PRODUCTS AND SOLUTIONS
You can’t see our products anywhere. But you can feel them everywhere. That’s because BITZER compressors are the central element of countless refrigeration and air conditioning systems worldwide. BITZER compressors beat steadily and reliably at the heart of refrigeration systems—including building air conditioning, supermarket refrigeration or marine applications up to bus and railway air conditioning. As a market leader, we offer our customers a complete range of products MADE IN GERMANY. With state-of-the-art product quality, we drive innovation and sustainability, always making sure of the perfect temperature and optimal climate for any application.
FIT'S PERFECTLY! THE RIGHT SOLUTION FOR YOUR APPLICATION.

INTELLIGENT MONITORING. COMPRESSORS WITH EXPERIENCE AND PERSPECTIVE.

BITZER has the perfect answer to rising energy costs and new environmental regulations: INTELLIGENT PRODUCTS enable secure and fast data communication, manage compressor functions and prepare comprehensive log files. Always in focus: with the IQ MODULE, BITZER offers maximum user-friendliness. The BEST SOFTWARE (BITZER Electronics Service Tool) provides our customers with intuitive commissioning, troubleshooting and support for all BITZER IQ PRODUCTS. Combined with innovative, flexible capacity control concepts such as BITZER VARISTEP, it further increases system efficiency.

EXTREMELY EFFICIENT. SOLUTIONS FOR THE CHALLENGES OF TOMORROW.

Energy efficiency is a decisive factor, both ecologically and economically. With BITZER, you can build refrigeration and air conditioning systems today that fulfill the efficiency and environmental standards of tomorrow. The optimal VARISTEP mechanical capacity control and our cutting-edge line-start permanent-magnet (LSPM) motor technology increase overall system efficiency when using ECOLINE+ reciprocating compressors and ORBIT+ scroll compressors. The external VARIPACK frequency inverter and integrated VARISPEED frequency inverter optimise the operating conditions of the refrigeration system, enabling efficient compressor operation and increasing system efficiency. Combined with the BITZER IQ MODULE, they offer maximum flexibility in the use of refrigerants as well as safe operation alongside very smooth running, thus effectively equipping you for the challenges of tomorrow.

WELL PREPARED. THE RIGHT REFRIGERANT FOR YOUR SYSTEM.

BITZER can help you select the refrigerant as well as the most suitable product for your application. BITZER offers an extensive range of products suitable for use with various low-GWP refrigerants. Products with the "HFO-ready" label are qualified for operation with hydrofluoroolefin (HFO) refrigerants, which can be used as pure substances (for example, R1234ze(E) and R1234yf) or as HFO/HFC blends (for example, R513A, R450A, R449A and R448A). Scroll compressors for use with R32, R454B and R452B are available for air conditioning applications. Our compressors are also ideal for operation with natural refrigerants such as CO₂ (R744) as well as with ammonia (R717) and hydrocarbons (for example, R290 and R1270). You can find further information in the instructions on safety and use in the documentation as well as in the BITZER SOFTWARE.

INTERNATIONAL EXPERIENCE. BITZER PRODUCTS FOR THE HIGHEST STANDARDS.

BITZER products meet the relevant international standards in the areas of environmental regulations, energy consumption and safety. You can find further information about our international certifications in the BITZER documentation or on our website at www.bitzer.de
### RECIPROCATING COMPRESSORS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Code Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECOLINE // Semi-hermetic reciprocating compressors (1-stage)</td>
<td></td>
<td>2KES-05Y .. 8FE-70Y</td>
</tr>
<tr>
<td>ECOLINE // Semi-hermetic reciprocating compressors with integrated frequency inverter</td>
<td></td>
<td>2DES-3.F1Y .. 4NE-20.F4Y</td>
</tr>
<tr>
<td>ECOLINE // Semi-hermetic reciprocating compressors for CO₂ applications</td>
<td></td>
<td>2NSL-05K .. 4NSL-30K // 2MME-07K .. 2DME-7K // 2MTE-4K .. 6CTE-50K</td>
</tr>
<tr>
<td>Semi-hermetic reciprocating compressors (2-stage)</td>
<td></td>
<td>54T-5.2 .. 56F-30.2</td>
</tr>
<tr>
<td>Open drive reciprocating compressors (1-stage)</td>
<td></td>
<td>0 .. VII // 2T.2 .. 6F.2 // W2TA .. W6FA</td>
</tr>
<tr>
<td>Open drive reciprocating compressors (2-stage)</td>
<td></td>
<td>56H.2 .. 56F.2</td>
</tr>
<tr>
<td>ROADSTAR // Open drive reciprocating compressors (for mobile applications)</td>
<td></td>
<td>2TF .. 6NFC</td>
</tr>
<tr>
<td>Semi-hermetic reciprocating compressors (1-stage for mobile applications)</td>
<td></td>
<td>2EESH-2Y .. 4NEH-20Y</td>
</tr>
</tbody>
</table>

Theoretical displacement (standard series) at 50 Hz/1450 min⁻¹

<table>
<thead>
<tr>
<th>Displacement (m³/h)</th>
<th>0</th>
<th>25</th>
<th>50</th>
<th>75</th>
<th>100</th>
<th>125</th>
<th>150</th>
<th>175</th>
<th>200</th>
<th>225</th>
<th>250</th>
<th>275</th>
<th>300</th>
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<td>56F.2</td>
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</table>

(500–3500 min⁻¹)
### SCREW COMPRESSORS

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Theoretical displacement at 50 Hz/2900 min⁻¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS.(A) series</td>
<td>Open drive screw compressors</td>
<td>OS.(A) 53/74/85/95</td>
</tr>
<tr>
<td>HS series</td>
<td>Semi-hermetic screw compressors</td>
<td>HS.53/64/74/85/95</td>
</tr>
<tr>
<td>CS series</td>
<td>Semi-hermetic compact screw compressors</td>
<td>CS.65/75/85/95/105</td>
</tr>
<tr>
<td>CSV series</td>
<td>Semi-hermetic compact screw compressors with integrated frequency inverter</td>
<td>CSV.2/CSV.3</td>
</tr>
<tr>
<td>VSK series</td>
<td>Hermetic compact screw compressors (for mobile applications)</td>
<td>VSK With frequency inverter</td>
</tr>
</tbody>
</table>

