

# Refreshment Experts

FS Series

Combi-  
nation  
vending machine





FS  
2020  
EC



# Your advantages at a glance

---

## Leave refreshment to the experts

The FS 1500 and FS 2020 are your customers' first choice for beverages, sweets, snacks, etc. Awaken your customers' appetite to a wide range of enticing product lines. Ideal for highly frequented sites, where only vending machines can satisfy the wide variety of demand for refreshments.

Beverages, sweets, snacks and non-food items: The combination of chutes and spirals ensures the optimum configuration specific to every location. Products are dispensed according to FIFO – first in first out principle.

Benefit from the diversity of options and versions offered by the FS series: The FS 1500 requiring minimum space or the FS 2020 offering maximum capacity. All vending machines in this series are available as EC and High Security version and the FS 2020 also as an Outdoor version. The easy-to-service FS-vendors from Sielaff are the optimum solution for dispensing a wide variety of refreshments whatever the location. Choose the model which best suits your requirements.

## Wide choice to meet all requirements

The FS series offers a wide selection of refreshments from a single machine wherever the site - from beverages, sweets and snacks to non-food items.

## Capacity has never been so flexible

The FS series' formula for success is: 2 in 1. These vending machines are designed for flexibility, offering maximum capacity with up to 4 drink chutes and 3 spirals per shelf in the FS 1500, or up to 6 chutes and 4 spirals per shelf in the FS 2020.

## Ideal temperature for every section

With 2 different temperature zones, the interior is always perfectly cooled to ensure the products are delivered at optimum temperature. Our low maintenance cooling system with electronically controlled, high performance slide-in cooling unit guarantees the right temperature.

## The name Sielaff stands for optimum service

"Easy-to-service" applies to all of our vending machines: All components are highest quality, endurance tested and easily accessible.

## Think ecologically – act economically

Ecologically thought out and economical to run, the machines achieve A+ or A++ energy classification. This is due to our insulated, laminated safety glass, energy-saving LED illumination, freely-programmable energy saving mode for when the machine is not in use.

## Quality „Made in Germany“

Customers around the world trust this assurance. Sielaff stands for meticulous production, first class materials and high quality workmanship. Our vending machines are extremely easy to service, absolutely reliable and guarantee maximum service life.



# Talent & Technology

## General Facts

- Sale of confectionery, snacks, beverages and non-food items
- Coin slot and controls are positioned for the ease and comfort of disabled users
- Suitable for combination with other units
- Modular construction and therefore particularly service-friendly and recyclable

## Energy Efficiency

- Energy efficiency classification A++ (FS 2020) and A+ (FS 1500)
- LED-illuminated internal cabinet
- Insulated composite glass

## Cooling

- Low maintenance cooling system with flexible, electronically controlled, high performance slide-in cooling unit
  - with CO<sub>2</sub> as optional refrigerant
- Dual refrigeration temperatures i.e. 6 – 8 °C temperature range in drink area and 12-15 °C in the snack section

## Chutes

- Available with up to 4 chutes (FS 1500) or 6 chutes (FS 2020)
- Simple to replace or adjust on site
- Some products can also be stored double or triple depth depending on length
- DC technology
- Motor direction can be reversed if required
- Various widths for cans and bottles from 0.2 to 2.0 l

## Narrow chute:

- For products up to 0.5 l
- Chute width 85 to 95 mm depending on product diameter

## Standard chute (FS 2020 only):

- For products up to 2.0 l
- Chute width depending on product diameter

## Goods Compartments

- Height adjustable, powder coated stainless steel product containers
- Containers can be adapted on site to specific products
- Tilting product containers for ease of filling top shelves
- Product containers with cable-free, self-referencing plug-in connection
- Optional: Reinforced design for Products weighing over 15 Kg per shelf

## Spirals

- High shiny stainless steel spirals
- Standardized spirals in all Sielaff FS and SÜ vending machines
- Spirals available in various sizes
- Numerous adjustment features available, e.g. vertical and horizontal spiral dividers
- First-in-First-out principle

## Multiflex pusher (optional)

- For easy vending of large and bulky items
- Available in any desired width (1 to 5 across)

## Payment Systems

- Easy integration of payment systems

## Delivery and Installation

- Transported by forklift, no pallet
- Simple to install and commission

## Technology

- Automatic recognition of motors and simultaneous assignment of selection numbers
- Central mains switch
- Sales/service data recorded in accordance with EVA-DTS standards (e.g. infrared interface or MDB connection)
- Full length cover with special seal and optional lock for safeguarding components fitted i.e. cashbox
- Options
  - Side kick plates
  - Light bar
  - Reinforced cassette cooling for climatic class N (32 °C/65 % humidity); climatic class T (43 °C/75 % humidity)
  - Rear wall suitable for advertising



## Overview of the available units

|         | EC | HiSec | EO |
|---------|----|-------|----|
| FS 1500 | X  | X     | –  |
| FS 2020 | X  | X     | X  |

### FS 1500/2020 High Security

- Coin insert slide and change return drum
- Optional: Hinge protection, hinged impact protection

