

# Amplifier-/ Vacuum stations

**X-FLOC**  
Pneumatic Insulation Technology



**For each machine the  
suitable amplifier station!**

## Our Amplifier/- Vacuum station

Some insulation materials require a particularly high amount of air in order to perform the insulation properly. Some isolated installation situations require the overcoming high conveying heights or the use of long conveyor lines. Meanwhile, loose insulation materials have to be occasionally removed again.

By using the X-Floc amplifier/-vacuum station technique, you can easily supplement the existing insulation blowing machine to the amplification system or you can use the machine as part of the suctioning process. The devices available range from mobile amplifiers for on-site use (VS28) to stationary solutions, suitable for factory fillings (VS55). All amplifier/-vacuum stations available can significantly increase the insulation blowing machines' overall power or, in combination with suitable accessories, can suction small or large amounts of solid materials in a short amount of time. For optimal harmonization, please refer to the notes "Amplification of the insulation blowing machines' air performances".

- Complete separation of working and cooling air
- Suction function: Suitable for a number of materials



**VS28**



**VS33**



**VS40**



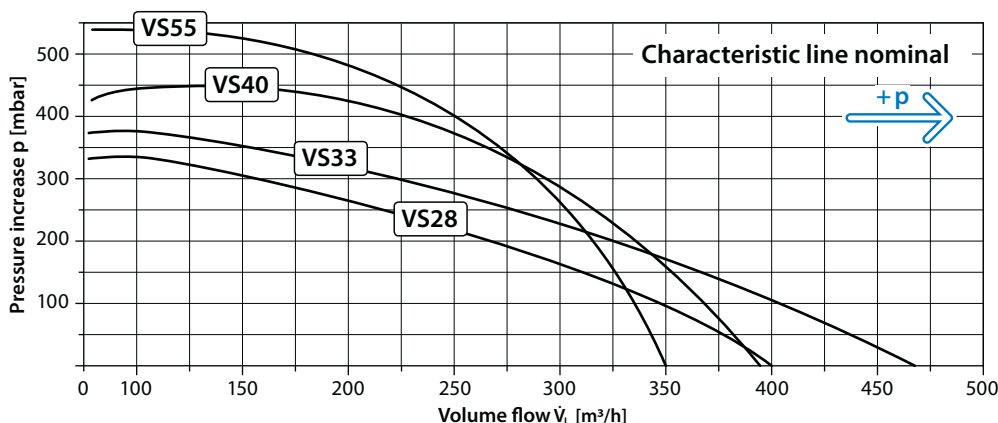
**VS55**

Amplifier/-Vacuum station				
Type	VS28	VS33	VS40	VS55
Product number	2711	5855	8336	6348
Amplification/Cleaning	●/●	●/●	●/●	●/●
Active dust removal	●	●	●	●
Stepless performance regulation	●	●	●	●
Synchronisation with machine	●	●	●	●
Remote Control	●	●	●	●
Power	2,8 kW	3,3 kW	4,0 kW	5,5 kW
Max. overpressure	330 mbar	370 mbar	430 mbar	550 mbar
Max. negative pressure	300 mbar	340 mbar	380 mbar	500 mbar
Max. air blow volume (nom./measured)	440 / 400 m <sup>3</sup> /h	490 / 470 m <sup>3</sup> /h	430 / 390 m <sup>3</sup> /h	390 / 350 m <sup>3</sup> /h
Air feed unit	High-powered radial compressors	High-powered radial compressors	Turbine	Turbine
Suitability Insulation Blowing Machine*	Outlet pressure ≤ 320 mbar	Outlet pressure ≤ 400 mbar	Outlet pressure ≤ 420 mbar	Outlet pressure ≤ 520 mbar
Noise pressure level	80 dB(A)	78 dB(A)	90 dB(A)	95 dB(A)
Outlet connection/intake socket	NW63 (2½") / NW75 (3")	NW63 (2½") / NW75 (3")	NW63 (2½") / NW75 (3")	NW63 (2½") / NW75 (3")
Operating hours meter	○	●	○	○
Mains Voltage Display	○	○	-	-
Dimensions (L×W×H)	482 × 358 × 418 mm	482 × 358 × 418 mm	600 × 650 × 600 mm	785 × 700 × 580 mm
Weight	23 kg	23 kg	60 kg	100 kg

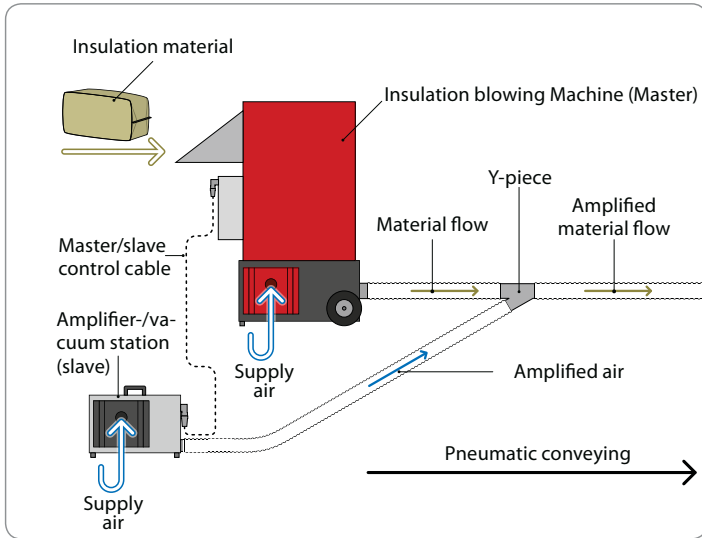
\* Required minimum outlet pressure at the blowing machine.

○ Optional available.

