

Kawasaki RCMX 12.65 MW Steam Turbine Generator Set – 2015

## Kawasaki RCMX 12.65 MW Steam Turbine Generator Set – 2015

**Manufacturer:** Kawasaki Heavy Industries, Ltd.

**Model:** RCMX

**Generator Manufacturer:** Meidensha Corporation (MEIDEN)

**Generator Model:** TIC-AFT

**Rated Electrical Output:** 12,650 kW (12.65 MW)

**Manufacturing Year:** 2015

**Availability:** Enquire for availability and commercial terms

**Price:** Price on request

### Product Description

Offered for enquiry is a Kawasaki Heavy Industries RCMX steam turbine generator set manufactured in 2015, featuring a Meidensha Corporation TIC-AFT synchronous generator.

With a stated electrical output of 12.65 MW, this industrial power generation package is designed for steam-driven electricity generation applications. The supplied manufacturer nameplate specifications identify a main steam pressure of 2.55 MPa, a main steam temperature of 368°C and a turbine exhaust pressure of 7.5 kPa absolute.

The Meiden synchronous generator is rated at 14,056 kVA, with a nominal voltage of 3,450 V, a frequency of 60 Hz and a rotational speed of 1,800 rpm.

This equipment may be suitable for industrial power generation, process plants and compatible cogeneration projects, subject to engineering assessment and verification of operating requirements.

### Technical Specifications

#### Steam Turbine

Specification

Details

|                           |                                 |
|---------------------------|---------------------------------|
| Manufacturer              | Kawasaki Heavy Industries, Ltd. |
| Model                     | RCMX                            |
| Equipment type            | Steam turbine                   |
| Generator terminal output | 12,650 kW                       |
| Turbine rotational speed  | 5,586 rpm                       |
| Main steam pressure       | 2.55 MPa                        |
| Main steam temperature    | 368°C                           |
| Steam admission pressure  | 0.55 MPa                        |
| Exhaust pressure          | 7.5 kPa absolute                |
| Upper casing weight       | 7,550 kg                        |
| Rotor weight              | 3,410 kg                        |
| Manufacturing date        | April 2015                      |

## Synchronous Generator

| Specification        | Details                        |
|----------------------|--------------------------------|
| Manufacturer         | Meidensha Corporation (MEIDEN) |
| Model                | TIC-AFT                        |
| Rated apparent power | 14,056 kVA                     |
| Rated voltage        | 3,450 V                        |
| Rated current        | 2,352 A                        |
| Frequency            | 60 Hz                          |
| Rotational speed     | 1,800 rpm                      |
| Number of phases     | 3                              |

|                            |                 |
|----------------------------|-----------------|
| Number of poles            | 4               |
| Power factor               | 0.90            |
| Excitation voltage         | 225 V           |
| Field current              | 388 A           |
| Protection class           | IP44            |
| Cooling method             | IC8A1W7         |
| Duty rating                | Continuous      |
| Insulation class           | Class F (155°C) |
| Cooling medium temperature | 40°C            |
| Applicable standard        | JEC-2130-2000   |
| Serial number              | 4A8904R1        |
| Manufacturing year         | 2015            |

Kawasaki Heavy Industries RCMX steam turbine  
**Key Features** Medium AFT synchronous generator

- Rated electrical output of 12.65 MW
- Three-phase, 3.45 kV generator
- 60 Hz electrical frequency
- Industrial steam turbine generator configuration
- Manufacturer nameplate specifications available for technical review
-