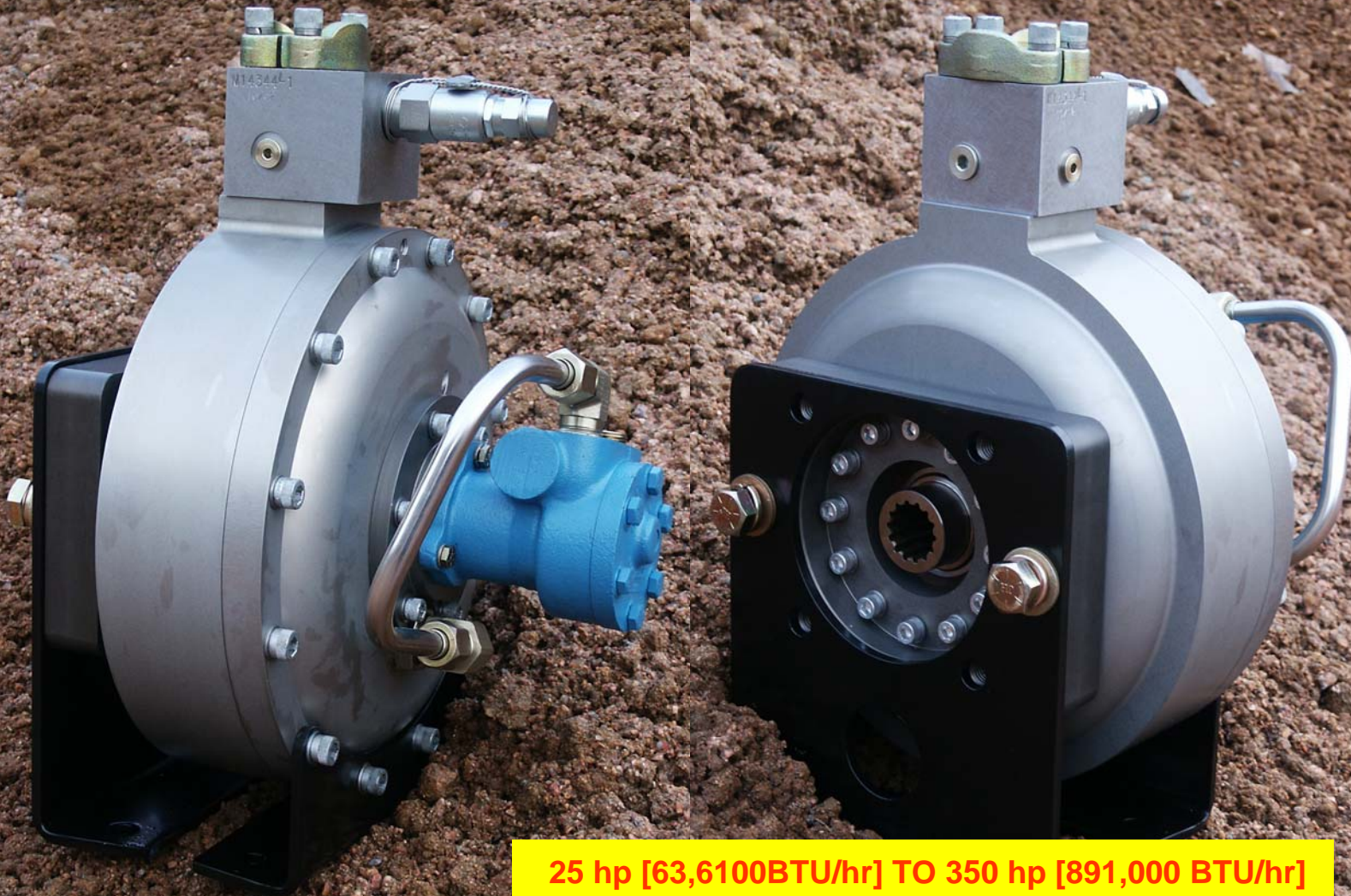


DYNAMIC HEAT GENERATOR – MODEL A1R1163/A2R1163



PREHEAT AND WARM ENGINES

HEAT TO VAPORIZE LIQUIFIED GASES

HEAT OILS, FUELS AND LUBRICANTS

HEAT BUILDINGS, SHELTERS, AND DECKS

PREVENT WATER FREEZING IN TANKS

WARM AND CIRCULATE POTABLE WATER

DEICE VEHICLES AND AIRCRAFT

BOIL WATER/DESTROY PATHOGENS

HEAT COOKING AND WASH WATER

WARM HYDRAULIC SYSTEMS

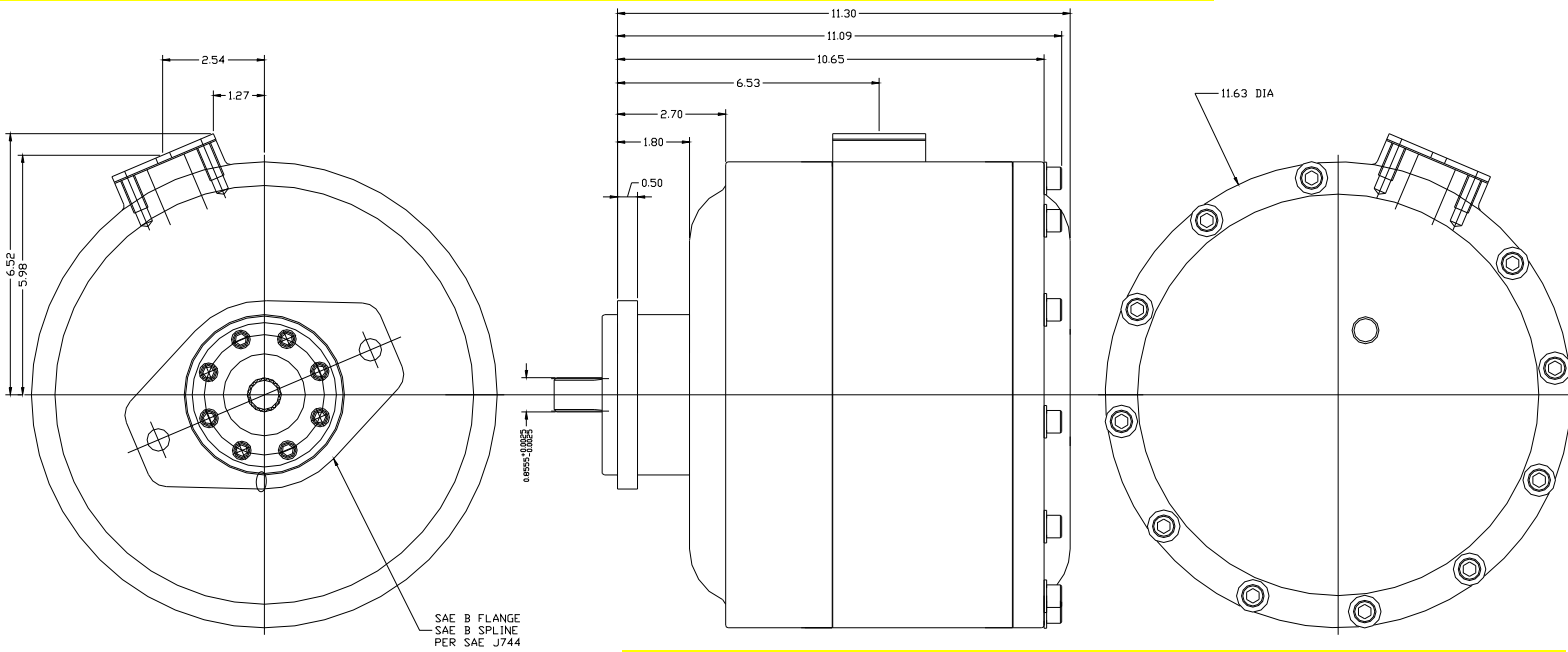
COOK AND HEAT FOOD



Simple and rugged characterizes the Island City DHG construction.. Monolithic CNC machined components are TYPE III anodized per MILSPEC for corrosion and erosion protect. Hard housing surface finish (85 Rockwell) is approved for potable water and food applications. Operating temperature range to 250 deg F [121 deg C] with higher operating temperature available upon application.