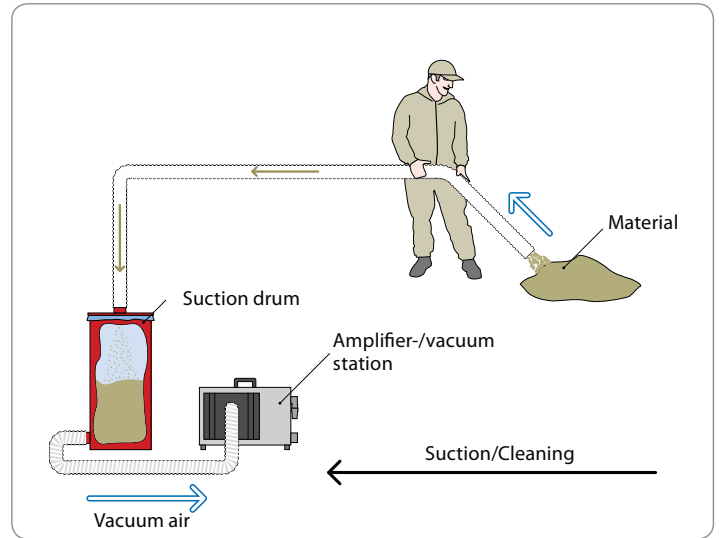
## Characteristic Curves



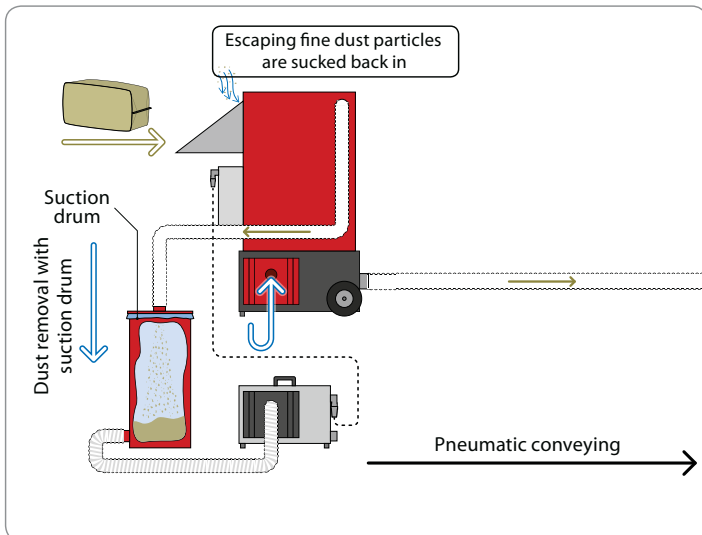
## Amplified Blowing Injection



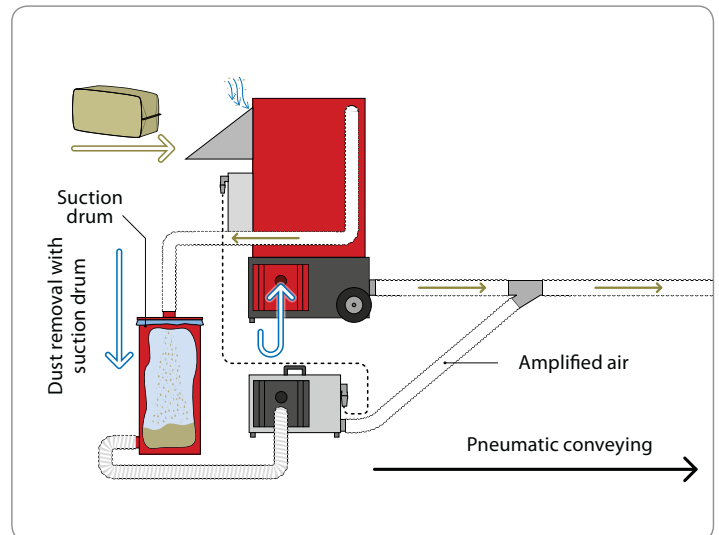
## Amplifier Aspiration Function



## Dust Removal



## Amplified Blowing Injection with Dust Removal



# Sets and accessories

Image	Description	Prod. no.
	<b>VS28 Complete Set 115/250L</b> Consists of amplifier, suction drum and all necessary connector parts	2886/5017
	<b>VS33 Complete Set 115/250L</b> Consists of amplifier, suction drum and all necessary connector parts	5939/5940
	<b>Connecting Set for Amplifier</b> M95, EM300, EM400 (NW75 / 3" or NW90 / 3 1/2") M99/EM100 (NW63 / 2 1/2")	4934 7870 4935
	<b>Connecting Control Cable</b> 5 m 25 m 50 m Other lengths on request!	1856 1192 1193

Image	Description	Prod. no.
	<b>Suction drum 115/250L</b> Incl. 5 x woven PP sacks, hose piece, 4 x hose clamps and reducer piece NW75>63/>50	1160/3075
	<b>Pressure Gauge, D=117mm</b> Measurement range 0-0.6bar	7079
	<b>Woven Polypropylene Bag</b> 70 x 100 cm 100 x 150 cm	1085 801
	<b>Stainless Steel Y-Piece</b> NW63/63>63 NW75/63>75 NW90/63>90	3955 2221 6670

# Amplification of the insulation blowing machines' air performances

The insulation blowing machine's air performance can be optimised by using an amplifier-/vacuum station. In order to achieve an effective and trouble-free performance increase of an insulation blowing machine via amplifier-/vacuum station technique, the following basic principles need to be followed:

## 1. Insulation blowing machine's performance

The dynamic pressure measured at the insulation blowing machine's outlet ( $p_M$ ) is decisive for achieving an effective amplification effect. Therefore, it's important that the insulation blowing machine has been well maintained. For this, check the air filters, the hosing, the check valves and the airlock sealings for wear and tear and position if necessary. (see "Quick Check-Up for Insulation Blowing Machine")

