



High vacuum guide

FOR PRE-SEPARATORS AND CYCLONES

System description

Nederman Pre-separation and Vacuum Transportation Systems pre-separate and discharge dust and granulated material during vacuuming.

A system can handle dry material like cement, fertilizers, grit, sand, as well as wet material. Collected material can be discharged into tanks, containers, big-bags or on to conveyor belts, escalators etc.



Nederman is offering two different types of solutions.

Pre-separator

The aim is to separate the coarse material from the dust and the airstream.

It is very useful for applications where you want to re-use the material, for example when collecting re-usable blasting media. The blasting media is separated from the finer particles in the separator and it can be discharged back into the blasting system for re-use.

Cyclone

A cyclone is normally used when there is no intention to separate coarse particles from finer particles or dust. Typically very useful when you are handling a lot of material and when you want to make sure that as little material as possible will end up in the filter.

The benefit of using pre-separators or cyclones in a system is, that the load on the filter will be highly reduced which prolongs the lifetime of the filter.

Nederman has a number of complete units for different applications and they are presented on <http://www.nederman.com/products/material-handling-and-separation/preseparators>

This guide will show you how you can configure your own pre-separator to meet specific customer demands. The guide is divided into four chapters:

Separator for dry material System 50

Page 2

Separator for dry material System 200/300

Page 4

Separator for wet material System 50

Page 3

Separator for wet material System 200/300

Page 5

System 50 - Dry suction

Legs for silos



Qv 0 - 270 m³/h

43550001 Inlet
 Ø51
43550002 Ø63
43550005 Ø51
43550009 Ø51 (flap valve)
43550015 Ø63

Outlet
 For ecc locks
 For plastic fasteners
 For plastic fasteners
 For plastic fasteners
 For plastic fasteners

To be used together
 Suction outlet
 Ø51: **43620001**
 Ø63: **43620100**
 Ø76: **43620200**
 Ø100: **43620300**



Cyclone (for ecc. locks)
 Ø76: **43520001**
 Qv 300 - 600 m³/h

Inlet for suction hose
 Ø51: **43680300** (incl. flap valve)
 Ø63: **43680350**
 Ø76: **43680150**

To be used together
 Suction outlet
 Ø51: **43620001**
 Ø63: **43620100**
 Ø76: **43620200**
 Ø100: **43620300**



Lid with inlet
 Ø51: **43611010**
 (for ecc locks)

Cup
43621001

Ø 51 / 63 / 76

Cyclone for lid

Ø51: **43510001**
 (inlet with flap valve)
 Qv 150 - 270 m³/h

Ø63: **43511001**

Qv 150 - 350 m³/h

Ø76: **43512001**

Qv 250 - 550 m³/h

Lid for ecc locks

43610006



3 x **43755001**



Length: 1500 mm

Can be combined with these

Silos

Container

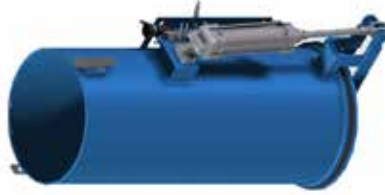
For legs: **43411004**
 (with plastic fasteners), 87 liters



Wall mounted:
43413026 (with plastic fasteners), 87 liters
43413014 (with ecc. locks), 87 liters



100 liters
 Wall mounted: **43417001** (with ecc locks)



Incl. pneumatic discharge valve

47 lit: **43332001** (with ecc locks)
 67 lit: **43334001** (with ecc locks)



Plastic bags (25 pcs.)
 47 liter: **43650102**
 67 liter: **43650103**

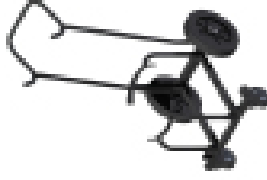
Can be combined with these

Trolley for container

Tippable trolley:
43722001



Non tippable trolley:
43720001



Accessory Basket:
43662001



Valves

Accessory for bagholder

Bag holder for big bag
43640201
 Includes discharge valve 43630100
 and 43632200



Counterweight
43630200



Pinch valve - pneumatic
 DIN65: **43632001**
 DN80: **43632100**
 DN100: **43632200**



Pneumatic butterfly valve
43630500
 *Control kit not included



Manual
43630001



Bagholder **43640001**
 for Counterweight, Linatex and pinch valves



Bag support for wall
43930125



Plastic bags (25 pcs.): **43650104**

System 50 - Wet suction

Legs for silo

To be used together

Suction outlet
 Ø51: **43620001**
 Ø63: **43620100**
 Ø76: **43620200**
 Ø100: **43620300**



