

# Hallett

13

## Residential Ultraviolet Water Purification Systems

The Hallett™ 13 is the world's only NSF 55A certified UV water purification device with patented Crossfire Technology.™ UV Pure's Hallett system for homes outperforms conventional systems by delivering the most effective UV dose for disinfection of all pathogens including viruses, bacteria, cryptosporidium, giardia, legionella and E. coli.



### CROSSFIRE TECHNOLOGY IS THE MOST EFFECTIVE UV TREATMENT

- **NSF** NSF 55 CLASS A CERTIFIED to 13.3 US gpm, 50 L/min, 3 m<sup>3</sup>/hr
- Highest UV Dose – proprietary high-output long-life lamps
- UV dose rate at max flow is 65 mJ/cm<sup>2</sup> at end of lamp life
- Elliptical reflectors target and deactivate pathogens from 360°
- Lamps aircooled – 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 change, 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.

UV  
PURE

Always.




ULTRAVIOLET WATER PURIFICATION SYSTEMS

# Hallett™ 13 with Crossfire Technology™ Specifications

Certification	NSF 66 Class A Certified
Flow Capacity	13.3 US gpm, 50 L/min, 3 m <sup>3</sup> /hr
UV Dose	65 mJ/cm <sup>2</sup> 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 home's water system
Self-Cleaning	Stainless-steel wiper prevents quartz fouling
Maintenance	Automatic alarm reminder – 2 lamps – replacement required every 14 months, a simple 2 minute process
Inlet & Outlet Connections	1/2" flexible FIP connection for easy installation
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)
Dynamic flow regulator	Minimizes pressure drop
Pressure Drop	4 PSI @ 7 gpm, 27 kPa @ 26 L/min
Voltage	120/220 VAC – 80W
Electronic ballast	Auto power regulated, protected from power fluctuations
Electrical	Intelia (UL & CSA equivalent)
Dimensions	24" H x 8" W x 9" D (60 cm 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)	39° C (100° F)
	Air Temperature	7° C (45° F)	38° C (100° F)
	Turbidity	0 NTU	1 NTU
	Water Pressure	5 PSI (34 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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