



Pure, safe water.

Always.

GLOBAL LEADER IN UV WATER PURIFICATION



Advanced UV Water Purification Systems
For Wastewater, Reuse, Rainwater and Potable Applications
Factory Integrated in NEMA® Cabinets Treat Up to 137 GPM (519L/min, 747 m³/day)



Hallett Multiplex
powered by **CROSS** TECHNOLOGY **FIRE**

MULTIPLEX SPECIFICATIONS: MODELS FOR WASTEWATER AND POTABLE APPLICATIONS

Factory Integrated in NEMA® Cabinets Treat Up to 137 GPM (519 L/min, 747 m³/day)

Model		2 x H30	2 x H30 w/4-20 mA	3 x H30	3 x H30 w/4-20 mA	4 x H30	4 x H30 w/4-20 mA	5 x H30	5 x H30 w/4-20 mA
PART NUMBER (115 Volt)	Wastewater	C51	C51FT	C52	C52FT	C53	C53FT	C34	C34FT
	Potable	C39	C39FT	C40	C40FT	C41	C41FT	C42	C42FT
PART NUMBER (240 Volt)	Wastewater	C58	C58FT	C59	C59FT	C60	C60FT	C61	C61FT
	Potable	C54	C54FT	C55	C55FT	C56	C56FT	C57	C57FT
Validation / Certification	Wastewater	Engineered to meet dosing and disinfection requirements of wastewater effluent. Typically a minimum dose of 30 mJ/cm2 to reduce coliform to < 200 counts / 100ml. Higher doses available for re-use and non-detect applications (< 2 counts / 100 ml).							
	Potable	NSF/ANSI 55 Class A: minimum dose of 40 mJ/cm2 – 4 Log (99.99%) reduction of viruses; 6 log (99.9999%) reduction of bacteria; 8 log (99.999999%) reduction of cysts							
UV Dose	Wastewater	Minimum dose of 30 mJ/cm² at end of lamp life							
	Potable	40 mJ/ cm² at end of lamp life							
Minimum UV Transmittance	Wastewater 65% (Can go down to 45%)	Refer to Hallett Wastewater/Potable specs for details							
	Potable	75%							
Max Flow Rate	Wastewater	50 US gpm (189 L/min) (11.4 m³/hr)		75 US gpm (284 L/min) (17.0 m³/hr)		100 US gpm (378 L/min) (22.7 m³/hr)		125 US gpm (473 L/min) (28.4 m³/hr)	
	Potable	54.8 US gpm (207 L/min) (12.4 m³/hr)		82.2 US gpm (311 L/min) (18.7 m³/hr)		109.6 US gpm (415 L/min) (24.9 m³/hr)		137 US gpm (519 L/min) (31.1 m³/hr)	
Water Pressure		10 psi (69 kPa) to 100 psi (690 kPa); units are tested to 200 psi (1.4 MPa)							
Dynamic Flow Restrictor		Installed as standard							
Pressure Drop at 75% of nominal flow capacity	Wastewater	2 psi (14 kPa)							
	Potable	20 psi (138 kPa)							
Redundancy		Additional backup systems can be added cost effectively							
Solenoid Shut-Off Valve	Wastewater	Automatic shut-off valves available as option							
	Potable	Automatic shut-off valves available as option							
Inlet and Outlet Connections	Wastewater	1.5" female NPT connection for easy installation							
	Potable	1" female NPT connection for easy installation, 1.5" available							
Voltage		North American Models: 115V, Global Models: 115V or 240V							
Protection from Power Fluctuations		115V Models include power conditioner that meets UL 1449							
Maximum Power Consumption		464W		680W		928W		1140W	
Electrical Certification		Intertek ETL (UL, ULC and CE equivalent)							
Lamps		Low pressure, high output proprietary lamps contain 30 mg of mercury (Hg); rated for one year of continuous use							
Maintenance		Onboard and remote system indicates when to change bulbs – every 12 months (9000 hours). Quartz sleeve is self-cleaning and requires no outside maintenance							
Electronic Ballast		Auto power-regulated smart ballast is integrated with micro-processor control system; protected from power fluctuations							
Self-Cleaning		Stainless Steel patented automatic wiper-blade system keeps quartz free from scaling or bio-film							
On-Board Micro-Processor and Monitor		Patented dual smart UV sensors monitor lamp output (UVI) and water transmittance (UVT) continuously							
4-20 mA Analog Output		N/A	Installed as standard	N/A	Installed as standard	N/A	Installed as standard	N/A	Installed as standard
Dry Contacts		Included as standard for applications that require remote alarming, auto-dialer integration, or similar.							
Remote Alarm		Included as standard on all models.							
Warranty		1 year limited warranty on bulbs and sensor probes on a prorated basis; 3 year limited warranty on electrical components and quartz sleeve; 5 year limited warranty for structural, hardware and mechanical components							
EPA FIFRA Certified		EPA Est. No. 075213-CAN-001							
Patents		Patented in US 6,707,048, Canada 2,463,503, Australia 2002333084, Mexico 248805, Patents pending in Europe, Eurasia, Japan, UK							

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Hallett systems with patented Crossfire Technology provide microbiological purification of drinking water. With a Hallett system properly installed, fail-safe engineering ensures that no potentially dangerous microorganisms can enter a drinking water distribution system. UV Pure recommends the use of other filtration systems to treat chemical and other non-microbiological contaminants. To find out everything, visit www.uvpure.com. UV Pure®, Pure Safe Water. Always® and Crossfire® Technologies are registered trademarks of UV Pure Technologies Inc. Boeing® and Dreamliner® are registered trademarks of The Boeing Company.