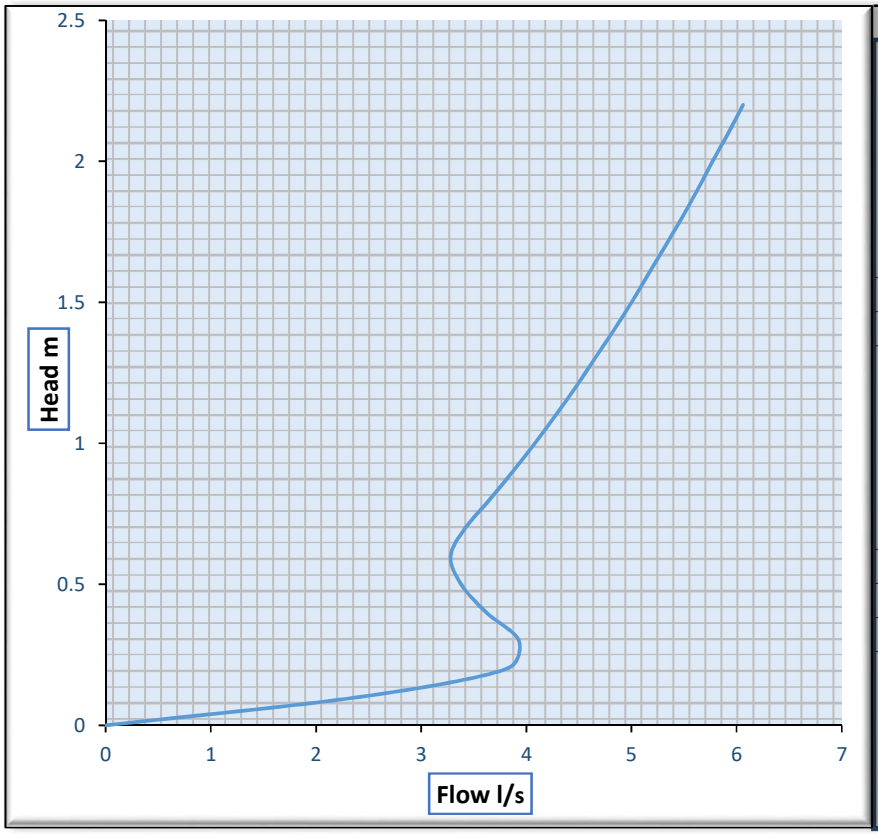
# CROWN WATER Data Sheet
# 96 mm QR5 Type Vortex Flow Control

**Job Ref 28020725**

| | | | |
|---|---|---|---|
| Client Name | Weholite | Date | 02/07/2025 |
| Project Name | W-1131-25 | For the attention of | Ethan Jacobs |




| Head m | Flow l/s |
|---|---|
| 0 | 0.000 |
| 0.1 | 2.400 |
| 0.2 | 3.810 |
| 0.3 | 3.930 |
| 0.4 | 3.620 |
| 0.5 | 3.380 |
| 0.6 | 3.280 |
| 0.7 | 3.420 |
| 0.8 | 3.650 |
| 0.9 | 3.870 |
| 1 | 4.080 |
| 1.1 | 4.280 |
| 1.2 | 4.470 |
| 1.3 | 4.650 |
| 1.4 | 4.830 |
| 1.5 | 5.000 |
| 1.6 | 5.160 |
| 1.7 | 5.320 |
| 1.8 | 5.480 |
| 1.9 | 5.630 |
| 2 | 5.770 |
| 2.1 | 5.920 |
| 2.2 | 6.060 |

| | | | |
|---|---|---|---|
| Design Flow | 5 l/s | Flush Flow | 3.98 l/s |
| Design Head | 1.5 m | At Head | 0.253 m |
| Minimum Pipe | 150 mm | Kickback Flow | 3.26 l/s |
| Sump Depth | 300 mm | At Head | 0.619 m |

**Note: Surface Water Only**

**Crown Water Ltd**
**Index House**
**Ascot SL5 7ET**
**Tel 01344 886996 Fax 01344 886646**
**sales@crownwater.com**
Company Registration Number *9514593*

Citation ISO Certification
Quality management ISO 9001: 2015
REGISTERED
Certificate No:71592021


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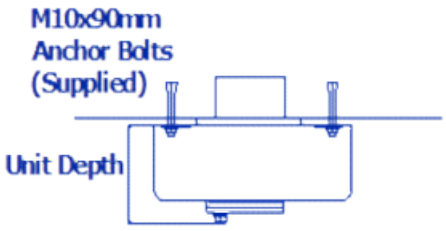
# CROWN WATER