### FS 2020 EO

- Rain roof and water spray protection
- Coin insert slide and change return drum
- Hinge protection
- Locking lever protection with KESO lock
- High security frame with 2 additional locks
- Circuit breaker
- Reinforced chiller, heater
- Rear wall (additional advertising opportunity)
- Stainless steel kick plates
- LGA approved, IP 24



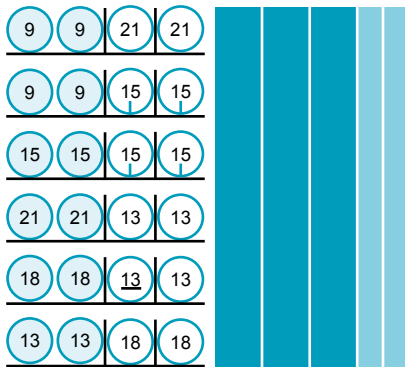
FS 2020 HiSec



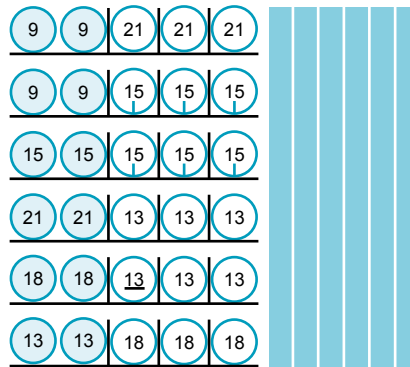
FS 2020 EO

# Configuration examples

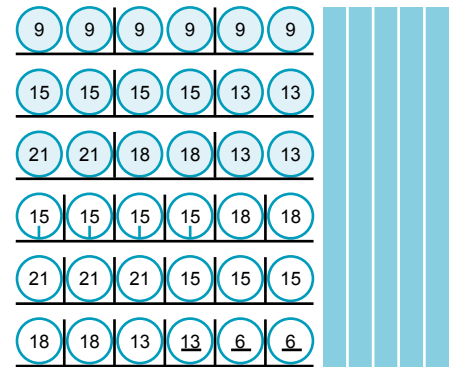
## FS 2020



6 types of bagged products,  
12 types of bar products,  
2 standard chutes, 2 narrow chutes\*  
FS 2020 6/24 + 5

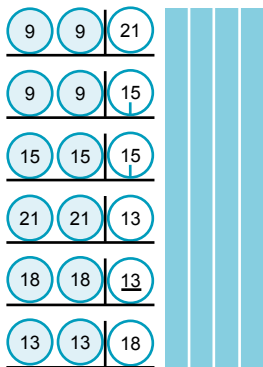


6 types of bagged products,  
18 types of bar products,  
6 narrow chutes\*  
FS 2020 6/30 + 6

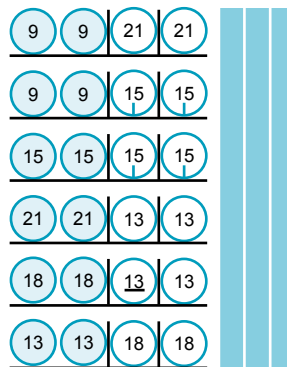


9 types of bagged products,  
18 types of bar products,  
5 narrow chutes\*  
FS 2020 6/36 + 5

## FS 1500



6 types of bagged products,  
6 types of bar products,  
4 narrow chutes\*  
FS 1500 6/18 + 4



6 types of bagged products,  
12 types of bar products,  
3 narrow chutes\*  
FS 1500 6/24 + 3

Examples provided are intended for recommendation only. If the layout you require is not shown, please contact us. We specialise in bespoke solutions to suit every location.

\* with 85 mm narrow chutes





**EC-Design  
 Dimensions**

■ 1,830 x 700 x 880 mm  
 (height x width x depth)

**Weight**

■ 279 kg  
 (without products, depending on the layout)

**Power consumption**

■ 400 W  
 (varies depending on the refrigeration)

**HiSec-Design  
 Dimensions**

■ 1,830 x 700 x 880 mm  
 (height x width x depth)

**Weight**

■ 279 kg  
 (without products, depending on the layout)

**Power consumption**

■ 400 W  
 (varies depending on the refrigeration)

**Electrical data**

■ 230 V/50 Hz/10 A





#### EC-Design

##### Dimensions

■ 1,830 x 990 x 880 mm  
(height x width x depth)

##### Weight

■ 400 kg  
(without products, depending on the layout)

##### Power consumption

■ 670 W  
(varies depending on the refrigeration)

#### HiSec-Design

##### Dimensions

■ 1,830 x 990 x 880 mm  
(height x width x depth)

##### Weight

■ 400 kg  
(without products, depending on the layout)

##### Power consumption

■ 670 W  
(varies depending on the refrigeration)

#### Outdoor

##### Dimensions

■ 1,855 x 1,055 x 1,000 mm  
(height x width x depth)

