

Appendix 4.5 SWL of PME

Reference	Identification Code	Description	Unit Sound Power Level, dB(A)	Brand	Model	Serial No.	
GW-TM	CNP 001	Air Compressor, air flow < 10m ³ /min	100				
	CNP 002	Air Compressor, air flow > 10m ³ /min and <=30m ³ /min	102				
	CNP 003	Air Compressor, air flow > 30m ³ /min	104				
	CNP 004	Asphalt trower	109				
	CNP 021	Bar bender and cutter (electric)	90				
	CNP 022	Batching plant	108				
	CNP 023	Breaker, hand-held, mass <=10kg	108				
	CNP 024	Breaker, hand-held, mass > 10kg and < 20kg	108				
	CNP 025	Breaker, hand-held, mass >= 20kg and <= 35kg	111				
	CNP 026	Breaker, hand-held, mass > 35kg	114				
	CNP 027	Breaker, excavator mounted (pneumatic)	122				
	CNP 028	Breaker, excavator mounted (hydraulic)	122				
	CNP 029	Ballast tamper, hand-held (electric)	105				
	CNP 030	Bulldozer	115				
	CNP 041	Conveyor belt	90				
	CNP 042	Concrete corer	117				
	CNP 043	Chipper, hand-held (pneumatic)	112				
	CNP 044	Concrete lorry mixer	109				
	CNP 045	Concrete mixer (electric)	96				
	CNP 046	Concrete mixer (petrol)	96				
	CNP 047	Concrete pump, stationary/lorry mounted	108				
	CNP 048	Crane, mobile/berge mounted (diesel)	112				
	CNP 049	Crane, tower (electric)	95				
	CNP 050	Compactor, vibratory	105				
	CNP 061	Derrick barge	104				
	CNP 062	Dredger, chain bucket	118				
	CNP 063	Dredger, grab	112				
	CNP 064	Drill, percussive, hand-held (electric)	103				
	CNP 065	Drill/grinder, hand-held (electric)	98				
	CNP 066	Dumper	106				
	CNP 067	Dump truck	117				
	CNP 081	Excavator/loader, wheeled/tracked	112				
	CNP 101	Generator, standard	108				
	CNP 102	Generator, silenced, 75dB(A) at 7m	100				
	CNP 103	Generator, super silenced, 70dB(A) at 7m	95				
	CNP 104	Grader	113				
	CNP 121	Hoist, passenger/material (pneumatic)	108				
	CNP 122	Hoist, passenger/material (electric)	95				
	CNP 123	Hoist, passenger/material (petrol)	104				
	CNP 141	Lorry	112				
	CNP 161	Paint line marker	90				
	CNP 162	Piling, diaphragm wall, bentonite filter plant	105				
	CNP 163	Piling, diaphragm wall, hydraulic extractor	90				
	CNP 164	Piling, large diameter bored, grab and chisel	115				
	CNP 165	Piling, large diameter bored, oscillator	115				
	CNP 166	Piling, large diameter bored, reverse circulation drill	100				
	CNP 167	Piling, earth auger, auger	114				
	CNP 168	Power pack for hand-held items of PME	100				
	CNP 169	Power rammer (petrol)	108				
	CNP 170	Poker, vibratory, hand-held	113				
	CNP 171	Planer, wood, hand-held (electric)	117				
	CNP 181	Rock drill, crawler mounted (pneumatic)	128				
	CNP 182	Rock drill, crawler mounted (hydraulic)	123				
	CNP 183	Rock drill, hand-held (pneumatic)	116				
	CNP 184	Road planer or miller	111				
	CNP 185	Road roller	108				
	CNP 186	Roller, vibratory	108				
	CNP 201	Saw, circular, wood	108				
	CNP 202	Saw, chain, hand-held	114				
	CNP 203	Saw/groover, concrete (petrol)	115				
	CNP 204	Scraper	119				
	CNP 221	Tug boat	110				
	CNP 222	Tractor	118				
	CNP 241	Ventilation fan	108				
	CNP 261	Winch (pneumatic)	110				
	CNP 262	Winch (electric)	95				
	CNP 263	Winch (petrol)	102				
	CNP 281	Water pump (electric)	88				
	CNP 282	Water pump (petrol)	103				
	CNP 283	Water pump, submersible (electric)	85				
	EPD Sound power levels of other commonly used PME ⁽¹⁾	OCUPME-001	Aerial work platform, working height ≤ 13m	95			
		OCUPME-002	Agitator (electric)	90			
		OCUPME-003	Air blower (electric)	95			
		OCUPME-004	Breaker, electric hand-held, 10kg < mass < 18kg	103			
		OCUPME-005	Breaker, electric hand-held, 18kg ≤ mass ≤ 35kg	108			
		OCUPME-006	Breaker, mini-robot mounted	115			
		OCUPME-007	Concrete burster	90			
		OCUPME-008	Concrete crusher mini-robot mounted	94			
		OCUPME-009	Concrete crusher, hand held	97			
