

3VT, A128XR

Технические характеристики

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Pneumatic Conveyors Machines for Pharmaceutical and Food

PCM is a range of pneumatic conveyors for pharmaceutical or food applications.They have been designed to convey fine powders, tablets or empty capsules, and are typically used during the production processes, to feed continuously process machines such as tablet press or capsule filling machine.

3VT is a conveyor for fine powders that uses the vacuum to transfer a certain quantity of material and feed continuously process machines.

The Vacuum unit is a vane pump, which allows to avoid material segregation during transport, moreover, the high vacuum level generated by the pump, allows to convey the material in a dense phase, while high vacuum and low airflow, eliminate the risk of segregation of mixtures.

The cover of the motor is equipped with wheels and becomes a trolley which can be easily moved, and can be installed also far from the 3VT hopper without affecting the conveyance performance.

3VT can be equipped with motor downstream HEPA filter so to avoid contamination of the working enviroment (it filters the exhaust air of the motor) and in case of hazardous dust, it is possible choosing the hopper with rigid connection with a tri-clamp 4" at the discharge point and with HEPA filter also for the exhaust air. With this solution it is possibile to perfectly connect the 3VT hopper to the vessel of the process machines.

All these solutions, are available even for use in ATEX classified zone Z22.



Picture shown may not represent model quoted

- Designed to respect the restrictive specification of pharmaceutical sector.
- The electric motors and the low compressed air consumption grant the lowest TCO possible for the job the machines are designed for.
- Top level of safety and hygiene due to HEPA filters, the downstream one to protect the enviroment, and the upstream to protect motors.
- Also available HEPA at the discharge point (for the version with interface tri-clamp 4" at the discharge)
- The filter inside the 3VT hopper is also available in fully stainless steel so to be easily sanitized in autoclave.
- Electric motors can be also installed outside of production area due to modular trolleys.

• Standard equipment

• Standard equipment

Model	F_3VT22XXC	3VT22XXC Z22	3VT22XXC AD Z22
Ref. no.	4531700017	4531700023	4531700173

PRODUCT FEATURES

ATEX hazardous TYPE 22 approval		•	•
Downstream HEPA filter			•
Discharge with Tri-clamp			
Discharge filter			
Discharge sleeve	•	•	•
Level sensor	•	•	•
Autoclavable filter			
Stainless steel filter (5 micron)			
Antistatic PTFE Filter CLASS M		•	•
PTFE Filter CLASS M	•		



Pneumatic Conveyors Machines for Pharmaceutical and Food

Model	3VT22XXC SPECIAL	3VT22XXC SPECIAL	3VT22XXC SPECIAL
Ref. no.	4531700440	4531700445	4531700448

PRODUCT FEATURES

ATEX hazardous TYPE 22 approval

Downstream HEPA filter	•	•	•
Discharge with Tri-clamp	•	•	•
Discharge filter	•	•	•
Discharge sleeve			
Level sensor	•	•	•
Autoclavable filter	•	•	•
Stainless steel filter (5 micron)	•	•	•
Antistatic PTFE Filter CLASS M			
PTFE Filter CLASS M			

Technical specifications	F_3VT22XXC	3VT22XXC Z22	3VT22XXC AD Z22
Voltage (V)	460V 3 phase	460V 3 phase	460V 3 phase
Frequency (Hz)	50	50	50
IP protection class	IP54	IP54	IP54
Rated power (kW)	0.55	0.55	0.55
Air pressure (bar)	4-6	4-6	4-6
Airflow (m³/h)	16	16	16
Max. vacuum (kPa - mbar)	74 - 740	84 - 840	74 - 740
Sound pressure level (dB(A))	61	61	61
Max batch per cycle (L)	6	6	6
Filter area (cm²)	1200	1020	1020
Level sensors n°	-	-	-
Inlet (mm)	30	30	30
Length x width x height (cm)	450x1015x3050	450x1015x3050	450x1015x3050
Weight (kg)	78	78	78
Current draw, rated (A)	2.2	2.2	2.2
Conveying capacity (kg/h)	300	300	300
Filter type	Cartridges CLASS M PTFE FDA/1935	Cartridges CLASS M PTFE ANTISTATIC	Cartridges CLASS M PTFE ANTISTATIC
Hopper Ø (mm)	220	220	220
Discharge Type	Pneumatic piston	Pneumatic piston	Pneumatic piston
Fixing method	Rigid pole	Rigid pole	Rigid pole



