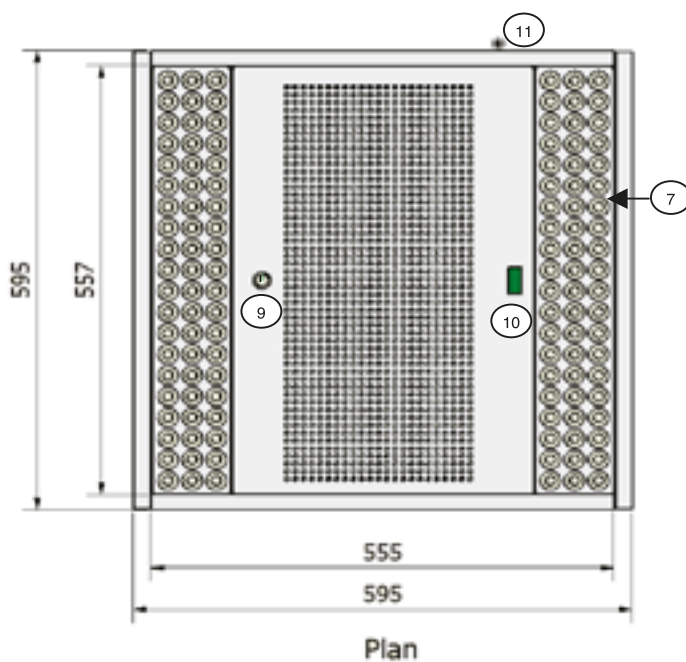
(Patent Pending)

# UV - CEILING JET

Room Canopy Air Sterilisation Unit



ultra-clean air from Mansfield Pollard



- 1) Fan
- 2) Inlet Cone
- 3) UV Lamps
- 4) Removable Control Box
- 5) Filter Pad
- 6) Perforated Return Air Grille (Hinged)
- 7) Supply Jet Nozzles
- 8) Acoustic Insulation
- 9) Security Lock
- 10) Visual Indicator
- 11) Electrical Flying Lead (2.0 m)
- 12) Corner Suspension Points (4 N° x M6 - hangers by others)
- 13) Replaceable Anacoil Reflector (2 N°)
- 14) Hours-Run Indicator

A large, stylized sun graphic in the background, featuring a large circle and several long, thin rays extending outwards. The sun is rendered in a light purple color.

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## UV - DUCT MOUNTED

system integrated air sterilisation unit



**UVent**

ultra-clean air from Mansfield Pollard



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- Our range of duct mounted sterilisation units are the most powerful and flexible on the market today. They can be used for low, medium and high risk medical situations as well as any general commercial applications
- Performance backed by extensive scientific testing with verifiable results.
- The units are specifically designed to serve any airflow duty of airflow ranging from 0.15m<sup>3</sup>/s through to 12.6m<sup>3</sup>/s and beyond.
- With options for single and double lamp racks ensures the most effective microbiological destruction zone with the internal reflective surfaces adding further to the impressive single-pass performance.
- For total design flexibility all models are fully scalable and capable of pairing up to accommodate most given air volumes without compromising on sterilisation efficiency an increase in air volume through (in parallel) or performance (in series).
- Manufactured to exacting standards, the outer case is fabricated from 1.0mm thick galvanised sheet steel, epoxy polyester treated with aluminium anacoil internal liner and stainless steel lamp brackets and controls base.
- The units come with a visual lamp monitoring system to facilitate easy identification and replacement of faulty lamps. A dedicated volt-free plug is provided to allow connection to an external monitoring circuit. Multi control options including wall mounted control panel and link to suitable BMS.
- The whole control module and integral lamp rack is fully demountable to facilitate remote repairs and further creates an extensive opening for ease with cleaning of internal surfaces during maintenance periods.
- For maximum safety, automatic electrical isolation is activated when accessing the controls and lamps.

