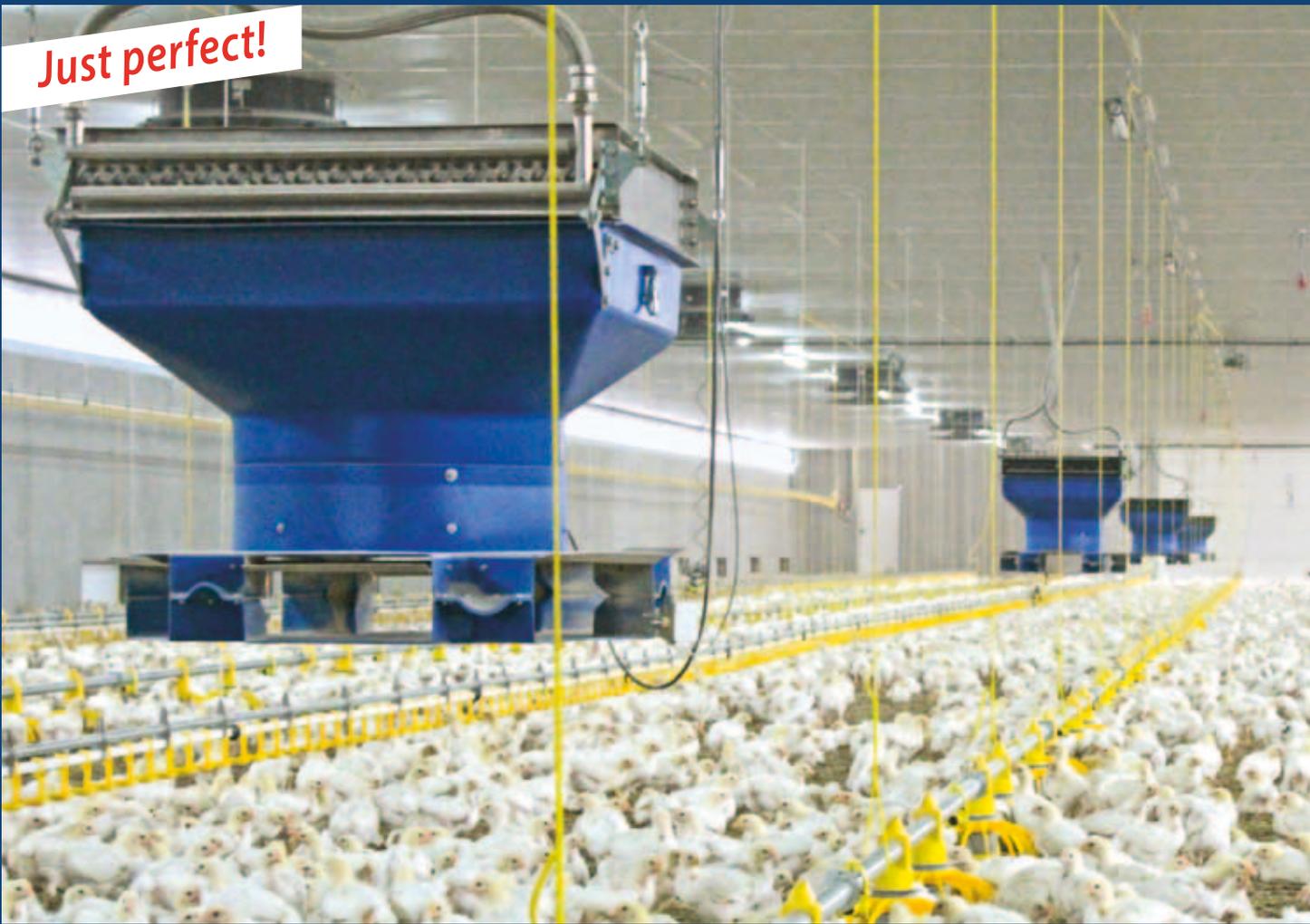
