

# COGENERATION

# DRESSER-RAND

## EXHAUST HEAT/RECOVERABLE ENERGY

MODEL (1)	GENERATOR OUTPUT (2)	RECOVERABLE ENERGY IN THE EXHAUST (3)		STEAM PRODUCTION (4) 25 PSIG / 1.72 BAR DRY AND SATURATED		STEAM PRODUCTION (4) 150 PSIG / 10.3 BAR DRY AND SATURATED		STEAM PRODUCTION (4) 600 PSIG / 41.4 BAR 750°F / 400°C DRY AND SATURATED	
		MW	mmBTU/ hr	MW (MJ/s)	lb/hr	Metric tons/hr	lb/hr	Metric tons/hr	lb/hr
➔ KG2-3C	1.48	22.0	5.87	19700	8.94	19000	8.63	15600	7.08
KG2-3E	1.84	22.3	6.52	21800	9.88	21100	9.58	17000	7.69
DR60G	13.81	59.1	17.3	58000	26.4	56100	25.4	41800	18.9
DR61	22.30	98.4	28.8	96900	44.0	93400	42.4	74200	33.6
DR61G	22.50	96.7	28.3	95300	43.2	91800	41.7	71900	32.6
DR61GP	28.07	111	32.5	10900	49.6	105000	47.6	80200	36.4
DR61P	28.91	116	34.0	114000	51.7	110000	49.7	86400	39.2
DR63G	41.60	139	40.7	137000	62.0	131000	59.5	91500	41.5

1. All gas turbines are with dry-low-emissions (DLE) gas generator except for the KG2 gas turbines.

2. Ratings are continuous, ISO conditions, 15°C, no duct losses, gear efficiency of 98.5% and generator efficiency of 98% (Except for the KG2 gas turbine engines.)

3. Based on final exhaust stack temperature of 300°F (150°C) and average exhaust gas Cp of 0.26 BTU/lb°F (1.09 kJ/kg°C).

4. Steam production figures based upon an average exhaust gas Cp of 0.26 BTU/lb°F, a feedwater temperature of 200°F (93°C), a final stack temperature of 300°F (150°C) and a minimum pinch point of 25°F (14°C).