





Laboratory Rotary Evaporator $\mathsf{Up} \mathsf{ to } \mathsf{2L}$



Large Rotary Evaporator 6L、10L、20L







Strike 280 Rotary Evaporator

New entry level for Rotary evaporator, new standard for safety, efficiency and easy of use. offering excellent separation, concentration and purification solution. Strike 280 are equipped with timer function, program control, automated lift. More safety feaures are: over temperature setting and protection, automated lift-our in case of power outage, real-time monitoring of steam and cooling water temperature.



Design

Compact and modern. All controls are placed on the central column to guarantee user-friendly and handly use.

Control panel

Easy to operate using the state-of-the-art turn & push controller and 4.3" touch screen, widely and easy to read.





Electric lifting device

Compact and modern. All controls are placed on the central column to guarantee user-friendly and handy use.

Integrated vacuum controller

The optional vacuum controller is managed by the touch screen display that comes as standard

Sealing system

The exclusive STEROGLASS sealing system allows a perfect vacuum-tight anti-corrosion seal without gaskets or other materials that can be damaged by solvent contact. This sealing system is a standard feature in all strike models and can be used with all types of glassware.

Rotary evaporator innovations

The following are the technical innovations applied to the construction of the Strike 380 Rotary Evaporator making it a fast, working, efficient, safe and maintenance free instrument.

Flask assembly

System used to assemble the evaporation flask. The evaporation flask is screwed onto the steam passing pipe to ensure easy assembly and dismounting operations as well as a perfect seal. (You may also use conventional unthreaded cone flasks and spring-clamps to mount the flasks).

Safety shield

The shield is standard for all models. It can be removed by the operator and fitted beside the instrument.











Specifications

Technical data	STRIKE 280		
Models	Models available with slanting glassware, vertical glassware		
WOUEIS	(steam sinking and steam rising type)		
Glassware	Standard or plastic-coated glassware		
Rotation speed	20 to 300 rpm (DC motor)		
Screen	4.3" monochromatic LCD touch screen		
sealing	Maintenance-free PTFE and carbon graphite seals		
Connection	Rodavis evaporation flask connection system		
Bath temperature	180 $^{\circ}$ C (2 possible settings: water and oil)		
Bath heater	1400W		
Bath capacity	5 liters		
Bath material	PTFE coated		
Bath movement distance	90mm		
Draining	Removable bath for emptying		
Stroke displacement	13cm, adjusted, and can be stop at any position		
Head angle adjustable	0~15°		
Cooling surface	1500cm ²		
Evaporating flasks	1000ml (optional 50 to 2000ml)		
Collecting flasks	1000ml (optional 250 to 2000ml)		
Weight	26,5 Kg (vertical version), 26 Kg (slanting version)		
Overall dimensions	690x700x430mm (vertical version,HxDxL)		
	690x790x430mm (slanting version, HxDxL)		
Voltage	230 V AC, 50Hz		
Ontions	Steam temperature probe, Cooling water temperature		
Options	probe, vacuum pump and controller, Chiller		
avatastiva shiald	Glassware lifting made possible with or without protective		
protective shield	shield		
	Powered glassware lifting equipment with safety release (in		
Other features	case of power failure)		
	Quick Start/Stop control and parameter selector		



Models of STRIKE 280



STRIKE 280 M2 / M5

Vertical glassware (Steam sinking type)



Slanting glassware

STRIKE 280 M3 / M6 Vertical glassware (Steam rising type)

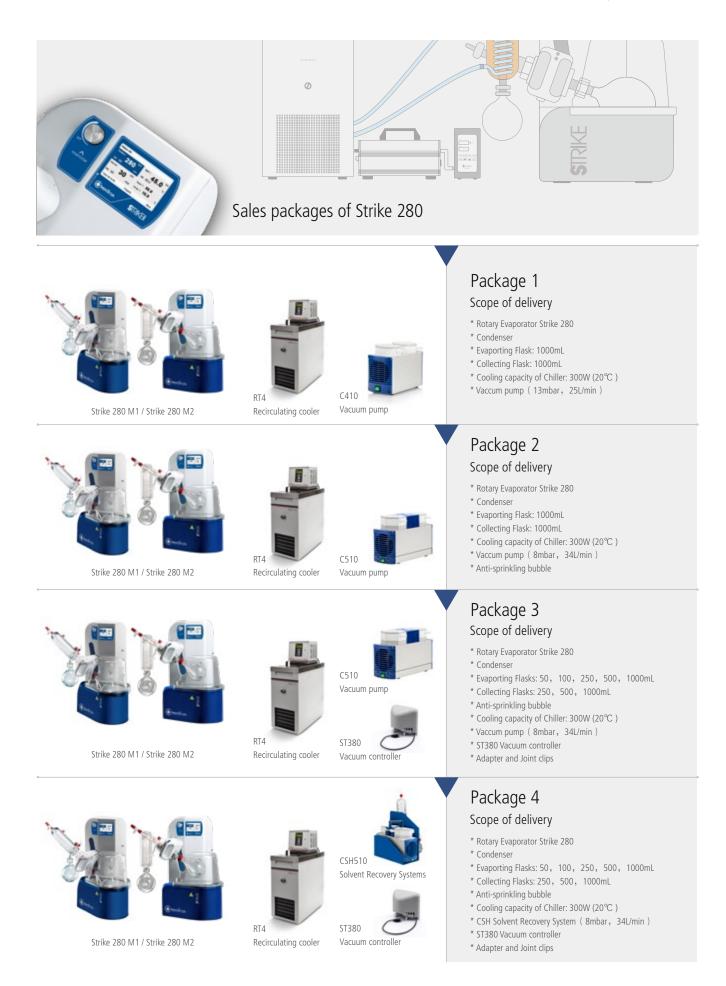
Configurations in standard glassware

-	-			
Order Number	Model	Туре	Voltage	Version
SQED058113	Rot.Evap.STRIKE 280 M1	Slanting glassware	220V	0
SQED058112	Rot.Evap.STRIKE 280 M2	Vertical glassware (Steam sinking type)	220V	V
	Rot.Evap.STRIKE 280 M3	Vertical glassware (Steam rising type)	220V	U