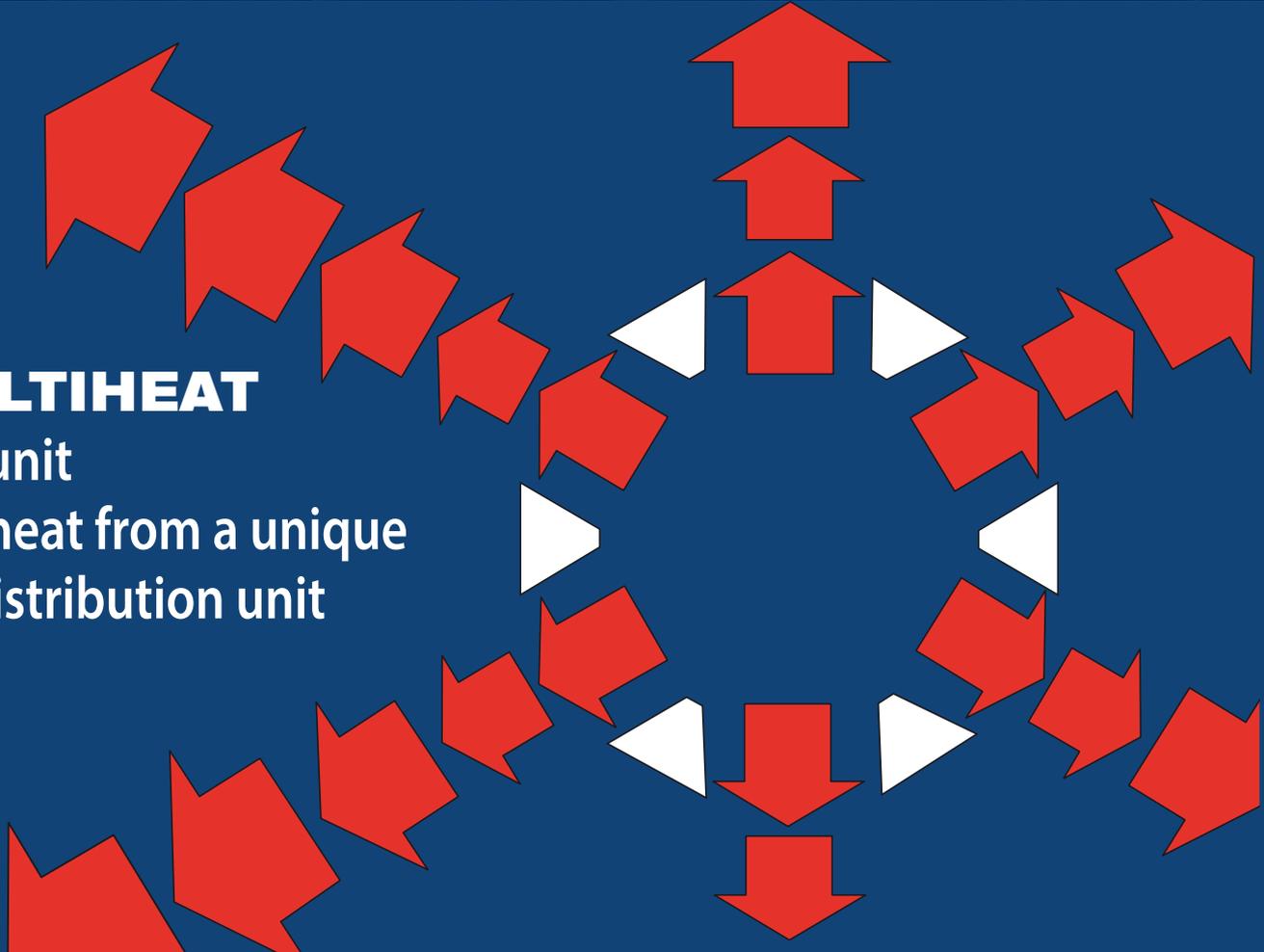