		OCUPME-010	Concrete pump (electric)	109			
		OCUPME-011	Concrete crusher, excavator mounted	103			
		OCUPME-012	Cutter, circular, steel (electric)	112			
		OCUPME-013	Dredger, suction	103			
		OCUPME-014	Drill, hand-held (battery)	89			
		OCUPME-015	Drill, rotary type (diesel)	110			
		OCUPME-016	Excavator, mini-robot mounted	94			
		OCUPME-017	Excavator, hybrid and tracked (with QPME label)	98			
		OCUPME-018	Forklift, LPG, output power ≤ 32kW, speed ≤ 10km/hr	104			
		OCUPME-019	Forklift, LPG, output power ≤ 32kW, 10km/hr < speed ≤ 15km/hr	116			
		OCUPME-020	Forklift, LPG, 32kW < output power ≤ 57kW, speed ≤ 15km/hr	122			
		OCUPME-021	Grout mixer	90			
		OCUPME-022	Grout pump	105			
		OCUPME-023	Generator, portable	100			
		OCUPME-024	Jig-saw, hand-held, wood (electric)	99			
		OCUPME-025	Loader, mini-wheeled, output power ≤ 41kW, speed ≤ 15 km/hr	103			
		OCUPME-026	Piling, vibrating hammer	115			
		OCUPME-027	Poker, vibratory, hand-held (electric)	102			
		OCUPME-028	Power pack (diesel)	100			
		OCUPME-029	Power swivel	100			
		OCUPME-030	Paint line marker (low pressure)	87			
OCUPME-031		Paint line remover	104				
OCUPME-032		Road grinder (petrol)	108				
OCUPME-033		Road sweeper	107				
OCUPME-034		Road ripper, mini-robot mounted	97				
OCUPME-035		Road ripper, excavator mounted	105				
OCUPME-036		Saw, wire	101				
OCUPME-037		Soil pump	103				
OCUPME-038		Water jetting unit (diesel), silenced	94				
OCUPME-039		Water jetting unit (diesel), standard	107				
OCUPME-040		Light goods vehicle, gross vehicle weight ≤ 5.5 tonne	101				
OCUPME-041		Lorry, gross vehicle weight > 38 tonne	112				
OCUPME-042		Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	105				
OCUPME-043		Lorry, with crane/grab, gross vehicle weight > 38 tonne	112				
OCUPME-044		Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	105				
OCUPME-045		Dump truck, gross vehicle weight > 38 tonne	117				
OCUPME-046		Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	105				
OCUPME-047		Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	105				
QPME (from EPD Website)	EPD-01226R	Asphalt Paver	104	VOLVO	ABG5770	VCEP5770KH770071	
	EPD-11819	Generator	88	AIRMAN	SDG45S-3B2	13A3B20594	
	EPD-10979	Air Compressor	98	AIRMAN	PDS390S-4C1	72-4C10132	
	EPD-10792	Crane, mobile	101	KOBELCO	CKS900	GH04103606	
	EPD-10143	Crane, mobile	100	SUNWARD - CUMMINS	SWTC10	S00113	
	EPD-10665	Road Roller	94	Kanto	KV40DS	3067	
	EPD-10780	Excavator, wheeled/tracked	97	KOMATSU	PC138US-8	34260	
	Ref 1	Electric Chain Saw	101	Makita	UC3541A		
	Ref 2	Giken Piler and Power-pack	94				
	Ref 3	Quieter Type Blade Saw	106				
Ref 4	Launching Gantry	100					

Notes:
(1) The identification code for 'Other Commonly Used PME' is assigned for cross referencing in various appendices for assessment purpose only. Reference is made to https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licenses/guidance/files/OtherSWL.pdf
(2) Ref 1 - Detail of noise emission and SWL of the electric chain saw is available on the supplier's website: https://makita.com/data/productinfo/generated/uc3541a_2.pdf. This electric chain saw is commonly available in Hong Kong.
Ref 2 - The SWL of Giken Piler and Power-pack was made reference to the EPD's website https://www.epd.gov.hk/epd/misc/construction_noise/contents/index.php/en/home2/quieter-construction-methods/item27_press-in-method.html
Ref 3 - The SWL of quieter type blade saw was made reference to EPD website https://www.epd.gov.hk/epd/misc/construction_noise/contents/index.php/en/road-works/item35-quieter-type-blade-saw.html
Ref 4 - The SWL of launching gantry was made reference to the approved EIA report of Revised Trunk Road T4 in Sha Tin (Register No.: AEIAR-231/2021)