

# NVO489DF Whole Home Carbon Filters SPECIFICATION SHEET

# CONTROL VALVE SYSTEMS PRESSURE TANK

97% CHLORINE REMOVAL OVER 1,100,000 GALLONS\*

Based on model: NVO489DFTO-150.



IAPMO R&T Certified to NSF/ANSI 42, 372 and CSA B483.1.

### **Water Filter**

## Reduce Chlorine, Chloramines and Other Chemicals from Your Water

Chlorine and chloramines are the most widely used disinfectants in municipal water treatment, ensuring water remains biologically safe during distribution to homes and businesses. However, once delivered, these disinfectants can pose health risks and cause long-term damage to plumbing systems. Carbon filtration remains the most effective and proven method for reducing chlorine, chloramines, and various other contaminants, including heavy metals like lead and mercury, pesticides, volatile organic compounds (VOCs), trihalomethanes (THMs), toxic organics, phenols and tannins. In addition to health concerns, chlorine, chloramines and organic compounds can negatively affect water's taste and odor

### **KEY FEATURES**

Chlorine Reduction: Novo TO and TOK filters use high-quality AQUAFINE® granular activated carbon (GAC) to adsorb chlorine and organic compounds, significantly improving water quality.

Chloramine Reduction: : Novo DFTOC, DFTOCK and DFCLA filters use AQUAFINE® catalytic granular activated carbon to reduce chloramine, chlorine and organic compounds. **Optional KDF:** DFTOK and DFTOCK models feature a KDF protector that controls rotten egg odor caused by sulphate reducing bacteria that can occur in carbon filters on some municipal water supplies in warm water markets (available only in the U.S.A.).

**Tank Features:** Moisture wicking neoprene tank jacket included on all pressure tanks.

Four Line Touch Pad LCD Display No-touch

rotating information

the time, date, and hardness.

display. Just set

### **VALVE FEATURES**

**Unique Bypass Design** Integrated turbine meter saves space, eliminates

connections and is more durable.

True 1" Porting
For high-flow applications.

1" 90-Degree Elbows
Included for easy installation.

Timesaving Quick
Connect Fittings &
Pre-Installed Bypass
Quick connect
fittings on bypass, drain line (10' included), brine line and power cord.

NSF

48-Hour Programming

Memory Automatic programming restore for up to 48 hours

during power loss.