### SCROLL COMPRESSORS

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Theoretical displacement at 50 Hz/2900 min⁻¹ // ORBIT+ at 50 Hz/3000 min⁻¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORBIT 6 and 8</td>
<td>Hermetic scroll compressors</td>
<td>GSD60120 .. GSD80485</td>
</tr>
<tr>
<td>ORBIT+</td>
<td>Hermetic scroll compressors with innovative motor technology</td>
<td>GSU60120 .. GSU80485</td>
</tr>
<tr>
<td>ORBIT FIT</td>
<td>Hermetic scroll compressors with economiser technology</td>
<td>GED60120 .. GED80485</td>
</tr>
<tr>
<td>ESH series</td>
<td>Hermetic scroll compressors</td>
<td>ESH725 .. ESH743</td>
</tr>
<tr>
<td>ELH series</td>
<td>Hermetic scroll compressors (for mobile applications)</td>
<td>ELH725 .. ELA743</td>
</tr>
<tr>
<td>SPEEDLITE</td>
<td>Semi-hermetic scroll compressors (for mobile applications)</td>
<td>ELV21 ELV51</td>
</tr>
</tbody>
</table>
## PRODUCT RANGES

### HEAT EXCHANGERS AND PRESSURE VESSELS

#### WATER COOLED CONDENSERS
- Condensers for standard applications
- Condensers for seawater applications

<table>
<thead>
<tr>
<th>Condensing capacity (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
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<tr>
<td>---</td>
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<tr>
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</tr>
</tbody>
</table>

#### EVAPORATORS
- Shell and tube evaporators with direct-expansion
- Shell and tube evaporators, flooded

<table>
<thead>
<tr>
<th>Cooling capacity (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
</tr>
<tr>
<td>---</td>
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<tr>
<td>---</td>
</tr>
</tbody>
</table>

#### OIL COOLERS
- Water cooled oil coolers
- Air cooled oil coolers

<table>
<thead>
<tr>
<th>Oil cooler capacity (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>---</td>
</tr>
</tbody>
</table>

#### LIQUID RECEIVERS
- Standard series (HFC, HFO)
- K series (R410A, subcritical CO₂)
- A series (NH₃)
- P series (hydrocarbons)

<table>
<thead>
<tr>
<th>Vessel volume (dm³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
</tr>
<tr>
<td>---</td>
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<tr>
<td>---</td>
</tr>
</tbody>
</table>

#### OIL SEPARATORS
- Vertical OA models (HFC)
- Vertical OA-A models (NH₃)
- Vertical OAC combi models (NH₃)
- Horizontal OAHC combi models (NH₃)

<table>
<thead>
<tr>
<th>Theoretical displacement (m³/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
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<tr>
<td>---</td>
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<tr>
<td>---</td>
</tr>
</tbody>
</table>
# Condensing Units and Compressor Packs

## Condensing Units

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Description</th>
<th>Theoretical displacement of the compressor at 50 Hz/1450 min⁻¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECOSTAR // Air cooled condensing units (at variable speed)</td>
<td>LHVSE/20ES-3.F3Y ... LHV7E/4NE-14.F3Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECOLITE // Air cooled condensing units</td>
<td>LHL3E/2EES-2Y ... LHL5E/4CES-6Y</td>
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</tr>
<tr>
<td>LHE series // Air cooled condensing units</td>
<td>LH12E/2KES-05Y ... LH265E/6GE-40Y</td>
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</tr>
<tr>
<td>K series // Water cooled condensing units</td>
<td>K073H(B)/2KES-05Y ... K1353T(B)/6FE-50Y</td>
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<td></td>
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## Ammonia Compressor Packs

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Description</th>
<th>Full-load at 50 Hz for the smallest model // 70/50/50 Hz for the largest model</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACP series with screw compressors</td>
<td>ACP.85 ... ACP.95</td>
<td></td>
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</tr>
</tbody>
</table>
BITZER compressors are the best choice for diverse refrigeration requirements: they really come into their own when it’s important to maintain the right temperature regardless of outdoor conditions. In commercial refrigeration, for example, where it is essential to guarantee specific product temperatures within a limited range all-year round without a single interruption. This ensures the highest level of product quality over a long period of time. They are also ideal for the industrial application of low temperature storage at chain stores or when it comes to blast-freezing foods or freeze-drying medicines.

Industrial Refrigeration: Products mainly for the use of NH₃. Products for other refrigerants in the subchapter Commercial Refrigeration.
VARIPACK frequency inverters are specially developed for operation with BITZER compressors. Energy can be saved by flexibly adapting a system’s cooling demand and the optimal match of compressor and frequency inverter. The frequency inverter speaks the language of cooling.

Applications
// Medium temperature application
// Low temperature application

2.5 .. 309 m³/h at var. speed
0.78 .. 65.7 m³/h at var. speed (CO₂)

ECOLINE reciprocating compressors offer high cooling capacity with minimal energy requirements and are optimised for HFC, HFO and low-GWP refrigerants. The optional VARISTEP mechanical capacity control offers high part-load efficiency in medium and low temperature application.

Applications
// Medium temperature application
// Low temperature application

4.1 .. 221 m³/h at 50 Hz
The ECOLINE CO₂ reciprocating compressors are energy-efficient, reliable, environmentally friendly and future-proof, with three series available: for subcritical applications in the low temperature stage of cascade and booster systems, for subcritical applications with high standstill pressure up to 100 bar and for transcritical applications.