*Just perfect!*



**MULTIHEAT**  
HW unit  
Dry heat from a unique  
air distribution unit





## Multiheat HW unit Dry heat from a unique air distribution unit. Just perfect!

### Multiheat hot water units for heating of poultry buildings

To obtain the best results in poultry buildings an optimum climatic environment is essential for the health and productivity of the birds. Temperature, humidity and CO<sub>2</sub> are the main factors influencing these results. Therefore a perfect heating- and ventilation system is necessary.

Here the Multiheat HW unit is the solution!

The Multiheat HW unit consists of a high efficiency heat exchanger, axial fan and a unique designed distribution device. Hot water is supplied from an external boiler and passes the heat exchanger. The fan sucks the air from inside the building through the heat exchanger and pushes the warm air equally through the 6 air

outlets in a horizontal flow over the birds. The amount of air and the directions can be adjusted by the flaps inside each air outlet. The units are hanging in the middle of the house whereby an ideal distribution is guaranteed to all corners in the building.

### Recirculation duct

Warm air reaches the sidewalls and rises to the ceiling, where it returns to the HW unit for a natural circulation of warm air. This can be improved by installing an inflow rectangular duct placed on top of the unit.

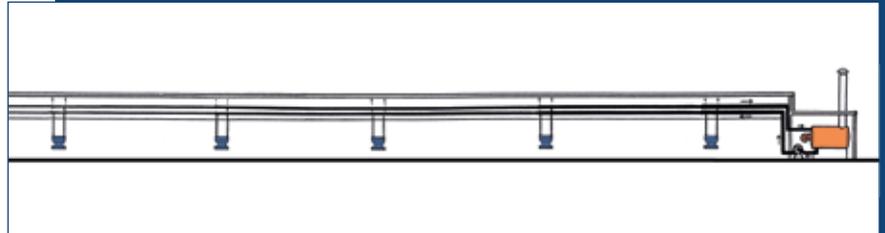
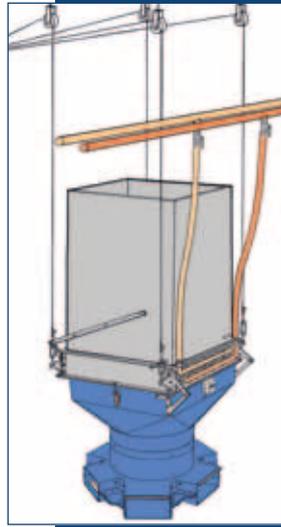
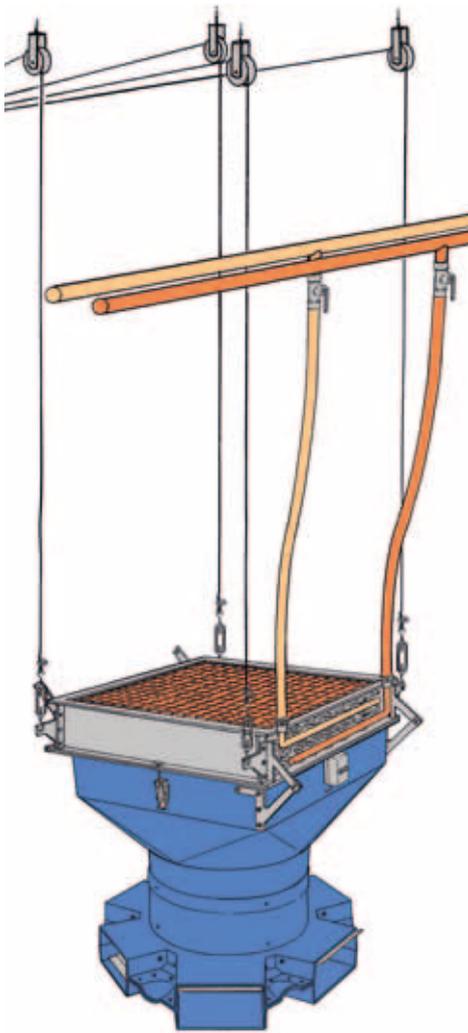
### Advantages

- No CO<sub>2</sub> production
- Perfect distribution of the heat ( $\leq 0,5^{\circ}\text{C}$ )
- Dry litter, less leg problems
- Reduction of Ammonia

- Less energy costs
- Nonhazardous, no open flame
- Improvement of animal health
- Less ventilation needed
- Easy cleaning
- Durable ABS material
- 17 to 110 kW units available
- Possible to use as cooling

### Adjustable flaps in air outlets

The body of the unit is made of durable ABS high heat resistance material. The 6 air outlets are designed in such a way that air is optimal distributed and built-in stainless steel flaps can be adjusted to influence the throw or to even close one outlet. The air can be distributed up to 15 m, subsequently for 30 m wide houses.



