PHYSAN 20®

COMMERCIAL MIXING & INJECTION MATRIX FOR RECIRCULATING SYSTEMS

PRECISION SANITATION

Eliminate waterborne Pythium, Phytophthora, and algae loops instantly without risking crop health.

BIOFILM STRIP ACTION

Active surfactants actively clear organic slime, strip out biofilms, and keep emitters operating freely.

RESIDUAL POWER

Highly stable compound that won't outgas rapidly like chlorine or ozone, saving system maintenance costs.

INJECTOR STOCK TANK CALCULATIONS & DOSING GUIDE

APPLICATION	1:100 (1%) INJECTOR SETTING	1:200 (0.5%) INJECTOR SETTING	1:128 (1 OZ/GAL) INJECTOR SETTING	DIRECT INJECTION	FREQUENCY
ON CROPS: Overhead irrigation/ spray Intermittent Injection	**6.6 fl. oz.** of Physan 20 per gallon of stock water	**13.2 fl. oz.** of Physan 20 per gallon of stock water	**8.4 fl. oz.** of Physan 20 per gallon of stock water	1:1,942 (or 0.05%)	EVERY 14 DAYS
Evaporative Cooling Pads	**0.64 – 2.56 fl. oz.** of Physan 20 per gallon of water	**1.28 – 5.12 fl. oz.** of Physan 20 per gallon of water	**0.82 – 3.28 fl. oz.** of Physan 20 per gallon of water	50 Gal Sump: **3.5 tsp.**	EVERY 14 DAYS
Irrigation System Flush (NO PLANTS PRESENT)	**40 fl. oz.** of Physan 20 per gallon of stock water	**80 fl. oz.** of Physan 20 per gallon of stock water	**51 fl. oz.** of Physan 20 per gallon of stock water	1:333 (or 0.3%)	1-2X A YEAR

OPERATIONAL & ENGINEERING GUIDELINES

- **Stock Tank Preparation:** Always fill the stock container with water first, then add the calculated volume of PHYSAN 20® concentrate to prevent excessive foaming.
- **Testing & Calibration:** Verify output concentration at the furthest inline emitter using Quaternary Ammonium Compound (QAC) test strips before initializing full irrigation cycles.
- **Biofilm Purge Warning:** When performing a system flush (No Plants Present), ensure lines are fully rinsed with clear water before reintroducing crops, as stripped organic debris can temporarily clog micro-emitters.
- **Cooling System Maintenance:** Regular cooling pad dosing eliminates stagnant odors and aggressively controls algae scale that limits airflow efficiency.