**Applications**

// Medium temperature application  
// Low temperature application  
// Air conditioning

**Applications**

// Medium temperature application  
// Low temperature application  
// Air conditioning

3.3 .. 38.1 m³/h at 50 Hz transcritical  
1.3 .. 46.9 m³/h at 50 Hz subcritical  
4.5 .. 39.5 m³/h at 50 Hz
VARISPEED
RECIPROCATING COMPRESSORS
SEMI-HERMETIC DESIGN WITH FREQUENCY INVERTER

The two VARISPEED series are designed for use with ECOLINE and ECOLINE CO₂ compressors. Stepless capacity adjustment with frequency inverters guarantees high part-load efficiency. The internal frequency inverter makes the VARISPEED compressor one of the most compact and easily installed frequency inverter solutions.

Applications
// Medium temperature application
// Low temperature application

RECIPROCATING COMPRESSORS
OPEN DRIVE DESIGN

Open drive reciprocating compressors are available in two model series: for (H)CFC/HFC refrigerants and ammonia. Due to the open drive design, standard motors can be attached to the compressor via coupling housing or belt drive. Reliability and easy maintenance have made them popular options for years.

Applications
// Medium temperature application
// Low temperature application

RECIPROCATING COMPRESSORS
SEMI-HERMETIC, 2-STAGE DESIGN

The 2-stage reciprocating compressors are designed for an extensive application range and boast an optimised drive gear and efficient motor. The highly reliable semi-hermetic series is designed to be robust and suitable for a variety of refrigerants.

Applications
// Low temperature application

8.1 .. 99.2 m³/h at variable speed
0.96 .. 151 m³/h at 1450 min⁻¹
19.7 .. 101 m³/h at 50 Hz
**ECOSTAR**
CONDENSING UNITS
AIR COOLED WITH ECOLINE
VARI SPEED

The condensing unit series for maximum efficiency in full and part-load operation. Highly efficient components, unique controller functions, plug-and-play concept, BEST SOFTWARE, web server, Ecodesign conformity and the use of low-GWP refrigerants leave nothing to be desired.

**Applications**
// Medium temperature application  
// Low temperature application

**ECOLITE**
CONDENSING UNITS
AIR COOLED WITH ECOLINE AND VARISTEP

Capacity-controlled, exceptionally adaptable condensing units as standard for medium and low temperature applications. Designed to be user-friendly with plug-and-play concept, BITZER control software, BEST SOFTWARE and Ecodesign conformity, they also enable operation with low-GWP refrigerants.

**Applications**
// Medium temperature application  
// Low temperature application

---

8.1 .. 99.2 m³/h at variable speed  
11.3 .. 32.5 m³/h at 1450 min⁻¹
The compact and robust structural shape of the condensing units and the use of efficient, optimally coordinated components enable an extensive range of both applications and capacities. They’re Ecodesign-conform and enable use of low-GWP refrigerants.

Applications
// Medium temperature application
// Low temperature application

Applications
// Medium temperature application
// Low temperature application
HS SERIES  
SEMI-HERMETIC SCREW  
COMPRESSORS

Efficient, robust, durable: thanks to the HSK/N version, HS semi-hermetic screw compressors are suitable for many application ranges and refrigerants. The internal capacity control is multistep and, from HS.85, stepless as an optional feature. All HS compressors are suitable for speed-controlled operation. From HS.95 with IQ MODULE.

Applications
// Medium and low temperature storage  
// Blast chiller  
// Blast freezer  
// Ice production  
// Heat recovery

OIL SEPARATORS AND  
OIL COOLERS

Primary, secondary and combined separator models are used in NH₃, HFC and HFO applications. To reach the most appropriate separation efficiency, centrifugal, gravity and filtration stages can be combined. Water cooled and air cooled oil coolers ensure additional cooling.

Applications
// Positive, medium and low temperature refrigeration applications  
// Supermarket

Suction flow 40 .. 4300 m³/h  
Oil cooling capacity 10 .. 60 kW

84 .. 1015 m³/h at 50 Hz
BITZER's range of shell and tube evaporators includes four different series of dry-expansion heat exchangers, each optimised for a specific application. A selection of materials and a wide approval choice are available. BITZER FEV HP flooded evaporators are the most efficient ones in the industry.

BITZER offers five series of water cooled condensers which are highly efficient and operate in standard capacities of up to 1680 kW. They can be combined with HFC, HFO, HFC/HFO blends, hydrocarbons and NH₃. Low-fouling tubes and aggression-resistant components offer outstanding reliability.

110 models offer the complete range of solutions for liquid refrigerant storage. There are several versions available, featuring both vertical and horizontal configurations. A comprehensive series of accessories, as well as CE, EAC, SELO, BV, GL, RS and LR approvals, are all available.

Applications
// Positive, medium and low temperature refrigeration applications
// Supermarket

Applications
// Refrigeration applications using normal or technical water as coolant
// Seawater version

Applications
// Dry-expansion solutions for low, medium and positive temperature applications
// Flooded evaporators

Receiver volume 3 .. 550 dm³
Condensing capacity 8 .. 1680 kW
Cooling capacity 50 .. 2000 kW
OS.(A) SERIES
OPEN DRIVE SCREW COMPRESSORS

The OS series separates the flanged motor and refrigerant circuit. Thanks to the OSK/N version, these compressors are suitable for many application ranges and refrigerants, with a separate series for operation with ammonia. The internal capacity control is multistep and, from OS.85, stepless as an optional feature. All OS compressors are suitable for speed-controlled operation. From OS.95 with IQ MODULE.

Applications
// Medium and low temperature storage
// Blast chiller
// Blast freezer
// Ice production
// Ice rinks

84 .. 1015 m³/h at 2900 min⁻¹

ACP SERIES
AMMONIA COMPRESSOR PACKS

The compact ACP packs with screw compressors for industrial refrigeration are easy to use and offer high operating reliability. They boast high efficiency particularly in the part-load range, which can be further increased with a frequency inverter. The modular construction and a shared-parts strategy keep maintenance and service costs low.

