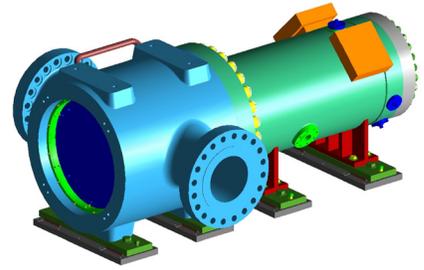


DATUM[®] C

Compact Integral Electric Motor Driven Compressor



The Dresser-Rand DATUM[®] C centrifugal compressor is an integrated, electric motor-driven compressor designed for natural gas pipeline and process gas applications.

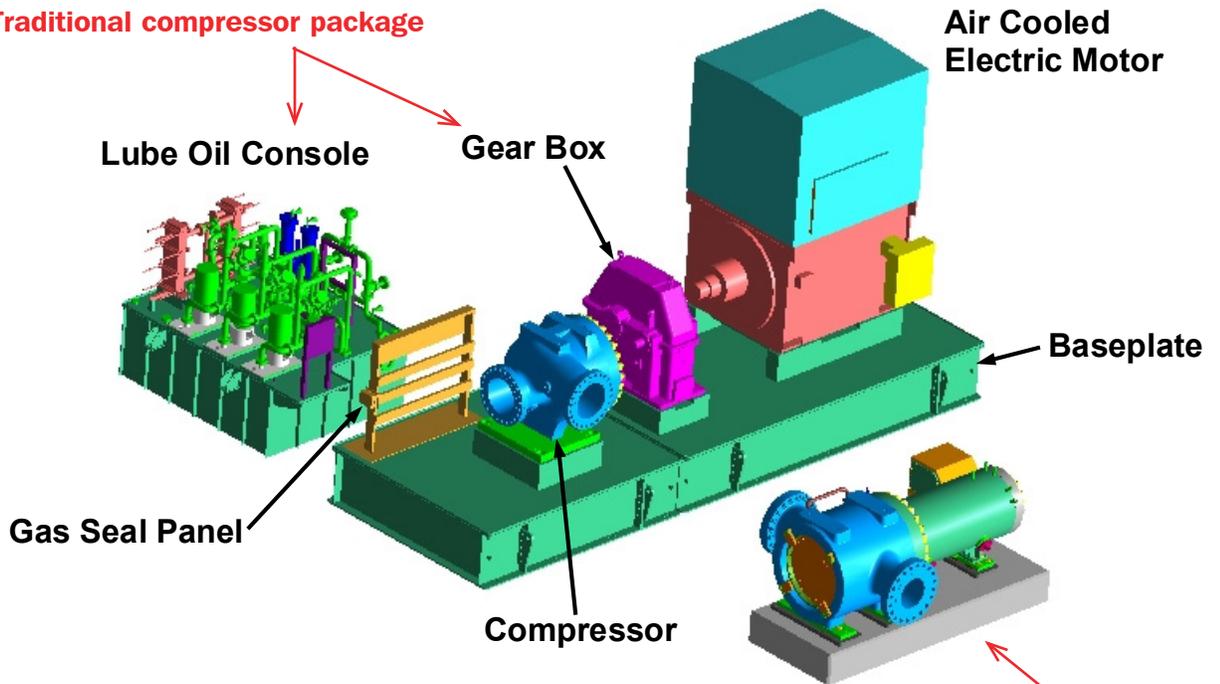
For clients concerned about installation costs, reliable performance, and environmental issues, the following features make the DATUM C compressor an excellent choice for pipeline service:

- Integrated, high-speed electric induction motor manufactured by Curtiss Wright EMD
- Available in single-stage overhung and multi-stage beam-style configurations
- Natural gas cooled or hydrogen cooled motor
- In-line piping flanges for single stage compressor configurations
- Variable-speed operation
- Zero hydrocarbon leakage to the atmosphere
- Magnetic bearings for compressor and motor

DATUM C Compact Compressor = Less Weight, Less Space

	Traditional Compressor	DATUM C Compressor	DATUM C Advantage*
Size	509 sq. ft (47 sq. m)	100 sq. ft (9.3 sq. m)	80 percent less space
Weight	184,200 lb (83,552 kg)	78,050 lb (35,403 kg)	58 percent less weight

Traditional compressor package



DATUM C compressor package

*Sized for identical operating conditions (10 MW power, 600 mmscfd flow rate, 1100 psi discharge pressure)

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EMEA

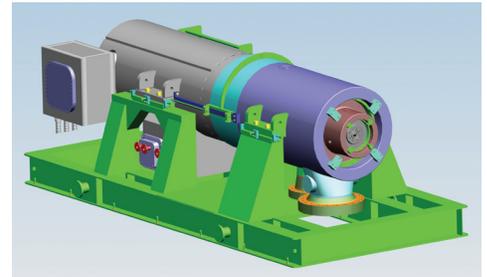
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Easy To Install And Maintain

The DATUM C compressor is acceptable for onshore or offshore installation. Its small footprint and modular compressor bundle make installation and maintenance easier than conventional units, while minimizing the requirements for auxiliary systems and buildings.



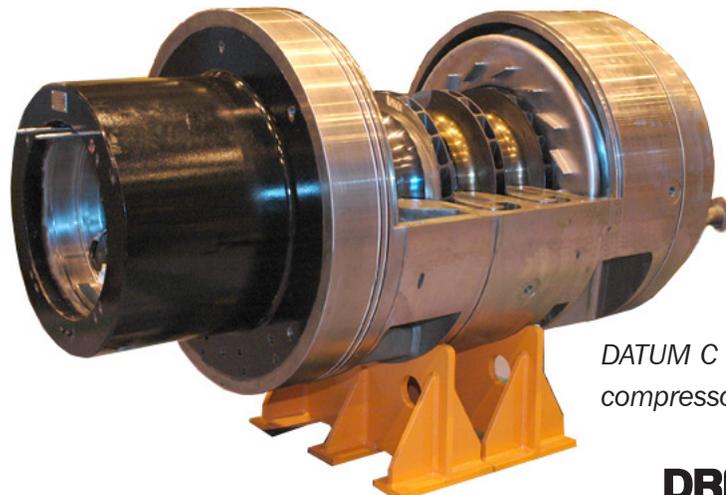
Environmentally Friendly

Because of its integrated and totally enclosed configuration, the DATUM C compressor offers significant environmental benefits. One of the most significant design features of the DATUM C compressor is the use of magnetic bearings. The unique application of magnetic bearings in the DATUM C compressor uses digital—instead of analog—controls, computer-based algorithms make tuning and adjusting the bearings very simple and efficient. Because of the magnetic bearings there is no need for an oil lubrication system. Some significant environmental benefits include the following:

- Emission-free design
- Quiet operation
- Reduced footprint
- No on-site leakage from shaft seals
- Magnetic bearings that eliminate need for oil lubrication
- Unit can remain pressurized during shutdowns, reducing start-up time

Capabilities Chart

	D8C	D10C	D12C	D14C	D16C
Flange size (max) - in (mm)	20 (508)	20 (508)	24 (610)	30 (762)	36 (914)
Case rating (max) - psi (bar)	5000 (350)	5000 (350)	5000 (350)	5000 (350)	3000 (200)
Capacity (max) - acfm (cmh)	13000 (22087)	18000 (30582)	24000 (40776)	32000 (54368)	43000 (73057)
Number of impellers (max)	6	6	6	6	6
Efficiency (est. f-f poly)	83	84	84	85	86
Frame speed (max rpm)	16000	14000	12000	10000	9000



DATUM C multi-stage compressor bundle



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