

## A UNIQUE SYSTEM TO OPTIMIZE YOUR DAIRY PRODUCTION



### VENTILATION

- Calf barn ventilation.
- Natural-Tunnel ventilation.
- Smart fan compatible.

### WEATHER STATION INCLUDING RAIN DETECTOR

- Energy saving by stopping the fans according to wind speed and direction.
- Control of natural ventilation openings (panel, curtain, balloon, etc.) to prevent rain infiltration in the building.

### LIGHTS

- Complete light management to ensure the appropriate lighting in all circumstances.

### WATER

- Water consumption: Be informed in real time of the water consumption per cow for better performance.
- Water pressure management: Automatic or remote shut off of the main valve in case of emergency.



### GENERATOR

- Advanced system\* monitoring with alarms (current, voltage, fuel level, etc.)
- \*Smart generator
- Possibility to select the equipment that have to be powered during a power loss.

### HEAT STRESS INDEX (THI)

- Continuous monitoring and real-time notifications to guide you in taking the right action.

### BARN ACCESS

- Using card readers, control electronically the movements on your sites at all times.

### PIT LEVEL

- Tracking and warning sensor system.

### TANK LEVEL

- Detection of low water supply level using a tracking and warning sensor system.

## VALUABLE FEATURES



- 5-YEAR WARRANTY
- Barns can be added as you grow, up to 10 rooms or buildings
- Bypass switches
- Remote manual mode for any emergencies
- High level of lightning protection
- Remote access

## HEAT STRESS INDEX (THI)

### Temperature and Humidity

Dairy Cow Temperature Humidity Index (THI)																				
Temp °F	Humidity%																			
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
72	64	65	65	65	66	66	67	67	67	68	68	69	69	69	70	70	71	71	71	
74	65	66	66	67	67	67	68	68	69	69	70	70	70	71	71	72	72	73	73	
76	66	67	67	68	68	69	69	70	70	71	71	72	72	73	73	74	74	75	75	
78	67	68	68	69	69	70	70	71	71	72	72	73	73	74	74	75	75	76	76	
80	68	69	69	70	70	71	72	72	73	74	75	75	76	76	77	78	78	79	79	
82	69	70	70	71	72	73	73	74	75	75	76	77	77	78	79	79	80	80	81	
84	70	71	71	72	73	73	74	75	75	76	77	78	78	79	80	81	81	82	83	
86	71	72	72	73	74	74	75	76	77	78	79	80	81	81	82	83	84	84	85	
88	72	73	73	74	75	76	77	78	79	80	81	82	83	84	85	85	86	86	87	
90	73	74	74	75	76	77	78	79	80	81	82	83	84	85	86	86	87	88	89	
92	74	75	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	90	
94	75	76	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	91	
96	76	77	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	92	
98	77	78	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	93	
100	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	94	95	
102	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	96	
104	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	97	
106	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	98	
108	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	99	
110	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	100	

When dairy cows have suffered from thermal stress, the consequences can be significant in terms of cow well-being and milk production.

Not only does it affect lactating cows, but also heifers and dry cows.

To avoid dairy cows to suffer from heat stress, it is essential to provide an adequate environment at all stages of their life.

The MAXIMUS controller allows to manage remotely and in real time ventilation, air inlets, cooling system such as misters or sprinklers to maintain ideal temperature and humidity conditions for all your buildings.