Configurations in plastic coated saftey glassware

Order Number	Model	Туре	Voltage	Version
SQED058419	Rot.Evap.STRIKE 280 M4	Slanting glassware	220V	O/P
SQED058418	Rot.Evap.STRIKE 280 M5	Vertical glassware (Steam sinking type)	220V	V/P
SQED058417	Rot.Evap.STRIKE 280 M6	Vertical glassware(Steam rising type)	220V	U/P
SQED058420	Rot.Evap.STRIKE 280 M7	Dry ice condensation type	220V	С

NOTE: Other glassware versions are available upon specific request





Strike 380 Rotary Evaporator

A philosophy of safety

The rotary evaporator Strike 380 combines excellent operating characteristics and high performance levels, all in an ergonomic design. Strike 380 has been projected in complete respect of safety needs and in compliance with the existing directive regarding equipment construction and electromagnetic compatibility.



Evaporate laboratory solvents in maximum safety

Health and safety at the workplace are undoubtedly one of the foundations of international social policies. Several official documents regulate the objective of progressive improvement at workplace well-being. This law focuses on accident and disease prevention by limiting the use of dangerous substances (when possible) or by minimizing contact at the workplace and with workers. A common aim of the numerous publications is to define good practice, make it known and then develop it to the point where working conditions favour greater worker safety and health. To instill a culture of prevention and to change attitudes, it is necessary to improve understanding of risk for the people directly involved, through education, by making them aware as well as and helping them anticipate new risks. It is also essential to integrate health and workplace safety into company management and in other activities that lead to a systematic approach to workplace well-being, thus adapting to all the changes that normally take place. The risk prevention attitude must be consolidated by demonstrating that effective workplace safety and health policies are a strategic factor in market competition and that, in contrast, absence of these policies brings added costs.





Innovations

The following are the technical innovations applied to the construction of the Strike 380 Rotary Evaporator making it a fast, efficient, safe and maintenance-free instrument.

Design

Compact and modern. All controls are placed on the central column to guarantee user-friendly and handly use.



Control panel The touch screen is wide and easy to read. The microprocessor is multi-programmable and GLP compliant.



Electric lifting device

Compact and modern. All controls are placed on the central column to guarantee user-friendly and handy use.

The optional vacuum controller is managed by the touch screen display that comes as standard



Integrated vacuum controller



Sealing system

The exclusive sealing system allows a perfect vacuum-tight anti-corrosion seal without gaskets or other materials that can be damaged by solvent contact. This sealing system is a standard feature in all strike models and can be used with all types of glassware.



Rotary evaporator innovations

The following are the technical innovations applied to the construction of the Strike 380 Rotary Evaporator making it a fast, working, efficient, safe and maintenance free instrument.



Flask assembly

System used to assemble the evaporation flask. The evaporation flask is screwed onto the steam passing pipe to ensure easy assembly and dismounting operations as well as a perfect seal. (You may also use conventional unthreaded cone flasks and spring-clamps to mount the flasks).



Safety shield

The shield is standard for all models. It can be removed by the operator and fitted beside the instrument.



Control panel and microprocessor

- > 3.5" LCD graphic display touch screen (320 x 240 pixel)
- > START/STOP control and quick basic parameter selection
- > Real-time display of all basic operating parameters (bath temperature, rotation speed), vacuum level and fume temperature (if optional probe and vacuum controller are present)
- > Real-time display of working method
- > Method saving and retrieving (up to 10 methods)
- > Timer
- > Possibility to operate according to fume temperature (if optional probe is present)
- > Possibility to create manual and automatic ramps according to time, by differentiating all working parameters (if vacuum controller is present)
- > Possibility to download working method to PC through USB port and retrieve it at any time
- > USB updatable multi-language software.





Specifications

Technical data	Strike 380			
Models	Models available with slanting glassware, vertical glassware	(steam sinking and steam ris	ing type)	
Glassware	Standard or plastic-coated glassware			
Rotation speed	20 to 280 rpm (150W induction motor)			
Screen	3.5" monochromatic LCD touch screen		7.5	
sealing	Maintenance-free PTFE and carbon graphite seals			
Connection	Rodavis evaporation flask connection system			
Bath temperature	185°C (2 possible settings: water and oil)			
Bath heater	1400W			
Bath capacity	5 liters			
Bath material	PTFE coated			
Bath movement distance	90mm 🧹 🖉 🖂 👘	100		
Draining	Removable bath for emptying			
Stroke displacement	13cm, adjusted, and can be stop at any position			
Head angle adjustable	0~15°	54	Y	
Cooling surface	1500cm ²			
Evaporating flasks	1000ml (optional 50 to 2000ml)			
Collecting flasks	1000ml (optional 250 to 2000ml)			
Neight	26,5 Kg (vertical version), 26 Kg (slanting version)			
Overall dimensions	690x700x430mm (vertical version,HxDxL)			
Uverali dimensions	690x790x430mm (slanting version, HxDxL)			
Voltage	230 V AC, 50/60Hz			
Options	Steam temperature probe, vacuum controller			
protective shield	Glassware lifting made possible with or without protective s	nield		
	Powered glassware lifting equipment with safety release (in	case of power failure)		
Other features	Quick Start/Stop control and parameter selector			

