





Three core lines. One engineering language.

A side-by-side of the structural, environmental and logistics specifications that define FlexEpod / FlexEhouse, FlexEgen and FlexEstack — drawn directly from the Dmeco Product Catalogue.

Specification	FlexEpod FlexEhouse	FlexEgen	FlexEstack
	Most flexible and bespoke	Most specialised for acoustic & thermal control	Most standardised and logistics-friendly
PRODUCT DEFINITION			
Legacy name	QSK E-House / Modular E-House	QSK Generator Enclosure	CX Container Solution
Operating logic	Equipment-led — built around the housed package	Engine-agnostic — built around the genset	Logistics-led — built around the ISO envelope
Typical equipment	Switchgear, transformers, SCADA, multi-equipment	Diesel / gas gensets, CHP, DRUPS	Gensets, control gear, BESS, switchrooms
STRUCTURAL & MECHANICAL			
Frame	Hot-rolled portal / rigid frame	Structural steel base (dropover, tank or skid)	ISO-format steel enclosure with corner castings
Steel grade	S355J2 std; S460 optional	S235 / S355 galvanized	S355 structural steel
Floor	Raised access 600 mm; 1500 kg/m ² UDL	Bunded steel floor (UK standard)	Skid-proof knurled steel; press-formed & welded
Wall / cladding	IP54 insulated secret-fix sandwich panels	Cold-rolled galvanised steel; powder coated	Corrugated metal sheet; Class 0 soundproofing
Insulation core	PIR or mineral wool (80–150 mm)	Multi-density polyester / mineral wool	75 mm composite / PIR lining
U-value	0.25 – 0.35 W/m ² K	Acoustic-focused (not specified)	0.25 W/m ² K (typical)
Corrosion protection	ISO 12944 C3 std; C4/C5-M optional	ISO 12944 C3 std; C5-M optional	C5-M marine coating; 240 µm DFT
PERFORMANCE & ENVIRONMENT			
Acoustic performance	Acoustic lining available	85 dB(A) @ 7.5 m std → 60 dB(A) @ 1 m optional	55 / 60 / 65 dB(A) @ 7 m selectable
Ingress rating	IP54 std; IP55 optional	IP54 standard	IP54 standard

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Specification	FlexEpod  FlexEhouse 	FlexEgen 	FlexEstack 
	Most flexible and bespoke	Most specialised for acoustic & thermal control	Most standardised and logistics-friendly
Ventilation	Louvred natural or forced-air with filters	Engineered intake / discharge attenuators	HVAC or filtered ventilation packages
Cooling (HVAC)	Split, packaged or precision (N or N+1)	Sized to engine radiator / combustion air	Integrated HVAC options
Fire safety	EN 1366-3 transits; EI 30 – EI 120	Fire suppression (opt); linear heat detection	Smoke / heat detection; FM-200 suppression
Temperature range	Internal 5 – 40 °C (standard)	Ambient capable up to 55 °C	Varies by internal equipment load
Design life	25+ years	20+ years	20+ years
SIZING & LOGISTICS			
Footprint	Bespoke (no fixed envelope)	Sized to genset (≈ 4.8 m to 12 m)	ISO 20 ft / 40 ft (std & high cube)
Max dimensions	Modular splits for transport	Up to 24 m (L) × 4.2 m × 4.2 m	12 192 × 2 438 × 2 896 mm (fixed ISO)
Reference weight	Engineered to equipment load	≈ 1.9 t – 13.4 t	Up to 25 t fully equipped
Transport	Modular split / route survey	Low-loader / skid mount	Standard global logistics (road, rail, sea)
Lead time	12 – 20 weeks from design freeze	10 – 16 weeks from genset data	8 – 14 weeks
COMPLIANCE			
Structural loadings	Seismic UBC Zone 4; wind up to 250 km/h	Sized to genset loads & lifting strategy	ISO structural standard
Industry compliance	EN 1993 / BS 5950; fire to EN 1366-3	Stage V ready; ATEX configuration available	CSC Certified for international shipping