anhydro
AN SPX BRAND

Anhydro Small Scale Spin Flash Type SFD-51

The SFD 51 is designed to carry out large scale testing and small-scale production at high temperatures.

Equipment Supply, Basic Plant

- Feed vat with agitator
- Feed screw
- Air intake filter, direct gas heater for main air, and hot air duct
- Drying chamber with classifier
- Cartridge filter with rotary valve
- Fan and ducts
- Control panel with PLC, graphical soft-touch colour screen and data-logging facility
- Support structure

Optional Equipment

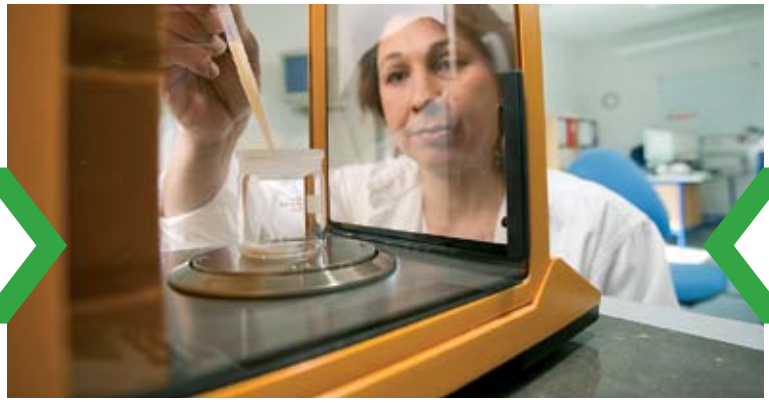
- Peristaltic feed pump
- Nozzle atomizer
- Cyclone
- Electrical heater
- Rupture disk for filter

Other versions

- Closed Circuit version
- Easy Clean Version

SPX®

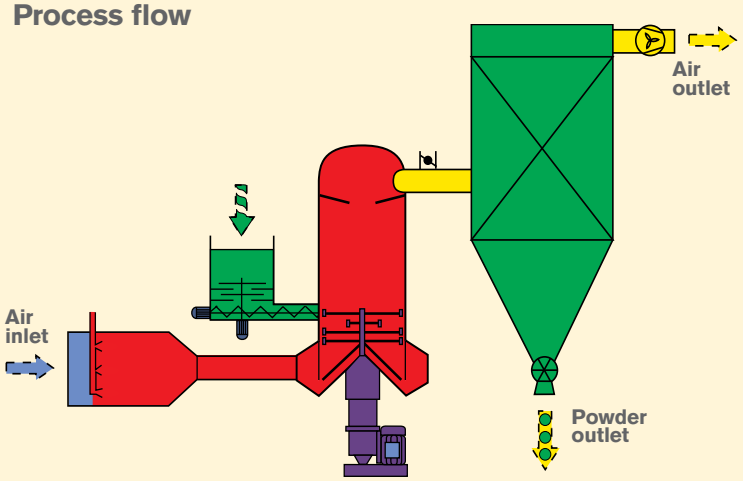
anhydro
AN SPX BRAND



The Anhydro Spin Flash Dryer, Type SFD-51 is based on the unique drying concept developed and patented by SPX.

The dryer is designed for large-scale testing and small-scale production. The plant is a standardised and complete stainless steel unit which includes the core drying plant, platforms and supports, PLC control system with a LCD colour screen, safety system, cabling and wiring, packing, and full documentation. Spin Flash Dryers are designed for continuous drying of viscous pastes, slurries and filter cakes and is generally considered a very economical drying process compared to e.g. spray drying.

Process flow



Technical data

Process Design Data:

Floor space	4.60x3.30 m
Height, basic plant	3.92 m
Recommended free height	5.50 m
Shipping volume	14 m3 (plant) 20 m3 (filter)
Weight, Net (plant)	1350 kg
Weight, Net (filter)	800 kg

Power

Power supply	3 x 400 V V+N+PE, 50 cycles
Suction fan	6.0 kW
Chamber rotor	3.0 kW
Feed screw	1.5 kW
Feed vat agitator	1.1 kW
Rotary valve	0.55 kW

Consumption data

Gas	0-10 N m3/h (0,5-1,0 bar)
Compressed air, max.	25 Nm3/h (5-6 bar)

Capacity

Water evaporation rate	120 kg/h (500/90 °C)
Max. inlet air temperature	500 °C
Air flow, controlled	1000 m3/h
Air flow, Max	1200 m3/h

Pressure

Shock resistance, plant	10 bar (g)
Shock resistance, filter	1 bar (g)
	approx. 85 db (A)

Noise emission

Noise emission, approx.:	85 dB(A)

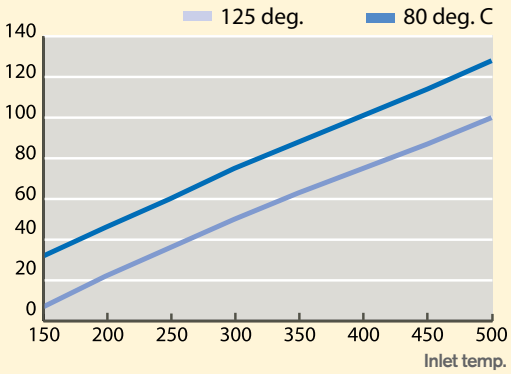
Materials

Hot air parts	AISI 321
Product Contact Parts	AISI 316
External surfaces	AISI 304

CE mark

CE mark	ACC. to EU regulations
Quality Assurance	ISO 9001

Water evaporation



SPX Flow Technology Danmark A/S
7 Oestmarken
DK-2860 Soeborg
Denmark
Phone +45 7027 8222 Fax: +45 7027 8223

www.spxft.com

Issued: October/2010

SPX®