Models of Strike 380



Configurations in standard glassware

Order Number	Model	Туре	Voltage	Version
SQED060113	Rot.Evap.Strike 380 M1	Slanting glassware	220V	0
SQED060112	Rot.Evap.Strike 380 M2	Vertical glassware (Steam sinking type)	220V	V
SQED060111	Rot.Evap.Strike 380 M3	Vertical glassware (Steam rising type)	220V	U

Configurations in plastic coated safety glassware

Order Number	Model	Туре	Voltage	Version
SQED060419	Rot.Evap.Strike 380 M4	Slanting glassware	220V	O/P
SQED060418	Rot.Evap.Strike 380 M5	Vertical glassware (Steam sinking type)	220V	V/P
SQED060417	Rot.Evap.Strike 380 M6	Vertical glassware(Steam rising type)	220V	U/P
SQED060420	Rot.Evap.Strike 380 M7	Dry ice condensation type	220V	С
NOTE: Other al:	assware versions are available upon spe	cific request		

NOTE: Other glassware versions are available upon specific request

Five steps to building up your rotary evaporator



STRIKE 280 / Strike 380 Slanting glassware



STRIKE 280 / Strike 380 Vertical glassware (Steam sinking type)



STRIKE 280 / Strike 380 Vertical glassware (Steam rising type)



- > Two kinds glass materials available: Borosilicate glass / Glass with safety coating
- > Evaporating flasks: 1000ml (50~2000ml are optional)
- > Collecting flasks:1000ml (250~2000ml are optional)

Step 2



F series recirculating cooler

-10 ~ +40°C





FL series recirculating cooler $-20 \sim +40^{\circ}$ C



* Various chillers available

	0.5-1 L	up t	o 2 L
STRIKE 280 / 300	1	2	3-4
	RT4		
Chiller	F250	F500	F1000
	FL300	FL601	FL1201





C410 / C510 Vacuum pump



CSH410 / CSH510 Solvent Recovery Systems



CSC410 / CSC510 Solvent Recovery Systems

Vacuum system

Different vacuum systems are optional according to different experimental requirements

	C series	CSH series	CSC series
Vacuum pump	۲	•	•
Vacuum controller	0	0	•
Condensers	0	•	٠
Separator	0	•	٠
Collecting flasks	0	٠	•

> If a vacuum controller is selected, different vacuum can be

> ST380 can display vacuum values on the screen of rotary

> DVR480 can set and display the vacuum value directly.> CSC series already contains the vacuum controller.

Step 4

Step 5



ST380 Vacuum controller

STRKE



DVR480 Vacuum controller



Possibility to operate according to steam temperature (if optional probe is present)

Temperature sensor

Vacuum controller

controlled

evaporator

- Possibility to operate according to steam temperature (if optional probe is present)
- > Strike 280 can also display cooling water temperature (if optional probe is present)
- > Glass temperature sensor, corrosion resistant
- > Steam temperature can be display from the screen of rotary evaporator



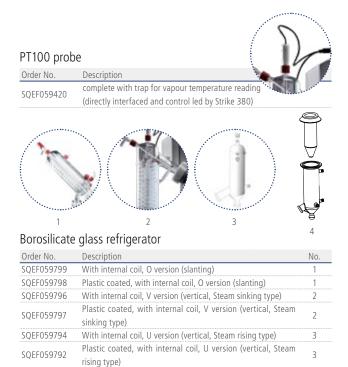
Product Comparison Table between Strike 280 and Strike 380





