

# FILTRODRY FPP/SD

## FEATURES

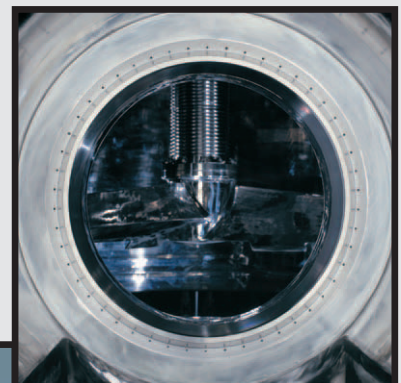
- Nutsche pressure filter-dryer
- Recommended for: pressure filtration, "re-slurry" washing, smoothing and displacement washing, vacuum drying, product discharge
- Includes: removable flat bottom flanged to the cylindrical vessel, filter media, heated agitator designed with special teeth able to optimize the smoothing of the cake, vacuum drying and product discharge without incurring any mechanical damage to the product, double mechanical seal, dust filter, side mounted discharge port, CIP washing system for all of the internal contact surfaces

## OPTIONS

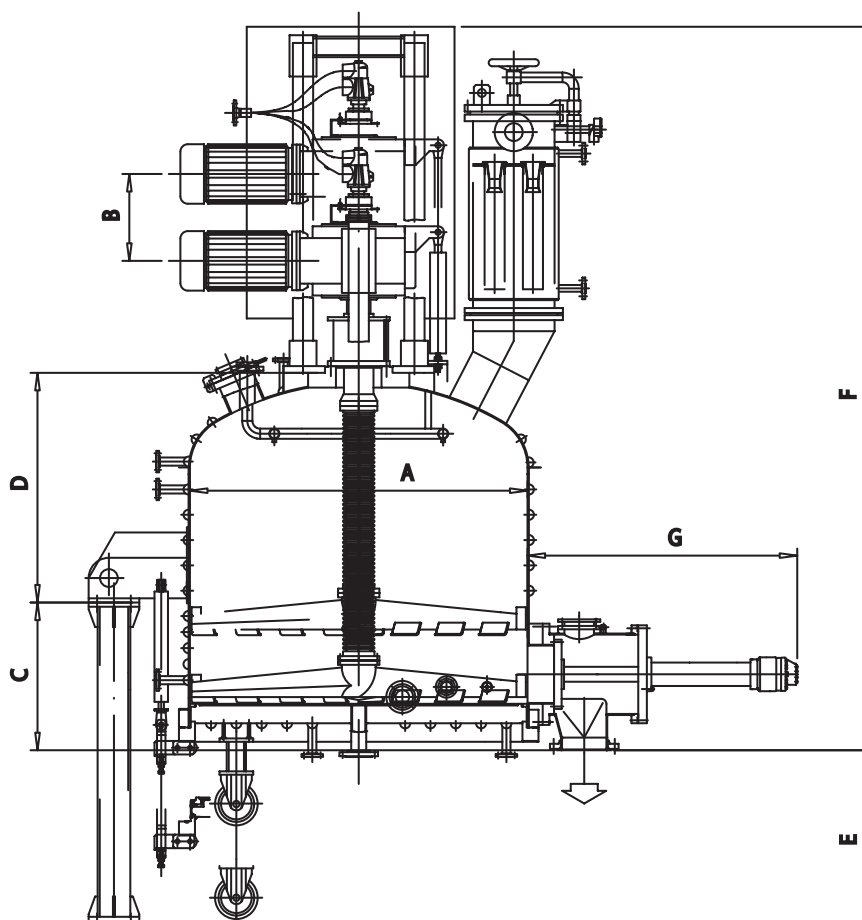
- Available filter surface areas up to 15 m<sup>2</sup>
- Agitator with straight or "S" shaped paddles, in two or three-armed designs
- Bottom flange with C-clamps or hydraulic bayonet closure
- Mono or multilayer sintered filter media
- Double mechanical seal wet, dry or "lift-off"
- Side mounted discharge port with an O-ring, metal-to-metal or "reverse" seal
- Dust filter media in Gore-Tex or multilayered sintered metal
- Available in chemical, pharmaceutical and sterile versions
- Vacuum, solvent recovery, heating & cooling, inerting systems
- PLC automation systems
- Material in contact with the product: 316 L Stainless Steel, SAF 2205, Uranus B6, Hastelloy C 22, Titanium and many more