# UV - DUCT MOUNTED

System integrated Air Sterilisation Unit



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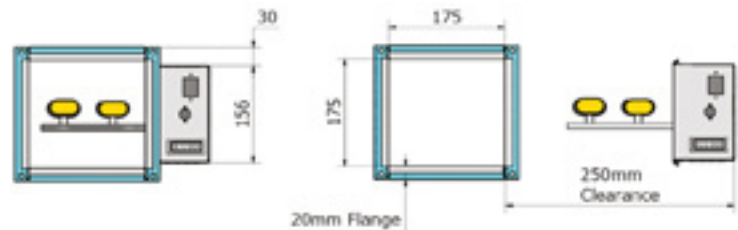
**Air Volume  
(up to)**  
**Pressure  
Drop**  
**0.15m<sup>3</sup>/s @15Pa**

Technical details	
Dimensions W x H x L (mm)	175 x 175 x 750
Weight	10 kg
Power input	170 Watts
Power supply (Unit provided with 2.0m flying lead only.)	220 - 240 AC / 50 Hz / 1 phase
Tube replacement	13,000 hrs maximum
Air Volume*	0.15 m <sup>3</sup> /s (318 CFM) @ 15 Pa
Visual "Lamp fail" system	Included
Finish (visible-surfaces only)	Wedgewood Blue (BS 18C 37 Matt)
MRSA	99.99%

Important! The operation of this unit must be inter-locked with the airflow such that in the event of 'airflow failure' the unit will automatically switch off to protect the lamps.

\* Maximum air volume for guaranteed performance.

For maximum air volumes of 0.3 m<sup>3</sup>/s pair two of these units, above that refer to next model



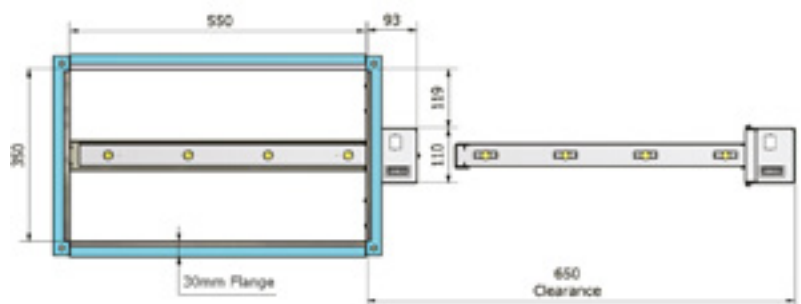
**Air Volume  
(up to)**  
**Pressure  
Drop**  
**0.8m<sup>3</sup>/s @18Pa**

Technical details	
Dimensions W x H x L (mm)	550 x 350 x 1200
Weight	35 kg
Power input	280 Watts
Power supply (Unit provided with 2.0m flying lead only.)	220 - 240 AC / 50 Hz / 1 phase
Tube replacement	13,000 hrs maximum
Air Volume *	0.8 m <sup>3</sup> /s (1695 CFM) @ 18 Pa
Visual "Lamp fail" system	Included
Finish (visible-surfaces only)	Wedgewood Blue (BS 18C 37 Matt)
MRSA / C. Diff	99.99%

Important! The operation of this unit must be inter-locked with the airflow such that in the event of 'airflow failure' the unit will automatically switch off to protect the lamps.

\*Maximum air volume for guaranteed performance.

For air volumes greater than 0.8 use multi-assembly paired units in 0.8 m<sup>3</sup>/s increments.



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**Air Volume  
(up to)**

0.8m<sup>3</sup>/s

**Pressure  
Drop**

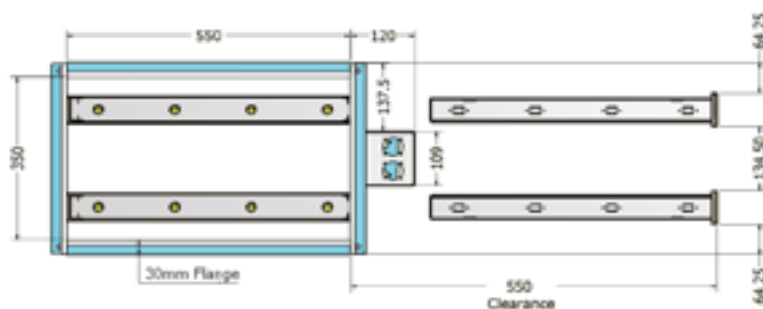
@35Pa

Technical details	
<i>Dimensions W x H x L (mm)</i>	550 x 350 x 1200
<i>Weight</i>	40 kg
<i>Power input</i>	560 Watts
<i>Power supply (Unit provided with 2.0m flying lead only.)</i>	220 - 240 AC / 50 Hz / 1 phase
<i>Tube replacement</i>	13,000 hrs maximum
<i>Air Volume *</i>	0.8 m <sup>3</sup> /s (1695 CFM) @ 35 Pa
<i>Visual "Lamp fail" system</i>	Included
<i>Finish (visible-surfaces only)</i>	Wedgewood Blue (BS 18C 37 Matt)
<i>MRSA / C. Diff</i>	99.99%

Important! The operation of this unit must be inter-locked with the airflow such that in the event of 'airflow failure' the unit will automatically switch off to protect the lamps.

