

Agrifirst Cooling Pad

Agrifirst 7090 Cooling Pad — cellulose evaporative pad for fan & pad polyhouse. 8-12°C temperature drop. High efficiency, long life. Buy from Agrifirst.



3x faster

cooling with large evaporative surface

2x better

airflow with 7mm flute design

4x improved

crop health with temperature control

ABOUT

Cellulose Evaporative Cooling Pad — Temperature Drop System for Fan & Pad Polyhouse

Agrifirst Cooling Pad is a high-efficiency cellulose evaporative cooling pad (model 7090) that forms the cooling wall in fan & pad polyhouse systems. Hot ambient air passes through these water-saturated pads and emerges 8–12°C cooler through the process of evaporative cooling — providing the temperature reduction that makes summer crop production possible in India's hottest regions.

DESCRIPTION

Agrifirst Cooling Pad (Model 7090) is a high-efficiency cellulose evaporative cooling medium that forms the core of greenhouse fan & pad cooling systems. When hot air passes through these water-saturated honeycomb pads, water evaporates and absorbs heat energy from the air — a natural, energy-efficient process that drops the air temperature by 8–12°C before it enters the greenhouse.

How It Works

Water is continuously trickled over the top of the cooling pad from a distribution system. The pad's honeycomb structure (cross-fluted cellulose) distributes water evenly across a massive surface area. When greenhouse exhaust fans pull hot outside air through this wet pad, evaporation absorbs heat — cooling the air naturally. This cooled, humidified air then flows across the growing area.

Key Features

- **8–12°C Temperature Drop** — Effective cooling even when ambient temperatures exceed 45°C
- **7090 Honeycomb Design** — Cross-fluted angles (45°/45°) maximize water distribution and air contact
- **High Saturation Efficiency** — 90%+ cooling efficiency at recommended air speeds
- **Self-Cleaning** — Cross-fluted design resists mineral buildup and algae clogging
- **3–5 Year Life** — Durable cellulose construction with proper water management

Technical Specifications

Model	7090 (cross-fluted honeycomb)
Material	Impregnated cellulose paper
Thickness	150mm (standard) / 100mm
Pad Dimensions	600mm × 600mm / 600mm × 900mm / 600mm × 1500mm / 600mm × 1800mm
Flute Angle	45°/45° cross-fluted
Cooling Efficiency	90%+



AGRIFIRST - FARMERS FIRST

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Air Speed 1.0–1.5 m/s (recommended through pad face)
Life 3–5 years (with proper water treatment)

GALLERY



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