Model	Strike 280	Strike 380
Series	Programmable	Programmable
Rotation speed	20~300rpm (DC motor)	20~280rmp (AC motor)
Screen	4.3" monochromatic LCD touch screen	3.5" monochromatic LCD touch screen
Sealing	Maintenance-free PTFE and carbon graphite seals	Maintenance-free PTFE and carbon graphite seals
Connection	Rodavis evaporation flask connection system	Rodavis evaporation flask connection system
Bath temperature	2 bath fluid modes:up to $85^\circ C$ with water, up to $185^\circ C$ with oil	2 bath fluid modes: up to 85° C with water, up to 185° C with oil
Heating capacity	1400W	1400W
Bath volume	5L	5L
Bath material	PTFE coated	PTFE coated
Bath movement distance	90mm	90mm
Draining	Removable bath for emptying	Removable bath for emptying
Glassware lift device	Automatic	Automatic
Stroke displacement	13cm, adjusted, and can be stop at any position	13cm, adjusted, and can be stop at any position
Head angle adjustable	0~15°	0~15°
Cooling surface	1500cm ²	1500cm ²
Evaporating flasks	1000ml (optional 50 to 2000ml)	1000ml (optional 50 to 2000ml)
Collecting flasks	1000ml (optional 250 to 2000ml)	1000ml (optional 250 to 2000ml)
protective shield	Glassware lifting made possible with or without protective shield	Glassware lifting made possible with or without protective shield
Features	 Powered glassware lifting equipment with safety release (incase of power failure) Quick Start/Stop control and parameter selector Timer function Easy program control (1 × 9steps, automatic) Adjustable safety temperature 	 > Powered glassware lifting equipment with safety release (incase of power failure) > Quick Start/Stop control and parameter selector > Timer function > Methods (up to 21 methods) Optimal program control (21 × 5steps, automatic or manual) > Setting the "Maximum Vapor" > Setting the "Minimum Vapor" > Setting the "Vapor Range"
Weight	25.5 Kg (vertical version), 25 Kg (slanting version)	26.5 Kg (vertical version), 26 Kg (slanting version)
Overall dimensions	690x700x430mm (vertical version,HxDxL) 690x790x430mm (slanting version,HxDxL)	690x700x430mm (vertical version,HxDxL) 690x790x430mm (slanting version,HxDxL)
Voltage	230 V AC, 50Hz	230 V AC, 50/60Hz
Peripheral modules and accessories	 > Steam temperature probe > Cooling water temperature probe > Chemical resistant diaphragm pumps > Vacuum controller > Solvent recovery system > Chiller 	 Steam temperature probe Chemical resistant diaphragm pumps Vacuum controller Solvent recovery system Chiller
Packages	saftey glassware)	 > 7 packages avalible > Slanting glassware (Borosilicate glass or plastic coated saftey glassware) > Vertical glassware with steam sinking (Borosilicate glass or plastic coated saftey glassware) > Vertial glassware with steam rising type (Borosilicate glass or plastic coated saftey glassware) > Dry ice condensation type
Application	Simple distillation, Education, Food and beverage \cdots	Complex distillation, Petrochemical, Pharmaceutical, Environment, Food and beverage

Accessories and spare parts



Borosilicate glass rodavis evaporating flask 29/32

Dry ice condensation type

Order No.	Description	and the second
SQFY051170	Capacity 50mL	$\overline{\nabla}$ $\overline{\Pi}$ ∇
SQFY015938	Capacity 100mL	Λ
SQFY015939	Capacity 250mL	
SQFY015940	Capacity 500mL	
SQFY015934	Capacity 1000mL	
SQFY015935	Capacity 2000mL	************

Evaporating flasks for powders

SQEF059793

1 5	I	64
Order No.	Description	
SQFY046060	Capacity 500mL	H
SQFY046062	Capacity 1000mL	
SQFY046061	Capacity 2000mL	······································

Borosilicate glass collecting flask 35/20

Order No.	Description
SQUA015797	Round collecting flask with spherical Joint capacity ml.250
SQUA015798	Round collecting flask with spherical Joint capacity ml.500
SQUA015796	Round collecting flask with spherical Joint capacity ml.1000
SQUA015792	Round collecting flask with spherical Joint capacity ml.2000



4

Plastic coated borosilicate glass collecting flask 35/20

Order No.	Description	
SQUA015788	Round collecting flask with spherical Joint capacity ml. 250	
SQUA015791	Round collecting flask with spherical Joint capacity ml. 500	
SQUA015789	Round collecting flask with spherical Joint capacity ml. 1000	
SQUA015790	Round collecting flask with spherical Joint capacity ml. 2000	



Borosilicate glass adapter for collecting flask

Order No.	Description
SQFW029300	For multiple evaporation, N.4 sockets NS12 with central socket NS29/32
SQUA062435	For multiple evaporation, N.4 sockets NS29 with central socket RODAVIS 29
SQUA062434	For multiple evaporation, N.3 sockets NS29 with central socket RODAVIS 29
SQFW029301	For multiple evaporation, N.4 sockets NS19 with central socket RODAVIS 29

Borosilicate glass adapter for connection

	5		<i>: 1</i>	- A.
Order No.	Description			
SQAD060001	NS29/32 to 1	NS24/29	X	$\mathbf{\lambda}$
SQAD060002	NS29/32 to 1	NS19/26		$\langle \rangle$ /
SQAD060003	NS29/32 to 1	NS14/23		

Anti-sprinkling bubble in borosilicate glass flack to E00ml

(for evapor	ation flasks up to 500mL)	
Order No.	Description	
SQFW026451	BUBBLE volume 100mL, NS29/32 to NS29	
SQFW026452	BUBBLE volume 100mL, NS29/32 to NS24	Ť.
SQFW026453	BUBBLE volume 250mL, NS29/32 to NS29	
SQFW026454	BUBBLE volume 250mL, NS29/32 to NS24	

Joint clips Plastic

Tightening clamp

Description

Joint ciip3,	riustic	· · · · · · · · · · · · · · · · · · ·
Order No.	Description	- C - S
FLMU016720	For 29/32, pk/1	- A. C.A.
FLMU016721	For 24/29, pk/1	0.0
FLMU016722	For 19/26, pk/1	· · · · ·
FLMU016723	For 14/23, pk/1	· · · · · · · · · · · · · · · · · · ·



Sleeves, PTFE

Order No.

Order No.

Order No.	Description	
KAMY011542	For 29/42, pk/1	
KAMY011543	For 29/32, pk/1	- A S
KAMY011544	For 24/29, pk/1	
KAMY011545	For 19/26, pk/1	
KAMY011546	For 19/22, pk/1	
KAMY011547	For 14/23, pk/1	

Rubber vacuum resistant tube Description



AEHA024253 8×16mm silicone vacuum resistant tube, 1meter, uncut



for pharmaceutical & industrial Cannabis

The highest performances proposal For your evaporation processes!

