

# interHeat 인 터 히 트

## Smart Heaters

with built-in Thermostat

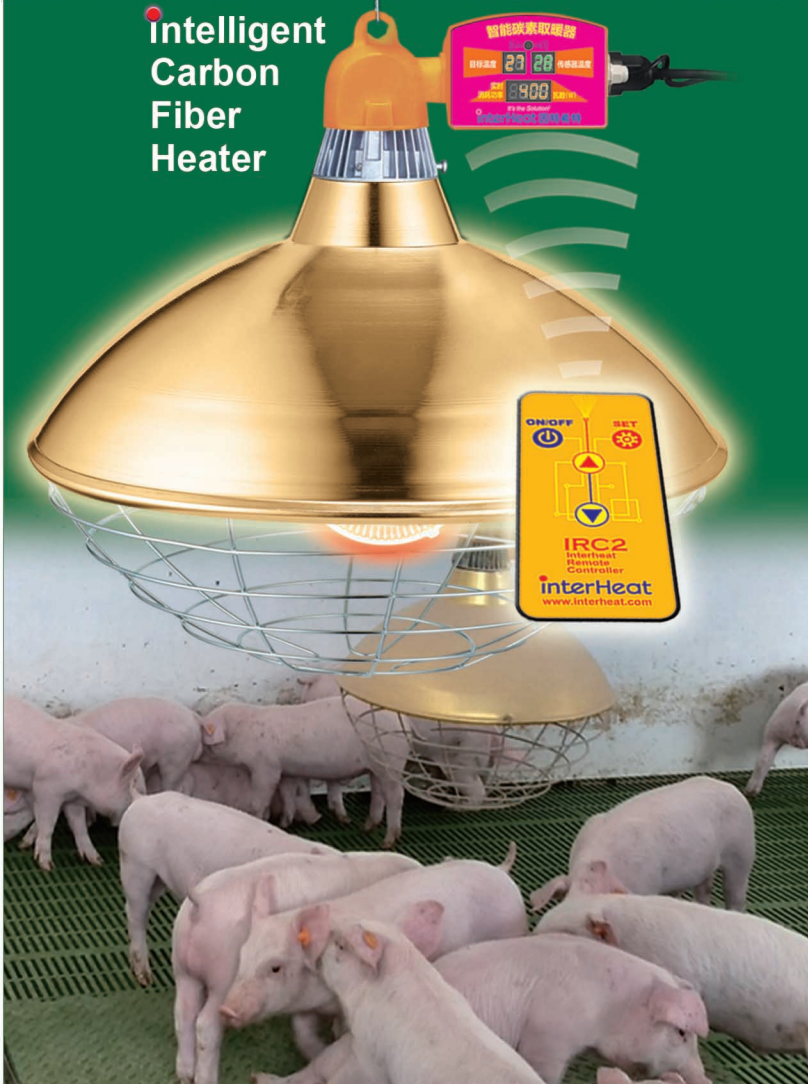
**The Age of Smart Heaters!**  
**We cannot go back!**

For  
Farrowing  
Houses



For Weaning Pigs

Intelligent  
Carbon  
Fiber  
Heater



Certificates



[www.interheat.com](http://www.interheat.com)

# Reality in the farrowing houses!

1. Heat bulbs are burning with full power all the time.
2. Piglets feel too hot and escape from the heat bulb.  
Room temperature keeps rising.
3. Sows suffer from high room temperature.
4. Ventilation fans are operated excessively to lower room temperature for sows.
5. Piglets are not in the desirous environment with proper temperature.



## What are the problems?

1. When room is hot, heat output must be reduced to lower room temperature.  
It is **nonsense** to run ventilation fans to lower room temperature without reducing the heat from the heat bulbs.
2. Controlling all the heat bulbs by a fan controller with all ON or all OFF, **cannot be a solution**.
3. Wasting electricity in the farrowing houses is just like **throwing your money away**.
4. Conventional heat bulb controllers are **too complicated**.  
Even reading the manual doesn't help farmers to understand how to use them.



## intelligent Lamp Protector with built-in Thermostat

### Model I



#### One-to-one control!

Farmers can set the Target Temp. by themselves.