## 2. Harmonisation of the dynamic pressure of insulation blowing machine and amplifier-/vacuum station

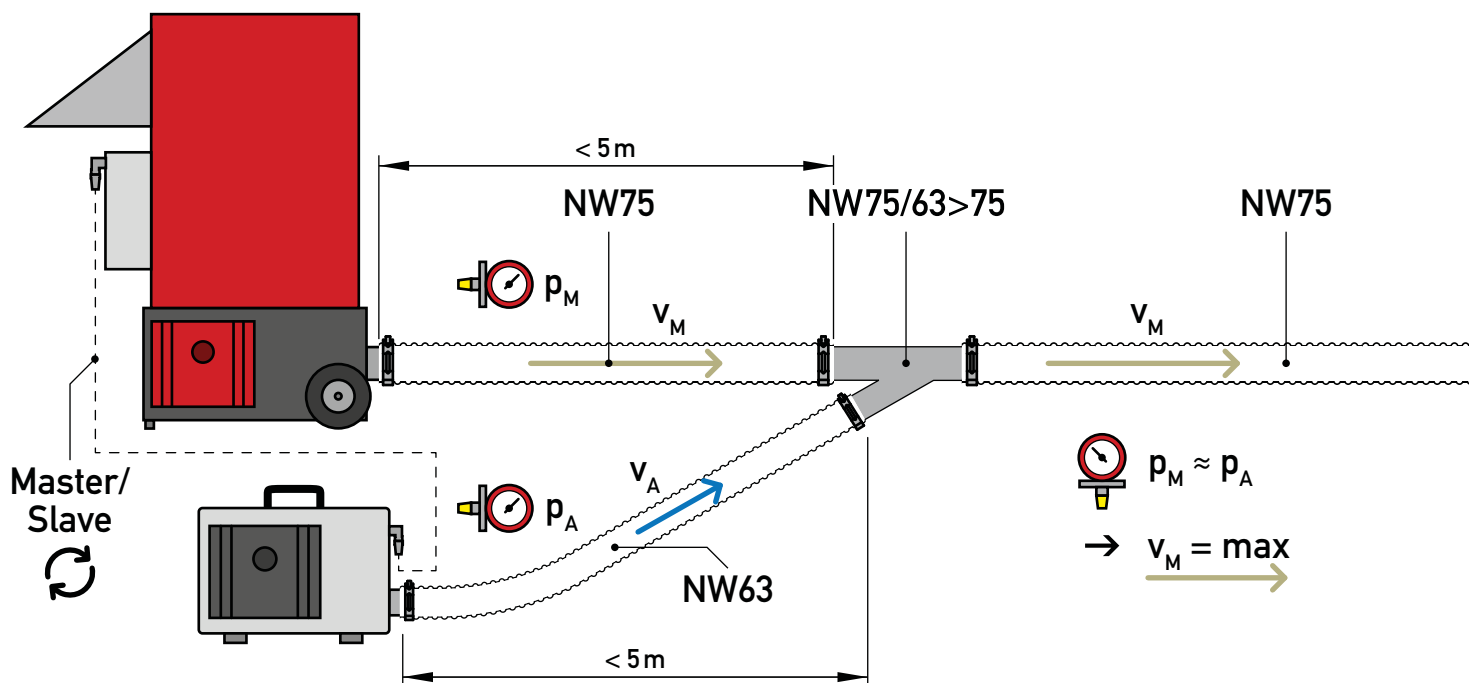
The dynamic pressure measured at the machine's outlet ( $p_M$ ) must correspond approximately with the amplifier-/vacuum station's pressure ( $p_A$ ) ( $\pm 10\%$ ).

Note: In case of strongly divergent dynamic pressures ( $p_M$ ), undesired backflows towards the insulation blowing machine or towards the amplifier-/vacuum station can appear. The desired amplification effect will not be achieved.

## 3. Synchronisation of the insulation blowing machine and the amplifier-/vacuum station

An interlinked system, consisting of insulation blowing machine and amplifier-/vacuum station, enables a synchronous operation (Master/Slave) of both machines. If the machines will not be synchronised properly to each other, disturbances can occur due to undesirable material backlogs (blockages) even after a short amount of time.

Every X-Floc insulation blowing machines is equipped with an auxiliary power socket which enables a connection of the amplifier-/vacuum station to the machine via control cable (Master/Slave). The start- and stop signals as well as the performance settings of the insulation blowing machine's air feed units to the amplifier-/vacuum station will be transmitted via this connection. When using insulation blowing machines of other brands, a suitable auxiliary power socket has to be reinstalled if necessary in order to operate this machine with an amplifier-/vacuum station, too.



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