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Honeywell

STANDBY GENERATOR

35 kW

LIQUID-COOLED GENERATOR SET

Standby Power Rating

Model HT035 - 35 kW 60Hz

c UL us LISTED

INCLUDES

- Two Line LCD Tri-lingual Digital Sync Controller
- Electronic Governor
- Closed Coolant Recovery System
- Flexible Fuel Line Connector
- Wireless Remote Monitor*
- Sound Attenuated Aluminum Enclosure
- UV/OzoneResistant Hoses
- Natural Gas or LP Gas Operation
- 5 Year Limited Warranty*
- UL 2200 Listed

Not for resale in CA/MA

* 3-Phase systems receive a 2 Year Limited Warranty and do not included the clipped roof corners or the remote monitor.

FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of our success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose Honeywell generators with the confidence that these systems will provide superior performance.

- **TEST CRITERIA**
  - PROTOTYPE TESTED
  - SYSTEM TORSIONAL TESTED
  - NEMA MG1-22 EVALUATION
  - MOTOR STARTING ABILITY

- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION** This state-of-the-art power maximizing regulation system is standard on all Honeywell models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. An unequalled ±1% voltage regulation.

- **SINGLE SOURCE SERVICE RESPONSE** from our extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.

- **Honeywell TRANSFER SWITCHES** The Honeywell generator line offers its own transfer systems and controls for total system compatibility.

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LIQUID-COOLED GENERATOR SET

Application & Engineering Data

GENERATOR SPECIFICATIONS

• Type	Synchronous
• Rotor Insulation	Class H
• Stator Insulation	Class H
• Telephone Interference Factor (TIF)	<50
• Alternator Output Leads Phase 3	4 wire
• Bearings	Sealed Ball
• Coupling	Flexible Disc
• Load Capacity (Standby Rating)	35 kW
• Excitation System	Direct

ENGINE SPECIFICATIONS

• Make	Generac
• Model	Inline 4
• Cylinders	4
• Displacement	2.4 Liter
• Bore	3.41
• Stroke	3.94
• Compression Ratio	9.5:1
• Intake Air System	Turbocharged/ Aftercooled
• Valve Seats	Hardened
• Lifter Type	Hydraulic

GOVERNOR SPECIFICATIONS

• Type		Electronic
• Frequency Regulation		Isochronous
• Steady State Regulation		± 0.25%
• Adjustments For	Speed	Yes
	Droop	Yes

VOLTAGE REGULATION

• Type	Electronic
• Sensing	Single Phase
• Regulation	± 1%

GENERATOR FEATURES

- Revolving field heavy duty generator
- Directly connected to the engine
- Operating temperature rise 120 °C above a 40 °C ambient
- Insulation is Class H rated at 150 °C rise
- All models are fully prototyped tested

ENGINE LUBRICATION SYSTEM

• Oil Pump	Gear
• Oil Filter	Full flow spin-on cartridge
• Crankcase	4 Quarts

ENGINE COOLING SYSTEM

• Type	Closed
• Water Pump	Belt Driven
• Fan Speed	1500
• Fan Diameter	22 inches
• Fan Mode	Puller

FUEL SYSTEM

• Fuel Type	Natural gas, propane vapor
• Carburetor	Down Draft
• Secondary Fuel Regulator	Standard
• Fuel Shut Off Solenoid	Standard
• Operating Fuel Pressure	5" - 14" H_2O

ELECTRICAL SYSTEM

• Battery Charge Alternator	12V 30 Amp
• Static Battery Charger	2 Amp
• Recommended Battery	Group 26, 525CCA
• System Voltage	12 Volts

ENCLOSURE FEATURES

- **Aluminum weather protective enclosure** – Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability.
- **Enclosed critical grade muffler** – Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
- **Small, compact, attractive** – Makes for an easy, eye appealing installation.
- **SAE** – Sound attenuated eclosure ensures quiet operation.

Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046 and DIN6271). (All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271).