### Model II



Target Temp. for each week is pre-set upon production as follows:

Week 1 : 36°C / Week 2 : 33°C

Week 3 : 30°C / Week 4 : 27°C

Fully automatic control for 4 weeks.

**i-LP300**  
Diameter 21cm

**i-LP300-A**

i-LPB300(-A) : Diameter 30cm  
i-LPN300(-A) : For Nest Cover

Full power is needed only for the first 1 or 2 of about 700 hours over four weeks in the farrowing houses. After that, energy-saving mode starts.

"Max 70% electricity saving for 250W bulb, 60% for 175W, and 50% for 150W.  
In other words, massive electricity is being wasted just like throwing money away."

**For sows, suppress room temperature rise! For piglets, provide optimal temperature!**

## <Europe #1 - R125 235V 175W, i-LP300-A>

### Energy Saving effect of NEW intelligent i-LP300-A vs. Conventional LP300S

\* Test Condition ; R125 235V 175W, Suspension, Ambient Temp. 22°C, Test for 28 Days in a farrowing room

2024-05-23

* Conventional LP300S														
Age of Piglet	Optimal Temp.	Test Condition	Center	Radius 10cm				Radius 20cm				Power Consumption/h (A)	Power consumed for 28 days in farrowing room (B = A x 24h x 28 days)	Cost of Electricity for 28 days (€0.25/kWh) (C = €0.25 x B)
			CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9			
In 28 days after birth	25-35°C	No Temp. Control	57.5°C	53.0	50.1	44.1	44.8	30.9	38.0	34.5	35.5	166Wh	112kWh (100%)	€ 28.00
				48.0°C				34.7°C						
				41.4°C										
1) Heat bulb burns with full power at all times without any control. Electricity is wasted for nothing.														
2) Sows and piglets suffer from high heat.														
3) Ventilation fans run excessively to lower temperature inside a farrowing room.														

* intelligent i-LP300-A														
Age of Piglet	Optimal Temp.	Test Condition	Center	Radius 10cm				Radius 20cm				Power Consumption/h (A)	Power consumed for 28 days in farrowing room (B = A x 24h x days in farrowing houses)	Cost of Electricity for 28 days (€0.25/kWh) (C = €0.25 x B)
			CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9			
Day of Birth	35°C	Target Temp. 36°C (Temp. Rise 14°C)	50.6°C	42.2	46.4	45.6	42.5	31.3	31.6	32.8	30.9	144Wh (91%)	24kWh (7 days)	€6.00 (7 days)
				44.2°C				31.7°C						
				37.9°C										
Day 2-7	32°C	Target Temp. 33°C (Temp. Rise 11°C)	50.1°C	49.2	43.9	38.2	37.9	29.5	33.4	30.3	29.1	125Wh (79%)	21kWh (7 days)	€5.25 (7 days)
				42.3°C				30.6°C						
				36.4°C										
Day 8-14	27°C	Target Temp. 30°C (Temp. Rise 8°C)	38.5°C	39.7	33.9	31.5	35.8	29.1	29.5	25.9	27.2	88Wh (54%)	15kWh (7 days)	€3.75 (7 days)
				35.2°C				27.9°C						
				31.6°C										
Day 15-28	25°C	Target Temp. 27°C (Temp. Rise 5°C)	33.6°C	32.7	30.5	29.6	31.4	25.7	25.9	25.1	25.9	60Wh (37%)	10kWh (7 days)	€2.50 (7 days)
				31.1°C				25.7°C						
				28.4°C										
* Total consumption for 28 days in a farrowing room ; Target Temp. is shown between a radius of 10 & 20cm from center at a distance of 50cm under the lamp (similar to temperature on piglets' back).													70kWh (63%)	€ 17.50
1) Individual and optimal temp. control for each group of piglets of different ages in a farrowing room. About 37% electricity costs can be saved with 175W bulbs in pig farms.														
2) Reduce unnecessary heat emitted by bulbs --> Prevent from excessive temperature rise in a farrowing room --> No heat stress to sows and piglets, No excessive operation of ventilation fans.														
3) Easily monitor the temp. on top of the piglets' backs and real-time power consumption with your own eyes.														
4) Extend bulbs' lifespan.														