Applications
// Industrial application
// High, medium and low temperature application
// Booster
// Food industry
// Ice rinks

630 m³/h .. 3450 m³/h
(full-load at 50 Hz for the smallest model
70/50/50 Hz for the largest model)

RECIPROCATING COMPRESSORS
OPEN DRIVE DESIGN

Open drive reciprocating compressors are available in two model series: for (H)CFC/HFC refrigerants and ammonia. Due to the open drive design, standard motors can be attached to the compressor via coupling housing or belt drive. Reliability and easy maintenance have made them popular options for years.

Applications
// Medium temperature application
// Low temperature application

0.96 .. 151 m³/h at 1450 min⁻¹
Primary, secondary and combined separator models are used in NH₃, HFC and HFO applications. To reach the most appropriate separation efficiency, centrifugal, gravity and filtration stages can be combined. Water cooled and air cooled oil coolers ensure additional cooling.

### Applications
- **Positive, medium and low temperature industrial refrigeration applications**
- **Positive, medium and low temperature industrial refrigeration applications**
- **Positive, medium and low temperature industrial refrigeration applications**

---

**WATER COOLED CONDENSERS**

BITZER offers series of water cooled condensers which are highly efficient and operate in standard capacities of up to 1680 kW. They can be combined with hydrocarbons and NH₃. Low-fouling tubes and aggression-resistant components offer outstanding reliability.

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**LIQUID RECEIVERS**

110 models offer the complete range of solutions for liquid refrigerant storage. There are several versions available, featuring both vertical and horizontal configurations. A comprehensive series of accessories, as well as CE, EAC, SELO, BV, GL, KS and LR approvals, are all available.

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**OIL SEPARATORS AND OIL COOLERS**

Applications

- Refrigeration applications using normal or technical water as coolant
- Seawater version

---

**Applications**

- Positive, medium and low temperature industrial refrigeration applications

---

**Applications**

- Positive, medium and low temperature industrial refrigeration applications

---

**Applications**

Condensing capacity 8 .. 1680 kW

Receiver volume 3 .. 550 dm³

Suction flow 40 .. 4300 m³/h

Oil cooling capacity 10 .. 60 kW
In air conditioning and process cooling, BITZER products ensure reliable, efficient processes and allow people to breathe deeply. Heat pumps with BITZER compressors offer outstanding efficiency for commercial applications such as hotels, hospitals and swimming pools. High efficiency compressors and seawater resistant BITZER shell and tube condensers also ensure a consistent, optimal climate on the high seas – for the crew and passengers in marine and offshore applications and for the transportation of perishable goods in consistent freshness and quality.
ORBIT 6 // ORBIT 8
HERMETIC SCROLL
COMPRESSORS

The compressors of the ORBIT series offer high efficiency in full and part-load. They’re suitable for use with A1 and low-GWP refrigerants of the A2L category (R454B, R452B, R32) and enable operation at a fixed speed or with frequency inverter. Thanks to the BITZER Advanced Header Technology (BAHT), they can be connected in parallel configuration as Tandem and Trio assemblies.

Applications
// Chiller
// Rooftops

19.8 .. 77.2 m³/h at 50 Hz
(single compressors)

ORBIT BOREAL
HERMETIC SCROLL
COMPRESSORS

ORBIT BOREAL scroll compressors are specially developed for highly efficient applications at low condensing temperatures, as is the case with water cooled chillers and low ambient temperatures. They can be operated at a fixed speed or with frequency inverter.

Applications
// Chiller
// Rooftops

38.6 .. 77.2 m³/h at 50 Hz
Thanks to economiser operation, the new scroll compressors of the ORBIT FIT (Flexible Injection Technology) series achieve new capacity and efficiency levels. The series can be operated at a fixed speed or with frequency inverter and, thanks to the BITZER Advanced Header Technology (BAHT), also accommodates parallel connection in tandems and trios.

Applications
// Chiller
// Rooftops

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The cutting-edge line-start permanent-magnet motor (LSPM) makes the new ORBIT+ models the most efficient scroll compressors in their class. The series can be operated at a fixed speed or with frequency inverter and, thanks to the BITZER Advanced Header Technology (BAHT), they can be connected in parallel configuration as Tandem or Trio assemblies.

Applications
// Chiller
// Rooftops

The innovative ESH7 scroll compressors boast exceptional cooling capacity and high energy efficiency in air conditioning. The hermetic compressors can be operated individually or as tandems and use the refrigerants R134a, R407C, R404A and R22.

Applications
// Chiller
// Rooftops
CS // CSV SERIES
SEMI-HERMETIC COMPACT SCREW COMPRESSORS

The CS series is suitable for a large application range and optimised for maximum efficiency in liquid chillers and heat pumps. The finely graduated product portfolio and the mechanical capacity control enable simple system integration. From CS.105 with IQ MODULE. The CSV series features an internal frequency inverter.

WATER COOLED CONDENSERS AND OIL COOLERS

Five condenser series guarantee maximum performance and flexibility. They can be used in HFC and HFO systems. Notably low approach performances can be reached with standard capacities of up to 1680 kW. A complete range of water cooled and air cooled oil coolers ensures additional cooling.

Anwendungen
// Air conditioning liquid chillers
// Process liquid chillers for medium, low and high temperature applications
// Combined heating and cooling systems
// Heat pumps for space heating
// Process heat pumps

Applications
// Air conditioning applications using normal or technical water as coolant
// Seawater version

110 .. 2000 m³/h at 50 Hz

Condensing capacity 8 .. 1680 kW
Oil cooling capacity 10 .. 60 kW
AIR CONDITIONING

THE RANGE OF SHELL AND TUBE EVAPORATORS

The range of shell and tube evaporators includes four series of dry-expansion heat exchangers, each optimised for a specific application with HFC, HFO or HFC/HFO blends. BITZER FEV HP flooded evaporators offer the highest efficiency in the industry, meeting all efficiency regulations.

OIL SEPARATORS AND LIQUID RECEIVERS

Oil separators in vertical and horizontal configuration are approved for operation with HFC, HFO and NH₃. Due to centrifugal, gravity and filtration separation options, the highest degree of efficiency is guaranteed. The liquid receiver range includes models for HFC, HFO, subcritical CO₂ and NH₃.

