



Big Dutchman®

Pure Line



Zone 3

Innovative housing concept for pig rearing and finishing
– more structure in the pen, greater flexibility, improved welfare –

Zone3

The patented three-zone principle for pig houses

Zone3 is a flexible housing concept for piglet rearing and pig finishing. At the heart of this innovative concept is the patented position of the two feed troughs, which are rotated by 90 degrees relative to the pen's axis. This arrangement clearly separates the pen into three functional areas:

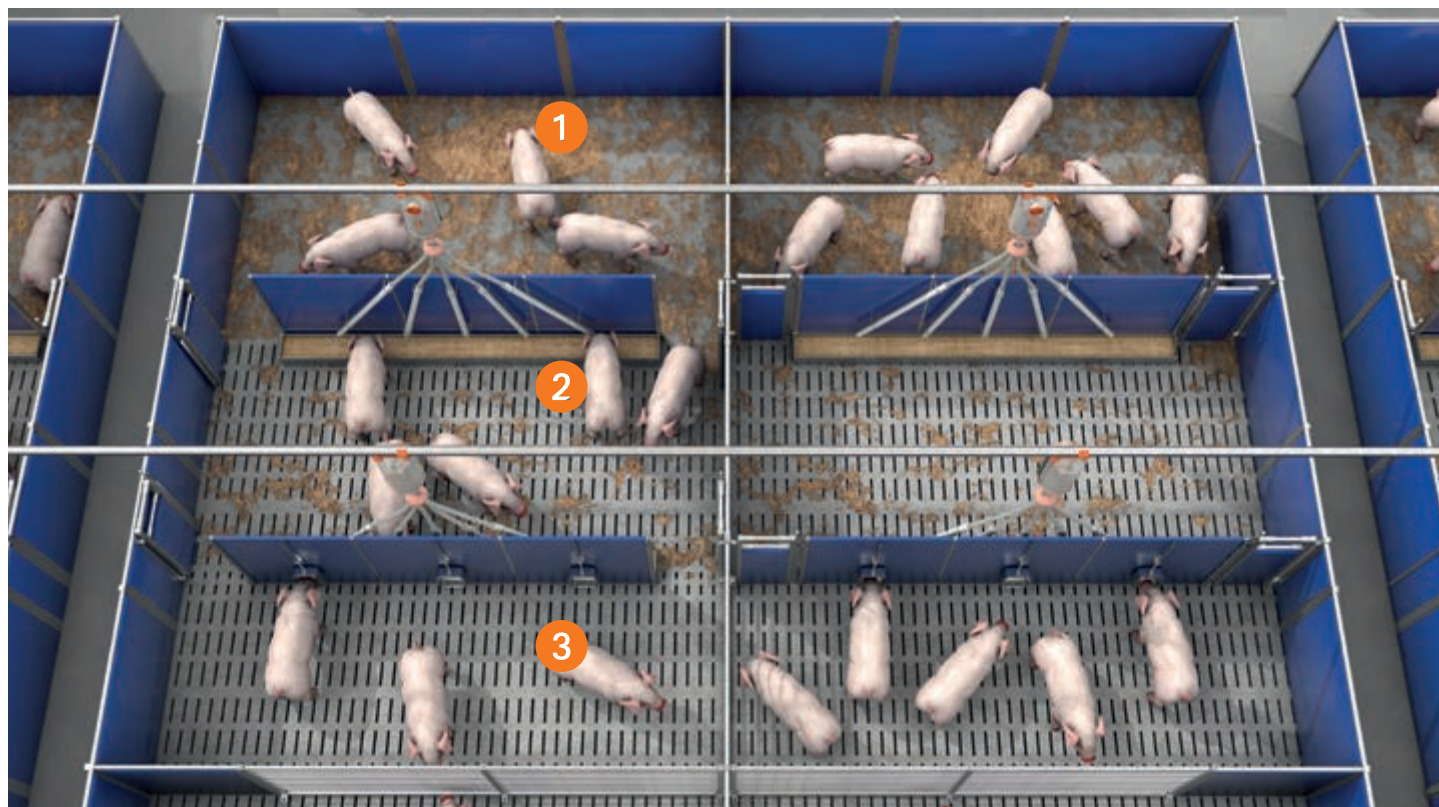
- ➊ resting area,
- ➋ eating area and
- ➌ area for defecating.

