

GIF User Manual	Presentation of GIF - Pigs
Barn / Building	8230 – 8238 (Sb30-38)
Period	[25.06.01] – [year.mm.dd]
Responsible	Jens Bech Andersen

Topics	Description		
General Information about GIF - Pigs	The pig housing facilities at AU Viborg – Foulum Research Centre cover more th 5,500 m² and are designed to support a wide range of research and development pigets. The unit has capacity for an SPF-approved nucleus herd of 150 sows, with a annual production of approximately 6,000 piglets and finishing pigs. The facilities are equipped with flexible housing systems that enable experimental studies in areas such as nutrition, health, welfare, climate emissions, and human mels.		
	The facilities include, among other things, gestation barns for both individually confined and loose-housed sows, farrowing units, nursery barns, and finishing pig facilities with both individual and group housing. The unit also includes dedicated areas for digestion and balance trials, as well as advanced feeding systems capable of handling more than 30 different feed mixtures simultaneously.		
	Research activities include areas such as nutrition, health, behaviour, breeding, and reproduction, with a particular focus on sustainable food production. Studies are conducted using both conventional and genetically modified animals, and several of the barns have periodically been used for trials with transgenic pigs. The respiration chambers enable precise measurements of greenhouse gas emissions and energy metabolism, contributing to the development of more climate-friendly production systems.		
	The facility is also used for projects related to housing equipment, ventilation, information and communication technology (ICT), and other technical solutions relevant to commercial pig production. The research centre collaborates closely with external partners and has access to laboratory facilities for the analysis of samples such as feed, blood, urine, and tissue.		
Overview of GIF – Pigs Barn Facilities	GIF – Pigs includes the following barn facilities: 1. Finishing Pig Barn (Building 8230 – Sb30) 2. Digestibility Barn + Climate Barn (Building 8233 – Sb33_1 and Sb33_2) 3. Under renovation (Building 8234 – Sb34) 4. Feed Storage and Support Room (Building 8235 – Sb35) 5. Weaner Barns (Building 8236 – Sb36) 6. Farrowing Barn and Service Area (Building 8237 – Sb37) 7. Gestation Barn (Building 8238 – Sb38) 8. Staff Facilities (Building 8232 – Sb32)		



Figure 1. Aerial view of GIF - Pigs

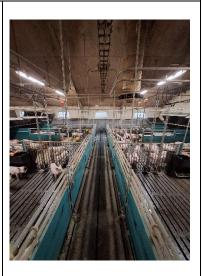
Descriptions of GIF - Pigs Experimental Barns

1. Finishing Pig Barn (Building 8230 – Sb30)

The barn consists of four identical sections designed for loose-housed pigs.

Three of the rooms are equipped with pens for pigs ranging from 30 kg to 200 kg, while the fourth room is intended for pigs from 7 kg to 35 kg.

Ventilation is provided by a neutral pressure system with mechanical air intake and exhaust.





2. Digestibility Barn + Climate Barn (Building 8233 – Sb33_1	A large, open room with the option to install digestibility crates or create flexible rooms and pen layouts. In addition, there are four respiration chambers that can be used to measure, among other things, methane emissions.	
(8233 - Sb33_2)	Consists of four separate rooms with flexible layout options suitable for all animal categories. The barn can house animals of all sizes, and both manure, air, and climate conditions can be separated and measured individually in each room.	
3. (Building 8234 - Sb34)	Under renovation	
4. Feed Storage and Support Room (Building 8235 – Sb35)	Feed storage facility supplying the barns via the central feeding system.	140
5. Weaner Barn (Building 8236 – Sb36)	Ten identical rooms designed as weaner sections with flexible pen layout options. The rooms are intended for loose-housed individual pigs or groups of pigs ranging from 7 kg up to 30–50 kg. Ventilation is provided by a neutral pressure system with mechanical air intake and exhaust.	

6. Farrowing Barn and Service Area (Building 8237 – Sb37)

- Some rooms are designed as farrowing units for sows kept in conventional crates – one per per sow/litter.
- Other rooms are designed as farrowing units for loose-housed sows – one pen per sow/litter.
- One room is set up as a service area, with pens for loose-housed sows and fixed crates for servings.

Ventilation is based on a negative pressure system with diffuse ceiling inlets and outlet vents.





7. Gestation Barn (Building 8238 – Sb38)

The barn is designed as a conventional gestation facility.

It includes 12 traditional pens and 4 large loosehousing pens with the option for deep litter and cafeteria-style feeding.

Ventilation is provided by a neutral pressure system with mechanical air intake and exhaust.

