



Ontimized Air System Requirements

							Optimized Air System Requirements
General Informa	ation						
Company:							Address:
Name:							
Phone:							Project name and Location:
Email:							
Site Information	1						
Crops Grown:							
Utilities:	-						
							ctric Other (biomass, waste heat, etc). Describe:
Electrical service:	Volta	age:		Pha	se_		HZ
Control System: None Agro	owtek	<	Argı	us [] Ho	ortima	ax Link4 Microgrow Priva Wadsworth Other
Existing Equipme Boiler BTUHC		city: _					Chiller Tons:
Structure Inforn	natio	on					
Phases							Zones
How many phases	?						How many zones should we design?
Using the lists and dia	agran	ns bel	ow, in	dicat	e dim	ensio	ons and glazings/coverings for your project.
□ New □ Ex	kistinę	9					Glazing/Covering List: 1. Polyethylene Film, Single
House	1	2	3	4	5	6	2 Polyethylene Film Double
Number of ranges:							Height Room J. Knee 3. Acrylic Film, Double
Bays per range:							4. Polycarbonate Sheet, 16mm 5. Polycarbonate Sheet, 8mm
Gutter height (ft):							
Knee wall height							7.1 Olycarbonate Sheet, Triple Wa
(ft): Bay width (ft):							Structure Types: 8. Polycarbonate Sheet, Corrugat 9. Fiberglass
Bay length (ft):							10. Glass, Sealed
Peak height (ft):							A B C D 12. Concrete, 4"
Structure type*:							13. Concrete, 8"
Glazing/Covering	(fron	n liot)					E F G H 15 Wood
) (IIOI	111151)					Growing surface: H 15. Wood 16. Metal
Side wall:							Benches: Floor: 17. Insulated (R-Value)
Gable wall:							Stationary Gutters Concrete
Roof:							☐ Mobile Trays ☐ Troughs ☐ Gravel/Sand
Kneewall:							☐ Dolling ☐ Dofto in pende

Rolling

Rafts in ponds

AC/Dehu Systems	AC/	Deh	u Sy	ster	ns
-----------------	-----	-----	------	------	----

AC/Dehumidification Design Conditions

	Zone1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
	Setpoint					
Crop Type:						
Target VPD:						
Day setpoint temperature (F):						
Day setpoint relative humidity (%):						
Night setpoint temperature (F):						
Night setpoint relative humidity (%):						
	Irrigation		,			
rrigation water input per bay (gal/day):						
Irrigation drain to waste (%):						
	Shade					
Shade curtain energy savings (%):	Limbto					
Lights per room:	Lights					
Wattage per light:						
Air Movement Systems Optimized Air Flow Fans						
•	_					
,	No					
Describe existing fans: HAF V	AF Other					
Dioptocatric® Eastures						
Plantcentric® Features						
□CO2						
Polyduct & Fans						
Root Zone Heating						
Structure						
Evap. Pad & Bug Screen						
☐ No Evap. Pad & Bug Screen						
☐ By Others						

Structure footprint and dimensions Indication of existing and retrofit items Aisles and walkways (locations and sizes) North arrow Doors Bed or bench dimensions Control zones required Utility locations Water system (storage and fertigation) Boiler/Mechanical room desired

476 Primero Court • Cotati, CA 94931 • 1-800-GET-HEAT • BioThermSolutions.com | CED 3 Effective 9.1.24 | ©BioTherm Hydronic, Inc.

Site Sketch Checklist

Please sketch your site, including: