REI 20 Continuous Duty Synchronous Generator

Production Specifications

Model Number: REI-0020A-RNSOS

Net Electrical Output	kW	20
Net Electrical Efficiency	%	26
Pkg Efficiency w/ Thermal Heat recovery	%	84.5
Heat Rate (Rated)(HHV)	Btu/kWh (kJ/kWh)	14,579 (15,382)
Engine/Generator Type		Continuous Duty Synchronous
Shaft BHP @ ISO	hp (kW)	30 (22.5)
Operating Speed	rpm	1500
Output Voltage	Vac (Hz)	240/415 (50) 3 Phase
Emissions NOx	g/bhp-hr	0.15
Standard Emissions Pkg CO	g/bhp-hr	0.60
NMHC	g/bhp-hr	0.15
Sound Level	dB(A)	68 @ 7 meters (std)
Sound Level w/low sound option	dB(A)	60 @ 7 meters
Operating Capability	Blackstart capable in either isolated or grid parallel	
Power Quality THD		Meets IEEE 519
Load Unbalance	%	10% (max)
Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
Voltage Regulation Adjust	%	+/-0.5
DC Current Injection	%	<0.5
Fuel Supply Type		Natural Gas
Fuel	MMBtu/hr (GJ/hr)	0.262 (0.277)
Fuel Flow (LHV)	cu ft/hr (cu m/hr)	324.5 (9.19)
Supply Pressure	psig (bar)	0.25 - .95 (0.017 - 0.066)
Fuel Standard (LHV)	Btu/cu ft (kJcu m)	910 (33,906)
Enclosure Length	in (mm)	84 (2,133)
Width	in (mm)	42 (1,066)
Height	in (mm)	48 (1,219)
		Completely weatherproof (outdoor)
		All units fully lockable
Heat Recovery (CHP)		
Water Flow	gpm (L/m)	13 (49.2)
Water Temp. (out)	deg F (deg C)	194 (90)
Water Temp. (in)	deg F (deg C)	170 (77)
Total Heat Recovery	**MMBtu/hr (kW)**	**0.154 (45)**
Warranty	18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available.	
Standards		

Notes: These specifications respresent the design data as of the publication date listed in the lower right hand corner and may be changed without notice. Please conact Remediation Earth, Inc. for the most current specifications.

1. All data based on ISO standard conditions of 29.54 in Hg barometric pressure, 77 deg F ambient and induction air temperatures, 30% rel. humidity.
2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water.

Issue Date: 2-2009

REI 25 Continuous Duty Induction Generator
Indoor (No Enclosure)

Production Specifications (Preliminary) **Model Number: REI-0025A-RNII**

Net Electrical Output		kW	25
Net Electrical Efficiency		%	28
Pkg Efficiency w/ Thermal Heat recovery		%	86.5
Heat Rate (Rated)		Btu/kWh (kJ/kWh)	12,826 (13,532)
Engine/Generator Type			Continuous Duty Synchronous
Shaft BHP	@ ISO	hp (kW)	32 (23)
Operating Speed		rpm	1830
Output Voltage		Vac	277/480 3 Phase
Emissions	NOx	g/bhp-hr	0.15
	CO	g/bhp-hr	0.60
	NMHC	g/bhp-hr	0.15
Sound Level		dB(A)	Open Skid Only
Operating Capability			Grid parallel operation only
Power Quality	THD		Meets IEEE 519
	Load Unbalance	%	10% (max)
	Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
	Voltage Regulation Adjust	%	+/-0.5
	DC Current Injection	%	<0.5
Fuel Supply	Types		Natural Gas
	Fuel (at rated output)	MMBtu/hr (GJ/hr)	0.295 (0.311)
	Fuel Flow (LHV)	cu ft/hr (cu m/hr)	324 (9.2)
	Supply Pressure	psig (bar)	0.25 - .95 (0.017 - 0.066)
	Fuel Standard (LHV)	Btu/cu ft (kJcu m)	910 (33,906)
Enclosure	Length	in (mm)	84 (2.133)
	Width	in (mm)	42 (1,066)
	Height	in (mm)	48 (1,219)
			Completely weatherproof
			All units fully lockable
Heat Recovery (CHP)			
Water Flow		gpm (L/m)	13(50)
Water Temp. (out)		deg F (deg C)	197 (91)
Water Temp. (in)		deg F (deg C)	170 (77)
Total Heat Recovery		**MMBtu/hr (kW)**	**0.172 (50)**
Warranty		18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available.	
Standards			

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1. All data based on ISO standard conditions of 29.54 in Hg barometric pressure, 77 deg F ambient and induction air temperatures, 30% rel. humidity.
2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water.