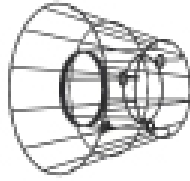
Lid with inlet
 Ø51: **43611010**
 (for ecc locks)

Cup
43621001

Float ball: **43660300**



Basket: **43660001**



Length: 1500 mm



3 x **43755001**

Can be combined with these

Silos

For legs: **43411004**
 (with plastic fasteners), 87 liters



Wall mounted:
43413026 (with plastic fasteners), 87 liters
43413014 (with ecc. locks), 87 liters



Can be combined with these

Valves

Linatex
43630300



3" straight ball valve
43632405



2" bend ball valve
43632400



Container

67 liters: **43326002** (for plastic fasteners)
 47 liters: **43332017** (for plastic fasteners)
 67 liters: **43334009** (with ecc. locks)
 47 liters: **43332024** (with ecc. locks)



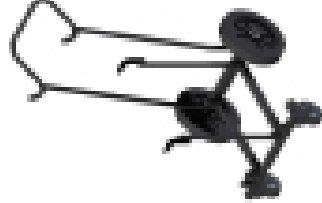
Plastic fasteners
43670001



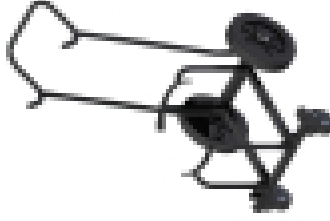
Can be combined with these

Trolley for container

Tippable trolley:
43722001



Non tippable trolley:
43720001



Accessory Basket:
43662001



System 200/300 - Dry suction

*) Qv 650-1800 m³/h: **43534001**
or **43534019** (rubber lined for abrasive material)



Ø152

Suction inlet

Ø152: **43882001**
Ø127: **43882050**
Ø102: **43882100**

*) Fits S300 silos below and S200 silos with plastic fasteners



**) Fits also S300 silos with 4x43930256

**) Inlet / outlet
Ø63/76, Qv 0-400 m³/h: **43560001** (For plastic fasteners)
Ø76/76, Qv 0-550 m³/h: **43561001** (For plastic fasteners)
Ø102/76, Qv 0-600 m³/h: **43561005** (For plastic fasteners)
Ø102/102, Qv 0-800 m³/h: **43561006** (For ecc. locks)
Ø127/127, Qv 0-1400 m³/h: **43561020** (Adjustable, for plastic fasteners)



**) Fits all silos below

**)*)

Ø 51 / 63 / 76

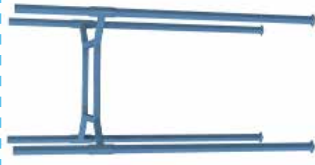
Cyclone for lid
Ø 51: **43510001** (inlet with flap valve)
Qv 150 - 270 m³/h
Ø 63: **43511001**
Qv 150 - 350 m³/h
Ø 76: **43512001**
Qv 250 - 550 m³/h
Lid for ecc locks
43615004



Frames and legs for silos

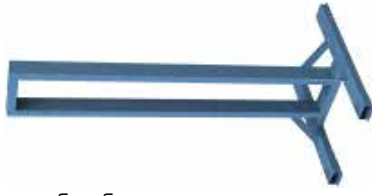
S300

43760001
Incl 4 legs.
Adjustable height
max 2500 mm



S200

43751001
Height: 2375 mm
43751008
Height: 2875 mm

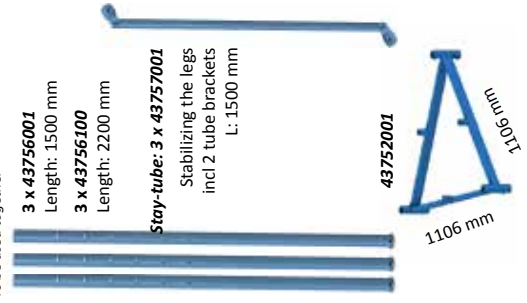


Can be handled by forklifts

To be used together

3 x 43756001
Length: 1500 mm
3 x 43756100
Length: 2200 mm

Stay-tube: 3 x 43757001
Stabilizing the legs
incl 2 tube brackets
L: 1500 mm



43752001

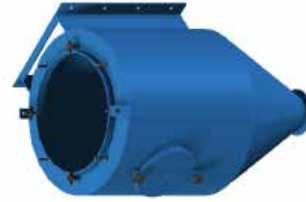
106 mm

106 mm

Silos S300

500 liters
Wall mounted: **43481001**

500 liters
For legs: **43480001**



220 liters
Wall mounted:
43443001 (with plastic fasteners)
43444001 (with ecc locks)

