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ROTARY EVAPORATORS  
the best evaporating solutions



## STRIKE® 20

STRIKE®20 is a 20L rotary evaporator designed for industrial systems and R&D purposes.

It meets all the process needs using 3.3 borosilicate glass and PTFE allowing aggressive substances treatment.

It works efficiently both under vacuum and at any ambient conditions. The rotation of the 6, 10 or 20L evaporation flasks inside the heating bath results in a forced convection and homogenous distribution of the product, preventing sedimentation while ensuring high evaporation exchange surface.

The sealing system guarantees perfect vacuum tightness and no maintenance.

Glassware can be customized to meet any client specific need.



## STRIKE® 100

STRIKE®100 is a large capacity rotary evaporator designed for industrial plants. It meets all the process needs by using borosilicate glass and PTFE permitting aggressive substances treatment.

It works efficiently both under vacuum or at any ambient conditions. The rotation of the 50 or 100 L evaporation flask in the heating bath results in a forced convection and homogenous distribution of the product, thus preventing sedimentation.

In addition, STRIKE®100 ensures high evaporating exchange surface.

The sealing system guarantees perfect vacuum tightness and maintenance free operation. Glassware can be customized to meet any client specific need.



50 L  
or 100 L  
EVAPORATION  
VESSEL

1.43 m<sup>2</sup>  
EXCHANGE  
SURFACE

18 L/hour  
RECOVERY  
CAPACITY  
(ETHANOL 96%)

## TOTAL SAFETY SYSTEM

STRIKE® 20 and STRIKE® 100 industrial safety rotary evaporators protect the user from any risk during work.

The heating bath (standard for Strike 100 and optional for Strike 20) is covered with a transparent shield providing the operator with utmost protection from glass breaking and spray at high temperature. It is lifted by means of a hydraulic system which, in case of power failure or doors opening, goes down automatically to prevent fluid overheating and the process will immediately stop.

A rupture disk protects from any risk of glassware breakage in case of accidental overpressure or malfunctioning.

Electric heater enhanced to 8Kw ensures continuous evaporation of the product even in the worst conditions.



## MAINTENANCE-FREE VACUUM SEALING

Both STRIKE® 20's and STRIKE® 100's sealing systems are made of self lubricating material allowing perfect vacuum tightness. The sealing system does not require any maintenance during the instrument's life. No gaskets, o-rings or consumables needed.



## CONDENSER

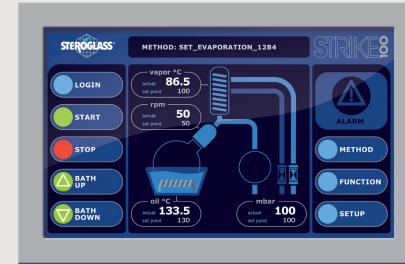
The condenser ensures the largest exchange surface in order to obtain the best condensation as well as speed and recovery rates with very high performances.

Optional: glass and stainless steel condenser for a very fast recovery in ethanol applications.



## USER-FRIENDLY DISPLAY

STRIKE® 20 and STRIKE® 100 are equipped with a 7" touch-screen display and a anti-reflection coating glass panel. STRIKE® 100 ATEX version is supplied with a PLC display and an industrial panel.



## PLC PROGRAMMABLE LOGIC CONTROLLER

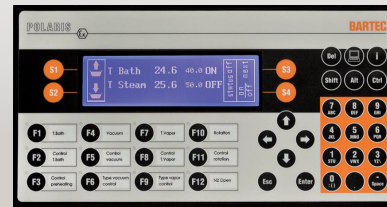
STRIKE® 100 ATEX is fully controlled by a PLC (Programmable Logic Controller) which allows for controlling the parameters as well as setting them directly by means of the keys.

User can acquire, on an external PC through serial communication, all the process parameters.

The following process operating conditions can be set and displayed:

- Bath temperature
- Rotation speed
- Vapour temperature
- Vacuum level

Any value error or anomalous temperature will block the electric power for safety reasons



# BENEFITS

## APPLICATIONS

- Distillation and extraction at low temperature (continuous/batch)
- Solvent recycling
- Reflux process reactions
- Component drying
- Fine chemical synthesis
- Crystallization
- Purifications
- R&D studies
- Scale-up



### CHEMICAL & PHARMACEUTICAL

The most efficient rotary evaporator to work in compliance with GMP and FDA regulations



### HERBS

The ideal solution for extraction and evaporation of officinal plants, medicinal plants (Cannabis)

The fastest way for ethanol removal and / or recycling

# APPLICATIONS & TARGETS



## COSMETICS & PHYTHERAPY

Utmost quality production thanks to gentle and natural extraction

Best ethanol recovery and purification guaranteed



## LUXURY SPIRITS

High quality production

Gently and natural extraction: low temperature combined with vacuum preserve all the aromatic properties of the botanics



## FOOD-AROMA

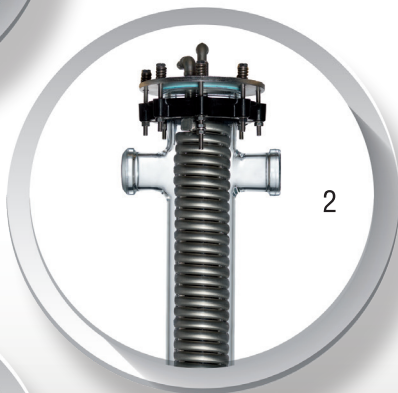
The ideal solution for extraction of hydrolates / flavoured waters made of essential oils, preserving all the olfactory, nutraceutical and organoleptic properties of the original product

# MAIN ACTIVITES

## ACCESSORIES

- 1 Trolley for evaporating flask handling
- 2 Glass/stainless steel condenser for very fast recovery
- 3 Automatic filling

Vacuum pump, chiller and other options available on request



## STRIKE®20 TECHNICAL FEATURES

|  |                   |
|--|-------------------|
| Working range °C                       | [ambient ... 150] |
| Accuracy °C                            | +/- 2             |
| Resolution °C                          | 0.1               |
| Set point                              | (1°C step)        |
| Type of control                        | PID               |
| Maximum oscillation during checkout °C | +/- 3             |
| Power resistor KW                      | 3                 |
| Heater power density                   | ≤3W/cm2           |
| Over-temperature protection            | YES               |
| Temperature sensor                     | PT100             |
| Filling level                          | Manual            |

### Vapour temperature

|                    |                   |
|--------------------|-------------------|
| Working range °C   | [ambient ... 150] |
| Accuracy °C        | +/- 2             |
| Resolution °C      | 0.1               |
| Temperature sensor | PT100             |

### Rotation

|                        |           |
|------------------------|-----------|
| Working range Rpm      | [10; 150] |
| Accuracy Rpm           | +/- 2     |
| Rotation speed reading | YES       |
| Resolution Rpm         | 1         |

### Vacuum control

|                         |                      |
|-------------------------|----------------------|
| Working range mbar      | [8; 999 atmospheric] |
| Accuracy mbar           | ±5                   |
| Resolution mbar         | 1                    |
| Absolute vacuum reading | YES                  |
| Display                 | Digital              |
| Vacuum setting          | [0; 999]             |

### Lift system

|          |     |
|----------|-----|
| On/off   | YES |
| Electric | YES |

### Interface

|                |     |
|----------------|-----|
| Export data    | YES |
| Remote control | YES |

### Alarms and controls

|  |     |
|--|-----|
| Heating bath overheating                       | YES |
| Bath temperature exceeding set point           | YES |
| Soft start rotation                            | YES |
| Rotation speed monitoring                      | YES |
| Safety status (rotation, lifting, heating=off) | YES |
| Evaporation flask protection                   | YES |

### Glassware

|                                     |                                |
|-------------------------------------|--------------------------------|
| 20 lt evaporation flask             | YES                            |
| 10 lt evaporation flask             | YES                            |
| 6 lt evaporation flask              | YES                            |
| Collecting flasks: 2x6 lt or 1x10lt | YES                            |
| Glassware configuration             | Descending, reflux, customized |