Issue Date: 5-2009

REI 40 Continuous Duty Synchronous Generator

Outdoor & Modified For Indoor

Production Specifications (Preliminary) **Model Number: REI-0040A-RNSOSI**

Net Electrical Output		kW	40
Net Electrical Efficiency		%	29.3
Pkg Efficiency w/ Thermal Heat recovery		%	78.9
Heat Rate (Rated)		Btu/kWh (kJ/kWh)	11,650 (12,291)
Engine/Generator Type			Continuous Duty Synchronous
Shaft BHP	@ ISO	hp (kW)	56 (42)
Operating Speed		rpm	1500
Output Voltage		Vac	220/380 3 Phase
Emissions	NOx	g/bhp-hr	0.15
Standard Emissions Pkg	CO	g/bhp-hr	0.60
	NMHC	g/bhp-hr	0.15
Sound Level			
Outdoor - Standard		dB(A)	68 @ 7 meters
Outdoor - w/low sound option		dB(A)	60 @ 7 meters
Indoor		dB(A)	70 @ 1 Meter
Operating Capability		Blackstart capable in either isolated or grid parallel	
Power Quality	THD		Meets IEEE 519
	Load Unbalance	%	10% (max)
	Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
	Voltage Regulation Adjust	%	+/-0.5
	DC Current Injection	%	<0.5
Fuel Supply	Type		Natural Gas
	Fuel	MMBtu/hr (GJ/hr)	0.466 (0.492)
	Fuel Flow (LHV)	cu ft/hr (cu m/hr)	512 (14.5)
	Supply Pressure	psig (bar)	0.25 - .95 (0.017 - 0.066)
	Fuel Standard (LHV)	Btu/cu ft (kJcu m)	910 (33,906)
Enclosure	Length	in (mm)	120 (3,048)
	Width	in (mm)	48 (1,220)
	Height	in (mm)	89 (2,248) (Outdoor)
			Completely weatherproof (outdoor)
			All units fully lockable
Heat Recovery (CHP)			
Water Flow		gpm (L/m)	65 (246)
Water Temp. (out)		deg F (deg C)	177 (81)
Water Temp. (in)		deg F (deg C)	170 (77)
Total Heat Recovery		**MMBtu/hr (kW)**	**0.231 (67.7)**
Warranty		18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available.	
Standards			

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2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water.

Issue Date: 12-2009

REI 50 Continuous Duty Synchronous Generator

Outdoor & Modified For Indoor

Production Specifications (Preliminary) **Model Number: REI-0050A-RNSOS**

Net Electrical Output		kW	50
Net Electrical Efficiency		%	29.3
Pkg Efficiency w/ Thermal Heat recovery		%	78.9
Heat Rate (Rated)		Btu/kWh (kJ/kWh)	11,645 (12,286)
Engine/Generator Type			Continuous Duty Synchronous
Shaft BHP	@ ISO	hp (kW)	71 (53)
Operating Speed		rpm	1800
Output Voltage		Vac	277/480 3 Phase
Emissions	NOx	g/bhp-hr	0.15
Standard Emissions Package	CO	g/bhp-hr	0.60
	NMHC	g/bhp-hr	0.15
Sound Level			
Outdoor - Standard		dB(A)	68 @ 7 meters
Outdoor - w/low sound option		dB(A)	60 @ 7 meters
Indoor		dB(A)	70 & 1 meter
Operating Capability		Blackstart capable in either isolated or grid parallel	
Power Quality	THD		Meets IEEE 519
	Load Unbalance	%	10% (max)
	Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
	Voltage Regulation Adjust	%	+/-0.5
	DC Current Injection	%	<0.5
Fuel Supply	Types		Natural Gas
	Fuel(LHV)	MMBtu/hr (GJ/hr)	0.582 (0.614)
		cu ft/hr (cu m/hr)	640 (18.1)
	Supply Pressure	psig (bar)	0.25 - .95 (0.017 - 0.066)
	Fuel Standard (LHV)	Btu/cu ft (kJcu m)	910 (33,906)
Enclosure	Length	in (mm)	120 (3,048)
	Width	in (mm)	48 (1,220)
	Height	in (mm)	89 (2,248)
	Weight	lbs (kg)	5,815 (2,638)
			Completely weatherproof (outdoor)
			All units fully lockable
Heat Recovery (CHP)			
Water Flow		gpm (L/m)	65 (246)
Water Temp. (out)		deg F (deg C)	179 (82)
Water Temp. (in)		deg F (deg C)	170 (77)
Total Heat Recovery		**MMBtu/hr (kW)**	**0.289 (84)**
Warranty		18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available.	
Standards			

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2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water.