\*Maximum air volume for guaranteed performance.

For air volumes greater than 0.8 use multi-assembly paired units in 0.8 m<sup>3</sup>/s increments.



**Air Volume  
(up to)**

1.4m<sup>3</sup>/s

**Pressure  
Drop**

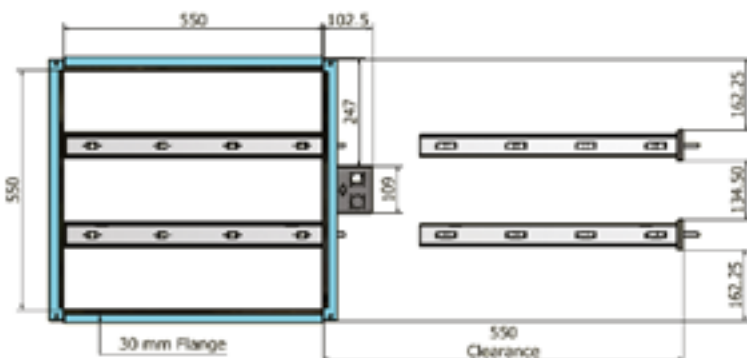
@35Pa

Technical details	
<i>Dimensions W x H x L (mm)</i>	550 x 550 x 1200
<i>Weight</i>	43 kg
<i>Power input</i>	560 Watts
<i>Power supply (Unit provided with 2.0m flying lead only.)</i>	220 - 240 AC / 50 Hz / 1 phase
<i>Tube replacement</i>	13,000 hrs maximum
<i>Air Volume *</i>	1.4 m <sup>3</sup> /s (2966 CFM) @ 35 Pa
<i>Visual "Lamp fail" system</i>	Included
<i>Finish (visible-surfaces only)</i>	Wedgewood Blue (BS 18C 37 Matt)
<i>MRSA / C. Diff</i>	99.99%

Important! The operation of this unit must be inter-locked with the airflow such that in the event of 'airflow failure' the unit will automatically switch off to protect the lamps.

\*Maximum air volume for guaranteed performance.

For air volumes greater than 1.4 use multi-assembly paired units in 1.4 m<sup>3</sup>/s increments.



# UV - DUCT MOUNTED

System integrated Air Sterilisation Unit



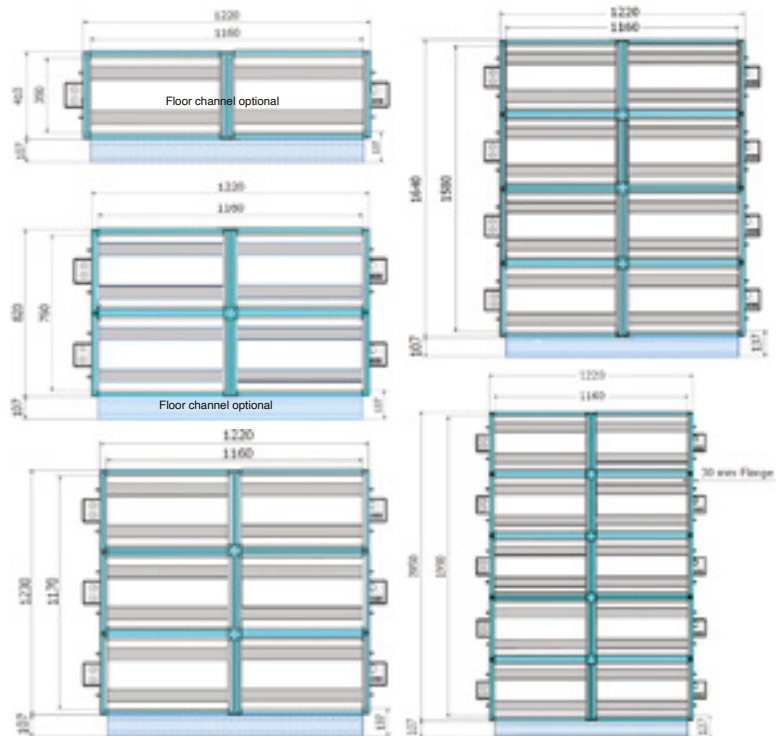
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**Air Volume  
(up to)**

