

SEITAL BRAND SEPARATION TECHNOLOGY - CLARIFIERS

Efficient and Cost-effective Clarification

IN THE WINE INDUSTRY



Seital Separation Technology

Efficient and cost-effective clarification of wine

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Current and evolving customer needs always come first at SPX FLOW. Through a close collaboration with our customers, an innovative approach and cutting-edge R&D we design, develop and deliver bestin-class separation solutions for the wine industry that provide superior quality and efficiency at the lowest possible cost.

GRAPE JUICE CLARIFICATION

In juice processing the real capacity of the clarifier mainly depends on the separable solids content in the juice, the requested clarification degree, and the maximum solids discharging capacity of the clarifier. The separable solids are evaluated by a lab centrifuge.



HYDRAULIC

CAPACITY gal/h (l/h)

670 (2,500)

1,330 (5,000)

2,380 (9,000)

3,970 (15,000)

6.610 (25.000)

7,930 (30,000)

9,250 (35,000)

10,570 (40,000)

18,500 (70,000)

23,780 (90,000)

JUICE CAPACITY

UP TO* gal/h (l/h)

270 (1,000)

530 (2,000)

530 (2,000)

1,590 (6,000)

2,910 (11,000)

3,440 (13,000)

3,440 (13,000)

5,820 (22,000)

6,610 (25,000)

6,610 (25,000)

Juice Clarifiers

MODELS

SE101EI

SE 111EI

SE 161EI

SE 201EI

SE 301EL

SE 401EI

SE 451EI

SE 501EI

SE 601EI

SE 701EL

FEATURES	BENEFITS	
Simple mechanical design and construction, easy to maintain	 Less maintenance time and cost 	
Mounted onto a compact pre-assembled skid	 Short installation time and cost saving. Easy movement inside winery lay-out 	
Standard motor and low energy consumption	 Environmentally friendly and lower cost of ownership 	
Low-noise	 Improvement on operator's working conditions 	
Hygienic fluid handling while processing	 Low contamination risk 	
Remote monitoring	 Operational diagnostics 	
Fast and precise discharge	 Low product losses 	
Automation and customization	 Effective process control 	
Hermetic design by mechanical seals	 No oxygen pick-up or CO₂ losses 	

WINE CLARIFICATION AFTER FERMENTATION

A wine is considered clear when there are no visible particles suspended in the liquid and, especially in the case of white wines, when there is a degree of transparency. A wine with too much suspended matter will appear cloudy and dull, even if its aroma and flavour are unaffected. Most wines are therefore clarified after fermentation. Clarification removes insoluble matter suspended in the wine. This matter can include dead yeast cells, bacteria, grape residue and various other compounds. Centrifugation is a quick and effective method of separating insoluble matter without impacting the quality of the wine.

MOTOR POWER HP

(kW)

5(4)

7.5 (5.5)

15 (9.2)

20 (15)

30 (22)

30/40 (22/30)

40 (30)

50 (37)

60/75 (45/55)

75/100 (55/75)

GENTLE AND EFFICIENT CLARIFICATION

SPX FLOW Seital brand series clarifiers are equipped with a special soft inlet feeding system for gentle product handling in order to minimize turbulence and product damage. A special hydraulic sealing feature also minimizes oxygen pick up. This makes Seital brand series clarifiers an excellent solution in the wine industry by helping processors achieve high levels of clarification and maintain the desired characteristics and properties of wine without product damage.

SPX FLOW Seital brand series clarifiers offer extremely high separation efficiencies due to their high centrifugal force and large separation capacities.

PROCESS

SPX FLOW Seital brand series clarifiers are used to remove and/or drastically reduce the content of solids and yeast.

In cases in which CO₂ losses must be absolutely avoided, the SPX FLOW Seital brand "H" hermetic clarifier with mechanical seals, should be used for greater clarifier separation efficiency.

* Solids content reduction: 3 - 3,5% v/v

WHITE WINES

Experience using an SPX FLOW Seital brand series clarifier in addition to an intermediate filter on some white wines has produced extremely high clarification levels similar to the results seen in a cross-flow filter process.

SPARKLING WINES

Clarification of sparkling wines must be performed using an SPX FLOW Seital brand "H" hermetic clarifier, with mechanical seals.

OTHER WINES

Excellent clarification results for all other wines can be achieved using an SPX FLOW Seital brand centrifugal clarifier for pre-clarification followed by a final filter for very fine clarification.

Wine Clarifiers

MODELS	HYDRAULIC CAPACITY gal/h (l/h)	WINE CAPACITY UP TO** gal/h (l/h)	MOTOR POWER HP (kW)
SE101EI	670 (2,500)	400 (1,500)	5 (4)
SE111EI	1,330 (5,000)	800 (3,000)	7.5 (5.5)
SE161EI	2,380 (9,000)	1,850 (7,000)	15 (9.2)
SE201EI	3,970 (15,000)	3,440 (13,000)	20 (15)
SE301EI	6,610 (25,000)	5,290 (20,000)	30 (22)
SE401EI	7,930 (30,000)	6,610 (25,000)	30/40 (22/30)
SE451EI	9,250 (35,000)	7,930 (30,000)	40 (30)
SE501EI	10,570 (40,000)	8,720 (33,000)	50 (37)
SE601EI	18,500 (70,000)	10,570 (40,000)	60/75 (45/55)
SE701EI	23,780 (90,000)	14,530 (55,000)	75/100 (55/75)

** The real clarifier capacity depends on the product characteristics and on the requested degree of clarification

ACCESSORIES

The following accessories are recommended in order to reduce product loss and enable total control of the clarification process:







Electro-pneumatic metering device











Feeding pump

QUALITY ENGINEERING AND

CONTROL

- Optimization of structural and dynamic design using advanced design technology
- Optimization of product fluid-dynamic ÷. with new vertical disk stack design
- Cutting-edge manufacturing and quality control systems

SERVICE AND EXPERTISE

Service and support for maximum output

- Maintenance and troubleshooting avoid costly downtime
- Rapid delivery of original spare parts - reliability for longer service life
- Remote monitoring - fast problem solving

Knowledge partnership to keep you ahead

- Application testing and process optimization - higher revenues at lower cost
- R&D expertise new product development addressing evolving demand
- Operator training greater efficiency, . minimize human error









Efficient and costeffective clarification in the wine industry

SPXFLOW



Based in Charlotte, North Carolina, SPX FLOW, Inc. (NYSE: FLOW) is a multi-industry manufacturing leader. For more information, please visit www.spxflow.com

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