### General features

|                                   |                    |
|-----------------------------------|--------------------|
| Cooler exchange surface (mq)      | 0.5                |
| Over-pressure protection          | YES                |
| Protection with rupture disk      | YES                |
| Quick closing                     | YES                |
| Dimensions (WxDxH mm)             | 1.240x580x2060     |
| Power supply                      | 230Vac mono 3,4 Kw |
| Weight Kg                         | 150                |
| Vapours cycle maximum temperature | YES                |
| Vapours cycle minimum temperature | YES                |
| Vapours cycle Temp range          | YES                |
| Bath lowering in case of alarm    | YES                |

# ACCESSORIES

# TECHNICAL FEATURES

# STRIKE®100 TECHNICAL FEATURES

## Thermic Bath

|  |                  |
|--|------------------|
| Working Range °C                       | [ambient; 150]   |
| Accuracy °C                            | +/- 2            |
| Resolution °C                          | 0.1              |
| Set point                              | YES (1°C step)   |
| Type of control                        | PID              |
| Maximum oscillation during checkout °C | +/- 3            |
| Power resistor KW                      | 8                |
| Heater power density                   | 3W/cm2           |
| Over-temperature protection            | YES              |
| Temperature Sensor                     | Three-wire PT100 |
| Level sensor                           | YES              |
| Filling Level                          | Yes -Manual      |

## Vapour Temperature

|                    |                  |
|--------------------|------------------|
| Working Range °C   | [ambient; 150]   |
| Accuracy °C        | +/- 2            |
| Resolution °C      | 0.1              |
| Temperature sensor | Three-wire PT100 |

## Rotation

|                        |          |
|------------------------|----------|
| Working Range Rpm      | [5; 100] |
| Accuracy Rpm           | +/- 2    |
| Rotation speed reading | YES      |
| Resolution Rpm         | 1        |
| Engine 0,18KW, 380Vac  | YES      |

## Vacuum Control

|                         |                      |
|-------------------------|----------------------|
| Working Range mbar      | [8; 999 atmospheric] |
| Accuracy mbar           | ±5mbar               |
| Resolution mbar         | 1                    |
| Absolute vacuum reading | YES                  |
| Display                 | Digital              |
| Vacuum regulation       | YES                  |

## Lifting

|                        |     |
|------------------------|-----|
| Lifting control ON/OFF | YES |
| Hydraulic lifting      | YES |

## Interface

|                          |     |
|--------------------------|-----|
| PLC controlled           | YES |
| Export data interface    | YES |
| Remote control interface | YES |

## Alarms

|  |     |
|--|-----|
| Thermal bath overheat                            | YES |
| Bath temperature exceeding set point             | YES |
| Soft start rotation                              | YES |
| Rotation speed monitoring                        | YES |
| Security status (rotation, lifting, heating=off) | YES |
| Evaporation flask protection opening             | YES |

## General

|                                      |                   |
|--------------------------------------|-------------------|
| 100Lt evaporation flask              | YES               |
| 50Lt evaporation flask               | YES               |
| 20L evaporation flask                | YES               |
| 20Lt collecting flask                | 2                 |
| Cooler exchange surface (mq)         | 1.43/custom       |
| Over-pressure Protection             | YES               |
| Protection with rupture disk         | YES               |
| Quick closing                        | YES               |
| ATEX certification                   | EPTI 15 ATEX 0181 |
| Dimensions Reflux (WxDxH mm)         | 900x1.850x2.300   |
| Dimensions Vertical model (WxDxH mm) | 900x1.850x2.250   |
| Weight Kg                            | 350-400           |

## Operation

|                                   |     |
|-----------------------------------|-----|
| Vapours cycle maximum temperature | YES |
| Vapours cycle minimum temperature | YES |
| Vapours cycle Temp range          | YES |
| Lowering bath in case of alarm    | YES |

## Optional

|                          |            |
|--------------------------|------------|
| Plastic coated glassware | ON REQUEST |
|--------------------------|------------|



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®  
STRIKE

COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV GL  
= ISO 9001 =



## ROTARY EVAPORATORS

the best evaporating solutions

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