# **Technical Specifications**

### PROFESSIONALLY ENGINEERED FOR PERFORMANCE

### **489 CARBON FILTERS**

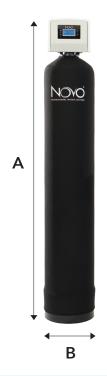
Item #	Model	Media (Cu Ft)	Flow Rate			Pressure			Shipping			
			Service	Peak	Backwash	Tank Size (inches)	Pipe Size (inches)	Media Loaded	Weight (lbs)	Capacity		
TASTE & ODOR FILTERS (SINGLE TANK, AQUAFINE* GRANULAR ACTIVATED CARBON - COCONUT SHELL)												
15060754	NVO489DFTO-100	1.0 ft <sup>3</sup>	5.0 US gpm	7.0 US gpm	4.0 US gpm	9 x 48	1"	Yes	60 lbs	750,000 gal		
15060755	NVO489DFTO-150	1.5 ft <sup>3</sup>	7.0 US gpm	10.0 US gpm	5.0 US gpm	10 x 54	1"	Yes	78 lbs	1,100,000 gal		
15060756	NVO489DFTO-200	2.0 ft <sup>3</sup>	10.0 US gpm	12.0 US gpm	7.0 US gpm	12 x 52	1"	Yes	95 lbs	1,500,000 gal		
15060757	NVO489DFTO-300	3.0 ft <sup>3</sup>	12.0 US gpm	15.0 US gpm	10.0 US gpm	14 x 65	1"	No	138 lbs	2,250,000 gal		
Item #	Model	Media (Cu Ft)	Service	Flow Rate Peak	Backwash	Pressure Tank Size (inches)	Pipe Size (inches)	Media Loaded	Shipping Weight (lbs)	Capacity		
TA	ASTE & ODOR FILTERS WITH	KDF (SIN	GLE TANK, AQUA	AFINE® GRANU	LAR ACTIVATI	ED CARBON W	ITH KDF85) A	vailable o	nly in the U.	S.A.		
15060759	NVO489DFTOK-100	1.0 ft <sup>3</sup>	5.0 US gpm	7.0 US gpm	4.0 US gpm	9 x 48	1"	Yes	60 lbs	750,000 gal		
15060760	NVO489DFTOK-150	1.5 ft3	7.0 US gpm	10.0 US gpm	5.0 US gpm	10 x 54	1"	Yes	78 lbs	1,100,000 gal		
15060761	NVO489DFTOK-200	2.0 ft <sup>3</sup>	10.0 US gpm	12.0 US gpm	7.0 US gpm	12 x 52	1"	Yes	95 lbs	1,500,000 gal		
Item #	Model	Media (Cu Ft)	Service	Flow Rate Peak	Backwash	Pressure Tank Size (inches)	Pipe Size (inches)	Media Loaded	Shipping Weight (lbs)	Capacity		
Item #		(Cu Ft)	Service REDUCTION FIL	Peak		Tank Size (inches)	(inches)		Weight	Capacity		
Item #		(Cu Ft)		Peak		Tank Size (inches)	(inches)		Weight	Capacity 750,000 gal		
	СНІ	(Cu Ft)	REDUCTION FIL	Peak TERS (SINGLE	TANK, AQUAI	Tank Size (inches) FINE® CATALY	(inches)	Loaded	Weight (lbs)			
15060764	CHL NVO 489DFTOC-100	(Cu Ft) ORAMINE 1.0 ft <sup>3</sup>	REDUCTION FILE	Peak TERS (SINGLE 7.0 US gpm	TANK, AQUAI 4.0 US gpm	Tank Size (inches) FINE® CATALYT 9 x 48	(inches)  TIC CARBON)  1"	<b>Loaded</b> Yes	Weight (lbs)	750,000 gal		
15060764 15060765	CHL NVO 489DFTOC-100 NVO 489DFTOC-150	(Cu Ft)  ORAMINE  1.0 ft <sup>3</sup> 1.5 ft <sup>3</sup>	REDUCTION FILE 5.0 US gpm 7.0 US gpm	Peak TERS (SINGLE 7.0 US gpm 10.0 US gpm	TANK, AQUAL 4.0 US gpm 5.0 US gpm 7.0 US gpm	Tank Size (inches)  FINE* CATALY  9 x 48  10 x 54	(inches)  TIC CARBON)  1"  1"	Yes Yes	Weight (lbs)  60 lbs 78 lbs	750,000 gal 1,100,000 gal		
15060764 15060765 15060766	CHL NVO 489DFTOC-100 NVO 489DFTOC-150 NVO 489DFTOC-200	(Cu Ft)  ORAMINE  1.0 ft <sup>3</sup> 1.5 ft <sup>3</sup> 2.0 ft <sup>3</sup>	5.0 US gpm 7.0 US gpm 10.0 US gpm	Peak TERS (SINGLE 7.0 US gpm 10.0 US gpm 12.0 US gpm	TANK, AQUAL 4.0 US gpm 5.0 US gpm 7.0 US gpm	Tank Size (inches) FINE* CATALY 9 x 48 10 x 54 12 x 52	(inches)  TIC CARBON)  1"  1"  1"	Yes Yes Yes Yes	Weight (lbs)  60 lbs 78 lbs 95 lbs	750,000 gal 1,100,000 gal 1,500,000 gal		