Pneumatic Conveyors Machines for Pharmaceutical and Food

Technical specifications	3VT22XXC SPECIAL	3VT22XXC SPECIAL	3VT22XXC SPECIAL
Voltage (V)	240V 3 phase	120V single phase	460V 3 phase
Frequency (Hz)	60	60	60
IP protection class	IP54	IP54	IP54
Rated power (kW)	0.7	0.66	0.7
Air pressure (bar)	4-6	4-6	4-6
Airflow (m³/h)	19	19	19
Max. vacuum (kPa - mbar)	74 - 740	74 - 740	74 - 740
Sound pressure level (dB(A))	61	61	61
Max batch per cycle (L)	6	6	6
Filter area (cm²)	150	150	150
Level sensors n°	Yes	Yes	Yes
Inlet (mm)	30	30	30
Length x width x height (cm)	450x1015x3050	450x1015x3050	450x1015x3050
Weight (kg)	82	82	82
Current draw, rated (A)	3.9	10.4	2.25
Conveying capacity (kg/h)	300	300	300
Filter type	Stainless Steel Cartridges	Stainless Steel Cartridges	Stainless Steel Cartridges
Hopper Ø (mm)	220	220	220
Discharge Type	Pneumatic piston	Pneumatic piston	Pneumatic piston
Fixing method	Tri-clamp 4"	Tri-clamp 4"	Tri-clamp 4"

● Standard equipment, ○ Supplementary accessories, □ Mountable equipment

Accessories		Ref. no.	Min. required	F_3VT22XXC	3VT22XXC Z22	3VT22XXC AD Z22
Piping						
	F_SLEEVE D120 X 230 MOD.3VT22X	Z58 17117	1	○	○	○
Filter						
	ABSOLUTE FILTER D150X170 H14	Z8 17262	1	○	○	○
	CARTRIDGE D68X60 3VT PTFE ANTISTATIC	4583300388	1	○	○	○
	CARTRIDGE SPARE PART FC60 D.70X100 16MC	Z58 17390	1	○	○	○
Hose Vacuum Cleaner						
	F_TUBE D30 ATOXIC ANTISTATIC IN METERS	Z7 24054	1	○	○	○



Pneumatic Conveyors Machines for Pharmaceutical and Food

● Standard equipment, ○ Supplementary accessories, □ Mountable equipment

Accessories		Ref. no.	Min. required	3VT22XXC SPECIAL	3VT22XXC SPECIAL	3VT22XXC SPECIAL
Piping						
	F_SLEEVE D120 X 230 MOD.3VT22X	Z58 17117	1	○	○	○
Filter						
	ABSOLUTE FILTER D150X170 H14	Z8 17262	1	○	○	○
	CARTRIDGE D68X60 3VT PTFE ANTISTATIC	4583300388	1	○	○	○
	CARTRIDGE SPARE PART FC60 D.70X100 16MC	Z58 17390	1	○	○	○
Hose Vacuum Cleaner						
	F_TUBE D30 ATOXIC ANTISTATIC IN METERS	Z7 24054	1	○	○	○



Single phase conveyor for dry and granular material as production machine feeder

The single phase production machine feeder is a compact "all in one" system to move material as dry powder or granular directly from customer container to packaging or production process.

The single phase conveyor is a complete unit, built in 3 different size and volume in D 220, D280, D360 mm for a total of 15 versions. The motor has a power of 1.000 Watt and is located on the top of the Stainless Steel AISI 304 material hopper. Standard machines are equipped with cartridge filter that can be cleaned by compressed air purge system; also available are bag filter or cartridge filter without the cleaning system. Food tested filter are available. The managment of the system is controlled by a SIEMENS Logo mounted on the hopper. The preferred position for the installation is to apply the single phase conveyor on customer machine lid by flange or customer hopper by additional feed included in the accessories kit. All the variants discharge the material by gravity through a flap. A level indicator mounted downstream on the discharge interrupt the material feeding automatically when the maximum level in the customer machine is reached and start again when more material is requested.

**conveying capacity indicated in the tech specs tab is referred to 3 m x 3 m by material kg/L*



Picture shown may not represent model quoted

- Convey granular food or non food material from customer containment to production or packaging machine.
- Move material in perfect hygienic conditions.
- Avoid physical afford to the operators.
- Maintain the Quality of the product
- Available in a lot of different versions to match the applications.
- In stainless steel AISI 304.
- Easy to install and to start up.
- Complete units with accessories kit.
- Economic solution for food application.