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# FILTRODRY FPP/SD



	Filter surface m <sup>2</sup>	Slurry volume m <sup>3</sup>	A mm	B mm	C mm	D mm	E mm	F mm	G mm
<b>FPP/SD 020</b>	0,20	0,15	500	200	610	530	785	2415	1000
<b>FPP/SD 030</b>	0,28	0,21	600	200	590	630	785	2495	1250
<b>FPP/SD 038</b>	0,38	0,27	700	250	520	700	785	2495	1250
<b>FPP/SD 050</b>	0,50	0,48	800	300	540	950	900	2965	1250
<b>FPP/SD 100</b>	1,13	1,29	1200	400	725	1085	970	3510	1630
<b>FPP/SD 150</b>	1,53	1,68	1400	400	725	1085	970	3530	1630
<b>FPP/SD 200</b>	2,00	2,14	1600	400	725	1110	1040	3625	1630
<b>FPP/SD 250</b>	2,54	2,58	1800	400	725	1110	1100	3680	1630
<b>FPP/SD 300</b>	3,14	3,28	2000	400	725	1190	1080	3745	1630
<b>FPP/SD 400</b>	4,15	3,93	2300	400	725	1220	1110	3790	1630
<b>FPP/SD 500</b>	5,30	6,58	2600	500	825	1500	1310	4475	1630
<b>FPP/SD 600</b>	6,15	7,39	2800	500	825	1510	1350	3525	1630
<b>FPP/SD 800</b>	8,00	9,17	3200	500	825	1550	1430	4587	1630
<b>FPP/SD 1000</b>	10,17	10,79	3600	500	825	1580	1430	4617	1630



## FILTRODRY FPP/XD

### FEATURES

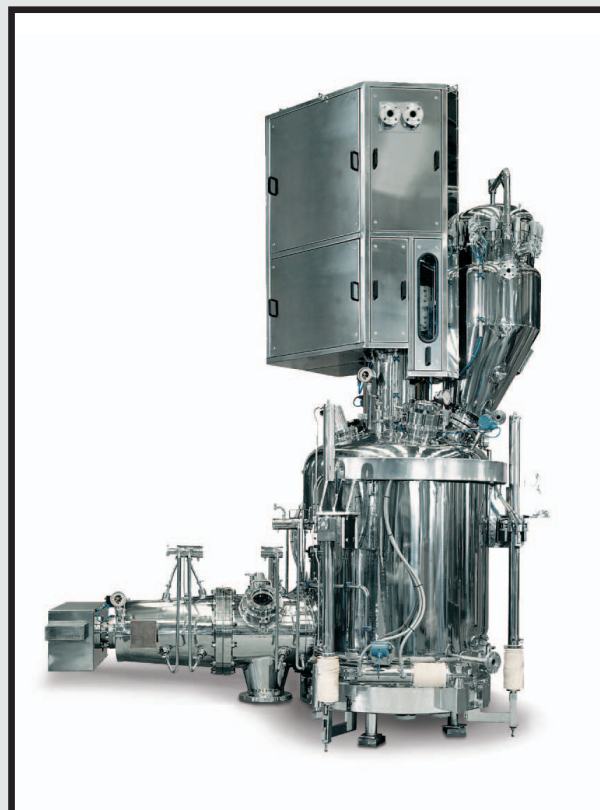
- Nutsche pressure filter-dryer
- Recommended for: pressure filtration, "re-slurry" washing, smoothing and displacement washing, vacuum drying, product discharge
- Includes: removable flat bottom flanged to the cylindrical vessel, filter media, special four armed heated agitator, double mechanical seal, dust filter, side mounted discharge port, CIP washing system for all of the internal contact surfaces
- Special four-armed agitator that doubles the net effective heat surface area in contact with the product, which is designed to optimize the smoothing phase and the product discharge without incurring any mechanical damage to the product
- 50% reduction in drying time compared to the normal two-armed design
- Validated CIP



