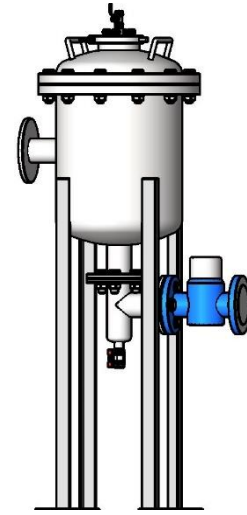


**TurboMAG<sup>®</sup>** (The successor to HydroMAG-T)  
**Quadplex (Vessel)**



**Advanced Scale Control by Physical Water Conditioning**

For the inhibition of limescale formation in high efficiency water heaters, a Quadplex (Vessel) TurboMAG<sup>®</sup> electrolytic electrochemical hybrid water conditioning unit shall be installed.

The system shall be performance approved to DVGW W512.

The operating principle shall employ cathodic induction for the formation of seed inoculation nuclei.

The system shall be environmentally friendly, operating without the need for regenerant chemicals or water wastage and shall promote optimised heat transfer within the water heater and thus contribute positively to the continued reduction of the carbon footprint.

The conditioning system shall have a flow dependant response to ensure maximum system efficiency and optimised life for the active conditioning module.

The TurboMAG<sup>®</sup> Quadplex (Vessel) shall be positioned in the system subject to a system and water analysis by Hydrotec to ensure correct application of the technology.

Four treatment units shall be housed in a stainless steel vessel. Two controllers and a mains switch shall be wall mounted adjacent to the unit. The controllers shall be a micro-processor based with a graphical display encased in a water resistant casing. Additionally the controllers shall monitor and record relevant parameters and operating states and provide both visual and acoustic alarms.

The controller mains switch should be connected to a 230V/1ph/50Hz supply through a 3A fused spur.