6L, 10L, 20L



STRIKE 20 - Large-Capacity Rotary Evaporator

Strike 20 has both industrial and laboratory rotary evaporation features. It meets all the process needs by using Borosilicate glass and PTFE permitting aggressive substances treatment. The plant allows for evaporation of volatile components (lowboiling) so as to separate them from the residual ones (high-boiling) due to the difference of their boiling points. Easy and totally safe startup, check and stop procedures of the process: Strike 20 is provided with a transparent protection shield for the evaporation flask and the thermostatic bath.

Heating Bath

The heating bath is lifted by means of a hydraulic system which, in case of Power failure, goes automatically down to avoid fluid overheating.

Sealing System

A great feature of Strike 20 is its sealing system made of self-lubricating material which allows a perfect vacuum-tight. This sealing system does not require any maintenance.

Pressure And Temperature

Strike 20 runs under atmospheric pressure conditions or vacuum. It guarantees a perfect vacuum tight up to 5 mbar. The perfect sealing up to 5 mbar allows for reduced process time due to low evaporation temperature of the fluid. The thermostatic bath can run both with water and oil allowing to reach 180° C maximum temperature; it also permits evaporation of any solvent under atmospheric pressure conditions. The heating bath is supplied with two 3KW electric heaters.

Measurement, Visual Display And Recording Of The Following Parameters:

- > 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

Technical Features

Normal prog. OHard and a second a s	Heating bath Working range ℃	ambient 150
Resolution ℃0.1Set pointYES (1°C step)Type of controlPIDMaximum oscillation during checkout °C+/- 3Power resistor KW3Heater Power density<3W/cm²		
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DISPLAY

The process operating parameters can be set and monitored on a $7^{\prime\prime}$ touch-screen display.

Measurement, display and data recording of the following Parameters:

- Set and actual temperature value of the bath
- Set and actual vapour temperature value
- Set and actual rotation speed value of the evaporation flask
- Set and actual vacuum value (vacuum controller included as standard)

Applications

- Distillation(continuous and discontinuous)
- Solvent recycling
- Reflux process reactions
- Component drying
- Fine chemical synthesis
- Crystallization
- Extractions
- Purifications
- R&D studies - Scale-down processes

Industries

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

Order information

Order No.	Configration
SQFU079737	STRIKE 20 descending glassware, 20L evaporating flask 1x10L collecting flask
SQFU079738	STRIKE 20 descending glassware, 20L evaporating flask, 2x6L collecting flasks
SQFU079735	STRIKE 20 reflux glassware, 20L evaporating flask 1x10L collecting flask
SQFU079736	STRIKE 20 reflux glassware, 20L evaporating flask, 2x6L collecting flasks
Order No.	Accessories recommended
SQFW080270	20L Aluminium trolley for evaporating flask handling
SQFY080951	6lt Evaporation vessel for Strike 20
SQFY080952	10lt Evaporation vessel for Strike 20
SQFY080953	20lt Evaporation vessel for Strike 20
SQFY080954	6lt Collecting plastic coated vessel
SQFY080955	10lt Collecting plastic coated vessel
169960	Chemical resistant diaphragm pump C960T, Max.flowrate is 60L/min,Max vacuum is 2mbar
9663040	Chiller: julabo model FL 4003 Temperature range: -20°C +40°C (0,5°C stability) Cooling capacity: 4 kW ad +20°C ; 0,65 kW at -20°C Flow rate (Pump): 40 L/min 0.5-3 bar



STRIKE 100 - Industrial Rotary Evaporator

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 It 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



The highest performances proposal For your evaporation processes!

Atex

TRIKES

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 brake 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

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 di-rectly 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 algo-rithms that allow you to finish the process of evapora-tion / distillation or separation of solvents automatically by reading the temperature of the vapors.



Technical features

Thermic Bath Working Range ℃	[0: 1E0]
Accuracy °C	[0; 150] +/- 2
Accuracy °C Resolution °C	+/- 2
Set point	YES (1°C step)
	PID
Type of control 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	Tes -Intallual
Working Range °C	[0; 150]
Accuracy °C	+/- 2
Resolution °C	0.1
Temperature sensor	Three-wire PT100
Rotation	intee-wile F1100
Working Range Rpm	[5; 100]
Accuracy Rpm	+/- 2
Rotation speed reading	YES
Resolution Rpm	1
Engine 0,18KW, 380Vac	YES
Vacuum Control	1 L J
Working Range mbar	[0; 1000]
Accuracy mbar	±5mbar
Resolution mbar	
Absolute vacuum reading	YES
Display	Digital
Vacuum regulation	YES
Lifting	i LJ
Lifting control ON/OFF	YES
Hydraulic lifting	YES
Interface	I LJ
PLC controlled	YES
Export data interface	YES
Remote control interface	YES
Alarms	TES
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)	0.6/1.4/custom
Over-pressure Protection	YES
Protection with Rupture disc	YES
Quick closing	YES
ATEX certification	YES
Dimensions (WxDxH mm)	1830x890x2110
Operation	
vapours cycle maximum temperature	YES
vapours cycle minimum temperature	YES
vapours cycle Temp range	YES
receipt/methods in memory	YES
recipes customization	YES
Data acquisition on PC	YES
Remote Control	YES
lowering bath in case of alarm	YES
Optional	