### Estimated electricity bill savings & offset period by using intelligent Lamp Protector instead of conventional type

\* For a 300-sow pig farm (60 pcs. of farrowing crate = 60 pcs. of 175W bulb)

1. Electricity bill per month using conventional LP300S	$(0.175kW \times 60pcs. \times 24hrs. \times 28days) = 7,056kWh \times €0.25 = €1,764/month$
2. Electricity bill saved after replacing with i-LP300-A	$€1,764 \times 37\% = €653/month$
3. Additional purchase costs for 60 pcs. of i-LP300-A {€37(i-LP300-A) - €15(LP300S)} = €22	$€22 \times 60 pcs. = €1,320$
4. Offset period for additional purchase costs	$€1,320 \div €653 = \text{about 2 months}$

# intelligent Carbon Fiber Heater for Weaning Pigs

Model : i-CPBT-W  
235V & 125V 900W



Waterproof - IPX4



Each intelligent Carbon Fiber Heater  
can warm up about 25 weaning pigs!

Set Target Temp. by farmer



Environment Temp.  
detected by sensor

Real-time power consumption  
can be confirmed by your own eyes.

- > Full power - until Sensor Temp. reaches Target Temp.
- 50% Saving - 1°C higher than Target Temp.
- Turn off - 2°C higher than Target Temp.

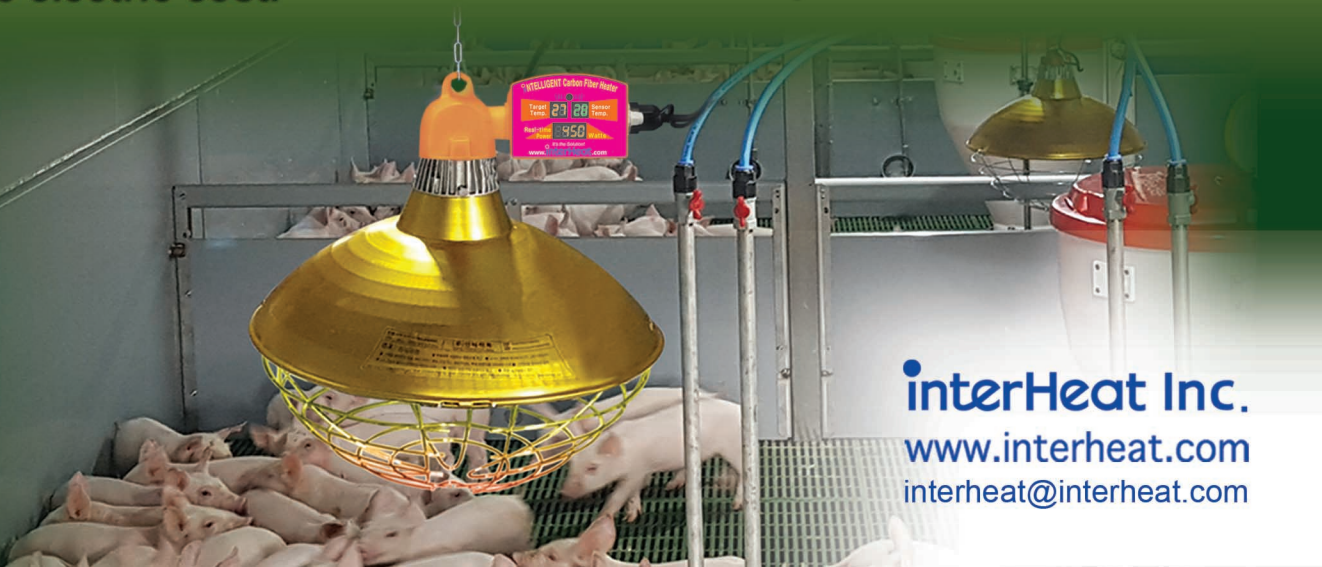
>> Maintain the desired temperature  
and save electric cost!



Save electricity!



Simple! Safe! Convenient!



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