Applications
// Dry-expansion chillers
// Flooded chillers

Applications
// Dry-expansion chillers
// Flooded chillers

Suction flow 40 .. 4300 m³/h
Receiver volume 3 .. 550 dm³

Cooling capacity 50 .. 2000 kW
OS.(A) SERIES
OPEN DRIVE SCREW COMPRESSORS

The OS series separates the flanged motor and refrigerant circuit. Thanks to the OSK/N version, these compressors are suitable for many application ranges and refrigerants, with a separate series for operation with ammonia. The internal capacity control is multistep and, from OS.85, stepless as an optional feature. All OS compressors are suitable for speed-controlled operation. From OS.95 with IQ MODULE.

Applications
// Air conditioning
// Liquid chillers with chilled water
// Liquid chillers with liquid coolant
// Process liquid chillers
// Combined cooling and heating systems

84 .. 1015 m³/h at 2900 min⁻¹

HS SERIES
SEMI-HERMETIC SCREW COMPRESSORS

Efficient, robust, durable: thanks to the HSK/N version, HS semi-hermetic screw compressors are suitable for many application ranges and refrigerants. The internal capacity control is multistep and, from HS.85, stepless as an optional feature. All HS compressors are suitable for speed-controlled operation. From HS.95 with IQ MODULE.

Applications
// Air conditioning
// Liquid chillers with chilled water
// Liquid chillers with liquid coolant
// Process liquid chillers
// Combined cooling and heating systems

84 .. 1015 m³/h at 50 Hz
The compressors of the ORBIT series offer high efficiency in full and part-load. They’re suitable for use with A1 and low-GWP refrigerants of the A2L category (R454B, R452B, R32) and enable operation at a fixed speed or with frequency inverter. Thanks to the BITZER Advanced Header Technology (BAHT), they can be connected in parallel configuration as Tandem and Trio assemblies.

Applications
// Process cooling
**ORBIT BOREAL**
**HERMETIC SCROLL COMPRESSIONS**

ORBIT BOREAL scroll compressors are specially developed for highly efficient applications at low condensing temperatures, as is the case with water cooled chillers and low ambient temperatures. They can be operated at a fixed speed or with frequency inverter.

**Applications**
// Process cooling

38.6 .. 77.2 m³/h at 50 Hz

---

**ORBIT+**
**HERMETIC SCROLL COMPRESSIONS**

The cutting-edge line-start permanent-magnet motor (LSPM) makes the new ORBIT+ models the most efficient scroll compressors in their class. The series can be operated at a fixed speed or with frequency inverter and, thanks to the BITZER Advanced Header Technology (BAHT), they can be connected in parallel configuration as Tandem or Trio assemblies.

**Applications**
// Process cooling

20.5 .. 79.9 m³/h at 50 Hz
**ORBIT FIT**

**HERMETIC SCROLL COMPRESSORS**

Thanks to economiser operation, the new scroll compressors of the ORBIT FIT (Flexible Injection Technology) series achieve new capacity and efficiency levels. The series can be operated at a fixed speed or with frequency inverter and, thanks to the BITZER Advanced Header Technology (BAHT), also accommodates parallel connection in tandems and trios.

**Applications**
// Process cooling

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**APPLICATIONS**

19.8 .. 77.2 m³/h at 50 Hz

---

**WATER COOLED CONDENSERS AND OIL COOLERS**

Five condenser series guarantee maximum performance and flexibility. They can be used in HFC and HFO systems. Notably low approach performances can be reached with standard capacities of up to 1680 kW. A complete range of water cooled and air cooled oil coolers ensures additional cooling.

**Applications**
// Process cooling applications using normal or technical water as coolant
// Seawater version

---

Condensing capacity 8 .. 1680 kW
Oil cooling capacity 10 .. 60 kW
Oil separators in vertical and horizontal configuration are approved for operation with HFC, HFO and NH₃. Due to centrifugal, gravity and filtration separation options, the highest degree of efficiency is guaranteed. The liquid receiver range includes models for HFC, HFO, subcritical CO₂ and NH₃.

**Applications**
- Precision cooling chillers
- Process cooling systems in positive and medium temperature

**Suction flow**: 40 .. 4300 m³/h
**Receiver volume**: 3 .. 550 dm³

The range of shell and tube evaporators includes four series of dry-expansion heat exchangers, each optimised for a specific application with HFC, HFO or HFC/HFO blends. BITZER FEV HP flooded evaporators offer the highest efficiency in the industry, meeting all efficiency regulations.

**Applications**
- Precision cooling chillers
- Process cooling systems in positive and medium temperature

**Cooling capacity**: 50 .. 2000 kW
The compressors of the ORBIT series offer high efficiency in full and part-load. They’re suitable for use with A1 and low-GWP refrigerants of the A2L category (R454B, R452B, R32) and enable operation at a fixed speed or with frequency inverter. Thanks to the BITZER Advanced Header Technology (BAHT), they can be connected in parallel configuration as Tandem and Trio assemblies.

**Applications**
- Heat pumps/reversible heat pumps
- Four pipe units

**ORBIT+ HERMETIC SCROLL COMPRESSORS**

The cutting-edge line-start permanent-magnet motor (LSPM) makes the new ORBIT+ models the most efficient scroll compressors in their class. The series can be operated at a fixed speed or with frequency inverter and, thanks to the BITZER Advanced Header Technology (BAHT), they can be connected in parallel configuration as Tandem or Trio assemblies.

**Applications**
- Heat pumps/reversible heat pumps
- Four pipe units

19.8 .. 77.2 m³/h at 50 Hz (single compressors)

20.5 .. 79.9 m³/h at 50 Hz
ORBIT FIT
HERMETIC SCROLL
COMPRESSORS

The economiser operation of the ORBIT FIT (Flexible Injection Technology) series significantly increases efficiency and capacity particularly in heat pump applications. The scroll compressors can be operated at a fixed speed or with frequency inverter and, thanks to the BITZER Advanced Header Technology (BAHT), they can be connected in parallel configuration as Tandem and Trio assemblies.