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

Order information

Strike 100	Order No.
100L version	
100lt reflux glassware 1.43m ² 2x20L	SQFU069840
100lt reflux glassware 1.43m ² 1x20L	SQFU069841
100lt discending glassware 100lt 1.43m ² 2x20L	SQFU069842
100lt discending glassware 100lt 1.43m ² 1x20L	SQFU069843
50L version	
50lt reflux glassware 0.6m ² 2x20L	SQFU069844
50lt reflux glassware 0.6m ² 1x20L	SQFU069845
50lt discending glassware 0.6m ² 2x20L	SQFU069846
50lt discending glassware 0.6m ² 1x20L	SQFU069847
Strike 100 ATEX	Order No.
100L version	
100lt reflux glassware 1.43m ² 2x20L	SQFU069848
100lt reflux glassware 1.43m ² 1x20L	SQFU069849
100lt discending glassware 100lt 1.43m ² 2x20L	SQFU069850
100lt discending glassware 100lt 1.43m ² 1x20L	SQFU069851
50L version	
50lt reflux glassware 0.6m ² 2x20L	SQFU069852
50lt reflux glassware 0.6m ² 1x20L	SQFU069853
50lt discending glassware 0.6m ² 2x20L	SQFU069854
50lt discending glassware 0.6m ² 1x20L	SQFU069855

*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 protectionlevel can be chiose according to the applications needed.

Order No.	Suggested accessories
169920	Chemical Resistant Diaphragm Pumps C920Z -75 L/min-ultimate
	pressure < 8 mbar
169960	Chemical Resistant Diaphragm Pumps C960T -60 L/min-ultimate
109900	pressure < 2 mbar
SQEG034290	50 It evaporation vessel
SQEG034291	100 lt evaporation vessel
SQEG034292	20 lt evaporation vessel
SQEG036866	20lt receiving vessel
SQEG034294	1.43 m2 glass exchanger
SQFW039025	TROLLEY for evaporating flask mounting and dismounting
JUCG080963	Chiller FL 7006 Julabo $-20 \cdots +40^{\circ}$ C heating power 7 kWat 20° C , 1,55
10CG080303	kW at −20°C
JUCG078728	Chiller FL 11006 Julabo –20···+40°C heating power 11 kWat 20°C , 3
10000/0/20	kW at −20°C



Case study

Model	Collection rate	Chemicals	Cooling capacity	Chiller	Vacuum pump
ml/h			W		
		Toluene	5.2	RT5, F250, FL300	C410, C510
	50	Acetone	7.3	RT5, F250, FL300	C410, C510
	50	Absolute alcohol	11.4	RT5, F250, FL300	C410, C510
		Water	37.6	RT5, F250, FL300	C410, C510
		Toluene	10.4	RT5, F250, FL300	C410, C510
	100	Acetone	17.6	RT5, F250, FL300	C410, C510
	100	Absolute alcohol	22.8	RT5, F250, FL300	C410, C510
		Water	75.2	RT5, F250, FL300	C410, C510
		Toluene	26.0	RT5, F250, FL300	C410, C510
	250	Acetone	36.5	RT5, F250, FL300	C410, C510
	200	Absolute alcohol	57.0	RT5, F250, FL300	C410, C510
STRIKE280		Water	188.0	RT5, F250, FL300	C410, C510
STRIKE300	500	Toluene	52.0	RT5, F250, FL300	C410, C510
		Acetone	73.0	RT5, F250, FL300	C410, C510
		Absolute alcohol	114.0	RT5, F250, FL300	C410, C510
		Water	376.0	F500, FL601	C410, C510
		Toluene	104.0	RT5, F250, FL300	C410, C510
	1000	Acetone	176.0	RT5, F250, FL300	C410, C510
	1000	Absolute alcohol	228.0	RT5, F250, FL300	C410, C510
		Water	752.0	FL1701	C410, C510
	2000	Toluene	208.0	RT5, F250, FL300	C410, C510
		Acetone	252.0	RT5, F500, FL300	C410, C510
		Absolute alcohol	456.0	F500, FL601	C410, C510
		Water	1504.0	FL1701	C410, C510
		Toluene	624.0	FL1701	C610, C960T
	6000	Acetone	1056.0	FL1701	C610, C960T
	6000	Absolute alcohol	1368.0	FL1701	C610, C960T
		Water	4512.0	FL7006	C960T
		Toluene	1040.0	FL1701	C610, C960T
	10000	Acetone	1760.0	FL2503	C610, C960T
STRIKE20	10000	Absolute alcohol	2280.0	FL2503	C610, C960T
		Water	7520.0	FL11006	C960T
		Toluene	2080.0	FL2503	C610, C960T
		Acetone	2520.0	FL2503	C610, C960T
	20000	Absolute alcohol	4560.0	FL7006	C960T
		Water	15040.0	FL20006	C960T

Q =flow rate x heat of vaporization x density

Collecting 300 ml of methylene chloride in 30 minutes

1. Convert volume to weight: 300 ml x density of 1.33 g/ml = 399 g 2. Convert minutes to hours: 399 g in 30 min = 798 g/hr

4. Divide by 1000 to get Kcal: 71022 / 1.000 = 71,022 kcal/hr 5. Multiply by 1.16 to get Watts: 71,022 x 1.16 = 82 Watt

3. Multiply by the latent heat of vaporization: 798 g/hr x 89 cal/g = 71022 cal/hr

Add a security factor of at least 20% for loss of cooling capacity due to high ambient, long tubing, etc.: 82 x 1.2 = 98 Watt

Q = heat load in Watt flow rate: in ml/hour heat of vaporization: in Kcal/g

density: in g/ml

Example









Vacuum Pumps and Solvent Recovery Systems

Chemical Resistant Pumps - A Series

The new Chemical Resistant Diaphragm Vacuum Pump is Wiggens' most efficient, reliable and economical model to date, which can be widely used to hard acidic, basic and solvent vapors by utilizing corrosion proof PTFE on all the wet surfaces.