PAT APPLIED FOR

MODEL A2R1163 Single and Dual Rotor Heat Generators



0 hp TO 350 hp [890,500 BTU/hr] **INSTANTANEOUS HEAT**

SINGLE ROTOR MODEL WEIGHS ONLY 30 lb

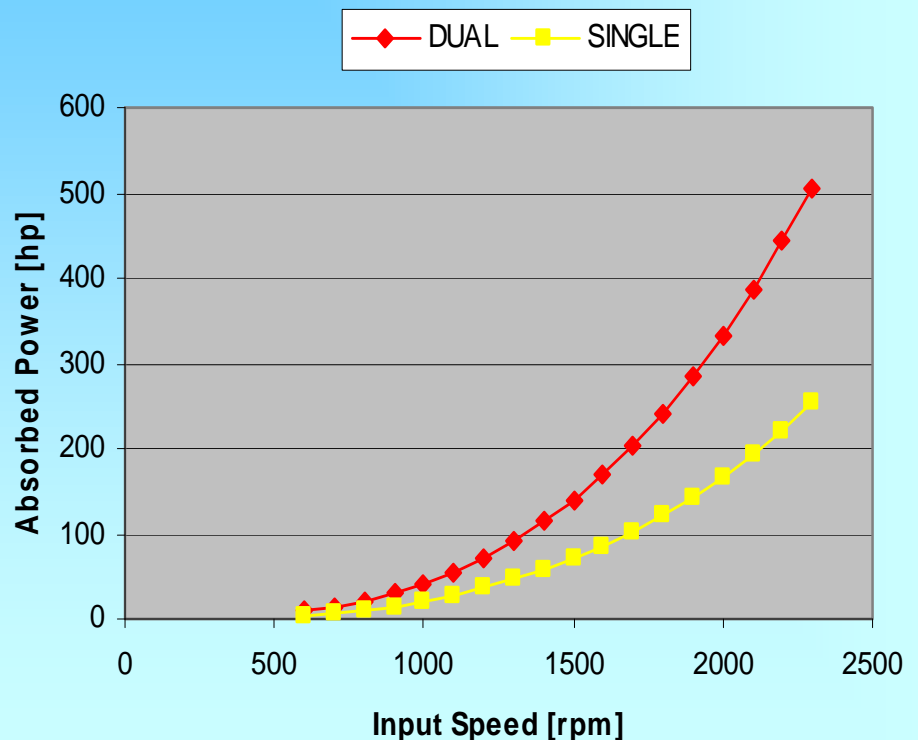
DUAL ROTOR MODEL WEIGHS ONLY 70 lb

The ISLAND CITY Dynamic-Heat-Generator is a **MECHANICALLY DRIVEN** fluid heater. Only rotary shaft input is required to heat large fluid volumes rapidly and efficiently without a heat exchanger. **ORIGINALLY** developed to heat and maintain diesel engine temperature in arctic conditions the DHG is adaptable to many heating applications. Driven from engine PTO, electric motor, hydraulic drive or belt the DHG has one moving functional component requiring no regular service or consumables.

BASIC SPECIFICATIONS Model 1163

Capacity:	Single Rotor: 250 hp [636,000 BTU/hr] Dual Rotor: 350 hp [890,500 BTU/hr]
Temp (max):	250 deg F (Higher temperature available upon application)
Drive:	SAE A, B, C, D or customer specified
Heat Regulation:	Rotational Speed Full Disconnect Clutch Fluid Flow Fluid Level Control
Ports:	Inlet: #12 SAE Outlet: #16 Code 61 or customer specified
Pressure (max)	300 psi
Options:	Integral Charge Pump Full Disconnect Clutch
Construction:	ASTM A514, 304 SS, 6061 T6
Finish:	Hard Coat Type III Anodic Finish with sealer per MIL-A-8625F, meets requirements for food, ethylene glycol, and water service. (other housing materials and surface treatments available upon application)

Performance Curve Model 1163



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