Issue Date: 12-2009

REI 60 Continuous Duty Synchronous Generator

Outdoor & Modified For Indoor

Production Specifications

Model Number: REI-0060A-INSOS

Net Electrical Output	kW	60
Net Electrical Efficiency	%	31
Pkg Efficiency w/ Thermal Heat recovery	%	86.4
Heat Rate (Rated, LHV)	Btu/kWh (kJ/kWh)	11,006 (11,612)
Engine/Generator Type		Continuous Duty Synchronous
Shaft BHP @ ISO	hp (kW)	85 (63)
Operating Speed	rpm	1800
Output Voltage	Vac	277/480 3 Phase
Emissions NOx	g/bhp-hr	0.15
Standard Emissions Pkg CO	g/bhp-hr	0.60
NMHC	g/bhp-hr	0.15
Sound Level		
Outdoor - Standard	dB(A)	68 @ 7 meters
Outdoor - w/low sound option	dB(A)	60 @ 7 meters
Indoor	dB(A)	70 @ 1 Meter
Operating Capability	Blackstart capable in either isolated or grid parallel	
Power Quality THD		Meets IEEE 519
Load Unbalance	%	10% (max)
Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
Voltage Regulation Adjust	%	+/-0.5
Fuel Supply Types		Natural Gas
Fuel	MMBtu/hr (GJ/hr)	0.660 (0.697)
Fuel Flow (LHV)	cu ft/hr (cu m/hr)	725 (20.5)
Supply Pressure	psig (bar)	0.25 - .95 (0.017 - 0.066)
Fuel Standard (LHV)	Btu/cu ft (kJcu m)	910 (33,906)
Enclosure Length	in (mm)	120 (3,048)
Width	in (mm)	48 (1,220)
Height	in (mm)	89 (2,248) (Outdoor)
Height	in (mm)	68 (1,727) (Indoor)
		Completely weatherproof (outdoor)
		All units fully lockable
Heat Recovery (CHP)		
Jacket Water Flow	gpm (L/m)	65 (246)
Jacket Water Temp. (out)	deg F (deg C)	182 (84)
Jacket Water Temp. (in)	deg F (deg C)	170 (77)
Total Heat Recovery	**MMBtu/hr (kW)**	**0.366 (107)**
Warranty	18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available.	
Standards		

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2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water.

Issue Date: 12-2009

REI 60 Continuous Duty Induction Generator

Outdoor & Modified For Indoor

Production Specifications

Model Number: REI-0060A-INSOI

Net Electrical Output	kW	60
Net Electrical Efficiency	%	31
Pkg Efficiency w/ Thermal Heat recovery	%	86.4
Heat Rate (Rated, LHV)	Btu/kWh (kJ/kWh)	11,006 (11,612)
Engine/Generator Type		Continuous Duty Induction
Shaft BHP @ ISO	hp (kW)	85 (63)
Operating Speed	rpm	1830
Output Voltage	Vac	277/480 3 Phase
Emissions NOx	g/bhp-hr	0.15
Standard Emissions Pkg CO	g/bhp-hr	0.60
NMHC	g/bhp-hr	0.15
Sound Level		
Outdoor - Standard	dB(A)	68 @ 7 meters
Outdoor - w/low sound option	dB(A)	60 @ 7 meters
Indoor	dB(A)	70 @ 1 Meter
Operating Capability		Grid parallel operation only
Power Quality THD		Meets IEEE 519
Load Unbalance	%	10% (max)
Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
Voltage Regulation Adjust	%	+/-0.5
DC Current Injection	%	<0.5
Fuel Supply Types		Natural Gas
Fuel(LHV)	MMBtu/hr (GJ/hr)	0.660 (0.697)
	cu ft/hr (cu m/hr)	725 (20.5)
Supply Pressure	psig (bar)	0.25 - .95 (0.017 - 0.066)
Fuel Standard (LHV)	Btu/cu ft (kJcu m)	910 (33,906)
Enclosure Length	in (mm)	120 (3,048)
Width	in (mm)	48 (1,220)
Height	in (mm)	89 (2,248) (Outdoor)
Height	in (mm)	68 (1,727) (Indoor)
		Completely weatherproof (outdoor)
		All units fully lockable
Heat Recovery (CHP)		
Jacket Water Flow	gpm (L/m)	65 (246)
Jacket Water Temp. (out)	deg F (deg C)	182 (84)
Jacket Water Temp. (in)	deg F (deg C)	170 (77)
Total Heat Recovery	**MMBtu/hr (kW)**	**0.366 (107)**
Warranty	18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available.	
Standards		

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2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water.

