

AMMONIATRAPP™ + CRYSTOLITE™ SYSTEM

POWERED BY WATCH WATER® INNOVATION

TWO-STEP ADVANCED AMMONIA NITROGEN REMOVAL

STEP 1: AMMONIATRAPP™ – AUTOIONIZATION & TRAPPING

Media: Proprietary TrappSorb® magnesium oxide (MgO) beads

Process: At pH 8.0+, ammonia nitrogen (NH₃-N) undergoes **autoionization** into ammonium ions

Function: TrappSorb® surface selectively exchanges & traps ammonium ions, reducing ammonia load before downstream treatment

Design: Pressure vessel with inlet/outlet head only (no valve) operating in upflow configuration for continuous contact

Benefits: High selectivity for NH₃⁺-N
Eco-friendly, Chemical-free,
Long media life, Regenerable

STEP 2: CRYSTOLITE™ – FILTRATION & POLISHING

Media: Light reddish Crystolite® filtration media (grain size 0.6 – 1.4 mm)

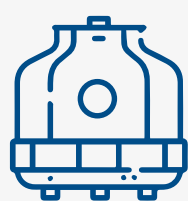
Process: Removes precipitated magnesium, nitrates, silicates, and hydroxides formed during Step 1

Function: Provides a final polishing stage, ensuring clear, safe water

APPLICATIONS



Municipal
Water Treatment



Industrial &
Cooling Water



Aquaculture &
Fish Farming



Certified as to
NSF/ANSI/CAN 61 & 372
by WQA and IAPMO R&T



TWO-STEP INTEGRATION ENSURES MAXIMUM REMOVAL OF AMMONIA NITROGEN

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