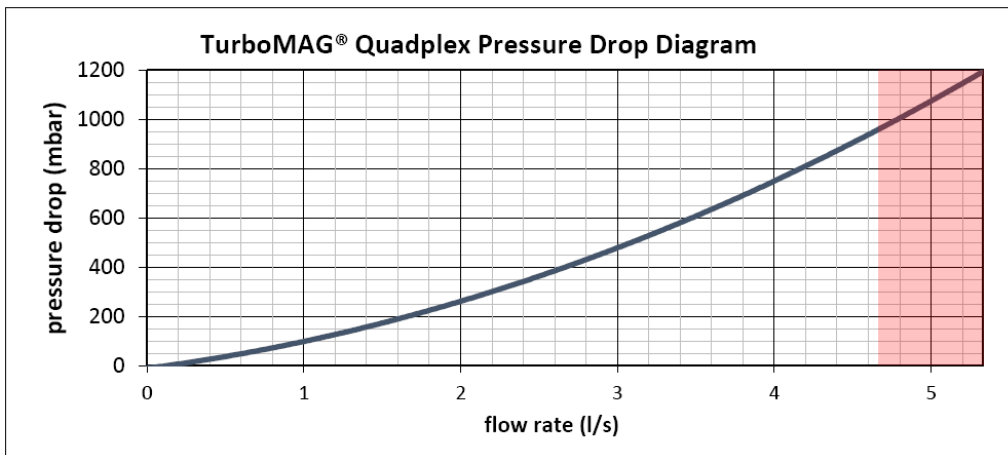
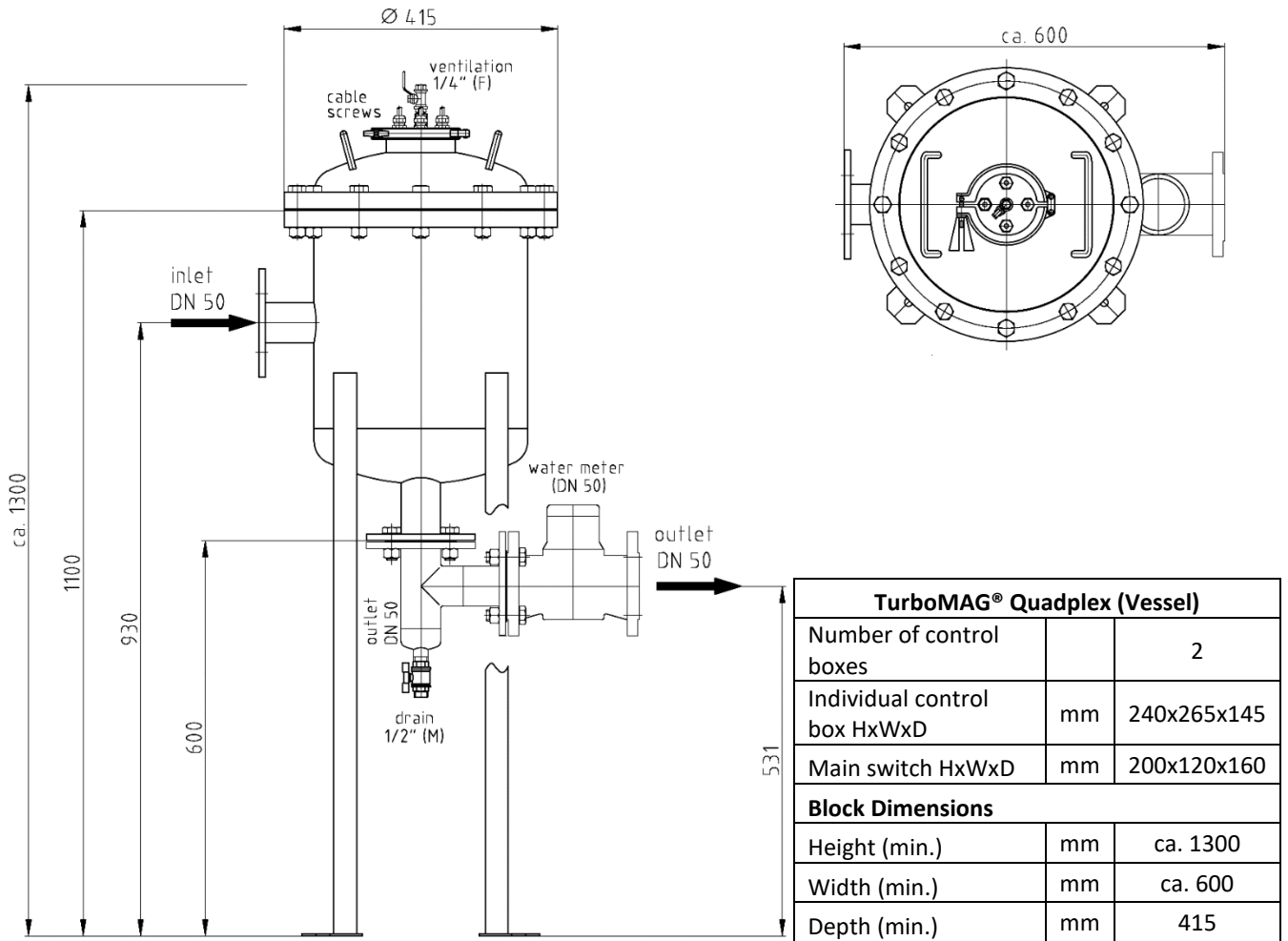
The control boxes should be rated IP65 and be provided with volt free contacts for BMS integration.

The unit is to be a TurboMAG<sup>®</sup> Quadplex (Vessel) mounted unit as detailed in the adjacent technical data table.

ITEM	RATING
<b>Water Conditioning Assembly</b>	
Performance approval	DVGW W512
Nominal flow rate	4.66l/s (16.8m <sup>3</sup> /h)
Max. inlet pressure	10bar
Pressure loss at nom. flow	1bar
Water temperature	5 – 30°C
Ambient temperature	5 – 40°C
Inlet/outlet connections	DN50 flanged
Materials of construction	
Vessel (contact with products)	Stainless steel 1.4404/1.4571
Vessel (components)	Stainless steel 1.4301
Water treatment unit	Stainless steel and POM
Weight ca.	160kg
<b>Contact Water Meter</b>	
Diameter	DN50
Installation length	200mm
<b>Control Box</b>	
Functionality and connectivity	LCD display Operational status Flow rate and treatment intensity Capacity status Error reporting BMS connection Optional remote interrogation
Power supply	230V/1ph/50Hz
Power consumption in operation	50 – 140W
Power consumption in standby	15W
Enclosure protection	IP65
<b>Equipment Included</b>	Automatic backwash filter



# TurboMAG® Quadplex (Vessel)



Subject to technical revisions and modifications

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