

Engineering Specification

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series AMZ

Commercial Micro Z® Filter Systems

Connection Sizes: 1½" to 3" (38 - 80 mm)

Flow Rates: Up to 251 gpm (950 lpm)

Watts Series AMZ Micro Z® filters are highly effective backwashing media filtration systems for the removal of sediment and suspended solids from water.

These systems are designed for commercial applications with flow rates up to 251 gpm (950 lpm) with media bed sizes ranging from 3 to 40 cubic feet in size. If higher flow rates are required, multiple units can be installed in parallel. The media bed is cleaned of captured sediment by periodic backwashing and flushing. This cleaning cycle is time clock demand initiated and can be programmed to occur at any time that is convenient for the user. All steps of the cleaning cycle as well as returning to service are fully automatic and do not require manual actuation.

Series AMZ sediment filters are designed for point of use or point of entry applications where filtered water is required. Micro Z is a naturally occurring form of zeolite that offers superior filtration characteristics over and above sand, anthracite and garnet products currently in use today. The key to Micro Z's performance is its hydrophilic properties combined with a jagged external surface texture. This gives Micro Z a sediment holding capacity of 2.8 times that of sand, which reduces backwash waste water volumes and provides higher service flow rates which reduces over all system size and cost. Micro Z has a 3-5 micron nominal particle size removal rating versus 15-30 micron with other conventional back-washable medias.

Municipal water filtration, reverse osmosis pretreatment, micro and ultra filtration system pretreatment, cartridge filtration pretreatment, sediment reduction in city and rural water, as well as general turbidity reduction are all common applications for the Series AMZ Micro Z filter systems.

Filtered water is a cleaner supply water for boilers, solenoid valves, pumps, faucets, aerator screens, reverse osmosis systems, micro and ultra filtration systems, pools, aquariums, washing, and rinsing processes that reduces down time and costly repairs.



**Series
AMZ 1½"**

**Series
AMZ 2"**

**Series
AMZ 3"**

Features

- NSF/ANSI Certified high capacity Micro Z filter media
- Fully automatic time clock initiated control valves on 36" diameter systems and below
- Sophisticated digital electronic controls that store operating history that can be accessed by the user
- Fully adjustable backwash and flush cycles
- Durable brass bodied control valves on 36" diameter systems and below for years of service
- High flow 3" diaphragm valve nests on systems 42" in diameter and larger
- Dry contact lock out switch for remote interface is standard
- Highly corrosion resistant fiberglass tanks
- Durable polypropylene lower distribution system

⚠ WARNING

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

Specifications

A Watts Series AMZ Micro Z filter system shall be installed on the building's main water line just after it enters the building. The installation point shall be after any backflow prevention or pressure regulating valves. Other installation options are to install a system just before the plumbing equipment needing the protection of filtered water. In installations where the dedicated cold water make up to a water heater is the installation point, a backflow preventer and a thermal expansion tank must be installed as well. The system shall be installed with a bypass valve to allow for the shut down and removal of the unit without interrupting the water supply to the building.

The filter system shall be a backwashing granular media bed type with digital programmable time clock initiated backwash, high-capacity alumino-silicate filter media rated for 3-5 nominal particle size removal, and all components necessary for proper operation. Electrical requirements are 100-240 VAC, 50/60 Hz. A local drain is required to accept drain water from the system. The system shall provide water that has been filtered to a nominal micron rating of 3-5 micron.

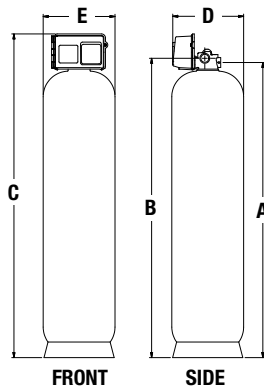
Feed Water Guidelines*

pH	6 to 8.5
Water Pressure	30 psi to 125 psi (207 kPa to 8.7 bar)
Water Temperature	34 - 110°F (1 - 43°C)
Oil and H2S	None Allowed

* For all other guideline information please contact your Watts representative.