A simple click system makes it easy to clean the unit without dismantling. No high pressure cleaner is needed, just a normal water flow. High efficiency fans are available in 1-phase or 3-phase versions and controllable by frequency drives.

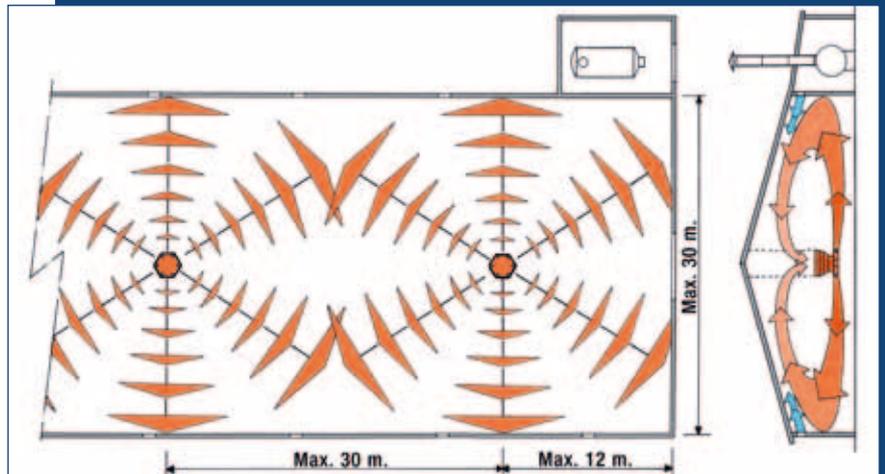
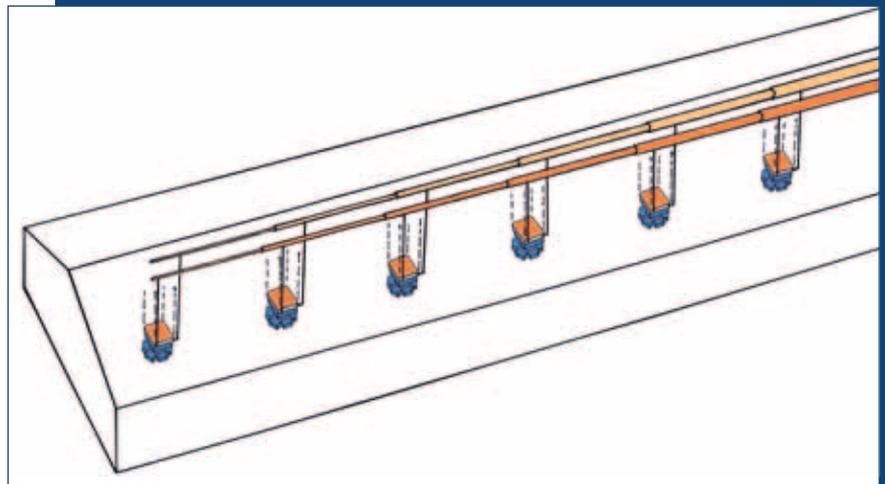
As no CO<sub>2</sub> or humidity is produced by the heaters and no oxygen is needed for burning, the ventilation rate is considerable lower. Most of the time there is no minimum ventilation needed during the first 5 days of life, which decreases the energy costs significantly.

With the duct on the unit recirculation of the air is guaranteed and provides an optimum climate for your birds.

All models can be used in a horizontal position and added with a cone installed along the sidewalls either with a wall bracket or in a frame. The large throw ensures a good distribution along the walls.

### Cooling

Especially during hot weather periods the units can be used in the opposite way for cooling. Cold water cools down the air temperature.