12.6m<sup>3</sup>/s

**Pressure  
Drop**

@35Pa



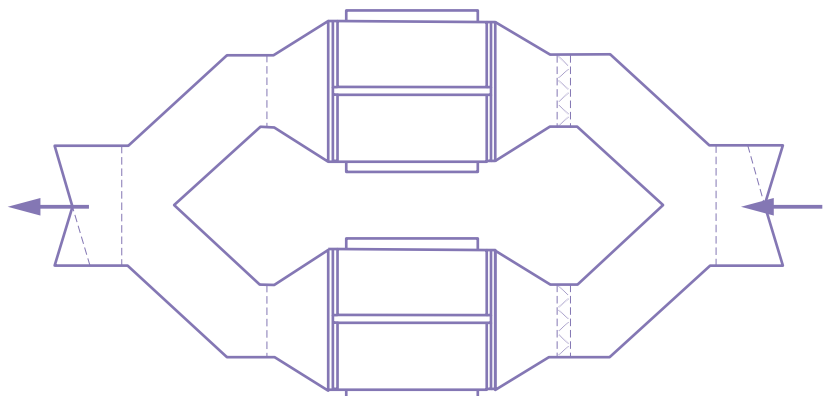
For air duties greater than 12.6 m<sup>3</sup>/s (26,700 cfm) twin disinfection banks in a bifurcated format should be used

**Air Volume  
(up to)**

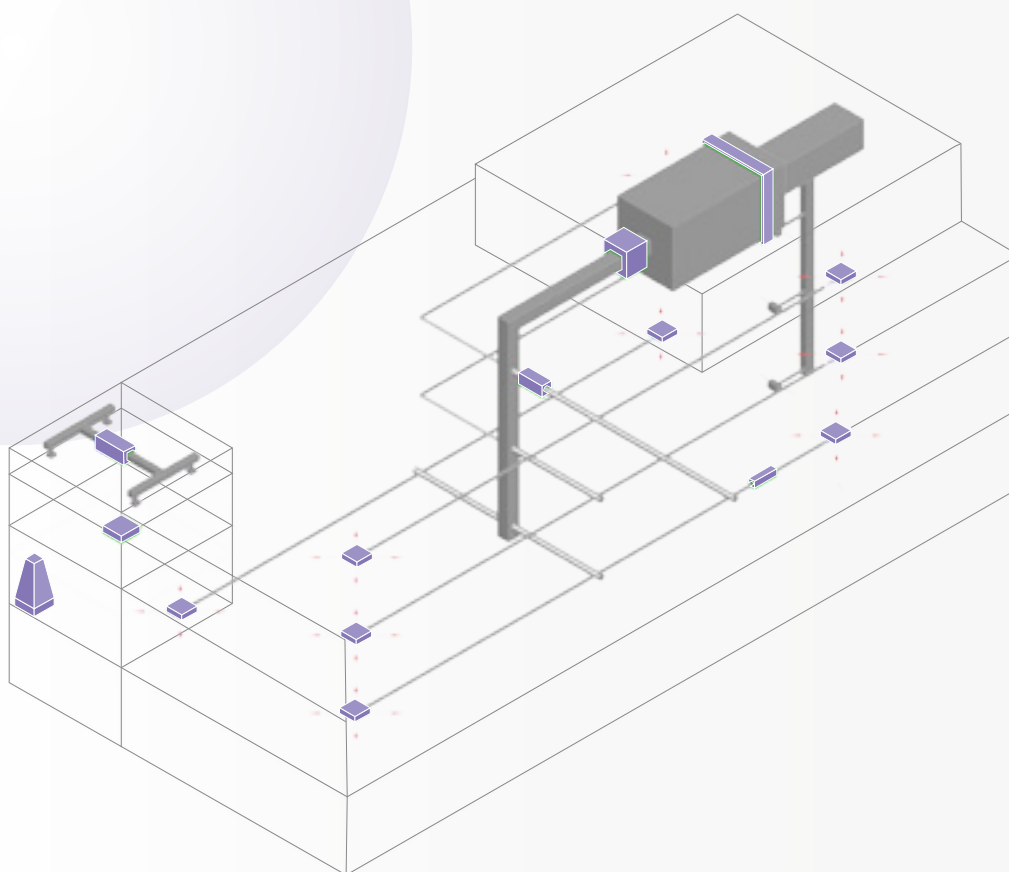
25.2m<sup>3</sup>/s

**Pressure  
Drop**

@35Pa



For duties above 25.2 m<sup>3</sup>/s please refer to UVent technical department for further assistance



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