Applications
// Heat pumps/reversible heat pumps
// Four pipe units

19.8 .. 77.2 m³/h at 50 Hz

HS SERIES
SEMI-HERMETIC SCREW
COMPRESSORS

Efficient, robust, durable: thanks to the HSK/N version, HS semi-hermetic screw compressors are suitable for many application ranges and refrigerants. The internal capacity control is multistep and, from HS.85, stepless as an optional feature. All HS compressors are suitable for speed-controlled operation. From HS.95 with IQ MODULE.

Applications
// Process heat pumps
// High-temperature heat pumps
// Combined cooling and heating systems

84 .. 1015 m³/h at 50 Hz
The CS series is suitable for a large application range and optimised for maximum efficiency in liquid chillers and heat pumps. The finely graduated product portfolio and the mechanical capacity control enable simple system integration. From CS.105 with IQ MODULE. The CSV series features an internal frequency inverter.

**Applications**
- Heat pumps for space heating
- Process heat pumps
- Combined heating and cooling systems

ECOLINE reciprocating compressors are versatile and universal in heat pump applications. Two options – VARISTEP mechanical capacity control and VARIPACK frequency inverter – ensure high part-load efficiency. The compressors are optimised for R134a, HFO and low-GWP refrigerants, and HFO blends.

**Applications**
- Heat pump
- High-temperature heat pump

---

110 .. 2000 m³/h at 50 Hz

4.1 .. 221 m³/h at 50 Hz
VARIPACK
FREQUENCY INVERTERS
EXTERNAL FOR SEMI-HERMETIC
RECIROCATING COMPRESSORS

VARIPACK frequency inverters are specially developed for operation with BITZER compressors. Energy can be saved by flexibly adapting a system’s cooling demand and the optimal match of compressor and frequency inverter. The frequency inverter speaks the language of cooling.

Applications

// Heat pump

2.5 .. 309 m³/h at var. speed
0.78 .. 65.7 m³/h at var. speed (CO₂)

ECOLINE
RECIROCATING COMPRESSORS
SEMI-HERMETIC DESIGN FOR
CO₂ APPLICATIONS

The ECOLINE compressors for transcritical CO₂ applications are efficient, environmentally friendly and reliable. The series is designed for a large application range, conventional applications and water heating up to 90°C. The optional IQ module offers maximum reliability.

Applications

// Heat pump

3.3 .. 38.1 m³/h at 50 Hz
LIQUID RECEIVERS AND OIL SEPARATORS

The liquid receiver range includes models for HFC, HFO, subcritical CO₂, and NH₃. Vertical and horizontal receivers can be easily integrated. For large heat pump systems, oil separators in vertical and horizontal configuration are approved for operation with HFC, HFO and NH₃.

Applications
// All refrigerant versions available

Receiver volume 3 .. 550 dm³
Suction flow 40 .. 4300 m³/h

WATER COOLED CONDENSERS AND OIL COOLERS

BITZER shell and tube condensers operate both warm and hot temperature water heat pump systems as well as HFC and HFO systems. The special low fouling design prevents the formation of deposits. Water cooled and air cooled oil coolers ensure additional cooling.

Applications
// Heating applications using normal or technical water as coolant
// Seawater version

Condensing capacity 8 .. 1680 kW
Oil cooling capacity 10 .. 60 kW
Efficient, robust, durable: thanks to the HSK/N version, HS semi-hermetic screw compressors are suitable for many application ranges and refrigerants. The internal capacity control is multistep and, from HS.85, stepless as an optional feature. All HS compressors are suitable for speed-controlled operation. From HS.95 with IQ MODULE.

Applications
// Medium and low temperature storage
// Blast chiller
// Blast freezer
// Ice production
// Heat recovery

The OS series separates the flanged motor and refrigerant circuit. Thanks to the OSK/N version, these compressors are suitable for many application ranges and refrigerants, with a separate series for operation with ammonia. The internal capacity control is multistep and, from OS.85, stepless as an optional feature. All OS compressors are suitable for speed-controlled operation. From OS.95 with IQ MODULE.

Applications
// Medium and low temperature storage
// Blast chiller
// Blast freezer
// Ice production
// Heat recovery

The CS series is suitable for a large application range and optimised for maximum efficiency in liquid chillers and heat pumps. The finely graduated product portfolio and the mechanical capacity control enable simple system integration. From CS.105 with IQ MODULE. The CSV series features an internal frequency inverter.

Applications
// Air conditioning liquid chillers
// Process liquid chillers for medium, low and high temperature applications
// Combined heating and cooling systems
// Heat pumps for space heating
// Process heat pumps

84 .. 1015 m³/h at 2900 min⁻¹
84 .. 1015 m³/h at 50 Hz
110 .. 2000 m³/h at 50 Hz
Universal and environmentally friendly: ECOLINE reciprocating compressors offer high cooling capacity with minimal energy requirements and are optimised for HFC, HFO and low-GWP refrigerants. The optional VARISTEP mechanical capacity control offers high part-load efficiency in medium and low temperature application.

Star Cool container cooling is the result of an intensive collaboration between Maersk Container Industry and BITZER. The heart of the system is an especially compact, lightweight and low-vibration 2-stage aluminium compressor, equipped with an internal frequency inverter for outstanding efficiency and operational reliability.

Applications
// Marine

Applications
// Medium temperature application
// Low temperature application

4.1 .. 221 m³/h at 50 Hz
9.5 .. 41.8 m³/h at variable speed
BITZER’s range of shell and tube evaporators includes four different series of dry-expansion heat exchangers, each optimised for a specific application. A selection of materials and a wide approval choice are available. BITZER FEV HP flooded evaporators are the most efficient ones in the industry.