Issue Date: 12-2009

REI 70 Waste Gas Generator (Outdoor & Modified for Indoor)

Production Specifications

Model Number: REI-0070A-RWSOSI

Net Electrical Output		kW	70
Net Electrical Efficiency		%	30
Pkg Efficiency w/ Thermal Heat recovery		%	83.1
Heat Rate (Rated)		Btu/kWh (kJ/kWh)	11,373 (11,999)
Engine/Generator Type			Continuous Duty Synchronous
Shaft BHP	@ ISO	hp (kW)	99 (74)
Operating Speed		rpm	1500
Output Voltage		Vac	220/380 3 Phase 50 Hz
Emissions	NOx	g/bhp-hr	1.50
Exhaust Aftertreatment Pkg.	CO	g/bhp-hr	4.79
	VOC	g/bhp-hr	0.09
Sound Level			
Outdoor - Standard		dB(A)	68 @ 7 meters
Outdoor - w/low sound option		dB(A)	60 @ 7 meters
Indoor		dB(A)	70 @ 1 Meter
Operating Capability		Blackstart capable in either isolated or grid parallel	
Power Quality	THD		Meets IEEE 519
	Load Unbalance	%	10% (max)
	Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
	Voltage Regulation Adjust	%	+/-0.5
	DC Current Injection	%	<0.5
Fuel Supply	Types		Waste Gas
	Fuel(LHV)	MMBtu/hr (GJ/hr)	0.796 (0.839)
		cu ft/hr (cu m/hr)	1,592 (45.0)
	Supply Pressure	psig (bar)	2.00 (0.136)
	Fuel Standard (LHV)	Btu/cu ft (kJcu m)	500 (18,630)
Enclosure	Length	in (mm)	120 (3,048)
	Width	in (mm)	48 (1,220)
	Height	in (mm)	89 (2,248) (Outdoor)
	Height	in (mm)	68 (1,727) (Indoor)
			Completely weatherproof (outdoor)
			All units fully lockable
Heat Recovery (CHP)			
Water Flow		gpm (L/m)	65 (246)
Water Temp. (out)		deg F (deg C)	183 (84)
Water Temp. (in)		deg F (deg C)	170 (77)
Total Heat Recovery		**MMBtu/hr (kW)**	**0.422 (124)**
Warranty		18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available.	
Standards			

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2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water.

Waste Gas Specification

Fuel Fuel Standard HHV	0.792 mmBTU/hr 500 BTU/cu ft	Sulfur Compounds Siloxanes	0.1% (1000 ppm) 25 ug/Liter
Fuel Temperature	-20 deg F to 140 deg F -29 deg C to 60 deg C	No Liquid Water Oil Droplet Solid Particle Free Hydrogen	100% Re. Hum. < 0.3 micron < 5 micron 2% by volume

Issue Date: 12-2009

REI 75 Continuous Duty Synchronous Generator (Propane)

Outdoor & Modified For Indoor

Production Specifications

Model Number: REI-0075A-RPSOSK

Net Electrical Output	kW	75
Net Electrical Efficiency	%	30
Pkg Efficiency w/ Thermal Heat recovery	%	85
Heat Rate (Rated)	Btu/kWh (kJ/kWh)	11,560 (12,196)
Engine/Generator Type		Continuous Duty Synchronous
Shaft BHP @ ISO	hp (kW)	106 (79)
Operating Speed	rpm	1500
Output Voltage	Vac	400 3 Phase 50 Hz
Emissions NOx	g/bhp-hr	0.15
Exhaust Aftertreatment Pkg. CO	g/bhp-hr	0.60
NMHC	g/bhp-hr	0.15
Sound Level		
Outdoor - Standard	dB(A)	68 @ 7 meters
Outdoor - w/low sound option	dB(A)	60 @ 7 meters
Indoor	dB(A)	70 @ 1 Meter
Operating Capability	Blackstart capable in either isolated or grid parallel	
Power Quality THD		Meets IEEE 519
Load Unbalance	%	10% (max)
Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
Voltage Regulation Adjust	%	+/-0.5
DC Current Injection	%	<0.5
Fuel Supply Types		HD-5 Propane
Fuel(LHV)	MMBtu/hr (GJ/hr)	0.867 (0.914)
	cu ft/hr (cu m/hr)	337 (9.55)
Supply Pressure	psig (bar)	0.25-0.95 (0.017-0.066)
Fuel Standard	Btu/cu ft (kJcu m)	2,570 (95,756)
Enclosure Length	in (mm)	120 (3,048)
Width	in (mm)	48 (1,220)
Height	in (mm)	89 (2,248) (Outdoor)
Height	in (mm)	68 (1,727) (Indoor)
		Completely weatherproof (outdoor)
		All units fully lockable
Heat Recovery (CHP)		
Water Flow	gpm (L/m)	65 (246)
Water Temp. (out)	deg F (deg C)	185 (85)
Water Temp. (in)	deg F (deg C)	170 (77)
Total Heat Recovery	**MMBtu/hr (kW)**	**0.478 (140)**
Warranty	18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available.	
Standards		

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2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water.

