SECOND DESK

INTERNATIONAL ADVISORY

Climate control & automation

Coordinated greenhouse climate based on crop and weather data

GREENHOUSE & AGRI-TECH



AI-generated illustration | not an actual project reference

Product scope and commercial role

TECHNICAL SCOPE

- Climate computer
- Vent drives
- Fans
- Screens
- Weather station
- Sensing and alarms

SECOND DESK ROLE

Technical-commercial qualification, market development and manufacturer or partner coordination.



Source: Second Desk website | sector image, not project evidence

Design basis and operating envelope

INPUTS REQUIRED BEFORE A COMPARABLE QUOTATION

- Greenhouse area and crop
- Desired temperature and humidity
- Weather extremes
- Control zones
- Utilities

The owner and qualified manufacturer confirm operating conditions and applicable design basis before engineering release.

Engineering and component selection

DESIGN REVIEW POINTS

- Sensor representativeness
- Actuator stroke
- Ventilation capacity
- Curtain logic
- Priority and fail-safe states

Selection trade-off

Assess sensor placement, zoning and fail-safe behavior rather than controller brand alone. Confirm control logic under site weather conditions.

Project drawings, tolerances and design details remain subject to the responsible supplier or engineer.

Representative technical section



AI-generated technical concept | not to scale or for fabrication

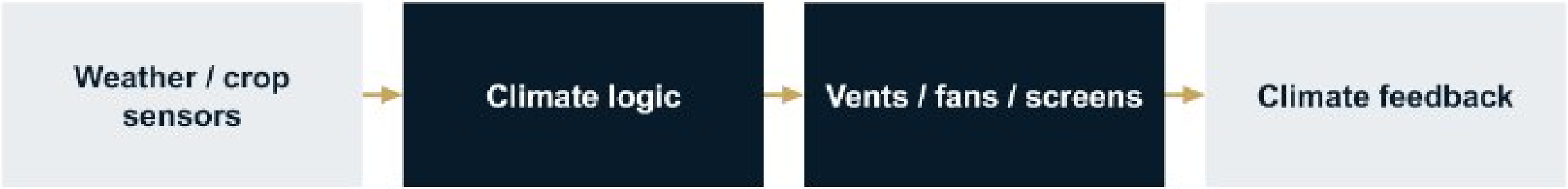
DETAILS TO CONFIRM WITH QUALIFIED SUPPLIER

- Sensor representativeness
- Actuator stroke
- Ventilation capacity
- Curtain logic

Confirm the actual construction and dimensions from controlled supplier drawings or approved samples.

Representative functional arrangement

Conceptual sequence for technical discussion. Actual layout and interfaces depend on the approved specification.



Input boundary

Greenhouse area and crop / Desired temperature and humidity

Operating and output boundary

Setpoint response / Alarm reporting

Fabrication and assembly sequence



AI-generated manufacturing scene, illustrative only

TYPICAL CONTROLLED WORKFLOW

01 Panel wiring

02 Sensor and actuator preparation

03 Network and software configuration

04 Interface testing

Inspection and quality control

TYPICAL QUALITY CONTROL POINTS

01 I/O lists

02 Sensor IDs and calibration

03 Simulated sequence

04 Alarm and safe-state tests



AI-generated sector inspection scene; illustrative only

Inspection methods, sampling, hold points and sign-off depend on the order and approved quality plan.

Factory acceptance and site acceptance

FAT / manufacturing release

- I/O lists
- Sensor IDs and calibration
- Simulated sequence
- Alarm and safe-state tests

SAT / performance verification

- Setpoint response
- Alarm reporting
- Manual override
- Seasonal tuning and handover

Agree test conditions, tolerances, witness authority and punch-list closeout before testing. SAT is distinct from factory release.

Site integration and commissioning readiness



AI-generated application scene; illustrative only

SITE PREREQUISITES

01 Install sensors per approved plan

02 Verify actuator travel

03 Connect stations and networks

Packing, logistics and delivery

PRODUCT-SPECIFIC PACKING CHECKS

01 Protect sensors and controls

02 Label cables

03 Include backups and commissioning records

Define the Incoterms® rule, named place, export documents, insurance responsibilities and site receipt process in the commercial agreement.



AI-generated logistics scene; illustrative only

Technical and commercial risk review

Define manual intervention and interlock priorities; maintain a recorded configuration and commissioning baseline.

Design compliance

Compare the same data sheets, duty and explicitly agreed exclusions.

Technical evidence

Request relevant engineering documents, inspection plan and test records.

Execution risk

Check site access, spares, service scope and the manufacturer's support plan.

Responsibilities across the supply chain

OWNER / EPC	SECOND DESK	MANUFACTURER / CONTRACTOR
Defines duty, project constraints, site interfaces and acceptance authority.	Clarifies the opportunity, identifies suitable suppliers and coordinates technical-commercial communication.	Owns engineering, production, testing, guarantees, site execution and contractual obligations as agreed.

Supplier names, manufacturing capability, certificates, references and country-specific approvals are verified for each enquiry; no standing partner or factory is implied.

RFQ and evidence package

01	**Technical definition**	Duty and design basis, data sheets, scope boundaries and tie-in information.
02	**Supplier evidence**	Capability, drawings, applicable compliance, inspection plan and relevant references.
03	**Commercial offer**	Scope and exclusions, lead time, payment, Incoterms® rule, optional services.
04	**Handover plan**	FAT/SAT where applicable, documentation, spares, training and after-sales.

SECOND DESK

INTERNATIONAL ADVISORY

Discuss your next requirement

Share the application, target market or project, technical specification and expected delivery scope.

seconddeskinternational.com

Contact form: seconddeskinternational.com/#contact | Denizli, Türkiye | Meetings by appointment

SOURCE AND EVIDENCE NOTES

Second Desk sector page • FAO: good agricultural practices for greenhouse vegetables • ICC Incoterms® guidance

Visuals: generated sector illustrations and Second Desk website imagery. Project provenance, supplier capabilities and certification remain unverified unless separately confirmed.