

ROTARY EVAPORATOR

STRIKE[®] 100

STRIKE100 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.

The unit works under vacuum or atmosphere conditions. The rotation of the 50 or 100 lt evaporation flask in the thermostatic bath results in a forced convection and homogenous distribution of the product, thus preventing sedimentation. Moreover, it ensures high evaporating exchange surface. The sealing system guarantees the perfect vacuum tightness and maintenance-free operation. Possibility to customize glassware as for Clients needs.

APPLICATIONS

- Distillation
 - (continuous and discontinuous)
 - Solvent recycling
 - Reflux process reactions
 - Component drying
 - Fine chemical synthesis
 - Crystallization
- Extractions
 - Purifications
 - Scale-up processes

FIELDS

- Pharmaceutical
- Chemical
- Cosmetic
- Herb extraction
- Petrochemical
- Food

TOTAL SAFETY SYSTEM

The industrial safety rotary evaporators are able to safeguard the user from any risk during work. The thermostatic bath is covered by a transparent shield providing the operator with utmost protection from glass breaking and spray at high temperature. The thermostatic bath and the protective shield are lifted by means of an hydraulic system electronically controlled. An automatic system lowers the thermostatic bath when a power failure, door opening and overheating occur. It is also inserted on glassware a rupture disc in order to avoid sudden overpressure.

VACUUM SEALING SYSTEM

A great feature of these rotary evaporators is its sealing system made of self-lubricating material which allows a perfect vacuum-tight. This sealing system does not require any maintenance.

HEATING BATH

The heating bath is lifted by means of a hydraulic system which, in case of power failure or doors opening, goes automatically down to avoid fluid overheating and the process will immediately stop. Electric heater enhanced to 8Kw to ensure a continuous evaporation of the product even in the worst conditions.

DISPLAY

The process operating conditions can be set and displayed: any value error or anomalous temperature will block the electric power. For STRIKE100 ATEX version is a "LCD display anti-reflectio coating glass panel". For version STRIKE100 is a graphical color display 7" touch-screen



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ELECTRONIC CONTROLLER

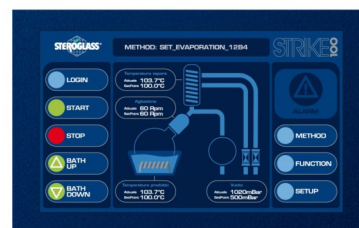
Strike100 e STRIKE100ATEX are fully controlled by a PLC (Programmable Logic Controller) which allows for controlling the parameters as well as setting them directly by means of the keys.

Client could acquire on an external PC through serial communication all the process parameters through special software for data acquisition and management. Client could remotely control the instrument from an external PC via serial communication. Client could save and recall up to 20 methods or "recipes" work that the customer can customize over time (NOT ON ATEX VERSION). In addition, the instrument has control algorithms that allow you to finish the process of evaporation / distillation or separation of solvents automatically by reading the temperature of the vapors.



PARAMETERS MEASUREMENT, VISUAL DISPLAY AND RECORDING OF THE FOLLOWING:

- Bath pre-set and real temperature
- Vapor pre-set and real temperature
- Pre-set and real rotation speed
- Pre-set and real vacuum reading and setting



HOW TO ORDER

| Code | STRIKE 100 |
|------------|--|
| | 100 lt version |
| SQFU069840 | 100lt reflux glassware 1,43m ² 2x20lt |
| SQFU069841 | 100lt reflux glassware 1,43m ² 1x20lt |
| SQFU069842 | 100lt descending glassware 100lt 1,43m ² 2x20lt |
| SQFU069843 | 100lt descending glassware 100lt 1,43m ² 1x20lt |
| | 50 lt version |
| SQFU069844 | 50lt reflux glassware 1,43m ² 2x20lt |
| SQFU069845 | 50lt reflux glassware 1,43m ² 1x20lt |
| SQFU069846 | 50lt descending glassware 1,43m ² 2x20lt |
| SQFU069847 | 50lt descending glassware 1,43m ² 1x20lt |