• Standard equipment

• Standard equipment

Model	F_A128XRF	A136X	A128XR
Ref. no.	4511700005	4511700006	4511700010

PRODUCT FEATURES

Single-phase	•	•	•
Filter bag		•	
Automatic filter cleaning	•		•
Stainless steel filter chamber	•	•	•
Automatic stopping for solids	•	•	•



Single phase conveyor for dry and granular material as production machine feeder

Model	F_A128XR SPECIAL
Ref. no.	4511700013

PRODUCT FEATURES

Single-phase	•
Filter bag	
Automatic filter cleaning	•
Stainless steel filter chamber	•
Automatic stopping for solids	•

Technical specifications	F_A128XRF	A136X	A128XR
Voltage (V)	230	230	230
Frequency (Hz)	50 - 60	50 - 60	50 - 60
Rated power (W)	1000	1000	1000
Airflow without hose (l/sec.)	45	45	45
Vacuum max (kPa)	21.5	21.5	21.5
Sound pressure level (dB(A))	74	74	74
Hopper material	INOX 304	INOX 304	INOX 304
Hopper volume (l)	8	16	8
Main filter type	cartridge	bag	cartridge
Main filter area (cm²)	7500	15000	7500
Hose length (m)	3	3	3
Hose diameter Ø (mm)	40	50/40	40
Inlet (mm)	40	50	40
Length x width x height (mm)	300x300x730	300x300x830	300x300x730
Weight (kg)	14	14	14
Conveying capacity (kg/h)	200-300	350	200-300

Technical specifications	F_A128XR SPECIAL
Voltage (V)	230
Frequency (Hz)	50 - 60
Rated power (W)	1000
Airflow without hose (l/sec.)	45
Vacuum max (kPa)	21.5
Sound pressure level (dB(A))	74
Hopper material	INOX 304
Hopper volume (l)	8
Main filter type	cartridge
Main filter area (cm²)	7500






Single phase conveyor for dry and granular material as production machine feeder

Technical specifications


F_A128XR
SPECIAL

Hose length (m)	3
Hose diameter Ø (mm)	40
Inlet (mm)	40
Length x width x height (mm)	300x300x730
Weight (kg)	14
Conveying capacity (kg/h)	200-300

● Standard equipment, ○ Supplementary accessories, □ Mountable equipment



Accessories	Ref. no.	Min. required	F_A128XRF	A136X	A128XR
Vacuum Hose and Connection					
	CONNECTION TUBE D50 FE	Z7 21003	1	○	○
	F_TUBE SING.TUBE PROBE D50 INOX	Z57 22161	1	○	○
	TUBE SING.TUBE PROBE D40 INOX	Z57 22160	1	○	○
Option					
	FOOT FEEDER D280/220	Z58 18198	1	○	○
Extension Tube					
	EXTENSION FOOT FEEDER	Z58 18201	1	○	○
Accessory Kit					
	F_KIT OF ACC X S51TDA128XR	ZS58TD24014	1	○	○
	KIT ACCESSORIES A36XR	Z58 24091	1	○	○
	KIT ACCESSORIES A122/A128	Z58 24090	1	○	○
Hose Vacuum Cleaner					
	F_TUBE D40 ATOXIC ANTISTATIC IN METERS	Z7 24028	1	○	○
	F_TUBE D50 ATOXIC ANTISTATIC IN METERS	Z7 24029	1	○	○

● Standard equipment, ○ Supplementary accessories, □ Mountable equipment

Accessories	Ref. no.	Min. required	F_A128XR SPECIAL
Vacuum Hose and Connection			
	CONNECTION TUBE D50 FE	Z7 21003	1 ○



Single phase conveyor for dry and granular material as production machine feeder

Accessories		Ref. no.	Min. required	F_A128XR SPECIAL
	F_TUBE SING.TUBE PROBE D50 INOX	Z57 22161	1	○
	TUBE SING.TUBE PROBE D40 INOX	Z57 22160	1	○
Option				
	FOOT FEEDER D280/220	Z58 18198	1	○
Extension Tube				
	EXTENSION FOOT FEEDER	Z58 18201	1	○
Accessory Kit				
	F_KIT OF ACC X S51TDA128XR	ZS58TD24014	1	○
	KIT ACCESSORIES A36XR	Z58 24091	1	○
	KIT ACCESSORIES A122/A128	Z58 24090	1	○
Hose Vacuum Cleaner				
	F_TUBE D40 ATOXIC ANTISTATIC IN METERS	Z7 24028	1	○
	F_TUBE D50 ATOXIC ANTISTATIC IN METERS	Z7 24029	1	○

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