Operating Data

KW RATING (LP/NG)		35/35				
ENGINE SIZE		2.4 Liter Inline 4				
GENERATOR OUTPUT VOLTAGE/KW - 60Hz		**kW LPG**	**AMP**	**kW Nat. Gas**	**AMP**	**CB Size**
120/240V, 1-phase, 1.0 pf		35	146	35	146	175
120/208V, 3-phase, 0.8 pf		35	121	35	121	150
120/240V, 3-phase, 0.8 pf		35	105	35	105	125
277/480V, 3-phase, 0.8 pf		35	52	35	52	60
ENGINE FUEL CONSUMPTION (Natural Gas) (Propane)		**Natural Gas** (ft^3/hr.)		**Propane** (gal/hr.)		cu ft/hr
Exercise cycle		48		0.5		19
25% of rated load		156		1.7		62
50% of rated load		282		3.1		112
75% of rated load		392		4.3		156
100% of rated load*		503		5.5		200
For Btu content, multiply ft^3/hr x 2520 (LP) or ft^3/hr x 1000 (NG)						
ENGINE COOLING						
Air flow (inlet air including alternator and combustion air)	ft^3/min.			2,200		
System coolant capacity	US gal.			2.5		
Heat rejection to coolant	BTU/hr.			145,000		
Max. operating air temp. on radiator	°C (°F)			60 (150)		
Max. ambient temperature	°C (°F)			50 (140)		
COMBUSTION AIR REQUIREMENTS						
Flow at rated power 60 Hz	cfm			106		
SOUND EMISSIONS IN DBA						
Exercising at 7 meters				58		
Normal operation at 7 meters				64		
EXHAUST						
Exhaust flow at rated output 60 Hz	cfm			300		
Exhaust temp. at muffler outlet	°F			1075		
ENGINE PARAMETERS						
Rated synchronous RPM	60 Hz			1800		
POWER ADJUSTMENT FOR AMBIENT CONDIIONS						
Temperature Deration	3% for every 10 °C above - °C 1.65% for every 10 °F above - °F			25 77		
Altitude Deration	1% for every 100 m above - m 3% for every 1000 ft. above - ft.			915 3000		

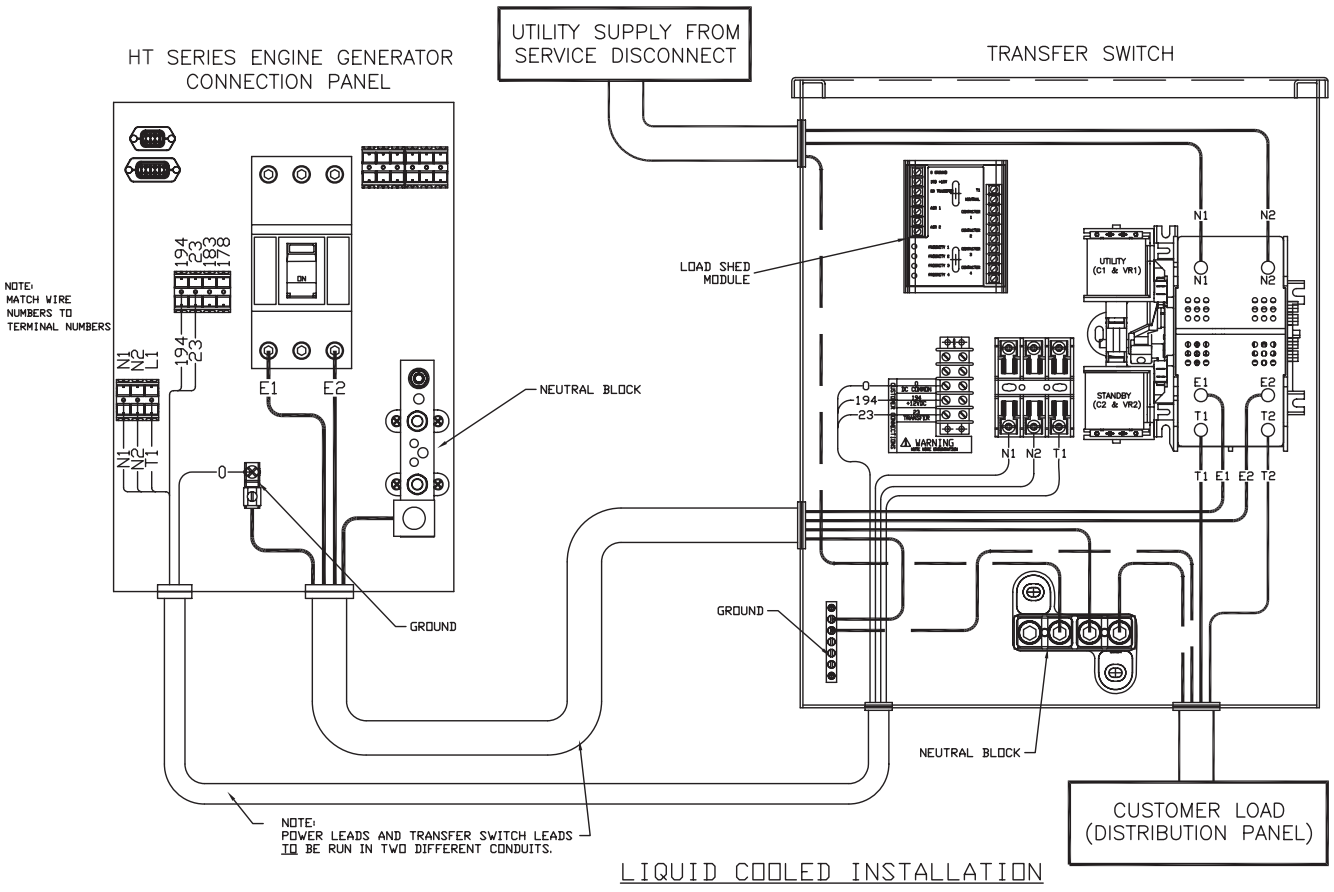
Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