##### Weight

■ 430 kg  
(without products, depending on the layout)

##### Power consumption

■ 670 W  
(varies depending on the refrigeration)

##### Power consumption

■ 230 V/50 Hz/10 A



# Capacities at a Glance

## FS 2020

5 spirals per shelf, 6 shelves,  
24 selections 508 mm

### ■ Narrow chute:

Space for up to 6 narrow chutes  
for products up to 0.5 l or 66 mm  
diameter

### ■ Standard chute:

- Space for up to 4 standard chutes  
for products up to 0.5 l or 66 mm  
diameter or
- Up to 3 narrow chutes for products  
up to 1.5 l or 83 mm diameter

6 spirals per shelf, 6 shelves,  
27 selections 435 mm

### ■ Narrow chute:

Space for up to 5 narrow chutes  
for products up to 0.5 l or 66 mm  
diameter

### ■ Narrow chute/standard chute:

- Space for up to 2 narrow chutes and  
2 standard chutes for products up to  
0.5 l or 66 mm diameter or
- 1 narrow chute for up to 0.5 l or 66  
mm diameter and 2 standard chutes  
for products up to 1.5 l or 83 mm  
diameter

## FS 1500

3 spirals per shelf, 6 shelves,  
12 selections 364 mm

### ■ Narrow chute:

Space for up to 4 narrow chutes  
for products up to 0.5 l or 69 mm  
diameter

4 spirals per shelf, 6 shelves,  
18 selections 291 mm

### ■ Narrow chute:

Space for up to 3 narrow chutes  
for products up to 0.5 l or 72 mm  
diameter

## Chute capacities and space requirement guide

|         |        |                        | Max.<br>diameter | Length   | Narrow chute<br>FS 2020: all; FS 1500: up to 0.5 l only |                       |                | Standard chute<br>FS 2020 only |                       |                |
|---------|--------|------------------------|------------------|----------|---|-----------------------|----------------|--------------------------------|-----------------------|----------------|
|         |        |                        |                  |          | „multi depth“<br>Container with<br>chute depth          | Capacity<br>per shelf | Chute<br>width | „multiple<br>depth“            | Capacity<br>per shelf | Chute<br>width |
| Cans    | 0.25 l | Slim                   | 53 mm            | 134 mm   | 3   | 57                    | 85 mm          | n.a.                           | n.a.                  | n.a.           |
| Cans    | 0.33 l | Sleek                  | 58 mm            | 146 mm   | 3   | 54                    | 85 mm          | 2                              | 70                    | 123 mm         |
| Cans    | 0.33 l | Standard               | 66 mm            | 116 mm   | 4   | 64                    | 85 mm          | 4                              | 112                   | 127,5 mm       |
| Cans    | 0.50 l |                        | 66 mm            | 169 mm   | 2   | 32                    | 85 mm          | 2                              | 62                    | 136 mm         |
| Bottles | 0.33 l | e.g. glass, long neck  | 61 mm            | 238 mm   | 2   | 34                    | 85 mm          | 2                              | 68                    | 127 mm         |
| Bottles | 0.50 l |                        | < 66 mm          | < 245 mm | 2   | 28                    | 85 mm          | 2                              | 56                    | 135 mm         |
| Bottles | 0.50 l | e.g. glass, non-return | 68 mm            | > 245 mm | 1   | 15                    | 90 mm          | 1                              | 30                    | 133 mm         |
| Bottles | 0.70 l | e.g. bulb-shaped       | 79 mm            | 292 mm   | 1   | 13                    | 100 mm         | 1                              | 26                    | 153 mm         |
| Bottles | 1.00 l |                        | 83 mm            | > 245 mm | 1   | 13                    | 110 mm         | 1                              | 25                    | 165 mm         |
| Bottles | 1.50 l |                        | < 90 mm          | > 245 mm | n.a.  | n.a.                  | n.a.           | 1                              | 25                    | 179 mm         |

## Spirals

| Pitch | Suitable for<br>products up to | Capacity<br>per spiral | Pitch | Suitable for<br>products up to | Capacity<br>per spiral |
|-------|--------------------------------|------------------------|-------|--------------------------------|------------------------|
| 4     | 105 mm                         | 4                      | 11    | 39 mm                          | 10 each                |
| 6     | 85 mm                          | 5                      | 13    | 34 mm                          | 12 each                |
| 7     | 72 mm                          | 6                      | 15    | 27 mm                          | 14 each                |
| 8     | 60 mm                          | 7                      | 18    | 22 mm                          | 17 each                |
| 9     | 50 mm                          | 8                      | 21    | 19 mm                          | 20 each                |



**Sielaff GmbH & Co. KG**

Automatenbau  
Münchener Str. 20  
91567 Herrieden  
Germany

Telephone: +49 (0) 9825/18-0

Fax: +49 (0) 9825/18-155

E-Mail: [info@sielaff.de](mailto:info@sielaff.de)

Internet: [www.sielaff.com](http://www.sielaff.com)