15060764 15060765 15060766 15060767 Item #	CHI NVO 489DFTOC-100 NVO 489DFTOC-150 NVO 489DFTOC-200 NVO 489DFTOC-300	1.0 ft <sup>3</sup> 1.5 ft <sup>3</sup> 2.0 ft <sup>3</sup> 3.0 ft <sup>3</sup> Media (Cu Ft)	5.0 US gpm 7.0 US gpm 10.0 US gpm 12.0 US gpm	Peak TERS (SINGLE 7.0 US gpm 10.0 US gpm 12.0 US gpm 15.0 US gpm Flow Rate Peak	4.0 US gpm 5.0 US gpm 7.0 US gpm 10.0 US gpm	Tank Size (inches)  FINE* CATALY*  9 x 48  10 x 54  12 x 52  14 x 65  Pressure Tank Size (inches)	(inches)  TIC CARBON)  1"  1"  1"  Pipe Size (inches)	Yes Yes Yes No Media Loaded	Weight (lbs)  60 lbs 78 lbs 95 lbs 138 lbs Shipping Weight (lbs)	750,000 gal 1,100,000 gal 1,500,000 gal 2,250,000 gal Capacity		
15060764 15060765 15060766 15060767 Item #	CHI NVO 489DFTOC-100 NVO 489DFTOC-150 NVO 489DFTOC-200 NVO 489DFTOC-300  Model	1.0 ft <sup>3</sup> 1.5 ft <sup>3</sup> 2.0 ft <sup>3</sup> 3.0 ft <sup>3</sup> Media (Cu Ft)	5.0 US gpm 7.0 US gpm 10.0 US gpm 12.0 US gpm	Peak TERS (SINGLE 7.0 US gpm 10.0 US gpm 12.0 US gpm 15.0 US gpm Flow Rate Peak	4.0 US gpm 5.0 US gpm 7.0 US gpm 10.0 US gpm	Tank Size (inches)  FINE* CATALY*  9 x 48  10 x 54  12 x 52  14 x 65  Pressure Tank Size (inches)	(inches)  TIC CARBON)  1"  1"  1"  Pipe Size (inches)	Yes Yes Yes No Media Loaded	Weight (lbs)  60 lbs 78 lbs 95 lbs 138 lbs Shipping Weight (lbs)	750,000 gal 1,100,000 gal 1,500,000 gal 2,250,000 gal Capacity		
15060764 15060765 15060766 15060767 Item #	CHL NVO 489DFTOC-100 NVO 489DFTOC-150 NVO 489DFTOC-200 NVO 489DFTOC-300  Model  HLORAMINE REDUCTION F	(Cu Ft)  ORAMINE  1.0 ft <sup>3</sup> 1.5 ft <sup>3</sup> 2.0 ft <sup>3</sup> 3.0 ft <sup>3</sup> Media (Cu Ft)	5.0 US gpm 7.0 US gpm 10.0 US gpm 12.0 US gpm Service	Peak TERS (SINGLE 7.0 US gpm 10.0 US gpm 12.0 US gpm 15.0 US gpm Flow Rate Peak TANK, AQUAF	TANK, AQUAL 4.0 US gpm 5.0 US gpm 7.0 US gpm 10.0 US gpm	Tank Size (inches)  FINE* CATALY*  9 x 48  10 x 54  12 x 52  14 x 65  Pressure Tank Size (inches)  IC CARBON W	(inches)  TIC CARBON)  1"  1"  1"  Pipe Size (inches)	Yes Yes Yes No Media Loaded	Weight (Ibs)  60 lbs 78 lbs 95 lbs 138 lbs Shipping Weight (Ibs)	750,000 gal 1,100,000 gal 1,500,000 gal 2,250,000 gal Capacity		

ALL FILTERS								
REGENERATION TYPE	DOWNFLOW (COCURRENT)							
PLUMBING CONNECTIONS	INCLUDES 1" 90° NPT ELBOWS							
ELECTRICAL REQUIREMENTS	INPUT 120V 60 Hz - OUTPUT 12V 650mA							
WATER TEMPERATURE LIMITS	MIN 40° - MAX 110° F (4° - 43° C)							
WATER PRESSURE LIMITS	MIN 30 - MAX 125 PSI (207 - 862 KPA)							

### **DIMENSIONS**

A x B (inches)

NVO485DF Carbon Filters	100	150	200	300
TANK/VALVE	56.25 x 9.0	62.25 x 10.0	60.5 x 12.0	74.25 x 14.0















**Trouble Shooting** 



Parts Breakdown



Programming Guide



Warranty Sheet