220 liters
For legs:
43441001 (with plastic fasteners)
43441009 (with ecc locks)



220 liters
43452041 Silo with ecc locks, pneumatic Ø320mm discharge



Bagholders for valves

Bagholder **43640001**
for Counterweight, Linatex and pinch valves



Plastic bags (25 pcs.): **43650104**

Valves

Bag holder for big bag
43640217
Can be used with 43630300, 43632001, 43632100, 43630201 and 43632200

Bag holder for big bag
43640201
Includes discharge valve 43630100

Counterweight
43630200
Linatex
43630300

Pinch valve - pneumatic
DN65: **43632001**
DN80: **43632100**
DN100: **43632200**

Pneumatic butterfly valve
*Control kit not included

Manual butterfly valve
43630400

Manual
43630001

Accessory for bagholder
Bag-support for wall
43950125



Can be combined with these

Can be combined with these

System 200/300 - Wet suction

Outlet
43620001 ø51 mm
43620100 ø63 mm
43620200 ø76 mm
43620300 ø102 mm
43620400 ø152 mm



Lid with inlet *)
43616003 ø51 mm with flap valve
43616100 ø63 mm
43616200 ø76 mm
43616202 ø102 mm



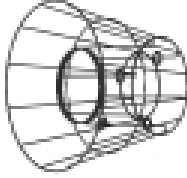
Cup: **43621001**



Float ball: **43660300**



Basket: **43660001**



*) Fits S300 silos below with 4x43930256 and S200 silos/containers with plastic fasteners

Can be combined with these

Silos S300

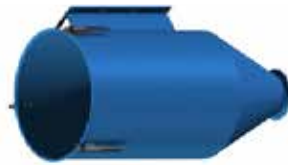
500 liters
 Wall mounted: **43481001**



500 liters
 For legs: **43480001**



220 liters
 Wall mounted:
43443001 (with plastic fasteners)



220 liters
 For legs:
43441001 (with plastic fasteners)



Containers S200

43366002 with plastic fasteners and 2" ball valve



Can be combined with these

Valves

Linatex
43630300



3" straight ball valve
43632405



2" bend ball valve
43632400



43730001

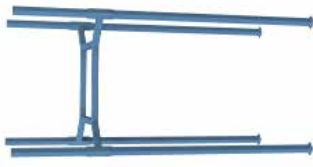


Tilttable for forklift
43731001



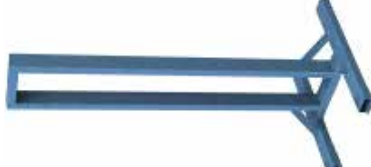
Frames and legs for silos

S300



43760001
 Incl 4 legs.
 Adjustable height
 max 2500 mm

S200



43751001
 Height: 2375 mm
43751008
 Height: 2875 mm

Can be handled by forklifts

To be used together

3 x 43756001
 Length: 1500 mm
3 x 43756100
 Length: 2200 mm



Stay-tube: 3 x 43757001
 Stabilizing the legs
 incl 2 tube brackets
 L: 1500 mm

43752001
 1106 mm
 1106 mm





The Nederman Group is one of the world's leading suppliers of products and solutions within the environmental technology sector, focusing on industrial air filtration and recycling.

Nederman products and solutions contribute to reducing the environmental impact from industrial production processes and to creating a safe and clean working environment whilst boosting production efficiency.

The Group's offering covers everything from the design stage through to installation, commissioning and servicing.

Nederman has subsidiaries in 30 countries and agents and distributors in over 30 countries.

Nederman is ISO 9001 and 14001 certified. The Group develops and produces in its own manufacturing and assembly units in Europe, North America and Asia.

The Group is listed on Nasdaq OMX Stockholm.

Nederman

Nederman Sales companies in: Australia, Austria, Belgium, Brazil, Canada, China, Czech Rep. Denmark, France, Germany, Hungary, India, Indonesia, Ireland, Malaysia, Mexico, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovak Republic, Spain, Sweden, Thailand, Turkey, United Kingdom, USA, Vietnam
Nederman Distributors in: Argentina, Bulgaria, Chile, Croatia, Cyprus, Egypt, Estonia, Finland, Greece, Hongkong, Iceland, Israel, Italy, Japan, Korea, Latvia, Lithuania, New Zealand, Oman, Philippines, Saudi Arabia, Serbia, Singapore, Slovenia, South Africa, Switzerland, Taiwan R.O.C, United Arab Emirates