This has several advantages:

- Zone3 can be used flexibly for different house layouts;
- the pigs' natural behaviour within the structure of the pen is supported;
- the pigs are more comfortable and the group is calmer;
- the use of manure scrapers reduces emissions in the house;
- less work is required, particularly when removing manure from houses with

continuous solid flooring.

Big Dutchman's dry feeding system DryRapid with SplitFeeding or with dry feeders is the ideal choice for the Zone3 concept. The longitudinal trough enables a low animal/feeding space ratio, which reduces the pigs' feed intake speed and supports a calmer atmosphere in the house. Group sizes of 25 to 35 pigs per pen are planned.



Zone3: enhanced welfare for piglets and finishers

The Zone3 housing concept, developed by Big Dutchman, is characterised by eight important features that are implemented in every layout:

- ➊ the position of the feed troughs makes it easier for the pigs to separate the pen into the different functional areas;
- ➋ the movable or hinged-type horizontal plates with heat source (climate covers) and the solid pen partitions made from PVC create a protected, darker resting area with its own microclimate;

- ➌ in the resting area, bedding and organic enrichment material can be provided (also automatically) thanks to the closed surface;
- ➍ for feeding, either the SplitFeeding system or dry feeders from Big Dutchman can be used, all filled automatically by DryRapid 1500;
- ➎ the pen size is selected to enable optimal use of the available space, thus minimising building costs;
- ➏ the area for defecating is always equipped with drinkers, either nipple

drinkers or drinking bowls. Open grids to the neighbouring pen encourage the pigs to defecate near these grids in the defecating area;

- ➐ the passages between the functional areas can be closed for animal inspection or cleaning;
- ➑ swivelling partitions in the eating area and in the area for defecating make manure removal easier and faster.

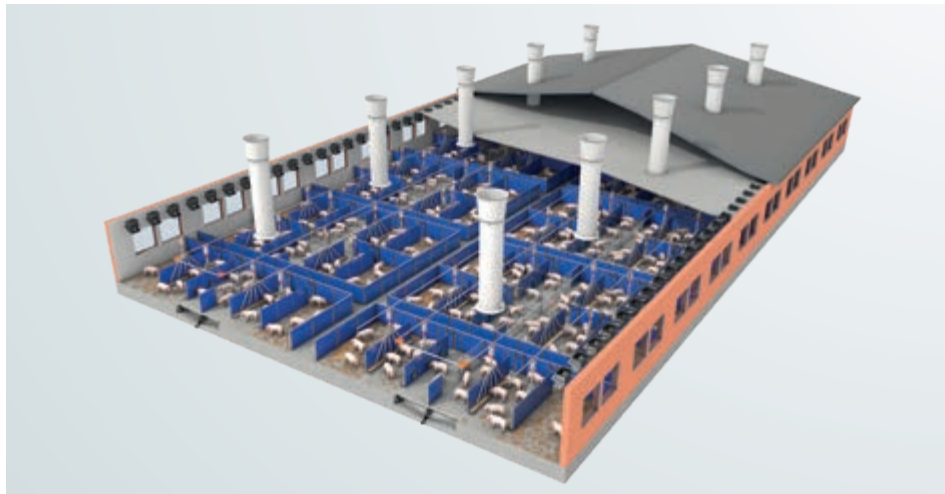
Examples for different house layouts

The Zone3 housing concept is very flexible, allowing very different house layouts that meet animal welfare criteria as well as the individual requirements of the specific farm:

- houses with negative-pressure ventilation,
- houses with outdoor run and balanced-pressure ventilation,
- houses with natural ventilation,
- houses with outdoor run and natural ventilation,
- houses with slatted flooring and underfloor manure scrapers, or with

continuous solid flooring, for specific use in each functional area,

- houses without straw or with straw as enrichment material and bedding,
- double-row houses or houses with lean-to roofs.



