

High performance compressed air systems for 0.33 to 2.2 m³/min

The “Aircenter” series from Kaeser Kompressoren offer cost-effective compressed air production, treatment and storage with minimal space requirement.

KAESER’s “Aircenter” packages provide a reliable and cost-effective source of application-specific compressed air. All three modules – the compressor, dryer and air receiver are enclosed within a single housing, offering a footprint of around one square metre.

At the heart of these versatile packages is a high performance SX, SM or SK series rotary screw compressor. Covering a free-air delivery range from 0.33m³/min to 2.2 m³/min at 8-bar and equipped with drive motors from 2.2 kW to 15 kW. These units also offer exceptionally low noise levels of between 60 and 65 dB(A). For applications that require larger volumes of compressed air, 11 and 15 bar versions are also available.

“Aircenter 12” and 21” units can be equipped with Kaeser’s “SFC” variable



Kaeser’s compact “Aircenter” packages combine ultra-quiet performance with exceptional power and efficiency. The “Aircenter” models 3, 4, 6, 8 (pictured), 9, 12 and 15 cover an air delivery range from 0.33 to 1.5 m³/min



Aircenter 21 (pictured) and 24 produce FADs of 1.8 and 2.2 m³/min respectively

speed control, which allows the compressor performance to be precisely matched to air demand. Moreover, it enables the compressed air supply system to be seamlessly integrated into a centralised control system.

An integrated refrigeration dryer also ensures compressed air drying. This is thermally shielded to prevent exposure to heat from the compressor package. Air quality can also be tailored to suit an application’s specific air needs with the use of optionally available filters. Compressed air is stored in either a 200-litre (Aircenter 3, 4, 6 and 8), a 270-litre (Aircenter 9, 12 and 15) or a 350-litre air receiver (Aircenter 21 and 24) installed beneath the compressor.

Every unit uses a flow optimised “Sigma Profile” fluid-cooled air-end and

an EU-eff1-rated1 motor to guarantee high energy-efficiency. The motor and air-end in SM and SK units are connected via a V-belt drive system equipped with an automatic tensioning device, whilst the SX uses a maintenance-free drive belt. Effective sound insulation and low air-end speeds further help to keep noise to a minimum.

In keeping with the turnkey design, all “Aircenter” systems are ready for immediate operation once the unit has been connected to the mains supply and compressed air network. Component accessibility is also made simple, as all ‘Aircenter’ models feature easy to remove housing panels.

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1: Motors awarded this rating meet the stringent energy-efficiency requirements of the EU “eff1” standard adopted by the Committee of European Manufacturers of Electrical Machines and Power Electronics. This self-imposed standard equates to the American “Energy Policy Act” (EPACT).