**Applications**
- // Dry-expansion solutions for low, medium and positive temperature applications
- // Flooded evaporators

**Condensing capacity** 8 .. 1680 kW
**Oil cooling capacity** 10 .. 60 kW

**Receiver volume** 3 .. 550 dm³
**Suction flow** 40 .. 4300 m³/h

**Cooling capacity** 50 .. 2000 kW
GET THERE FRESH. **NO MATTER HOW LONG THE JOURNEY.**

Whether it’s on the go or at work, people have come to expect comfortable temperatures. In buses and trains, versatile BITZER compressors ensure that travellers reach their destination in comfort and feeling relaxed. In the cabs of commercial vehicles and lorries, they also help enhance the driver’s concentration and level of productivity while working. With its reliable products, BITZER creates a consistent climate when transporting goods as well as comfortable temperatures for passengers.
The exceptionally reliable BITZER compressors of the ROADSTAR series are specially optimised for use in bus air conditioning. The optional capacity control also promotes high energy efficiency. The BITZER ROADSTAR series is available in a 2, 4 or 6-cylinder design.

The H series is a further development of the ECOLINE compressor series. The drive gear has been adapted to ensure reliability even in demanding operating conditions and thus fulfils the requirements of mobile applications.

The SPEEDLITE scroll compressors are specially developed for mobile use, and are extremely lightweight and compact. Thanks to the high speed range, the SPEEDLITE compressors can be adapted to all operating conditions and thus achieve optimal full and part-load efficiency values.

### Applications

**Roadstar**
- Air conditioning

**Ecoline H Series**
- Air conditioning/heat pumps

**Speedlite ELV21 // ELV51**
- Air conditioning

### Technical Specifications

**Roadstar**
- 20.7 .. 84.4 m³/h at 1450 min⁻¹

**Ecoline H Series**
- 11.4 .. 56.3 m³/h at 50 Hz

**Speedlite ELV21 // ELV51**
- ELV21: 2.7 .. 8.6 m³/h (2500-8000 rpm)
- ELV51: 11.9 .. 43 m³/h (2500-9000 rpm)
ELH // ELA SERIES
HORIZONTAL HERMETIC
SCROLL COMPRESSORS

Thanks to their space-saving and horizontal design, ELH and ELA scroll compressors are suitable for compact air conditioning systems in particular and offer high displacements. They boast low noise and vibration levels as well as high efficiency and smooth running. The compressors are optimised for R134a and can easily be adjusted for low-GWP refrigerants.

Applications
// Air conditioning

ECOLINE H SERIES
SEMI-HERMETIC
RECIPROCATING COMPRESSORS

The H series is a further development of the ECOLINE compressor series. The drive gear has been adapted to ensure reliability even in demanding operating conditions and thus fulfils the requirements of mobile applications.

Applications
// Air conditioning/heat pumps

25 .. 43 m³/h at 50 Hz

11.4 .. 56.3 m³/h at 50 Hz
Based on decades of experience, these series are designed for the specific needs of railway air conditioning systems. Thanks to generously sized roller bearings, the compressors are exceptionally reliable with a long service life. Their large frequency range provides optimal full and part-load efficiency.

**Applications**

// Air conditioning

**SPEEDLITE ELV21 // ELV51**

SEMI-HERMETIC ALUMINIUM SCROLL COMPRESSORS

The SPEEDLITE scroll compressor are specially developed for mobile use, and are extremely lightweight and compact. Thanks to the high speed range, the SPEEDLITE compressors can be adapted to all operating conditions and thus achieve optimal full and part-load efficiency values.

**Applications**

// Air conditioning

**ELV21**: 2.7 .. 8.6 m³/h (2500-8000 rpm)

**ELV51**: 11.9 .. 43 m³/h (2500-9000 rpm)

**VSK SERIES**

HERMETIC SCREW COMPRESSORS

46 .. 80 m³/h at 50 Hz
The exceptionally reliable BITZER compressors of the ROADSTAR series are specially optimised for use in bus air conditioning. The optional capacity control also promotes high energy efficiency. The BITZER ROADSTAR series is available in a 2, 4 or 6-cylinder design.

Applications
// Medium temperature application
// Low temperature application

20.7 .. 84.4 m³/h at 1450 min⁻¹

The H series is a further development of the ECOLINE compressor series. The drive gear has been adapted to ensure reliability even in demanding operating conditions and thus fulfils the requirements of mobile applications.

Applications
// Medium to low temperature applications
// Air conditioning/heat pumps

11.4 .. 56.3 m³/h at 50 Hz
SPEEDLITE ELV21
SEMI-HERMETIC ALUMINIUM
SCROLL COMPRESSORS

The SPEEDLITE scroll compressor are specially developed for mobile use, and are extremely lightweight and compact. Thanks to the high speed range, the SPEEDLITE compressors can be adapted to all operating conditions and thus achieve optimal full and part-load efficiency values.

Applications
// Air conditioning

2.7 .. 8.6 m³/h (2500-8000 rpm)
ONGOING SERVICES. OUTSTANDING PERFORMANCE.

Did you know? BITZER SERVICES have been developed by real experts – by the manufacturers themselves. In addition to minimising system downtime, our ongoing services help to reduce overall operating costs, and thus the total cost of ownership. Software products like BITZER SOFTWARE and BEST SOFTWARE support, optimise and document your processes. Benefit additionally from our broad range of training courses on the handling of components and products for cooling and refrigeration. Our service portfolio has clear objectives: flexibility, affordability and an extensive service network for our customers.
ON-SITE SERVICES

FOR UP TO FIVE YEARS:
WARRANTY EXTENSION

Available for practically the entire product range, the BITZER warranty extension pack simply and affordably extends warranty coverage. For a fraction of the product’s price, customers can extend their warranty by up to five years and individually adapt the duration. Online registration initiates the extension, giving your customers peace of mind for years to come.

// Flexible duration of up to five years
// Self-explanatory online registration

FREE ONE-YEAR WARRANTY EXTENSION:
FOR ALL INTELLIGENT PRODUCTS

INTELLIGENT PRODUCTS (IQ) ensure efficient compressor operation as well as availability within the operating range. This new concept is rounded out by our complimentary one-year warranty extension. All BITZER IQ PRODUCTS benefit from free storage of commissioning reports and data logs provided by IQ MODULE and BEST SOFTWARE (BITZER Electronics Service Tool).