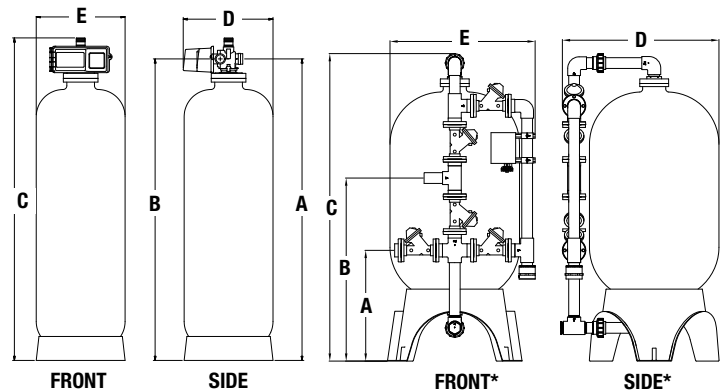
Dimensions - Weights

1½" Models



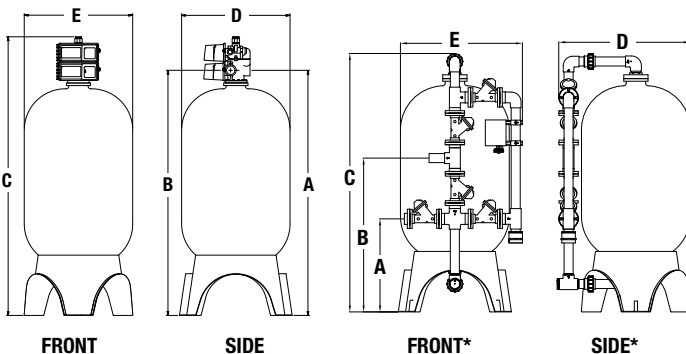
MODEL NO.	DIMENSIONS					WEIGHTS	
	A	B	C	D	E		
	in.	mm	in.	mm	in.	mm	lbs. kgs
N5245-14-285NT	66 ¹⁵ / ₁₆	1699	67 ⁷ / ₈	1724	73 ³ / ₈	1864	14 ¹⁵ / ₁₆ 378 14 ¹ / ₈ 358 278 366
N5245-16-285NT	66 ³ / ₈	1686	67 ¹ / ₄	1708	72 ³ / ₄	1848	15 ¹⁵ / ₁₆ 405 16 ¹ / ₈ 409 667 303
N5245-21-285NT	70	1778	71	1803	76 ¹ / ₈	1941	21 ¹ / ₈ 536 21 ¹ / ₂ 536 1015 461

2" Models



MODEL NO.	DIMENSIONS					WEIGHTS	
	A	B	C	D	E		
	in.	mm	in.	mm	in.	mm	lbs. kgs
N5245-24-315NT	81 ⁷ / ₈	2079	81 ⁷ / ₈	2079	87 ¹ / ₂	2222	24 ⁷ / ₁₆ 620 24 ¹ / ₈ 612 1015 461
N5245-30-315NT	83 ³ / ₈	2118	83 ³ / ₈	2118	89	2260	30 ³ / ₈ 765 30 ¹ / ₈ 765 1852 842
N5245-36-315NT	87 ⁹ / ₁₆	2224	87 ⁹ / ₁₆	2224	93 ⁷ / ₁₆	2373	36 ³ / ₄ 933 36 ³ / ₄ 933 2485 1127
N5245-36-DVN*	36 ¹ / ₈	922	54 ¹ / ₈	1376	98 ¹ / ₂	2502	55 ⁵ / ₈ 1407 43 1092 2480 1124