**Technical specifications Multiheat heaters**

*(All types also available in 1 phase)*

		<b>Multiheat 20/30</b>	<b>Multiheat 50/75</b>	<b>Multiheat 60/95</b>	<b>Multiheat 70/110</b>
Air displacement		3.400 m <sup>3</sup> /h	10.400 m <sup>3</sup> /h	10.400 m <sup>3</sup> /h	10.400 m <sup>3</sup> /h
Fan		230V / 2,3A	400V / 1,4A	400V / 1,4A	400V / 1,4A
		320 W / 2800 rpm	570 W / 920 rpm	570 W / 920 rpm	570 W / 920 rpm
Measurement L x W x H		830 x 535 x 860	1115 x 1062 x 920	1115 x 1062 x 950	1115 x 1062 x 980
Water connection		G 3/4"	G 1"	G 5/4"	G 5/4"
Weight incl. water		32 kg	82 kg	86 kg	90 kg
Performance at 90°C water temperature	Ambient temp. at :				
	20°C	28kW - 1,3m <sup>3</sup> /h - 20kPa	75kW - 3,3m <sup>3</sup> /h - 37kPa	93kW - 4,2m <sup>3</sup> /h - 35kPa	111kW - 4,9m <sup>3</sup> /h - 38kPa
	30°C	23kW - 1,0m <sup>3</sup> /h - 14kPa	61kW - 2,7m <sup>3</sup> /h - 26kPa	77kW - 3,4m <sup>3</sup> /h - 24kPa	91kW - 4,0m <sup>3</sup> /h - 27kPa
70°C return temperature	35°C	20kW - 0,9 m <sup>3</sup> /h -12kPa	55kW - 2,4 m <sup>3</sup> /h -21kPa	68kW - 3,0m <sup>3</sup> /h - 20kPa	81kW - 3,6m <sup>3</sup> /h - 22kPa
Performance at 80°C water temperature	20°C	25kW - 1,5m <sup>3</sup> /h - 27kPa	66kW - 3,9m <sup>3</sup> /h - 50kPa	82kW - 4,8m <sup>3</sup> /h - 47kPa	97kW - 5,7m <sup>3</sup> /h - 51kPa
	30°C	20kW - 1,2m <sup>3</sup> /h - 18kPa	52kW - 3,1m <sup>3</sup> /h - 33kPa	65kW - 3,9m <sup>3</sup> /h - 31kPa	77kW - 4,6m <sup>3</sup> /h - 35kPa
65°C return temperature	35°C	17kW - 1,0 m <sup>3</sup> /h -15kPa	46kW - 2,7 m <sup>3</sup> /h -26kPa	57kW - 3,4m <sup>3</sup> /h - 24kPa	68kW - 4,0m <sup>3</sup> /h - 27kPa

*The Multiheat unit 20/30 has no adjustable flaps.  
The Multiheat units 50/75, 60/95 and 70/110 are standard with adjustable flaps.*

**Design Registration**

The unique design of the unit with the air outlets and flaps are patented and registered.

**Maintenance**

Except for the heat exchanger, which is made of coated steel blinds, the body is made of ABS ammonia resistant material. The click system creates an easy cleaning of the unit without any disassembling. All parts are easy accessible and maintenance friendly.

**Technical specifications Multiheat heaters**

*(All types also available in 1 phase)*

		<b>Multiheat 35/55</b>	<b>Multiheat 40/70</b>
Air displacement		8.150m <sup>3</sup> /h	8.000 m <sup>3</sup> /h
Fan		400V / 2,0A	400V / 2,0A
		950 W / 1400 rpm	950 W / 1400 rpm
Measurement L x W x H		800 x 800 x 921	800 x 800 x 924
Water connection		G 1"	G 1"
Weight incl. water		48 kg	51 kg
Performance at 90°C water temperature	Ambient temp. at :		
	20°C	55kW - 2,4m <sup>3</sup> /h - 34kPa	70kW - 3,1m <sup>3</sup> /h - 33kPa
	30°C	45kW - 2,0m <sup>3</sup> /h - 24kPa	57kW - 2,5m <sup>3</sup> /h - 23kPa
70°C return temperature	35°C	41kW - 1,8m <sup>3</sup> /h - 20kPa	51kW - 2,2m <sup>3</sup> /h - 19kPa
Performance at 80°C water temperature	20°C	49kW - 2,8m <sup>3</sup> /h - 49kPa	61kW - 3,6m <sup>3</sup> /h - 45kPa
	30°C	39kW - 2,3m <sup>3</sup> /h - 39kPa	46kW - 2,9m <sup>3</sup> /h - 30kPa
65°C return temperature	35°C	34kW - 2,0m <sup>3</sup> /h - 24kPa	43kW - 2,5m <sup>3</sup> /h - 24kPa

*The Multiheat units 35/55 and 40/70 are standard without flaps. Adjustable flaps are available as an option.*

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