

Semi-hermetic design

BITZER owes a considerable portion of its success to its well-known OCTAGON® series and ".2 Generation" reciprocating compressors. These compressors are particularly efficient, sturdy, reliable, low-vibration and silent and can thus be put to many uses in heat pump, air conditioning and refrigeration applications, extending from medium temperature to low temperature applications requiring small and medium capacities. In addition, the modern design meets the specific requirements for all modern refrigerants.



4.1 .. 221 m³/h
0.5 .. 70 HP

Tandem compressors

The tandem concept is the simplest way of connecting OCTAGON® series respectively single or two-stage ".2 Generation" compressors in parallel. The compressors are mounted via the joint suction gas chamber at the motor sides. Efficient capacity control is achieved by switching one of the compressors or by blocking cylinders (possible with 4-cylinder compressors).



22.7 .. 303 m³/h
4 .. 100 HP

2-stage design

The 2-stage ".2 Generation" compressors have not only proven their worth for the extreme thermal loads of R22 low temperature applications, but are to this day demonstrating their versatility and reliability in climatic chambers, in vacuum drying and other applications. This technology efficiently and reliably covers application ranges with evaporation temperatures as low as -70°C.



19.7 .. 101.1 m³/h
5.5 .. 30 HP

Open drive design

The ".2 Generation" open drive compressors are frequently used to meet special requirements, for instance in marine applications, in explosion-proof design and/or systems with NH₃. They are equipped with a particularly reliable shaft seal and can be operated either with directly flanged-on motor or by means of V-belts.

The low speed compressors 0..VII complete the open compressor series to smaller capacities.



19.7 .. 151.6 m³/h

Compressors for transport applications

BITZER reciprocating compressors perform their tasks in a variety of transport applications. These silent aluminum lightweights in open drive design are employed in bus air conditioning ranging from small minibuses to double-decker buses or in transport refrigeration systems.

Frequency-controlled semi-hermetic aluminum compressors are out at sea cooling modern containers while OCTAGON® compressors used in the air conditioning of passenger trains, suburban trains and locomotive driver's cabs have already traveled millions of miles.



34.7 .. 84.4 m³/h