RATING: All three phases units are rated at 0.8 power factor. All single phase units are rated at 1.0 power factor. STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

35 kW

LIQUID-COOLED GENERATOR SETS

Interconnections



CONTROL FEATURES

• 2-Line Plain Text LCD Display	Simple user interface for ease of operation	• Automatic Low Oil Pressure Shutdown	Standard
• Mode Switch		• Overspeed Shutdown	
-Auto	Automatic Start on Utility failure. 7 day exerciser	• High Temperature Shutdown	Standard
-Off	Stops unit. Power is removed. Control and charger still operate.	• Overcrank Protection	Standard
		• Safety Fused	Standard
-Manual/Test (start)	Start with starter control, unit stays on. If utility fails, transfer to load takes place.	• Failure to Transfer Protectio	Standard
		• Low Battery Protection	Standard
• Programmable start delay between 10-30 seconds	Standard	• 50 Event Run Log	Standard
• Engine Start Sequence	Cyclic cranking: 16 sec. on, 7 rest (90 sec. maximum duration)	• Future Set Capable Exerciser	Standard
		• Incorrect Wiring Protection	Standard
• Engine Warm-up	5 seconds	• Internal Fault Protection	Standard
• Engine Cool-Down	1 minute	• Common External Fault Capability	Standard
• Starter Lock-out	Starter cannot re-engage until 5 sec. after engine has stopped.	• Governor Failure Protection	Standard
• Smart Battery Charger	Standard		
• Automatic Voltage Regulation with Over and Under Voltage Protection	Standard		

Single and three phase connections may vary , refer to the owner's manual for specific connection information.

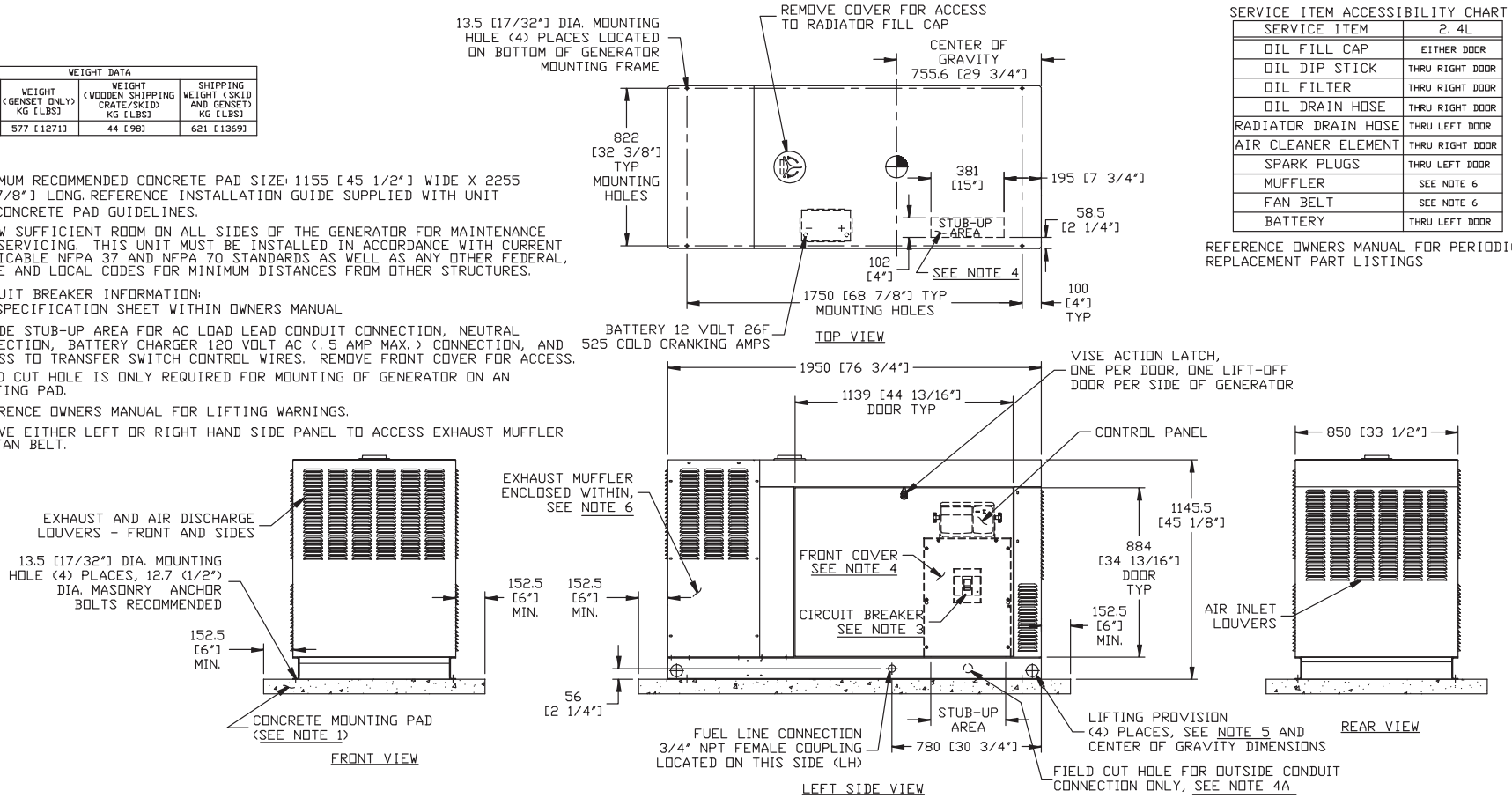
WEIGHT DATA			
ENCLOSURE MATERIAL	WEIGHT (GENSET ONLY) KG [LBS]	WEIGHT (WOODEN SHIPPING CRATE/SKID) KG [LBS]	SHIPPING WEIGHT (SKID AND GENSET) KG [LBS]
ALUMINUM	577 [1271]	44 [98]	621 [1369]