3" Models



MODEL NO.	DIMENSIONS					WEIGHTS	
	A	B	C	D	E		
	in.	mm	in.	mm	in.	mm	lbs. kgs
N5245-36-39NT	87 ¹ / ₄	2216	87 ¹ / ₄	2216	100	2540	36 ¹ / ₈ 917 36 ¹ / ₈ 917 2525 1148
N5245-42-DVN*	59 ¹ / ₂	1511	36	915	100	2540	58 1473 48 ¹ / ₈ 1222 2895 1316
N5245-48-DVN*	59 ¹ / ₂	1511	36	915	100 ⁷ / ₈	2560	58 1473 51 ¹ / ₈ 1298 3882 1765

Specifications

MODEL NO.	TANK SIZE	MINERAL TANK		FLOW RATES FOR SERVICE AND BACKWASH			
		TANK SIZE FT ²	MICRO Z FT ³	SERVICE GPM			BACKWASH GPM
				10 GPM FT ²	15 GPM FT ²	20 GPM FT ²	
N5245-14-285NT	14" x 65"	1.07	3.0	10.7	16.0	21.4	20
N5245-16-285NT	16" x 65"	1.39	4.0	13.9	20.8	27.8	20
N5245-21-285NT	21" x 62"	2.41	7.0	24.1	36.1	48.2	40
N5245-24-315NT	24" x 72"	3.14	10	31.4	47.1	62.8	50
N5245-30-315NT	30" x 72"	4.91	15	49.1	73.6	98.2	85
N5245-36-315NT	36" x 72"	7.07	20	70.7	106.1	141.4	100
N5245-36-DVN	36" x 72"	7.07	20	70.7	106.1	141.4	100
N5245-36-39NT	36" x 72"	7.07	20	70.7	106.1	141.4	100
N5245-42-DVN	42" x 72"	9.62	30	96.2	144.3	192.4	155
N5245-48-DVN	48" x 72"	12.56	40	125.6	188.4	251.2	200

Ordering Information

MODEL NO.	ORDERING CODE	DESCRIPTION	PIPE SIZE	SPACE REQUIRED W X D X H	WEIGHT	
					LBS	KGS
N5245-14-285NT	68105830	AMZ14F2850NXT 3 Cubic Foot Micro Z filter with Auto Backwash	1½"	15" x 16" x 75"	278	126
N5245-16-285NT	68105832	AMZ16F2850NXT 4 Cubic Foot Micro Z filter with Auto Backwash	1½"	17" x 18" x 75"	366	166
N5245-21-285NT	68105833	AMZ21F2850NXT 7 Cubic Foot Micro Z filter with Auto Backwash	1½"	23" x 24" x 84"	667	303
N5245-24-315NT	68105836	AMZ24F3150NXT 10 Cubic Foot Micro Z filter with Auto Backwash	2"	27" x 27" x 95"	1015	461
N5245-30-315NT	68105838	AMZ30F3150NXT 15 Cubic Foot Micro Z filter with Auto Backwash	2"	33" x 33" x 95"	1852	842
N5245-36-315NT	68110580	AMZ36F3150NXT 20 Cubic Foot Micro Z filter with Auto Backwash	2"	48" x 40" x 107"	2485	1127
N5245-36-DVN	68105843	AMZ36FDVN2NXT 20 Cubic Foot Micro Z filter with Auto Backwash	2"	48" x 40" x 90"	2480	1124
N5245-36-39NT	68105842	AMZ36F3900NXT 20 Cubic Foot Micro Z filter with Auto Backwash	3"	40" x 48" x 114"	2525	1148
N5245-42-DVN	68105844	AMZ42FDVN3NXT 30 Cubic Foot Micro Z filter with Auto Backwash	3"	46" x 54" x 90"	2895	1316
N5245-48-DVN	68105846	AMZ48FDVN3NXT 40 Cubic Foot Micro Z filter with Auto Backwash	3"	54" x 60" x 90"	3882	1756

NOTICE

Flow rates, dimensions, and capacities are per tank. Pipe size, tank size, and space requirements are in inches. 20 gpm per square foot flow rates are for intermittent peak flows only and should not be used as continuous flows.

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.



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