

aggreko Manufacturing Technical Dept. Birch Road, Dumbarton, G82 2RF Tel: 0044 (0)1389 742214 Fax: 0044 (0)1389 742554		EQUIPMENT DATA SHEET		No.	G080323
		Gas Generating Set		Rev.	E
		50 Hz	1120kW / 1400kVA	Date	08/07/2018
		60 Hz	1300kW / 1625kVA	Page	1 of 2
1	Model	Ref	NHC20/QSK60 Gas G-Drive		
2	Part Number	Ref	611002		
3	Specification	Ref	G32.0048		
4	Installation Drawing	Ref	A050228		
5	Maximum Ambient Before Derate	°C (°F)	35 (95)	35 (95)	
6	Electrical Output	Hz	50	60	
	ISO 8528-1				
	- Continuous Power (COP)	kW (kVA)	1120 (1400)	1300 (1625)	
	Single Step load application	%	30	30	
7	Alternator				
	Class F Temp. Rise (105°C)				
	- Three phase	kW (kVA)	1156 (1445)	1352 (1690)	
	- Single phase	kW (kVA)	-		
	Ends Out		6		
	Make & Type		Cummins Generator Technologies PE734C2		
	Regulation	%	±0.5		
8	Circuit Breaker				
	Make & Type		Merlin Gerin NW25		
	Number of poles		4		
	Rating	Amps	2500		
	Trip Unit Type		Micrologic 5.0		
	Overload Protection Range	Amps	1000 - 2500 (Adjustable by selector)		
	Short Circuit Protection Range	Amps	1500 - 25000 (Adjustable by selector)		
9	Load Terminals				
	Type		Busbar M12		
10	Gas Energy Input (LHV) ISO 3046/1				
	100%	kW	3130	4021	
	90%	kW	2850	3664	
	75%	kW	2417	3104	
	50%	kW	1717	2216	
11	Minimum Operating Pressure	Mbar	120		
	Maximum Operating Pressure	Mbar	210		
	Nominal Operating Pressure	Mbar	160-180		
	Shutdown Settings				
	- Low Pressure	Mbar	90		
	- High Pressure	Mbar	250		
	Gas Supply Pressure Range	Bar	0.2 - 6		
	Minimum Methane Index		61		
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Date		08/07/2010	Date	09/07/2018	

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12	Exhaust Emissions		
	Specific Load	100% Load $\pm$ 2%	
	NOx - Oxides of Nitrogen	429 mg/nm ³	307 mg/nm ³
		for 1.0g/HP-hr NOx Cal for 1.0g/HP-hr NOx Cal	
	CH ₄ - Methane (affected by gas composition)	1330 mg/nm ³	1192 mg/nm ³
	CO - Carbon Monoxide	676 mg/nm ³	766 mg/nm ³
13	Exhaust Silencer		
	Make & Type	Universal Silencers	
	Certificate	Yes	M-10406 (per Nelson Burgess)
	Permissible back pressure	mm (ins) Hg	6.35 (0.25")
14	Noise		
	Sound Power	dBA (Lw)	104 (Est) 107 (Est)
	Sound Pressure at 1 metre	dBA	87 90
	Sound Pressure at 7 metres	dBA	80 84
	Sound Pressure at 15 metres	dBA	73 77
15	Engine		
	Make & Type	Cummins QSK60 Gas	
	Cylinders & Form	V16 60°	
	Aspiration	Turbocharged & Low Temperature Aftercooled	
	Governor Type	Electronic	
	Make & Model	Cummins MCM700	
	Steady State frequency	%	$\pm$ 1 ($\pm$ 0.5Hz)
	Battery Voltage	Volts	24
16	Overall Dimensions		
	- Length	Metres (feet)	6.06 (20' 0")
	- Width	Metres (feet)	2.44 (8' 0")
	- Height	Metres (feet)	2.60 (8' 6")
	*Refer to Installation Drawing for overall dimensions with Gas Ancillaries Module installed		
17	Weight		
	- Containerised Genset Only	Kg (lbs)	20650 (45525)
	- With Pre-Filled Gas Ancillary Module (GAM)	Kg (lbs)	26640 (58172)
	- With Dry Gas Ancillary Module (GAM)	Kg (lbs)	26420 (58246)
18	Capacities		
	- Lube oil total	Litres (US gall)	380 (83.6)
	- Coolant		
	Jacket Water (JW)	480 (126)	
	Low Temp. Aftercooler (LTA)	200 (52)	