NOTES:

1) MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1155 [45 1/2"] WIDE X 2255 [88 7/8"] LONG. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES.
2) ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE AND LOCAL CODES FOR MINIMUM DISTANCES FROM OTHER STRUCTURES.
3) CIRCUIT BREAKER INFORMATION: SEE SPECIFICATION SHEET WITHIN OWNERS MANUAL
4) INSIDE STUB-UP AREA FOR AC LOAD LEAD CONDUIT CONNECTION, NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT AC (.5 AMP MAX.) CONNECTION, AND ACCESS TO TRANSFER SWITCH CONTROL WIRES. REMOVE FRONT COVER FOR ACCESS.

4A) FIELD CUT HOLE IS ONLY REQUIRED FOR MOUNTING OF GENERATOR ON AN EXISTING PAD.

5) REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
6) REMOVE EITHER LEFT OR RIGHT HAND SIDE PANEL TO ACCESS EXHAUST MUFFLER AND FAN BELT.



SERVICE ITEM ACCESSIBILITY CHART

SERVICE ITEM	2.4L
OIL FILL CAP	EITHER DOOR
OIL DIP STICK	THRU RIGHT DOOR
OIL FILTER	THRU RIGHT DOOR
OIL DRAIN HOSE	THRU RIGHT DOOR
RADIATOR DRAIN HOSE	THRU LEFT DOOR
AIR CLEANER ELEMENT	THRU RIGHT DOOR
SPARK PLUGS	THRU LEFT DOOR
MUFFLER	SEE NOTE 6
FAN BELT	SEE NOTE 6
BATTERY	THRU LEFT DOOR

REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS

Installation Layout

Honeywell

AVAILABLE ACCESSORIES

Model #	Product	Description
5630	Cold Weather Kit	If the temperature regularly falls below 32° F, install a cold weather kit to maintain optimal battery temperature. Kit consists of battery warmer with thermostat built into the wrap.
5616	Extreme Cold Weather Kit	Recommended where the temperature regularly falls below 32° F for extended periods of time. For liquid cooled units only.
6160	Paint Kit	Paint Kit
5656	Scheduled Maintenance Kit	The Liquid-Cooled Scheduled Maintenance Kits offer all the hardware necessary to perform a complete maintenance on Honeywell liquid-cooled generators.
5951	Advanced Sync Wireless Remote	Remotely control generator functions with the advanced model's LED display. In addition to remote testing of the generator, set the excercise cycle and maintenance interval reminders
6102	DLM Load Control Module (50 Amps)	DLM Modules are used in conjunction with the Sync Smart Switch to increase its load management capabilities. It gives the Sync Smart Switch additional load management flexibility not found in any other transfer switch.

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Honeywell

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Dec 2011