- > High chemical resistant
- > No air pollution, maintenance free
- > Quiet and low vibration
- > Thermal protection device
- $\,>\,$ International safety certification Ultimate Vacuum Down to 2 mbar
- > High Flow Rates Up to 40L/min
- > Easy Maintenance

Specifications

Model	A 410	A 510
Power	220-240V/50Hz	220-240V/50Hz
Max.powe(W)	95	245
Max.current(A)	0.6	1
Max.vacuum(mbar)	13	8
Max.Flow Rate(L/min)	25	40
Motor Speed(rpm)	1450	1450
Number of Stages	Double	Double
Outlet (mm)	10	10
Size WxDxH(mm)	230x155x173	290x190x210
Weiht(kg)	4.5	10
Noise Level(db)	50	60
Suitable for	STIRKE 280 /380	STIRKE 280 /380



Chemical Resistant Diaphragm Pumps - C Series

C series are chemical resistant diaphragm vacuum pumps which can be widely used to hard acidic, basic and solvent vapors by utilizing corrosion proof PTFE on all the wetted surfaces. Through innovative mechanical technology and human considerations, we have made Chemvak C series to be quiet, safe, maintenance-free and cost effective vacuum pumps.

High chemical resistant

All wetted parts of Chemvak C series pump are made of PTFE material which are ideal for extremely aggressive / corrosive gases and vapors.

No air pollution, maintenance free

Chemvak C series pumps are driven by Diaphragm, without the need of lubricant, regular oil changes and maintenance; with no oil pollution.

Quiet and low vibration

Driven direct by motor with no additional belt-driven transmission; the quality vibration-proof assembly makes Chemvak C series run at the lowest noise level among all other equivalent pumps.

Thermal protection device

Every motor of Chemvak C series pumps has a builtin thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down.

International safety certification CE certification, UL certification



Specifications

1							-
Model	C4	10	C5	510	C	C960T	
Powe	115V / 60Hz	220V / 50Hz	115V / 60Hz	220V / 50Hz	115V / 60Hz	220V / 50Hz	220V / 50Hz
Max. powe (W)	90	95	250	245	250	245	370
Max. current (A)	1.4	0.5	2.4	1.1	2.4	1.1	
Max. vacuum (mbar)	1	3	1	8	2	-4	<2
Max. Flow Rate (L/min)	25	25	41	34	37	37	60
Motor Speed (rpm)	1700	1450	1700	1450	1700	1450	1425
Number of Stages	Doi	uble	Doi	ubic	Do	Double	
Outlet (mm)	1	0	1	0	1	10mm	
Size WxDxH (mm)	294*1	56*195		56*226	380*171*226		420*270*240
Weight (kg)	8	.5	13	3.2	13.8		21.8
Noise Level (dB)	5	50		i0	60		50
Order No.	169	410		510	169	169980	
Suitable for	STIRKE 2	80/380	STIRKE 2	280 / 380	STIRKE 2	STIRKE 20 / 100	

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Solvent Recovery Systems

- > Sealed system to enable a good distillation environment
- > Precise control of the evaporation process
- > Compact and environmental friendly design
- > Low noise

CSH System

The inlet of the CSH System is connected to a segregation bottle, whereas the outlet is connected to a condenser, which is used to condensate and recover the solvent.

Model	CSH 410	CSH 510
Build in Pump Type	C410	C510
Power (W)	95	245
Ultimate Vacuum (mbar)	13	8
Max. Flow Rate (I/min)	25	34
Outlet Size (outer diameter in mm)	10	10
Order No.	900512	900513
Suitable for	STIRKE 280 / 380	STIRKE 280 / 380

CSH system contains

Chemical resistant diaphragm pump, Separator, Condenser, Set of tubing, Casing

CSC System

The inlet of the CSC System is connected to a segregation bottle, whereas the outlet is connected to a condenser, which is used to condensate and recover the solvent. In addition, the system contains a vacuum controller to set, display, and control the vacuum.

Fully automated vacuum generation system comprising Chemical resistant diaphragm vacuum pump, base plate, high performance condenser, segregation bettle, Vacuum control device, valves and control unit.

Model	CSC 410	CSC 510
Build in Pump Type	C410	C510
Power (W)	95	245
Ultimate Vacuum (mbar)	13	8
Max. Flow Rate (I/min)	25	34
Outlet Size (outer diameter in mm)	10	10
Order No.	900522	900523
Suitable for	STIRKE 280 / 380	STIRKE 280 / 380

CSC system contains

Chemical resistant diaphragm pump, Vacuum controller, Separator, Condenser, Set of tubing, Casing

P30 More informantion of vacuum pumps for Strike20 and Strike100

Vacuum controller

DVR Series High-precision vacuum controller

- > Large measurement and control range
- $\,>\,$ Supports the programming of up to 5-step control
- > All parts that come into contact with gases are made of PTFE or highly durable ceramic to ensure high chemical resistance
- > RS-232 and analog connection available
- > Direct electric control of the vacuum pump
- > Suitable for continuous operation

