



RTT GROUP

DYNAMO MICROPOWER POWERCORE
TECHNICAL SPECIFICATION

POWER CORE PC10

ULTRA FUEL FLEXIBLE 10 KW GAS
TURBINE POWER GENERATOR



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THE FUTURE OF DISTRIBUTED POWER



PowerCore PC10

Ultra Fuel Flexible 10 kW Gas Turbine Power Generator

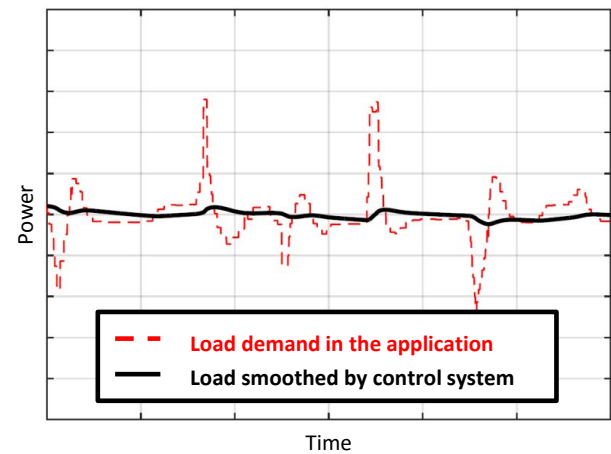
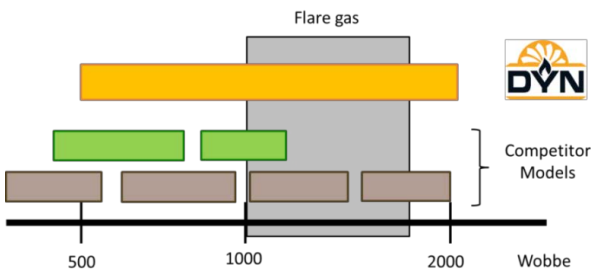
KEY FEATURES

Ultra fuel flexible:

- Accepts gaseous fuels from 900 to 2400 BTU/scf
- Accepts LPG (propane), CNG, and wellhead gas
- Tolerant of wet gas

Advanced controls:

- Simple user interface
- Powerful backend handles real time fuel changes and load changes
- Built-in energy storage system handles inrush and non-uniform loads



Superior load response:

- Handles peak load greater than 10 kW
- Meets any load and power factor profile

High reliability:

- Two moving parts
- Simple to maintain



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GENERAL SPECIFICATIONS	
Ambient temp	0 F [-18 C] to 100 F [38 C]
Air filter	Donaldson air cleaner Removable element
Silencing	Inline intake silencer
Fuel system: Fuel valve Inlet pressure Filtration	Woodward Swift valve 60 psig [400 kPa] nominal Requires 25 um, 75 beta
Lubrication: Lubricant Capacity Filtration	Mobil SHC 824 20 gal [76 L] 10 um 60% efficient
Cooling: Coolant Capacity System type	Motorex Coolant F 5% vol 16 gal [61 L] Oil/water, water/air



PHYSICAL CHARACTERISTICS	
Dimensions:	
Length	84 in [213 cm]
Width	60 in [152 cm]
Height	84 in [213 cm]
Clearances:	
Front	48 in [122 cm]
Rear	72 in [183 cm]
Right	48 in [122 cm]
Left	48 in [122 cm]
Top	No overhead obstruction
Sound level	70 dB(A) @ 10m

NOMINAL PERFORMANCE*	
Power	10 kWe, 12 kVA
Voltage	3 phase 400/480 VAC or 1 phase 240 VAC
Heat rate	1.18 MMBTU/hr [1248 MJ/hr]
Fuel rate	0.92 lb/min [6.94 g/s] 21.6 SCFM [36.7 m ³ /hr]

FUEL REQUIREMENTS	
Pressure	Min: 45 psig [310 kPag] Max**: 100 psig [689 kPag]
Temperature	-20 F [-29 C] to 250 F [121 C]
Quality***	900 BTU/scf [33 MJ/Nm ³] to 2400 BTU/scf [89 MJ/Nm ³]

*At ISO conditions (59 F [15 C] @ sea level, 60% RH)

running pipeline natural gas

**Rating of default fuel manifold. Higher pressures can be accommodated with custom fuel manifolds.

***Lower heating value (LHV), dry basis, measured at 14.7 psi (101 kPa) and 59 F (15 C)

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