House with negative-pressure ventilation

Double-row house

- with inserted ceiling constructed below the attic and with ceiling inlets,
- DryRapid with SplitFeeding,
- slatted floor in the area for defecating, with manure scrapers,
- continuous solid floor in the eating and resting areas,
- resting area with bedding.



House with negative-pressure ventilation

Double-row house

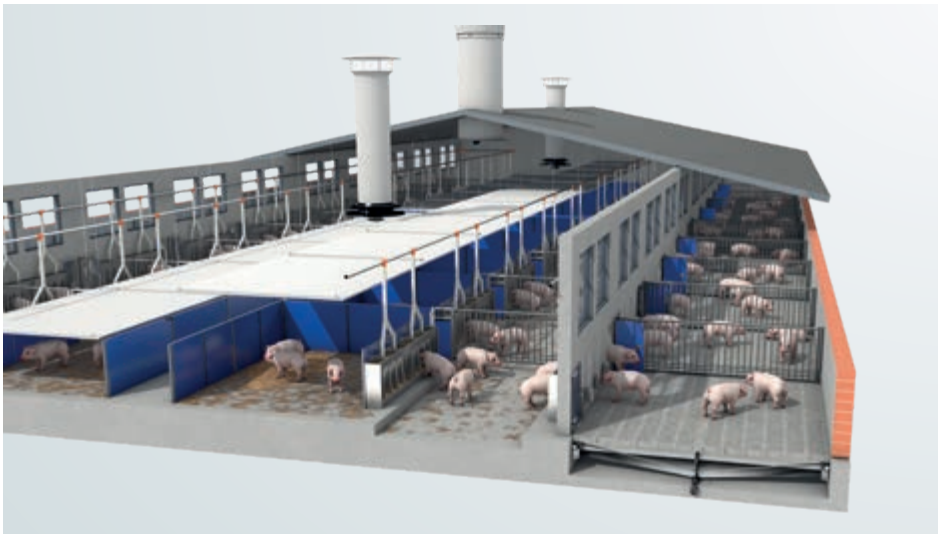
- DryRapid with dry feeders,
- slatted floor in the eating area and in the area for defecating, with manure scrapers,
- continuous solid floor in the resting area,
- resting area with bedding.



House with natural ventilation

Double-row house

- with movable curtains as protection against wind and rain,
- with exhaust air chimneys,
- with movable climate covers,
- DryRapid with SplitFeeding,
- swivelling partitions provide the option of automatic manure removal, supported by small channels for the manure,
- slatted floor in the area for defecating, with manure scrapers,
- continuous solid floor in the eating and resting areas,
- resting area with bedding.



House with outdoor run and balanced-pressure ventilation

Double-row house

- with covered outdoor run which the pigs can reach through snout-operated doors,
- movable climate covers,
- DryRapid and dry feeders,
- slatted floor in the area for defecating, with manure scrapers (outdoor run),
- continuous solid floor in the eating and resting areas,
- resting area with bedding.



House with outdoor run and natural ventilation

Double-row house

- with covered outdoor run,
- movable curtains as protection against wind and rain,
- movable climate covers,
- DryRapid with SplitFeeding,
- slatted floor in the area for defecating, with manure scrapers (outdoor run),
- continuous solid floor in the eating and resting areas,
- resting area with bedding.



House with outdoor run and natural ventilation

Double-row house

- with covered outdoor run,
- movable curtains as protection against wind and rain,
- movable climate covers,
- DryRapid with SplitFeeding,
- continuous solid floor in the eating and resting areas and in the area for defecating (outdoor run),
- resting area with bedding.



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