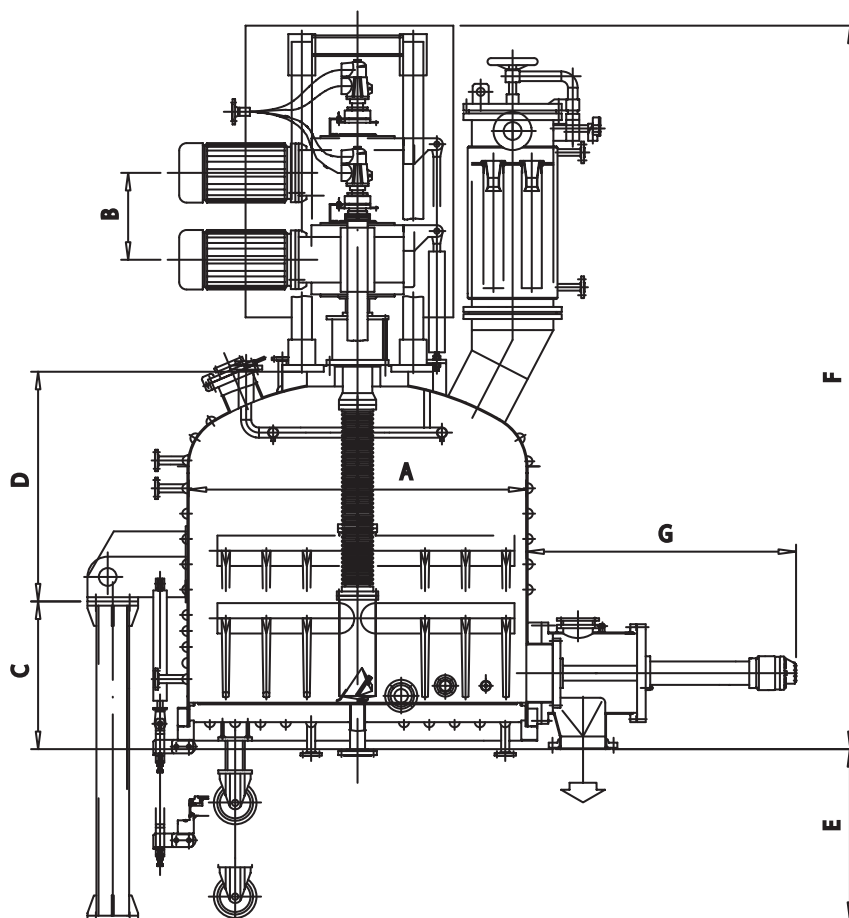
### OPTIONS

- Available filter surface areas up to 10 m<sup>2</sup>
- Includes all the options of the FILTRODRY FPP/SD
- Available in chemical, pharmaceutical and sterile versions
- Material in contact with the product: 316 L Stainless Steel, SAF 2205, Uranus B6, Hastelloy C 22, Titanium and many more

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# FILTRODRY FPP/XD



	Filter surface m <sup>2</sup>	Slurry volume m <sup>3</sup>	A mm	B mm	C mm	D mm	E mm	F mm	G mm
<b>FPP/XD 030</b>	0,28	0,27	600	200	770	350	800	2495	1250
<b>FPP/XD 038</b>	0,38	0,35	700	250	720	500	800	2495	1250
<b>FPP/XD 050</b>	0,50	0,61	800	300	740	750	900	2965	1250
<b>FPP/XD 100</b>	1,13	1,71	1200	400	975	1220	1000	3915	1630
<b>FPP/XD 150</b>	1,53	2,25	1400	400	975	1220	1000	3935	1630
<b>FPP/XD 200</b>	2,00	2,93	1600	400	975	1225	1050	3990	1630
<b>FPP/XD 250</b>	2,54	3,58	1800	400	1025	1205	1100	4075	1630
<b>FPP/XD 300</b>	3,14	4,51	2000	400	1025	1240	1150	4125	1630
<b>FPP/XD 400</b>	4,15	5,42	2300	400	1055	1400	1150	4330	1630
<b>FPP/XD 500</b>	5,30	9,19	2600	500	1145	1670	1350	4995	1630
<b>FPP/XD 600</b>	6,15	10,35	2800	500	1165	1680	1400	5065	1630
<b>FPP/XD 800</b>	8,00	13,03	3200	500	1285	1600	1500	5187	1630
<b>FPP/XD1000</b>	10,17	15,37	3600	500	1335	1600	1500	5237	1630



## XTRACT-1 FULL DISCHARGE SYSTEM

### MAIN FUNCTIONS

#### Phase 1

The agitator rotation pushes the product towards the discharge valve.

Once in the valve, the product is fluidized in a gas stream and pneumatically conveyed into a cyclone – dust filter, in which the solids and conveying gases are separated.

When the agitator no longer touches the residual product heel, this phase is complete.

#### Phase 2

The spray nozzles mounted in the top head of the vessel are activated, energetically blowing on the bottom, fluidizing the residual product heel and making it available to be removed as part of the pneumatic transfer. It is possible to discharge 100% of the product left on the bottom of the vessel.



### FEATURES

The main components are:

- A ring with special spray nozzles is installed in the head of the vessel. The ring never comes in direct contact with the slurry or the solid
- A special solids discharge plug valve mounted flush to the internal vessel wall and tangentially to the bottom of the vessel; the valve can be sterilized and washed
- A cyclone – dust filter

The project, wherever necessary, takes into account all of the pharmaceutical applications and requirements, including: operational safety measures, GMP construction, cleaning in place (CIP), prevention of operator exposure and/or contamination of the product, sterilization.

Xtract-1 is being used on a vast number of applications.

### OPTIONS

- Available on vessels from 0,2 to 16 m<sup>2</sup> filter surface area
- Vacuum or pressurized systems

## XTRACT-1 FULL DISCHARGE SYSTEM

### ADVANTAGES

- Complete cake removal
- Elimination of all normal problems related to usual gravity discharge.
- The product can be discharged over considerable distances from the installed unit, with the possibility to cross over physical barriers, such as walls, floors and ceilings.
- Automatic discharge, without manual intervention or operator exposure, in short periods of time.
- Retrofitting on existing machines available
- Pilot trials available

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