Issue Date: 12-2009

REI 85 Continuous Duty Synchronous Generator

Outdoor & Modified For Indoor

Production Specifications

Model Number: REI-0085A-RNSOS

Net Electrical Output	kW	85
Net Electrical Efficiency	%	31
Pkg Efficiency w/ Thermal Heat recovery	%	86.4
Heat Rate (Rated)	Btu/kWh (kJ/kWh)	11,006 (11,612)
Engine/Generator Type		Continuous Duty Synchronous
Shaft BHP @ ISO	hp (kW)	122 (91)
Operating Speed	rpm	1800
Output Voltage	Vac	277/480 3 Phase
Emissions NOx	g/bhp-hr	0.15
Standard Emissions Pkg CO	g/bhp-hr	0.60
NMHC	g/bhp-hr	0.15
Sound Level		
Outdoor - Standard	dB(A)	68 @ 7 meters
Outdoor - w/low sound option	dB(A)	60 @ 7 meters
Indoor	dB(A)	70 @ 1 Meter
Operating Capability	Blackstart capable in either isolated or grid parallel	
Power Quality THD		Meets IEEE 519
Load Unbalance	%	10% (max)
Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
Voltage Regulation Adjust	%	+/-0.5
DC Current Injection	%	<0.5
Fuel Supply Types		Natural Gas
Fuel (at rated output)	MMBtu/hr (GJ/hr)	0.936 (0.988)
Fuel Flow (LHV)	cu ft/hr (cu m/hr)	1,028 (29.1)
Supply Pressure	psig (bar)	0.25 - .95 (0.017 - 0.066)
Fuel Standard (LHV)	Btu/cu ft (kJcu m)	910 (33,906)
Enclosure Length	in (mm)	120 (3,048)
Width	in (mm)	48 (1,220)
Height	in (mm)	89 (2,248)
		Completely weatherproof (outdoor)
		All units fully lockable
Heat Recovery (CHP)		
Water Flow	gpm (L/m)	65 (246)
Water Temp. (out)	deg F (deg C)	186 (86)
Water Temp. (in)	deg F (deg C)	170 (77)
Total Heat Recovery	**MMBtu/hr (kW)**	**0.518 (152)**
Warranty	18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available.	
Standards		

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1. All data based on ISO standard conditions of 29.54 in Hg barometric pressure, 77 deg F ambient and induction air temperatures, 30% rel. humidity.
2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water.

Issue Date: 12-2009

REI 85 Continuous Duty Induction Generator
Outdoor & Modified For Indoor

Production Specifications

Model Number: REI-0085A-RNSOI

Net Electrical Output		kW	85
Net Electrical Efficiency		%	31
Pkg Efficiency w/ Thermal Heat recovery		%	86.4
Heat Rate (Rated, LHV)		Btu/kWh (kJ/kWh)	11,006 (11,612)
Engine/Generator Type			Continuous Duty Induction
Shaft BHP	@ ISO	hp (kW)	122 (91)
Operating Speed		rpm	1830
Output Voltage		Vac	277/480 3 Phase
Emissions	NOx	g/bhp-hr	0.15
Standard Emissions Pkg	CO	g/bhp-hr	0.60
	NMHC	g/bhp-hr	0.15
Sound Level			
Outdoor - Standard		dB(A)	68 @ 7 meters
Outdoor - w/low sound option		dB(A)	60 @ 7 meters
Indoor		dB(A)	70 @ 1 Meter
Operating Capability			Grid parallel operation only
Power Quality	THD		Meets IEEE 519
	Load Unbalance	%	10% (max)
	Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
	Voltage Regulation Adjust	%	+/-0.5
	DC Current Injection	%	<0.5
Fuel Supply	Types		Natural Gas
	Fuel(LHV)	MMBtu/hr (GJ/hr)	0.936 (0.988)
		cu ft/hr (cu m/hr)	1,028 (29.1)
	Supply Pressure	psig (bar)	0.25 - .95 (0.017 - 0.066)
	Fuel Standard (LHV)	Btu/cu ft (kJcu m)	910 (33,906)
Enclosure	Length	in (mm)	120 (3,048)
	Width	in (mm)	48 (1,220)
	Height	in (mm)	89 (2,248) (Outdoor)
	Height	in (mm)	68 (1,727) (Indoor)
			Completely weatherproof (outdoor)
			All units fully lockable
Heat Recovery (CHP)			
Water Flow		gpm (L/m)	65 (246)
Water Temp. (out)		deg F (deg C)	186 (86)
Water Temp. (in)		deg F (deg C)	170 (77)
Total Heat Recovery		**MMBtu/hr (kW)**	**0.518 (152)**
Warranty		18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available.	
Standards			

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1. All data based on ISO standard conditions of 29.54 in Hg barometric pressure, 77 deg F ambient and induction air temperatures, 30% rel. humidity.
2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water.

