Engineering Specification

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

Series ACL-100 & ACL-125

Locksmith® Residential Carbon Filter Systems

Connection Sizes: 1" & 1 1/4"
Flow Rates: Up to 20 gpm (76 lpm)

The Watts Locksmith® Series ACL activated carbon filtration systems are proven backwashing media filters designed to reduce chlorine, as well as taste, odor, and color caused by organic compounds.

These systems feature the Watts-exclusive Locksmith controller, an integrated control platform capable of operating 1" and 1.25" single, Twin Alternating, and multi-tank progressive flow softening and filtration systems without the need for an additional controller. The controller also supports external device operation, allowing for flexible system configurations to meet a wide range of application requirements.

Designed for residential point-of-entry applications, the ACL systems support dechlorination flow rates up to 20 gpm (76 lpm) with media bed sizes ranging from 1 to 5 cubic feet. Higher flow rates can be achieved by installing multiple systems in parallel. Captured sediment is removed through an automatic, programmable backwash and flush cycle that is time-initiated or demand-initiated, requires no manual operation, and can be scheduled at the user's convenience.

These activated carbon filtration systems provide dechlorinated water for residential use. Chlorine, commonly added to municipal water for disinfection, can damage reverse osmosis membranes and polymer-based ion exchange resins and may cause undesirable tastes and odors. Activated carbon is widely used to reduce chlorine, organic-related taste, color, and odor, as well as trace hydrocarbons. For applications requiring enhanced removal of organics or hydrocarbons, proper system sizing and carbon selection should be confirmed with a Watts representative.

Series ACL activated carbon systems utilize 12 x 40 mesh coconut shell carbon media engineered for effective chlorine reduction. The high microporosity of coconut shell carbon makes it well suited for low–molecular weight contaminants such as chlorine. Its superior hardness and advanced de-dusting process result in a clean, durable media with minimal fines, ensuring reliable performance and long service life.

⚠ WARNING

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.



ACL-100 & ACL-125

Features and Benefits

- Great tasting water from every tap in your house!
- GAC media corrects wide range of water quality issues by reducing chlorine tastes, odors, organic chemicals and sediment
- No bad tastes or foul odors!
- Crystal clear water for drinking, bathing, and cooking!
- Watts Locksmith proprietary electronic controller allows user friendly control
- Fully adjustable backwash and flush cycles
- Highly corrosion resistant fiberglass tanks

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

Operating Parameters

pH . . . . . 6 to 8.5
Water Pressure* . . . . . 30 psi to 125 psi (205 kPa to 8.5 bar)
Temperature . . . . . 34 - 110°F (1 - 43°C)
Oil and H2S. . . . . None Allowed
Iron . . . . . Less than 1 ppm
Total Chlorine . . . . . Less than 5 ppm
Operating Ambient Temperature . . . 34° to 120°F (1° to 52°C)
Power Supply Input Voltage . . . . . 100-120 VAC
Power Supply Input Frequency . . . . 50/60 Hz
Power Supply Output Voltage. . . . . 15 VDC
Power Supply Output Current. . . . . 500 mA (per control valve)

Water known to have heavy loads of dirt and debris may require pre-filtration prior to the water filtration system.

*It is established that when daytime water pressure exceeds 80psi (5.5 bar), the maximum pressure rating of 125psi (8.6bar) can be exceeded. A pressure regulator is required on this system or warranty is voided.

For all other guideline information please contact your Watts representative.

Dimensions & Weights

Series ACL-100

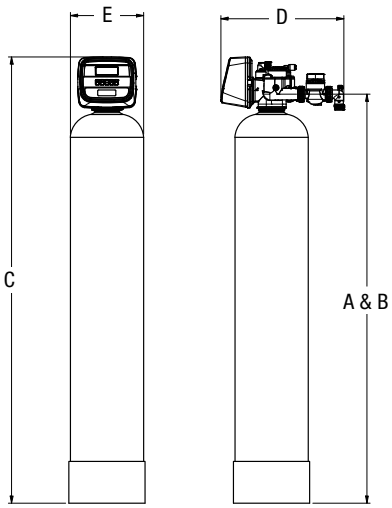
Call customer service if you need assistance with technical details.

MODEL NO.	DIMENSIONS										WEIGHTS	
	A		B		C		D		E			
	in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lb*	*kg*
NC09-L10F	50 1/2	1283	50 1/2	1283	55 1/2	1410	16 1/4	413	9 1/2	241	80	36
NC10-L10F	56 1/2	1435	56 1/2	1435	61 3/4	1568	16 1/4	413	10 1/2	267	105	48
NC12-L10F	55	1397	55	1397	60	1524	16 1/4	413	12 1/2	318	145	66
NC14-L10F	67	1702	67	1702	72 1/4	1835	17 1/2	445	14 3/4	375	200	91
NC16-L10F	68 1/4	1734	68 1/4	1734	73 1/2	1867	18 1/2	470	16 3/4	425	265	120
NC21-L10F	69 3/4	1772	69 3/4	1772	74 3/4	1899	22 1/4	565	22 1/4	565	365	166

Series ACL-125

MODEL NO.	DIMENSIONS										WEIGHTS	
	A		B		C		D		E			
	in.	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lb*	*kg*
N2051-L125	56 1/2	1435	56 1/2	1435	61 3/4	1568	16 1/4	413	10 1/2	267	105	48
N2052-L125	55	1397	55	1397	60	1524	16 1/4	413	12 1/2	318	145	66
N2056-L125	67	1702	67	1702	72 ¼	1835	17 1/2	445	14 3/4	375	200	91

Series ACL-100 & ACL-125



Specifications & Ordering Information

MODEL NO.	ORDERING CODE	TANK SIZE	PIPE SIZE	MEDIA (CU FT)	PEAK SERVICE FLOW (GPM)	BACKWASH (GPM)	FLOOR SPACE (DXWXH)	SHIP WT. (LBS.)
NC09-L10F	68112313	9x48	1	1	4	4.2	12" x 10" x 56"	80
NC10-L10F	68112314	10x54	1	1.5	6	5.3	12" x 11" x 62"	105
NC12-L10F	68112315	12x52	1	2	8	7.5	13" x 13" x 60"	145
NC14-L10F	68112316	14x65	1	3	11	10	15" x 15" x 71"	200
NC16-L10F	68112317	16x65	1	4	14	11	15" x 17" x 74"	265
NC21-L10F	68112318	21x62	1	5	20	25	22" x 22" x 75"	365
N2051-L125	68112346	10x54	1 1/4	1.5	6	5.3	17" x 11" x 62"	105
N2052-L125	68112347	12x52	1 1/4	2	8	7.5	17" x 13" x 60"	145
N2056-L125	68112348	14x65	1 1/4	3	11	10	17" x 15" x 71"	200

NOTICE

The service flow rates listed for the carbon filtration systems are for dechlorination. Slower flow rates may be required depending on the specific contaminant and concentration of the contaminant.

USA: T: (800) 659-8400 • Watts.com
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