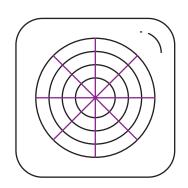


# **ERSTA FRESH**

Cows are top athletes; to perform, a good barn climate is essential. If it is too hot or too cold, it can have a huge impact on the cow.

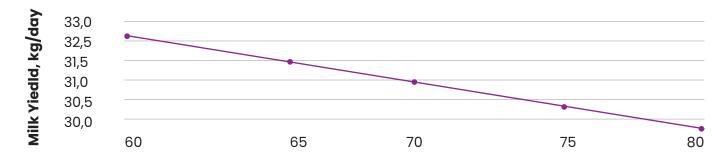


No more lost wind, no more heat stress and, above all, no more unnecessary high costs. How do we think this should be done? Start cooling your cows! With ERSTA ventilation systems you cool your cows efficiently and nothing is lost.

After 17 hours of exposure to an average THI of 68, equated to a 2 kg per day loss in milk yield.

Dairy cows producing more than 35 kg/day need additional cooling when the minimum THI is 65 or greater, or when average is 68 for more than 17 hours/day.

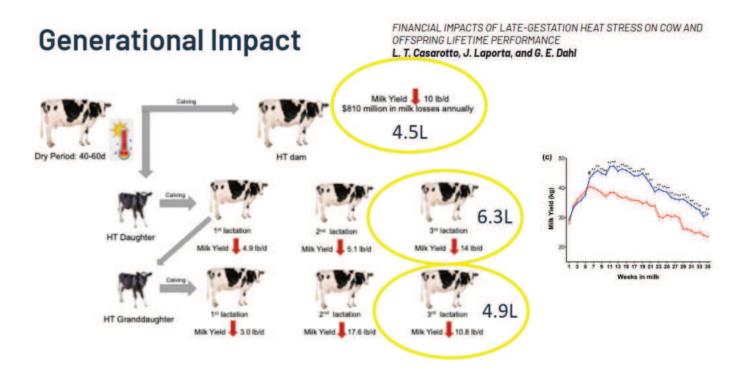
#### **EFFECTS OF HEAT STRESS**

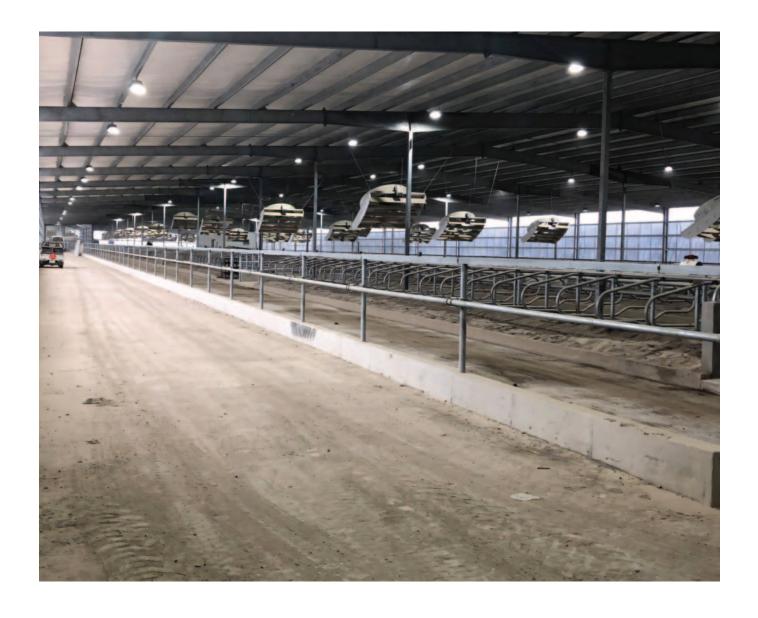


Temperature Humidity Index (THI)

