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PRODUCT BULLETIN

Sound Power Measurements for ESTIA Outdoor Units

- Fixed compressor frequency
- Maximum compressor frequency
- NTLN (night time low noise)
- 50% capacity demand
- 75% capacity demand

TOSHIBA are pleased to confirm the sound power values for our existing ESTIA outdoor unit model range.

1. Applicable Models

Sound power testing was completed on the following ESTIA outdoor units:

- HWS-804H-E1
- HWS-1104H-E1
- HWS-1404H-E1
- HWS-P804HR-E1
- HWS-P1104HR-E1
- HWS-1104H8-E1
- HWS-1404H8-E1
- HWS-1604H8-E1





2. Sound Power Measurements

- All sound power measurements were completed with the systems running in the following conditions for heating and cooling mode:
 - Compressor frequency fixed at rated Hz
 - Maximum compressor Hz
 - Night time low noise (NTLN) operation
 - 50% capacity demand (using TCB-KB0S2E accessory)
 - 75% capacity demand (using TCB-KB0S2E accessory)

NOTE: Sound power data for 50% and 75% power peak must be used as "REFERENCE ONLY" due to the method of system control used when the TCB-KB0S2E accessory is fitted

For further information please contact our customer support team on 0870 843 0333, your local representative, your supplier of **TOSHIBA** products or email any enquiries to: - general.enquiries@toshiba-ac.com



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3. Compressor Frequency Fixed at Rated Hz

Fixed Operation									
Model HWS -	804H-E1	1104H-E1	1404H-E1	P804HR-E1	P1104HR-E1	1104H8-E1	1404H8-E1	1604H8-E1	
Heating Rated Hz (dBA)	65.90	63.70	65.30	62.40	63.10	62.40	63.90	65.30	
Cooling Rated Hz (dBA)	64.10	65.20	65.90	62.50	64.70	64.90	64.30	64.80	

- Heating test conditions: Outdoor: 7°CDB/6°CWB, Indoor: 20°CDB/15°CWB
- Cooling test conditions: Outdoor: 35°CDB/-, Indoor: 27°CDB/19°CWB

4. Maximum Compressor Frequency

Maximum Operation									
Model HWS -	804H-E1	1104H-E1	1404H-E1	P804HR-E1	P1104HR-E1	1104H8-E1	1404H8-E1	1604H8-E1	
Heating Max Hz (dBA)	65.10	65.00	67.20	66.20	66.80	63.90	64.70	66.00	
Cooling Max Hz (dBA)	65.60	65.60	67.20	63.20	65.30	65.20	65.40	65.20	

- Heating test conditions: Outdoor: 7°CDB/6°CWB, Indoor: 20°CDB/15°CWB
- Cooling test conditions: Outdoor: 35°CDB/-, Indoor: 27°CDB/19°CWB

5. Night time low noise (NTLN) operation

NTLN Operation									
Model HWS -	804H-E1	1104H-E1	1404H-E1	P804HR-E1	P1104HR-E1	1104H8-E1	1404H8-E1	1604H8-E1	
Heating NTLN Hz (dBA)	63.40	61.90	61.40	59.50	59.40	58.80	58.10	58.80	
Cooling NTLN Hz (dBA)	63.30	61.90	62.00	60.20	59.20	58.70	58.90	58.40	

- Heating test conditions: Outdoor: 7°CDB/6°CWB, Indoor: 20°CDB/15°CWB
- Cooling test conditions: Outdoor: 35°CDB/-, Indoor: 27°CDB/19°CWB



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6. 50% power peak (using TCB-KB0S2E)

50% power peak Operation									
Model HWS -	804H-E1	1104H-E1	1404H-E1	P804HR-E1	P1104HR-E1	1104H8-E1	1404H8-E1	1604H8-E1	
Heating 50% Hz (dBA)	64.60	63.60	63.10	62.60	62.50	63.90	64.40	65.50	
Cooling 50% Hz (dBA)	63.00	63.70	64.20	62.50	63.30	64.20	63.60	64.20	

- Heating test conditions: Outdoor: 7°CDB/6°CWB, Indoor: 20°CDB/15°CWB
- Cooling test conditions: Outdoor: 35°CDB/-, Indoor: 27°CDB/19°CWB

7. 75% power peak (using TCB-KB0S2E)

75% power peak Operation									
Model HWS -	804H-E1	1104H-E1	1404H-E1	P804HR-E1	P1104HR-E1	1104H8-E1	1404H8-E1	1604H8-E1	
Heating 75% Hz (dBA)	64.60	63.60	63.10	62.60	62.50	63.90	64.40	65.50	
Cooling 75% Hz (dBA)	63.00	63.70	64.20	62.50	63.30	64.20	63.60	64.20	

- Heating test conditions: Outdoor: 7°CDB/6°CWB, Indoor: 20°CDB/15°CWB
- Cooling test conditions: Outdoor: 35°CDB/-, Indoor: 27°CDB/19°CWB