Model	DVR480 / DVR480-Pro	ST280	ST380
Voltage	100-240V, 50/60Hz	12VDC	12VDC
Displayed Vacuum Accuracy	0.1 mbar	1 mbar	1 mbar
Controllable Range	0.1~1000 mbar	1~1000 mbar	1~1000 mbar
Measurement Accuracy	0.25 level / 0.1 level	1 level	1 level
Display	LED	Display on the Strike 280	Display on the Strike 380
Control Mode	On-Touch	Controlled by Strike 280	Controlled by Strike 380
Timer / Program	Yes / Up to 5 Steps	-	-
Pressure Release Feature	Yes	No	No
Electrical Control of the Pump	Yes	Yes	Yes
Protection Category	IP40	IP40	IP40
Corrosion resistance		ntact with gases are made of F ous acid, base, or organic solve	TFE or highly durable ceramic to nt gases.

Note: CSC Solvent Recovery Systems already contains a vacuum controller.

ST280 / ST380 vacuum controller

the side of rotary evaporator

> The vacuum tube is not included.

> ST380 vacuum controller can be attached on

> Complete with valve (directly interfaced and

controlled by Strike 280 / Strike 380).

- > Direct electric connection
- > Ultimate vacuum range: 2 13 mbar
- > Flow rate range: 10 34 L/min







DVR 480 Series



Refrigerated & Heating Circulator

Working temperature rang -25 \sim +100°C

- > Easy to use. Set and go.
- > PID temperature control
- > Strong 1.5 kW heater for fast heat-up
- > 300 W of cooling power at +20 °C
- > External pump connections are standard
- $\,>\,$ Over temperature cut-off, adjustable within working temperature range
- > Float switch with cut-off feature for low liquid level protection
- $\,>\,$ Drain for easy emptying in the front
- > Can be used with water, water-glycol, conform to classification I, DIN 12876-1
- > Compressor based cooling in the entire working temperature range

Specifications

Order No.	Model	Working temp. range	Temp. stability	Heat. cap. Cooling capacity				Pump cap. Flow rate/		Bath opening/	Filling volume liters		
					(kW)					pressure		Bath depth	
		°C	°C	kW	20	10	0	-10	-20°C	L/min	bar	W×L/D cm	L
9VT1R05	RT5	-25~100	±0.05	1.5	300	280	220	170	70	10	0.23	12.5×11.5/19	4~6

Suitable for STIRKE 280 / STIRKE 380

Compact Recirculating Coolers

saving water, accurate temperature control, high efficiency condensing for Strike 380

Your advantages

- > Environmentally-friendly operation with low energy consumption
- > Compact design
- > Splash-proof membrane keypad with LED temperature display
- > Straightforward filling and draining
- > Filling level indicator
- > May be used with water, water/glycol, JULABO Thermal G

Specifications

JULABO	Model	Working temp. range	Temp. stability		Cooling	capacity	(kW)		Pump capacity Fl	ow rate/pressure	Filling volume liters	Suitable for
Order No.		°C	°C	20	10	5	0	-5	L/min	bar	L	
9 620 025	F250	-10~40	±0.5	0.25	0.22	0.21	0.18	0.09	15	0.35	1 .7~2.6	STIRKE 280 / 380
9 620 050	F500	0~40	±0.5	0.50	0.40	0.30	0.25	-	24	0.5	5~7.5	STIRKE 280 /380
9 620 100	F1000	0~40	±0.5	1.00	0.70	0.65	0.35	-	23	1.0	7~9.5	STIRKE 280 /380

FL Recirculating Coolers

Working temperature rang -20 \sim +40 °C

- > The compact FL models are suited for a wide variety of cooling tasks.
- > Installation under a lab bench saves valuable space.
- > Easy filling from above
- > Feed pressure indicator (FL1201 and above) and level indicator (all models)
- > Large compensation volume
- > Circulating pumps designed for continuous operation
- $\,>\,$ Permissible return temperature up to +80 $^\circ\!\mathrm{C}$
- > Low liquid level protection with visual and acoustic signals
- > May be used with water, water-glycol, thermal bath fluid
- > Overload protection for pump motor and cooling machine





Specifications

JULABO	Model	Working temp. range	Temp. stability		Cooling	capacity	(kW)		Pump capaci	ty Flow rate/pressure	Filling volume liters	Suitable for
Order No.			°C	20	10	0	-10	-20°C	L/min	bar	L	
9 660 003	FL300	-20~40	±0.5	0.3	0.25	0.2	0.15	0.1	15	0.35	3~4.5	STIRKE 280 /300
9 660 006	FL601	-20~40	±0.5	0.6	0.5	0.4	0.33	0.2	23	1.0	5.5~8	STIRKE 280 /300
9 661 012	FL1201	-20~40	±0.5	1.2	1.0	0.9	0.6	0.3	23	1.0	1 2~17	STIRKE 280 /300
9 661 017	FL1701	-20~40	±0.5	1.7	1.5	1.1	0.85	0.4	23	1.0	1 2~17	STIRKE 20
9 676 040	FL4006	-20~40	±0.5	4	2.9	1.9	0.9	0.05	60	0.26	24~30	STIRKE 20
9 666 070	FL7006	-20~40	±0.5	7	6.4	5.1	3	1.55	60	0.56	39~47	STIRKE 100
9 666 110	FL11006	-20~40	±0.5	11	9	7.5	5	3	60	0.56	39~47	STIRKE 100