// One-year extension at no cost
// Free storage of reports and data logs
// Efficient operation and reliable availability

FOR EXCELLENT RESULTS:
COMMISSIONING ASSISTANCE

The BITZER commissioning assistance service ensures you get the most out of your investment. BITZER contractors and field technicians benefit from a range of services in the start-up phase. The commissioning assistance service is available for all condensing units such as LHE, ECOLITE and ECOSTAR, as well as for systems built by BITZER.

// System optimisation
// On-site basic training for technicians
// Monitoring and maintenance tips
// Commissioning report with certification data
// Commissioning assistance for contractors and field technicians
// Available for all condensing units

COMPRESSOR AND CONDENSING UNIT:
ASSESSMENT SERVICES

BITZER experts monitor and review all operating parameters both after initial start-up and on a regular basis to extend service life and minimise downtime. Our certified engineers monitor the operation results, which are assessed in a detailed report including recommendations on troubleshooting, fine-tuning, maintenance and system optimisation.

// Increased service life
// Expert monitoring and assessment of operating parameters
// Detailed report
// Minimised downtime
// Recommendations on troubleshooting, maintenance and system optimisation

FOR SECURE INVESTMENTS:
RETROFITTING SOLUTIONS

Due to international regulations and market availability, systems based on high-GWP (global warming potential) refrigerants need to be adapted. BITZER provides comprehensive support regarding efficiency and compliance. Our future-proof solutions safeguard investments, including system component compatibility and replacement, capacity control solutions, and more.

// Future-proof solutions and investment protection
// Analysis of the customer’s specific landscape
// Solutions for various low-GWP refrigerants
// The extensive expertise of a market leader

REFRIGERANT COMPLIANCE AND STRATEGY CONSULTING

Low-GWP refrigerants are the key to the future of refrigeration and air conditioning. ‘Can I still use my existing equipment?’ ‘How and when do I have to replace my HVAC or refrigeration systems?’ ‘Which is the right investment for the future?’ If you can answer these questions, your investments are safe – our experts provide analyses and support.

// Investment and asset security requires planning
// Expert analysis of existing systems
// Customised solution in terms of costs, efficiency, safety and durability
// Final report for an informed decision
// Low-GWP and natural refrigerants are gaining ground

Scan for additional information
ON-SITE SERVICES

SPARE PARTS AND OIL

Our spare parts specialists ensure prompt availability of BITZER ORIGINAL SPARE PARTS. Selected service partners are available worldwide to help you select suitable spare parts and refrigeration oil. BITZER provides a broad range of measures and tools to make selection of spare parts easy and to protect them from product piracy.

// Worldwide registration of industrial property rights: patents, utility models, registered designs, brands and copyrights
// QR code on spare parts packages and an online BITZER Product Authenticator for easy authenticity check of each BITZER spare part
// With free BITZER ePARTS SOFTWARE, selection of the right component has never been so easy
// The free BITZER SPOT APP facilitates the simple, mobile authenticity check of each BITZER product

GREEN POINT is the BITZER service organisation with over 50 locations and offers a complete service cycle including the repair and inspection of compressors, extensive site services as well as original BITZER refrigerant compressor oils and parts.

// Start-up service
// Audit service
// Logistic service
// Repair service
// Replacement service

More than 70 Authorised Service Centres (ASC) around the globe ensure that BITZER is always within reach. Be it personal contacts or offering training, repair or commissioning solutions: BITZER SERVICES, like BITZER products, meet highest standards, ensuring availability and reducing operational costs of your process. The worldwide BITZER service centres offer:

// Repair of BITZER reciprocating and screw compressors
// Availability of original spare parts and refrigerant compressor oil
// ASC partners with up-to-date know-how of the latest service requirements and processes
// Extensive knowledge of local markets and applications
At BITZER, everything revolves around the customer. With myBITZER, customers have direct, personalised access to the complete range of BITZER software tools and services. To further optimise the customer experience, we have created a new user surface. Discover and enjoy the whole BITZER world which is continually being extended for your benefit.

Via PC and APP, you can operate all BITZER IQ PRODUCTS with only one software tool. The intuitive BEST SOFTWARE (BITZER Electronics Service Tool) user interface enables easy and secure BITZER IQ configuration as well as a rapid set-up. Get an instant, comprehensive operating status. The BEST log file records all application parameters, providing help with fine-tuning and troubleshooting.

BITZER SOFTWARE will help you select the appropriate BITZER product from our extensive, flexible product range. The tool supports the selection process when looking for compressors, condensing units, heat exchangers, VARIPACK, IQ MODULE and the relevant software solutions.

Available online and as a downloadable version, BITZER SOFTWARE will help you select the appropriate BITZER product from our extensive, flexible product range. The tool supports the selection process when looking for compressors, condensing units, heat exchangers, VARIPACK, IQ MODULE and the relevant software solutions.

// Find the right product that meets your individual requirements
// Select appropriate IQ PRODUCTS and capacity regulation solutions
// Select suitable products like receiver, oil separator and condenser
// Access documentation and application limits

ePARTS, the free online spare parts software by BITZER, provides a fast and simple solution for finding the right spare parts for our products.

BITZER in a nutshell: with the free-of-charge BITZER SPOT APP, customers can control the authenticity of each BITZER product anytime and anywhere by scanning the QR code. The APP protects against product counterfeiting and provides offline information including a directory of BITZER, GREEN POINT offices and certified dealers.

// Authenticity check of BITZER products
// Complete documentation
// Easy to locate: BITZER, GREEN POINT and distributor locations always close to you

The SCHAUFLER Academy, our international training centre provides seminars and trainings for the realisation of sustainable and efficient solutions in refrigeration and air conditioning. Everyone benefits – from service technicians and installers up to project/technical engineers and planners. Courses are offered in German and English on CO₂, Ammonia, Hydrocarbons, Electronic components and retrofitting systems. You can book customised trainings as well. Further information on new additions to our course programme, our worldwide trainings or courses nearest to you on the BITZER website.

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