| Code | STRIKE 100 ATEX * |
|------------|--|
| | 100 lt version |
| SQFU069848 | 100lt reflux glassware 1,43m ² 2x20lt |
| SQFU069849 | 100lt reflux glassware 1,43m ² 1x20lt |
| SQFU069850 | 100lt descending glassware 100lt 1,43m ² 2x20lt |
| SQFU069851 | 100lt descending glassware 1,43m ² 1x20lt |
| | 50 lt version |
| SQFU069852 | 50lt reflux glassware 1,43m ² 2x20lt |
| SQFU069853 | 50lt reflux glassware 1,43m ² 1x20lt |
| SQFU069854 | 50lt descending glassware 1,43m ² 2x20lt |
| SQFU069855 | 50lt descending glassware 1,43m ² 1x20lt |

| Code | SUGGESTED ACCESSORIES |
|------------|---|
| IMNM017503 | PTFE Diaphragm pump MPC 601 T-4.5 m ³ /h-ultimate pressure <mbar 2-oil free |
| IMNM079980 | PTFE Diaphragm pump MPC 601 Tp EX -4.5 m ³ /h- ultimate pressure <mbar 2- oil free-ATEX II 2G c IIB T4 X |
| SQEG034290 | 50 lt evaporation vessel |
| SQEG034291 | 100 lt evaporation vessel |
| SQEG034292 | 20 lt evaporation vessel |
| SQEG036866 | 20lt receiving vessel |
| SQEG034294 | 1.43 m ² glass exchanger |
| SQFW039025 | TROLLEY for evaporating flask mounting and dismounting |
| JUCG080963 | Chiller FL 7006 Julabo -20...+40°C heating power 7 kWat 20°C, 1,55 kW at -20°C |
| JUCG078728 | Chiller FL 11006 Julabo -20...+40°C heating power 11 kWat 20°C, 3 kW at -20°C |



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Technical features

| | | | |
|--|------------------|--|---------------|
| Thermic Bath | | Interface | |
| Working Range °C | [0; 150] | PLC controlled | YES |
| Accuracy °C | +/- 2 | Export data interface | YES |
| Resolution °C | 0.1 | Remote control interface | YES |
| Set point | YES (1°C step) | Alarms | |
| Type of control | PID | Thermal bath overheat | YES |
| Maximum oscillation during checkout °C | +/- 3 | Bath temperature exceeding set point | YES |
| Power resistor KW | 8 | Soft start rotation | YES |
| Heater power density | 3W/cm2 | Rotation speed monitoring | YES |
| Over-temperature protection | YES | Security status (rotation, lifting, heating=off) | YES |
| Temperature Sensor | Three-wire PT100 | Evaporation flask protection opening | YES |
| Level sensor | YES | General | |
| Filling Level | Yes -Manual | 100Lt evaporation flask | YES |
| Vapour Temperature | | 50Lt evaporation flask | YES |
| Working Range °C | [0; 150] | 20L evaporation flask | YES |
| Accuracy °C | +/- 2 | 20Lt collecting flask | 2 |
| Resolution °C | 0.1 | cooler exchange surface (mq) | 1.43/custom |
| Temperature sensor | Three-wire PT100 | Over-pressure Protection | YES |
| Rotation | | Protection with rupture disk | YES |
| Working Range Rpm | [5; 100] | Quick closing | YES |
| Accuracy Rpm | +/- 2 | ATEX certification | YES |
| Rotation speed reading | YES | Dimensions (WxDxH mm) | 1830x890x2110 |
| Resolution Rpm | 1 | Operation | |
| Engine 0,18KW, 380Vac | YES | vapours cycle maximum temperature | YES |
| Vacuum Control | | vapours cycle minimum temperature | YES |
| Working Range mbar | [0; 1000] | vapours cycle Temp range | YES |
| Accuracy mbar | ±5mbar | receipt/methods in memory | YES |
| Resolution mbar | 1 | recipes customization | YES |
| Absolute vacuum reading | YES | Data acquisition on PC | YES |
| Display | Digital | Remote Control | YES |
| Vacuum regulation | YES | lowering bath in case of alarm | YES |
| Lifting | | Optional | |
| Lifting control ON/OFF | YES | Plastic coated glassware | |
| Hydraulic lifting | YES | | |

*Strike 100 Atex version is in compliance with the Atex European Directives that regulate explosion-proof manufacturing materials. Strike 100 Atex is T3 or T4 certificated. T3 or T4 protection level can be chosen according to the applications needed.



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