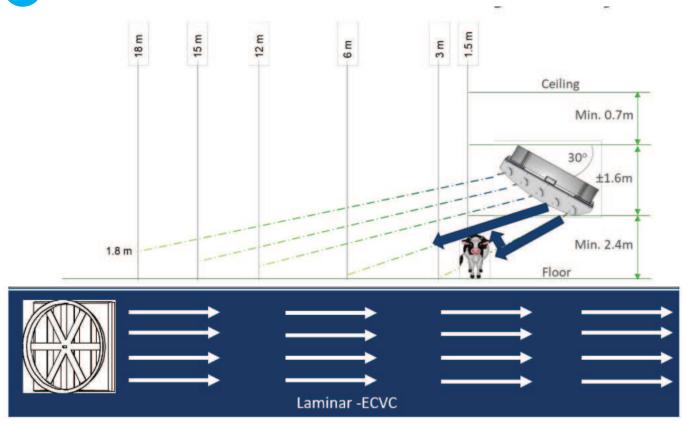


### FINANCIAL IMPACTS OF LATE-GESTATION HEAT STRESS ON COW AND FFSPRING LIFETIME PERFORMANCE



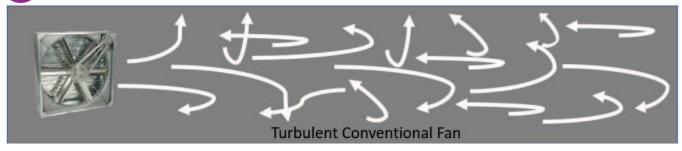


## VENTILATORS ERSTA FRESH





#### **STANDARD FANS**



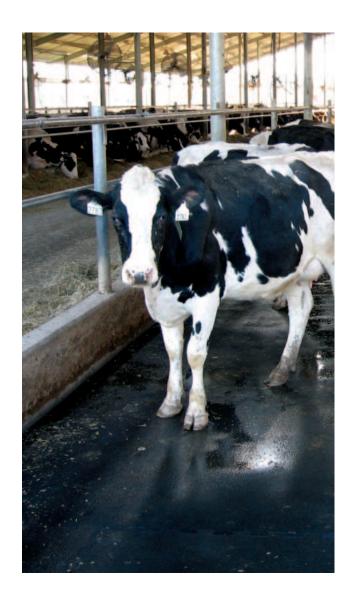


This unique adjustable barn fan is designed so that the louvers give off a laminar flow. That means the airflow can move around the cow in layers of air. Thus, even when your cow is behind a cow or object, it is cooled at all times. A unique system that, among other things, effectively prevents heat stress!

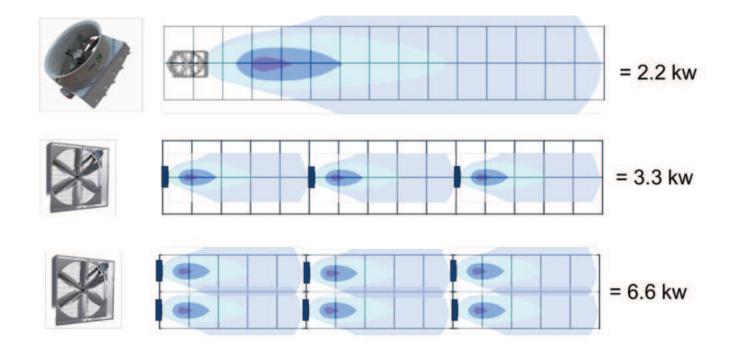
This fan also prevents dust and sand from being blown up, which is very beneficial for the lungs of your cows. In short, the ventilators ERSTAFRESHensures healthy and comfortable cows, so you will see a noticeable difference in milk production and fertility.

#### The fan

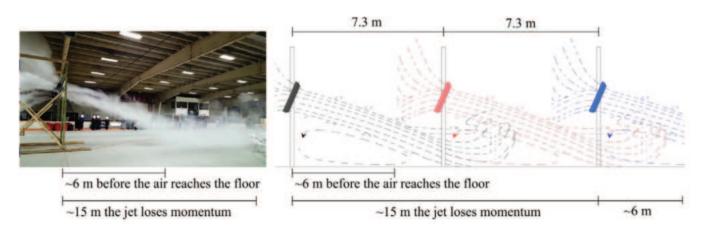
- Directs wind at the cow and does not lose wind to your barn
- Delivers an even, laminar airflow
- Creates a very pleasant environment for your cows
- Boosts noticeably the productivity and health of your cows
- Cools in desired direction through adjustable dampers