Issue Date: 12-2009

REI 85 Continuous Duty Synchronous Generator (Propane)

Outdoor & Modified For Indoor

Production Specifications

Model Number: REI-0085A-RPSOS

Net Electrical Output		kW	85
Net Electrical Efficiency		%	31.4
Pkg Efficiency w/ Thermal Heat recovery		%	85.5
Heat Rate (Rated)		Btu/kWh (kJ/kWh)	10,866 (11,464)
Engine/Generator Type			Continuous Duty Synchronous
Shaft BHP	@ ISO	hp (kW)	122 (91)
Operating Speed		rpm	1800
Output Voltage		Vac	277/480 3 Phase
Emissions	NOx	g/bhp-hr	0.15
Standard Emissions Pkg	CO	g/bhp-hr	0.60
	NMHC	g/bhp-hr	0.15
Sound Level			
Outdoor - Standard		dB(A)	68 @ 7 meters
Outdoor - w/low sound option		dB(A)	60 @ 7 meters
Indoor		dB(A)	70 @ 1 Meter
Operating Capability		Blackstart capable in either isolated or grid paralle	
Power Quality	THD		Meets IEEE 519
	Load Unbalance	%	10% (max)
	Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
	Voltage Regulation Adjust	%	+/-0.5
	DC Current Injection	%	<0.5
Fuel Supply	Types		HD-5 Propane GPA Quality
	Fuel(LHV)	MMBtu/hr (GJ/hr)	0.923 (0.974)
		cu ft/hr (cu m/hr)	394 (11.1)
	Supply Pressure	psig (bar)	0.25 - .95 (0.017 - 0.066)
	Fuel Standard (LHV / HHV)	Btu/cu ft (kJcu m)	2,340 (87,233) / 2,550 (95,061)
	Flow At Rated Output (Vapor)	cfm (cfh)	6.57 (394)
	Flow At Rated Output (Liquid)	gal/hr	10.82
Enclosure	Length	in (mm)	120 (3,048)
	Width	in (mm)	48 (1,220)
	Height	in (mm)	89 (2,248) (Outdoor)
			Completely weatherproof (outdoor)
			All units fully lockable
Heat Recovery (CHP)			
Water Flow		gpm (L/m)	65 (246)
Water Temp. (out)		deg F (deg C)	188 (87)
Water Temp. (in)		deg F (deg C)	172 (78)
Total Heat Recovery		**MMBtu/hr (kW)**	**0.499 (146)**
Warranty		18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available.	
Standards			

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6. All data based on ISO standard conditions of 29.54 in Hg barometric pressure, 77 deg F ambient and induction air temperatures, 30% rel. humidity.
7. Dimensions and weights do not include optional equipment.
8. The values in this specification subject to a tolerance of +/- 5%
9. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
10. CHP performance with water.

Issue Date: 12-2009

REI 85 Continuous Duty CHP Generator

Outdoor & Indoor Models

Production Specifications

Net Electrical Output		kW	85
Net Electrical Efficiency		%	31
Pkg Efficiency w/ Thermal Heat recovery		%	86.4
Heat Rate (Rated)		Btu/kWh (kJ/kWh)	11,006 (11,612)
Engine/Generator Type	Option 1		Continuous Duty Synchronous
	Option 2		Inverter w/ Synchronous
	Option 3		Continous Duty Induction
Operating Speed		rpm	1800
Output Voltage	Standard	Vac	277/480 3 Phase
	Available	Vac	120/208 3 Phase
Emissions	NOx	g/bhp-hr	0.15
Standard Emissions Pkg	CO	g/bhp-hr	0.60
(Meets NY State Req'mts)	NMHC	g/bhp-hr	0.15
Sound Level			
Outdoor - Standard		dB(A)	68 @ 7 meters
Outdoor - w/low sound option		dB(A)	60 @ 7 meters
Indoor		dB(A)	70 @ 1 Meter
Operating Capability		Blackstart capable in either isolated or grid parallel	
Power Quality	THD		Meets IEEE 519
	Load Unbalance	%	10% (max)
	Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
	Voltage Regulation Adjust	%	+/-0.5
Fuel Supply	Types		Natural Gas
	Fuel (at rated output)	MMBtu/hr (GJ/hr)	0.936 (0.988)
	Fuel Flow (LHV)	cu ft/hr (cu m/hr)	1,028 (29.1)
	Supply Pressure	psig (bar)	0.25 - .95 (0.017 - 0.066)
	Fuel Standard (LHV)	Btu/cu ft (kJcu m)	910 (33,906)
Enclosure	Length	in (mm)	120 (3,048)
	Width	in (mm)	48 (1,220)
	Height	in (mm)	89 (2,248) (Outdoor)
		in (mm)	68 (1,727) (indoor)
			Completely weatherproof (outdoor)
Heat Recovery (CHP)			
Water Flow		gpm (L/m)	65 (246)
Water Temp. (out)		deg F (deg C)	186 (86)
Water Temp. (in)		deg F (deg C)	170 (77)
Total Heat Recovery		**MMBtu/hr (kW)**	**0.518 (152)**
Warranty		18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available.	
Standards			

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1. All data based on ISO standard conditions of 29.54 in Hg barometric pressure, 77 deg F ambient and induction air temperatures, 30% rel. humidity.
2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water.

