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Geraldty Transport Units – Crate Size and Capacity

The SAHPA Management Committee member Paul Springett has been liaising with Dr. Rob Marshall who has given us a new calculation to be used in our code of practice for calculating transport unit capacity for “Forced Ventilation” or what I have described in this document as “Thermostatically controlled Ventilation”.

The New Transporter Main Unit built by Geraldty in Germany has 4 thermostatically operated fans which pump air through to each of the 108 crate bays. The New Trailer also built by Geraldty has 3 thermostatically operated fans which pump air through to the 48 crate bays.

Crate Size – the final size which we agreed on was 1050mm wide, 850mm deep and 235mm high. We reduced the depth of the crates so we could maintain a convenient sized central corridor.

This means that the central corridor will be 460mm wide which is slightly wider than the current Semi Trailer (440mm)

Below is a spreadsheet which we will use for all future calculations.

Normal Ventilation											
Type of Crate	Height mm	Width mm	Depth mm	Area cm ²	1 night Divisor	2 night Divisor	Number of Birds 1 night	Number of Birds 2 nights	Rounded Number of Birds 1 night	Rounded Number of Birds 2 night	
Geraldty SAHPA Crate	235	1050	850	2097.38	69.8	80.0	30.0	26.2	30	26	
Thermostatically Control Forced Ventilation											
Type of Crate	Height mm	Width mm	Depth mm	Area cm ³	1 night Divisor	2 night Divisor	Number of Birds 1 night	Number of Birds 2 nights	Rounded Number of Birds 1 night	Rounded Number of Birds 2 night	
Geraldty SAHPA Crate	235	1050	850	2097.38	60.0	70.0	35.0	30.0	35	30	

Therefore the number of birds that the new transporter can carry is :

Race Type	Number of Birds/Crate Thermostatically Ventilated	Main Unit Crates	Main Unit Birds	Trailer Crates	Trailer Birds	Total Birds
One night transport	35	108	3780	48	1680	5460
Two night transport	30	108	3240	48	1440	4680

The capacity of the Main Unit on a 1 night race is 3,780 birds or on a 2 night or more race 3,240.

The capacity of the Trailer on a 1 night race is 1,680 birds or on a 2 night of more race 1,440.

Total capacity for both units being used on 1 night race is 5,460 or 4,680 on a 2 night race.

Yours In Sport,
Gavin Harris
Vice Chairperson – SAHPA
On Behalf of SAHPA Committee of Management