	DAIRY COW TEMPERATURE HUMIDITY INDEX (THI)													HUMAN HEAT INDEX Humidity %																	
	Humidity %																														
Temp	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	Temp	40	45	50	55	60	65	70	75	80	85	90
22	64	65	65	65	66	66	67	67	67	68	68	69	69	69	70	70	70	71	71	22											
23	65	66	66	67	67	67	68	68	69	69	70	70	70	71	71	72	72	73	73	23											
24	66	67	67	68	68	69	69	70	70	71	71	72	72	73	73	74	74	75	75	24											
25	67	68	68	69	69	70	70	71	71	72	72	73	73	74	74	75	75	76	76	25											
26	68	69	69	70	70	71	72	72	73	74	75	75	76	76	77	78	78	79	79	26	80	80	81	81	82	82	83	84	84	85	86
27	69	69	70	70	71	72	73	73	74	75	75	76	77	77	78	79	79	80	MO	27	81	82	83	84	84	85	86	88	89	90	91
28	70	70	71	72	73	73	74	75	75	76	77	78	78	79	90	80	81	83.	83	28	83	84	85	86	88	89	90	92	94	96	98
29	71	71	72	73	74	74	75	76	77	78	78	79	80	81	83	82	23.	34	20	29	85	87	88	89	91	93	95	97	100	102	10
30	72	72	73	74	75	76	76	77	78	79	501	81	81	82	51	84	85	25	88	30	88	89	91	93	95	98	100	103	105	130	11
31	72	73	74	75	76	77	78	79	79	20	81	52	83	94	85	25	-	87	88	31	91	93	95	97	100	103	105	109	113	117	12
32	73	74	75	76	77	78	79	807	81	83	83	88	83	85	88	57	88	89	90	32	94	96	99	101	105	108	112	138	123	126	13
33	74	75	76	77	78	79	90	81	8.7	81	84	86	88	40	101	-	90	91	92	33	97	100	103	106	110	3.84	119	124	129	135	
34	75	76	77	78	79	307	81	83	83	81	-	87	88	89	90	91	92	93	94	34	101	104	3108	117	118	121	126	132			
35	76	77	78	50	80	82	83	83	85	85	82	-	28	90	91	92	93	94	95	35	105	109	113	117	123	128	134				
36	77	78	79	81	82	83	84	81	99	87	80	90	91	92	93	94	95	96	98	36	129	114	113	121	129	136					
37	78	79	80	82	81	81	89	78	87	99.	90	91	92	94	95	96	97	98	100	37	114	3.19	124	130	137	1					
38	79	-	82	X3.	88	91	88	88	89	90	91	93	94	95	96	98	99	100	101	38	119	1.34	131	137							
39	90	81.	82	34	83	87	22	29	90	91	93	94	95	97	98	99	101	102	103	39	114	130	137								
40	81	82	10	85	38	20		90	92	93	94	96	97	98	100	101	103	104	105	40	130	137									
41	81	51	50	20	57	83	90	91	93	95	96	97	99	100	101	103	104	106	107	41	136										



#### **HOW VENTILATORS ERSTA WORK?**





### Technical data

Model	Diameter (cm)	Frame (cm)	Capacity (m³/h)	Coverage (m)	Motor	Motor Type	Motor Efficiency	Energy Efficiency (m³/h per Watt)	Number of Louvres
Belt Drive									
ERSTA Fresh 1	142 (55")	160 x 160	45,023	12 x 4	1.1 kW 230/400V CE	AC	IE3	40	4
ERSTA Fresh 2	186 (71")	200 x 200	82,990	18 × 6	2.2 kW 230/400V CE	AC	IE3	39	5
Direct Drive									
ERSTA Fresh 3	91 (36")	114 x 112	24,489	9 x 2	0.55 kW 230V CE	EC	IE5	44	3
ERSTA Fresh 4	142 (55")	160 x 160	42,000	12 x 4	0.92 kW 400V CE	EC	IE4	44	4
ERSTA Fresh 5	186 (72")	200 x 200	75,800	18 x 6	1.8 kW 400V CE	AC	IE5	42	5





We will be happy to answer any questions you may have. Give us a call or send us an email.

#### ERSTA s.r.o.

Chlebov 77, 392 01 Soběslav Czech Republic

+420 702 202 357 petrgondek@ersta.com www.ersta.com