

# Hallett<sup>MC</sup>

30


Community & Commercial Ultraviolet Water Purification Systems

Hallett™ UV systems are the world's only NSF/ANSI 55 Class A Certified UV water purification systems with patented Crossfire Technology.™ UV Pure's Hallett™ 30 for community and commercial applications, outperforms conventional systems for disinfection of all pathogens including viruses, bacteria, cryptosporidium, giardia, legionella and E. coli.

**CROSS**  **FIRE**<sup>TECHNOLOGY</sup>



#### CROSSFIRE TECHNOLOGY IS THE MOST EFFECTIVE UV TREATMENT

-  NSF/ANSI 55 CLASS A CERTIFIED to 30 US gpm, 113 L/min, 6.7 m<sup>3</sup>/hr
- Highest UV Dose – proprietary high-output long-life lamps
- UV dose rate at max flow is 40 mJ/cm<sup>2</sup> at end of lamp life
- Elliptical reflectors target and deactivate pathogens from 360°
- Lamps air-cooled – operate at most effective UV output at all times

#### CROSSFIRE TECHNOLOGY IS ENGINEERED TO BE RISK FREE AND FAIL-SAFE

- Dual smart UV sensors monitor both UV output and water quality
- Built-in microprocessor monitoring with both visual & audible alarm notification
- Automatic shut-off fail-safe solenoid valve – if the water is running, the water is safe

#### CROSSFIRE TECHNOLOGY IS SELF-CLEANING

- Automatic mechanical quartz cleaning system – quartz does not foul
- No quartz cleaning or system drainage required, so no risk of quartz breakage
- Water softening is not required, saving money and the environment

#### CROSSFIRE TECHNOLOGY IS VIRTUALLY MAINTENANCE FREE

- Lamps mounted in air – easy to replace, no system draining required

#### CROSSFIRE TECHNOLOGY IS SIMPLE TO INSTALL

- Flexible stainless FIP connections for quick and simple installation
- Compact size

Find out everything. [www.puresafewater.com](http://www.puresafewater.com)

Pure, safe water.




Always.™

ULTRAVIOLET WATER PURIFICATION SYSTEMS




# Hallett™ 30 with Crossfire Technology™ Specifications

Certification	 NSF/ANSI 55 Class A Certified
Flow Capacity	30 US gpm, 113 L/min, 6.7 m³/hr
Multiple System Flow Capacity	Run in parallel – up to 600 US gpm
UV Dose	40 mJ/cm² at end of lamp life
Built-in microprocessor	Dual smart sensors monitor UV output and water quality
Alarms	Visual & audible notification of: 1. System is working & water is safe 2. Lamp output alarm 3) Water quality alarm
Monitoring	Continuous UV transmittance feedback
Solenoid Valve	Auto shut-off fail-safe valve so only safe water can enter your water distribution system
Self-Cleaning	Stainless steel wiper prevents quartz fouling
Maintenance	Automatic alarm reminder – 2 lamps – replacement required every 12 months, a simple 2 minute process
Redundancy	Additional back-up systems can be installed cost effectively
Inlet & Outlet Connections	Flexible FIP Connections – 1" inlet and 1" outlet
Pre-filtration	5 micron sediment filter recommended and or carbon filter for taste and odour
Maximum Pressure	100 PSI, 690 kPa (tested to 240 PSI)
Pressure Drop	20 PSI @ 22 gpm (138 kPa @ 83L/min)
Voltage	120/220 VAC – 140W
Electronic ballast	Auto power regulated, protected from power fluctuations
Dry Contacts	Available for remote monitoring or auto dialers
Electrical	Entela (UL & CSA equivalent)
Dimensions	32" H x 8" W x 9" D (81cm H x 20 cm W x 23 cm D)
Warranty	3 years on all electrical components, 5 years on housing

## Hallett™ System Pre-treatment Conditions

WITH CROSSFIRE TECHNOLOGY™ – NO WATER SOFTENER REQUIRED

	Water Conditions	Effective Treatment Range	
		MIN	MAX
	Hardness	0	50 Grain (855 mg/L)
	Iron	0	3 mg/L (ppm)
	Manganese	0	0.5 mg/L
	% UV Transmittance	75%	100%
	pH	6.00	9.00
	Total Dissolved Solids (TDS)	0	1000 mg/L
	Water Temperature	1° C (34° F)	38° C (100° F)
	Air Temperature	7° C (45° F)	38° C (100° F)
	Turbidity	0 NTU	1 NTU
	Water Pressure	10 PSI (69 kPa)	100 PSI (690 kPa)

## Microbiological Drinking Water Purification Scorecard

THE HALLETT™ SYSTEM WITH CROSSFIRE TECHNOLOGY™ SCORES 10/10

	HALLETT SYSTEM	CONVENTIONAL UV	OZONE	REVERSE OSMOSIS	CHLORINATOR	SAND FILTER
Real-time indicator of water quality	✓	-	-	-	-	-
NSF certified	✓	selected units	-	-	-	-
Works in high TDS	✓	-	✓	✓	✓	✓
No softener required	✓	-	✓	✓	✓	✓
Self-cleaning/low maintenance	✓	-	-	-	-	✓
Not hazardous to your health	✓	✓	-	✓	-	✓
Economical	✓	✓	-	-	-	-
Effective removal of all pathogens	✓	✓	-	-	-	-
Fail-safe shut-off	✓	selected units	-	-	-	-
Doesn't put contaminants back in the environment	✓	✓	✓	-	-	-
<b>SCORE</b>	<b>10/10</b>	5/10	3/10	3/10	2/10	4/10

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