Issue Date: 12-2008

REI 170 Continuous Duty Induction Generator

Production Specifications

Model Number: REI-0170A-RNSOI

Net Electrical Output		kW	170
Net Electrical Efficiency		%	32.9
Pkg Efficiency w/ Thermal Heat Recovery (Net)		%	82.2
Heat Rate (Net Output)		Btu/kWh (kJ/kWh)	10,365 (10,936)
Engine/Generator Type		Engine	MAN 6 Cyl Inline / 12.82 l
		Generator	Continuous Duty Induction
Shaft BHP	@ ISO	hp (kW)	250 (186)
Operating Speed (Full Output		rpm	1815
Output Voltage (std)		Vac	277/480 3 Phase
Emissions	NOx	g/bhp-hr	0.15
Standard Emissions Pkg	CO	g/bhp-hr	0.60
	NMHC	g/bhp-hr	0.15
Sound Level		dB(A)	68 @ 7 meter
Operating Capability			Grid parallel only
Power Quality	THD		Meets IEEE 519
	Load Unbalance	%	10% (max)
	Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
	DC Current Injection	%	<0.5
	Uncorrected Power Factor	%	85.5
	Corrected Power Factor	%	95.0
Fuel Supply	Types		Natural Gas
	Fuel (at rated output)	MMBtu/hr (GJ/hr)	1.762 (1.859)
	Fuel Flow (LHV)	cu ft/hr (cu m/hr)	1,936 (54.8)
	Supply Pressure	psig (bar)	1.0 (0.069) max
	Fuel Standard (LHV)	Btu/cu ft (kJ/cu m)	910 (960)
Enclosure	Length	in (mm)	120 (3,048)
	Width	in (mm)	48 (1,220)
	Height	in (mm)	89 (2,248)
	Weight	lbs (kg)	7,080 (3,211)
			Completely weatherproof (outdoor)
			All units fully lockable
Heat Recovery (CHP)			
Water Flow		gpm (L/m)	123.3 (467)
Water Temp. (out)		deg F (deg C)	190 (88)
Water Temp. (in)		deg F (deg C)	176 (80)
Total Heat Recovery		**MMBtu/hr (kW)**	**.868 (254)**
Warranty		18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available	
Standards			

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1. All data based on ISO standard conditions of 29.54 in Hg barometric pressure, 77 deg F ambient and induction air temperatures, 30% rel. humidity.
2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water.

Issue Date: 9-2009

REI 300 Continuous Duty Synchronous Generator

Production Specifications (Preliminary)

Model Number: REI-0300A-RNSOS

Net Electrical Output		kW	300
Net Electrical Efficiency		%	34.1
Pkg Efficiency w/ Thermal Heat Recovery (net)		%	90
Heat Rate (Net Output)		Btu/kWh (kJ/kWh)	9,996 (10,545)
Engine/Generator Type		Engine	V12 - 22L Turbocharged
		Generator	Continuous Duty Synchronous
Shaft BHP	@ ISO	hp (kW)	436 (325)
Operating Speed		rpm	1500
Output Voltage		Vac	240/415 50 Hz 3 Phase
Emissions	NOx	g/bhp-hr	0.15
	CO	g/bhp-hr	0.60
	NMHC	g/bhp-hr	0.15
Sound Level		dB(A)	70 @ 1 meter
Operating Capability		Blackstart capable in either isolated or grid parallel	
Power Quality	THD		Meets IEEE 519
	Load Unbalance	%	10% (max)
	Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
	Voltage Regulation Adjust	%	+/-0.5
	DC Current Injection	%	<0.5
Fuel Supply	Types		Natural Gas
	Fuel (at rated output)	MMBtu/hr (GJ/hr)	2.999 (3.163)
	Fuel Flow (LHV)	cu ft/hr (cu m/hr)	3,313 (94)
	Supply Pressure	psig (bar)	1.0 (0.069) max
	Fuel Standard (LHV)	Btu/cu ft (kJ/cu m)	905 (33,719)
Enclosure	Length	in (mm)	132 (3,353)
	Width	in (mm)	60 (1,524)
	Height	in (mm)	84 (2,134)
	Weight	lbs (kg)	12,000 (5,443)
			Completely weatherproof (outdoor)
			All units fully lockable
Heat Recovery (CHP)			
Water Flow		gpm (L/m)	120 (454)
Water Temp. (out)		deg F (deg C)	190 (88)
Water Temp. (in)		deg F (deg C)	162 (72)
Total Heat Recovery		**MMBtu/hr (kW)**	**1.676 (491)**
Warranty		18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available	
Standards			

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1. All data based on ISO standard conditions of 29.54 in Hg barometric pressure, 77 deg F ambient and induction air temperatures, 30% rel. humidity.
2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water.