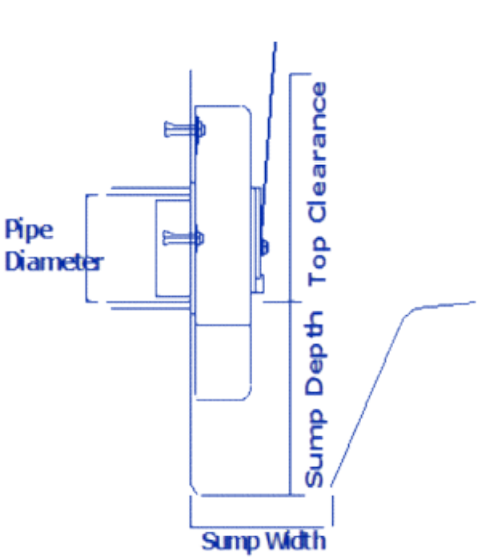
**Job Ref** 28020725

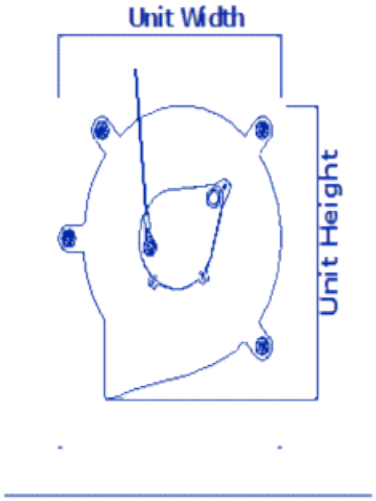
## 96 mm QR5 Type Vortex Flow Control

| | | | |
|---|---|---|---|
| **Client Name** | Weholite | **Date** | 02/07/2025 |
| **Project Name** | W-1131-25 | **For the attention of** | Ethan Jacobs |

### Crown Water Radial Type Vortex Flow Control Unit Installation Guide




| | | | |
|---|---|---|---|
| **Unit Outlet Diameter** | 96mm | **Sump Depth (Min)** | 300 mm |
| **Unit Height** | 530 mm | **Sump Width (Min)** | 280 mm |
| **Unit Width** | 480 mm | **Pipe Diameter (Min)** | 150mm |
| **Unit Depth** | 130 mm | **Top Clearance(Min)** | 360 mm |

**Note: Surface Water Only**

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# CROWN WATER
# FLOW CONTROL QUOTATION REF. 28020725

## Product Information and FAQ's

**DESIGN**

Individual Design.

All of our Vortex Flow Control Units are individually designed to meet the client's optimum performance criteria.

Will our Vortex Flow Control's Block?

The relatively large cross sectional areas and high internal velocities greatly reduce the risk of blockage.

How Long Will They Last?

Crown Water Vortex Flow Control Units have no moving parts to wear or fail. Made from stainless steel plate they will resist scour, degradation and chemical attack. A Vortex Flow Control should outlast the sewer in which it is installed.

**MANUFACTURE**

Crown Water Vortex Flow Control Units are manufactured to a high standard

- 304 Grade Stainless Steel as standard. Other material optional.
- Plate thickness 3mm as standard Thicker plate used where required.
- Pulse arc Tungsten Inert Gas Welding. All seams continuous for maximum strength.
- Emergency Bypass Door fitted as standard to allow drain down and rodding access.
- Externally regulated ISO 9001:2008 Quality Assurance System

**INSTALLATION**

All of our Vortex Flow Controls are purpose built to suit the specific site and to fit easily into the drainage infrastructure. Units can be specially designed for retrofitting or for installation in difficult spaces

**MAINTENANCE**

Vortex Flow Control units themselves require no routine maintenance. Inspection chambers require inspection & maintenance in line with current practice.

**WHAT DESIGN INFORMATION DO WE NEED?**

We require the following basic information to specify a Vortex Flow Control for you.

1) The design Flow - *Maximum Discharge*
2) The design Head - *Invert to Top Water Level*

From this information we will size and design the Vortex Flow Control to meet the design criteria and to suit the proposed infrastructure.

**SPECIFICATION**

Includes: -

1) Data Sheet showing the Head/Discharge Characteristic, both graphically and numerically.

2) Installation Guide showing the outline dimensions of the specified Vortex Flow Control and the method of fixing.

**Note: Surface Water Only**

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