

SECTION 29

Assemblies

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Assemblies

At Aqua Products Limited, we supply a number of custom assemblies that are designed and constructed to meet our customers requirements.

Many of these assemblies feature our customers proprietary designs, so we can't include images in our catalogue.

However we are pleased to provide a few examples of typical assemblies for your consideration.

You can choose one of these proven designs, or we can design and build to your requirements on request.

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Hot Injection Set

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Standard Features:

- Recommended for Boiler Applications and for Hot Tanks
- Allows for Installation into Either a 1/2" or 1/4" BSP Connection
- Injection Quill to Deliver Chemical into the Centre of the Pipework
- Isolating Valve, so that the Injection Valve can be Easily Serviced/Replaced Without Process Water Shutdown
- 0.5 mtr of 6mm SS Pipe to Dissipate the Heat
- Adaptor to 6mm Flexible Tubing



Models:

Model	Description
HOTINJSET	For injecting chemicals into hot pipelines or tanks

EMEC has advised that their PVDF injection valves supplied standard with K, V and A series pumps are suitable for use at up to 85°C at 18 bar, or up to 130°C at 5 bar.

Our recommendation allowing for a margin of safety, is to use a hot injection set in any installation with the potential to operate at above 100°C and for any installation operating above 85°C under pressure.

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Corrosion Racks

Standard Features:

- High Quality Schedule 80 PVC Construction
- Double Union Isolating Ball Valves
- Easy to use Union Style Coupon Holders
- PVC Back Plate for Easy Mounting



Corrosion racks hold corrosion coupons in a sample water flow, to simulate the corrosion of similar metals in the system.

Models:

Model	Description
2PASSCR	Corrosion Rack 2 Pass
3PASSCR	Corrosion Rack 3 Pass
4PASSCR	Corrosion Rack 4 Pass
4PASSCRDEL	Corrosion Rack 4 Pass Deluxe

Standard version with isolating valves.

Deluxe version with flow meter & bleed valve.

Options:

Alternative pipe materials.
2, 3 and 4 pass available standard.
Custom builds on request.
Flow switch on flowmeter.

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WTC Cooling Tower Control Panel

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Consisting of:

- EMEC WTC Controller
- Dual Pumps Built In
- EMEC MANIFOLD/3 Control Manifold
- Non Return
- Flow Switch
- Chemical Injection Points
- Motorised Bleed Valve



Models:

Model	Functions
WTC BASIC	Conductivity control of cooling tower bleed. Timer control of dual biocide dosing, or Timer controlled biocide plus water meter control of inhibitor dosing. Timer output for control of an additional dosing pump. Alarm output.

Options:

With or without weatherproof enclosure.
Web based remote management.
Timer control of an additional metering pump or electric valve.

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CENTURIO Tower Control Panel

Consisting Of:

- EMEC CENTURIO Tower Controller
- Touch Screen Display
- 3 x EMEC VMSMF Metering Pumps
- Schedule 80 PVC Manifold
- Motorised Bleed Valve
- Flow Switch
- Non Return
- Chemical Injection Points
- Sample Valve



Models:

Model	Functions
CENTURIO BASIC	Monitoring and display of conductivity, pH and ORP. Conductivity based bleed valve control. ORP control of biocide dosing. Water meter based control of inhibitor dosing. Timer based control of secondary biocide dosing. LAN connection for web based remote management.

Options:

Plug and play input modules for chlorine, chlorine dioxide, bromine, ozone, hydrogen peroxide, peracetic acid, generic 4-20mA, tracers, temperature.
Weather proof enclosure.

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MTOWER Cooling Tower Control Panel

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Consisting Of:

- EMEC MTOWER CD Controller
- EMEC MANIFOLD/3 Control Manifold
- Motorised Bleed Valve
- 2 x EMEC FPESR0002 Peristaltic Dosing Pumps
- 1 x EMEC FPVM102.2EP Metering Pump



Models:

Model	Functions
MTOWER BASIC	Conductivity control of cooling tower bleed. Timer control of dual biocide dosing. Water meter control of inhibitor dosing.

Options:

4-20mA output signals.
Data-logging to USB.
Remote monitoring and management.
MODBUS.

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2 Way pH Correction System

Consisting Of:

- IP66 Enclosure with Hinged Lid
- EMEC LDSPH PLUS PH Controller
- Flow Meter with Integral Flow Switch
- EMEC VCO Acid Pump
- EMEC VCO Caustic Pump
- Schedule 80 Pipework
- Isolating Valves
- Non Return Valve



Models:

Model	Functions
2WAY pH	Continuous on line monitoring of pH. Acid and alkaline dosing pumps for pH correction in either direction.

Options:

Automatic Temperature compensation.
4-20mA signal output.
Datalogging to USB.
Remote control by LAN connection.
Remote control by GPRS.
MODBUS.

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Proportional Dosing System

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Consisting Of:

- EMEC Pulse Output Water Meter
- EMEC Chemical Dosing Pump
- Pipework in Schedule 80 PVC
- Isolating Valves
- Non Return Valve
- PVC Back Board



Models:

Model	Functions
PROPDOSE	The proportional dosing system injects chemical to achieve the same ratio of chemical to water, regardless of variations in flowrate.

Options:

Pipework and water meter sized to suit the flowrate.
Materials of construction selected for chemical compatibility.
Pump capacity selected to suit application.

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Automatic Tank Chlorination

Consisting of:

- EMEC VMSP0 Metering Pump
- Built In ORP Controller
- Adjustable Timer to Set Working Times
- ORP Probe
- Non Return
- Motorised Ball Valve
- Weatherproof Enclosure

Complete automatic tank chlorination system in a box.

Tank is recirculated when programmed and automatically dosed to an ORP set point.



Models:

Model	Functions
VPO BASIC	Automatic tank chlorination system for safe drinking water. Timer based dosing with ORP probe dosing limit.

Options:

Pump capacity selected to suit application.

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Mixing & Dosing Station

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Tank / Pump / Mixer / Lance / Level / Probe

Select a combination
to best suit your application.



Combinations:

Tank Model	Pump	Mounted With	Mixer	Suction Lance	Visual Level Indicator	Level Lance	Laser Level Probe
CNT PD50	V	Bracket	MIXMAN	LASP4 LASP5	SLV50	LALIV40	SLL50
	K						
	T	Bracket					
	PRISMA						
CNT PD110	V	Bracket	MIX8N MIXV8N	LASP4 LASP5	SLV110	LALIV63	SLL110
	K						
	A	Bracket					
	T						
CNT PD200	PRISMA		MIX8N MIXV8N MIX4N MIXV4N MIXV2N	LASP4 LASP5	SLV200	LALIV75	SLL200
	V	Bracket					
	K						
	A	Bracket					
CNT PD500	T		MIX4N MIXV4N MIXV2N	LASP4 LASP5	SLV500	LALIV108	SLL500
	PRISMA						
	PRIUS	Support					
	V	Bracket					
CNT PD1000	K		MIX4N MIXV2N MIX2N	LASP1 LASP3		LALIV122	SLL1000
	A	Bracket					
	T						
	PRISMA						
	PRIUS	Support					

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