Issue Date: 9-2009

REI 310 Continuous Duty Synchronous Generator

Production Specifications

Model Number: REI-0310A-RNSOS

Net Electrical Output		kW	310
Net Electrical Efficiency (LHV)		%	34.6
Pkg Efficiency w/ Thermal Heat recovery (HHV)		%	90
Heat Rate (Rated @ LHV)		Btu/kWh (kJ/kWh)	9,861 (10,404)
Engine/Generator Type			Continuous Duty Synchronous
Shaft BHP	@ ISO	hp (kW)	450 (336)
Operating Speed		rpm	1500
Output Voltage (std)		Vac	240/415 3 Phase
Emissions	NOx	g/bhp-hr	0.15
Standard Emissions Pkg	CO	g/bhp-hr	0.60
	NMHC	g/bhp-hr	0.15
Sound Level		dB(A)	70 @ 1 meter
Operating Capability		Blackstart capable in either isolated or grid parallel	
Power Quality	THD		Meets IEEE 519
	Load Unbalance	%	10% (max)
	Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
	Voltage Regulation Adjust	%	+/-0.5
	DC Current Injection	%	<0.5
Fuel Supply	Types		Natural Gas
	Fuel (at rated output)	MMBtu/hr (GJ/hr)	3.057 (3.225)
	Fuel Flow (LHV)	cu ft/hr (cu m/hr)	3,378 (95.7)
	Supply Pressure	psig (bar)	1.0 (0.069) max
	Fuel Standard (LHV)	Btu/cu ft (kJ/cu m)	905 (33,719)
Enclosure	Length	in (mm)	132 (3,353)
	Width	in (mm)	60 (1,524)
	Height	in (mm)	84 (2,134)
	Weight	lbs (kg)	12,000 (5,443)
			Completely weatherproof (outdoor)
			All units fully lockable
Heat Recovery (CHP)			
Water Flow		gpm (L/m)	150 (568)
Water Temp. (out)		deg F (deg C)	190 (88)
Water Temp. (in)		deg F (deg C)	167 (75)
Total Heat Recovery		**MMBtu/hr (kW)**	**1.694(496)**
Warranty		18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available.	
Standards		UL 2200 Expected	

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2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water.

Issue Date: 6-2009

REI 365 Continuous Duty Synchronous Generator

Production Specifications

Model Number: REI-0365A-RNSOS

Net Electrical Output		kW	365
Net Electrical Efficiency		%	34.6
Pkg Efficiency w/ Thermal Heat Recovery		%	90
Heat Rate (Net Rated)		Btu/kWh (kJ/kWh)	9,861 (10,403)
Engine/Generator Type		Engine	NG 22L V12 Turbocharged
		Generator	Continuous Duty Synchronous
Shaft BHP	@ ISO	hp (kW)	524 (391)
Operating Speed		rpm	1800
Output Voltage (std)		Vac	277/480 3 Phase
Emissions	NOx	g/bhp-hr	0.15
Standard Emissions Pkg	CO	g/bhp-hr	0.60
	NMHC	g/bhp-hr	0.15
Sound Level		dB(A)	70 @ 1 meter
Operating Capability		Blackstart capable in either isolated or grid parallel	
Power Quality	THD		Meets IEEE 519
	Load Unbalance	%	10% (max)
	Overload	%	10% overload allowed 30x/yr w/ 30 min (max) ea
	Voltage Regulation Adjust	%	+/-0.5
	DC Current Injection	%	<0.5
Fuel Supply	Types		Natural Gas
	Fuel (at rated output)	MMBtu/hr (GJ/hr)	3.599 (3.797)
	Fuel Flow (LHV)	cu ft/hr (cu m/hr)	3,977 (113)
	Supply Pressure	psig (bar)	1.0 (0.069) max
	Fuel Standard (LHV)	Btu/cu ft (kJ/cu m)	905 (33,719)
Enclosure	Length	in (mm)	132 (3,353)
	Width	in (mm)	60 (1,524)
	Height	in (mm)	84 (2,134)
	Weight	lbs (kg)	12,000 (5,443)
			Completely weatherproof (outdoor)
			All units fully lockable
Heat Recovery (CHP)			
Water Flow		gpm (L/m)	150 (568)
Water Temp. (out)		deg F (deg C)	190 (88)
Water Temp. (in)		deg F (deg C)	162 (72)
Total Heat Recovery		**MMBtu/hr (kW)**	**1.994 (584)**
Warranty		18 months from delivery or 1 year from initial start up whichever comes first. Extended warranty option available	
Standards			

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2. Dimensions and weights do not include optional equipment.
3. The values in this specification subject to a tolerance of +/- 5%
4. Efficiency and performance values represent the base unit operating at 100% heat and electrical power. Data is taken at the connection points of the unit.
5. CHP performance with water.

Issue Date: 7-2010