



**ENGINEERING WITH INNOVATIVE IDEAS...**

# **AGITATED NUTSCH FILTER/DRYER (ANFD)**



**SHIV SHAKTI**  
**PROCESS EQUIPMENT PVT.LTD**

# AGITATED NUTSCH FILTER/DRYER (ANFD)

## FEATURES

- Multiple Processes like Solid Liquid Separation, Agitating / Washing, Resuspending / Mixing Extraction, Crystallizing, Drying can be performed within a closed system
- Ideal equipment/system for hazardous / toxic material
- Various multiple processes as above can be carried in single equipment an added advantage
- Removable filter bottom with conventional clamps or bayonet locking system
- Heated/unheated agitator, agitator with two or three arms, with simultaneous axial and radial agitator movements for efficient mixing and agitating as well as for the smoothing of the cake
- Large heating area resulting in an outstanding heat transfer rate by heating the vessel walls, the vessel bottom as well as the agitator blades
- Multiple washing of filter cake feasible with different solvents/washing fluids possible with Lesser liquid consumption
- All Dryer Internals, product process area is in 316 / 316L, stainless steel construction, Mirror polish
- Sturdy welded external shell reinforcement ensures maximum operating protection and
- Dependability under full vacuum operation
- Heated Limpet Coiled/ Jacket in combination with vacuum atmosphere ensures complete Vaporization of moisture and drying of product
- Validation ports and nitrogen purge nozzles provided
- Vapor condensation unit along with a receiver for solvent recovery
- PLC based automation of process batch control, with printable option
- Full validation services available including DQ, IQ/OQ, FAT / SAT protocols
- cGMP construction for Pharmaceutical Models



## OPTIONAL FEATURES

- Heel removal, CIP, SIP system can be provided
- PLC controlled system can be provided
- Online Sampling Valve / port can be provided

## MOC

- All Stainless Steel/Hastelloy construction with Contacts / vapor parts in 304/316/316L built to custom requirement
- All Process contact surfaces finished with corrosion-resistant fluoro-polymer coatings such as Teflon, Halar, etc

## TECHNICAL SPECIFICATIONS

MODEL	Filtration Area	Working Volume	Cake Holding Volume Max	Vessel ID	Vessel Height	Agitator Stroke Max	Discharge Valve Dia	Agitator RPM	Motor Load
UNIT	SQ.M	Liters	Liters	MM	MM	MM	MM	RPM	KW
SS / ANFD - 10	0.04	10	3	220	330	80	50	15 - 120	1.5
SS / ANFD - 25	0.07	25	8	300	450	120	65	12 - 120	2.2
SS / ANFD - 50	0.10	50	17	380	570	150	65	8 - 80	3.0
SS / ANFD - 100	0.20	100	32	500	550	175	150	5 - 50	4.0
SS / ANFD - 200	0.32	230	80	640	720	250	200	7 - 75	4.0
SS / ANFD - 250	0.38	280	115	700	750	300	200	7 - 70	5.5
SS / ANFD - 350	0.50	400	150	800	800	300	200	6 - 60	5.5
SS / ANFD - 500	0.70	640	210	955	900	300	200	5 - 46	7.5
SS / ANFD - 750	0.85	770	340	1050	900	400	250	4 - 40	7.5
SS / ANFD - 1000	1.26	1140	505	1270	900	400	250	4 - 37	11.0
SS / ANFD - 1500	1.50	1500	750	1380	1000	500	250	3 - 30	15.0
SS / ANFD - 2000	2.0	2000	1000	1600	1000	500	350	3 - 30	18.5
SS / ANFD - 2500	2.50	2500	1250	1800	1000	500	350	3 - 25	18.5
SS / ANFD - 3000	3.0	3000	1500	1960	1000	500	350	3 - 25	22
SS / ANFD - 4000	4.0	4000	2000	2260	1000	500	350	2 - 21	22
SS / ANFD - 5000	5.0	5000	2500	2535	1000	500	350	2 - 18	30
SS / ANFD - 6000	6.0	6000	3000	2765	1000	500	350	2 - 17	30
SS / ANFD - 7000	7.0	7000	3500	3000	1000	500	450	2 - 16	37
SS / ANFD - 8000	8.0	8000	4000	3190	1000	500	450	2 - 15	37
SS / ANFD - 9000	9.0	9000	4500	3390	1000	500	450	2 - 15	45
SS / ANFD - 10000	10.0	10000	5000	3570	1000	500	450	2 - 14	45
SS / ANFD - 12000	12.0	12000	6000	3910	1000	500	450	1 - 12	55

Note: Constant Development may induce changes in design / specification prior to notice.



## Manufacturers & Exporters

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