

DATASHEET · AGRICULTURE & FOOD SCIENCE

HIPS Potted Plant Phenotyping System.

SKU AGR-0027 Spec v1 Rev. 2026-07-12

DATASHEET · P

AGR-

Rev 2026

PREVIEW — FIELDS F



PRODUCT FAMILY

ANIMAL MODEL

APPLICATION

COUNTRY OF ORIGIN

MFG. STANDARD

LOT TRACEABLE

No

VERIFIED

Spec v1 · 2026-07-12

PRODUCT SPECIFICATIONS

FROM PUBLISHED PROD

AVAILABLE IMAGING MODALITIES	2D, 3D, Hyperspectral	2D MORPHOLOGICAL PARAMETERS	Contour Area (Top View, Side View), Convex Hull Area (Top View, Side View), Canopy Height, Canopy Volume, Leaf Curling Degree, Leaf Apex Greenness Retention, Senescence Degree, Compactness, Eccentricity
3D PHENOTYPIC ANALYSIS	Volume, Surface Area, Biomass; full-scale morphological parameter and color trait analysis from high-precision 3D models	HYPERSPECTRAL ANALYSIS — NUTRITIONAL & PHYSIOLOGICAL	Plant nutritional analysis, water use efficiency, fertilizer use efficiency (genotype/mutant screening), chlorophyll analysis (growth stage, stress, disease), resistance genotype screening
HYPERSPECTRAL ANALYSIS — DISEASE & STRESS	Disease recognition and resistant genotype screening; pest and disease severity analysis via spectral curve comparison of diseased vs. healthy plant tissue; multi-type stress experiment support (heat, cold, salinity, drought)	VEGETATION INDICES CALCULATED	NDVI, RVI, GVI (calculated via AI algorithms)
BIOLOGICAL PARAMETERS ANALYZED	Nitrogen content, chlorophyll content (derived from built-in agricultural models)	SPECTRAL ANALYSIS TOOLS	Automatic canopy spectral curve generation; region-of-interest selection for spectral comparison analysis
CUSTOM MODELING	Fast custom model building using vegetation indices; supports growth, disease, and other research-defined factors	DIFFERENTIAL VISUALIZATION	Quantifies and visualizes difference in mutant growth and nutrient use efficiency
AVAILABILITY	In stock		

Scope.

QTY ITEM

SKU

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PREVIEW — FIELDS F

BILL OF MATERIALS · EXTENDED ATTRIBUTES

ITEM
HIPS Potted Plant Phenotyping System

MATERIALS REFERENCE

0 MATERIAL

CODE	DESCRIPTION	PROPERTIES	USED IN
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Cross-reference.

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PREVIEW — FIELDS F

OPERATING & STERILIZATION ENVELOPES

CONDITIONS, CYCLES, COMPLETION

OPERATING

TEMPERATURE

HUMIDITY

PRESSURE

STORAGE

TEMPERATURE

HUMIDITY

ORIENTATION

STERILIZATION & CLEANING

AUTOCLAVE

GAMMA

AVOID

ETO

WIPE

ANIMAL COMPATIBILITY

BY SPECIES

NOTES

USE & STORAGE

SPECIES	BODY WEIGHT	CHAMBER FIT
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Specifications verified against current published product data. Verified 2026-07-12 · Since 2026-07-12.

Cite: ConductScience AGR-0027, Spec v1, 2026-07-12. conductscience.com/lab/hips-potted-plant-phenotyping-system

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