



# AGITATED NUTSCHE FILTER & DRYER

# About **AMAR**

**Serving Industry Since 1974**

**New 50000 sqft state-of-the-art manufacturing facility**

**Pioneer & largest manufacturer of lab scale ANFD in India**

**Inline with government's MAKE IN INDIA campaign**

**Unmatched quality & safety standards**

**ISO, CE-PED, ASME U, CSA, UL, Ex-Proof, ATEX certification**

**Prompt & efficient after sales service**

**Highly skilled & trained team of more than 200 personnel**



### **Rotation**

- High torque bidirectional motor
- RPM controller & current indicator

### **Manual agitator up / down**

- Effortless up / down adjustment of agitator for drying

### **Agitator mechanical seal**

- Vacuum and pressure rated

### **Agitator system**

- Easily removable
- Adjustable height
- Provides smoothing & plowing in CW and CCW respectively

### **Jacketted vessel, lid & filter basket**

- Heating / Cooling jacket for drying and cooling of cake
- Easily removable basket for dry or wet cake collection

### **Standard nozzles**

- Slurry inlet / CIP / N<sub>2</sub> Purging, Vent
- Light & sight glass
- Compound pressure gauge

### **Vacuum / filtrate outlet nozzle**

- To connect to vacuum pump through vacuum trap during contact & convective drying in parallel



# AGITATED NUTSCHE FILTER AND DRYER



## SALIENT FEATURES

- 0.005 m<sup>2</sup> to 0.20 m<sup>2</sup> filtration area
- 1 ltr to 100 ltr slurry volume
- Design pressure: -1 to 4 bar
- Design Temperature: - 20 to 150° C
- Materials: SS316, Hastelloy C, Inconel etc.
- Removable filter basket / disc size from 5 µm to 20 µm
- Transport & separation process takes place in single unit

- Reduced product exposure as all operation takes place in single unit
- Real-time model-predictive process control for the comparison of different agitation regimes & different operating conditions such as vacuum, pressure, nitrogen flow, jacket temperature & cake volume, together with comparison of different solvents
- Vacuum contact drying & through-circulation convective drying possible

## APPLICATIONS

- Pharmaceutical Intermediates
- Food, flavors & fragrance industry
- Edible oil deodorization & deacidification
- Hazardous materials filtration
- Moisture removal & solvent recovery

- Precious metal & other catalyst recovery
- Fine & speciality chemicals
- Polymer devolatilization
- Microsphere separation & purification

## STANDARD SPECIFICATIONS

Model*	Filter area	Slurry volume	Cake volume
ANFD 1	0.005 m <sup>2</sup>	1 ltr	500 ml
ANFD 2	0.008 m <sup>2</sup>	2 ltr	800 ml
ANFD 5	0.02 m <sup>2</sup>	5 ltr	2 ltr
ANFD 10	0.05 m <sup>2</sup>	10 ltr	5 ltr
ANFD 25	0.07 m <sup>2</sup>	25 ltr	8 ltr
ANFD 50	0.13 m <sup>2</sup>	50 ltr	18 ltr
ANFD 100	0.20 m <sup>2</sup>	100 ltr	32 ltr

\*Numeric value indicates slurry volume



## AMAR EQUIPMENT PVT. LTD.

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