

High vacuum central dust extraction

Dust extraction and cleaning – in the same flexible system



An economic and efficient overall solution which also contributes to a good and healthy indoor climate for the employees.



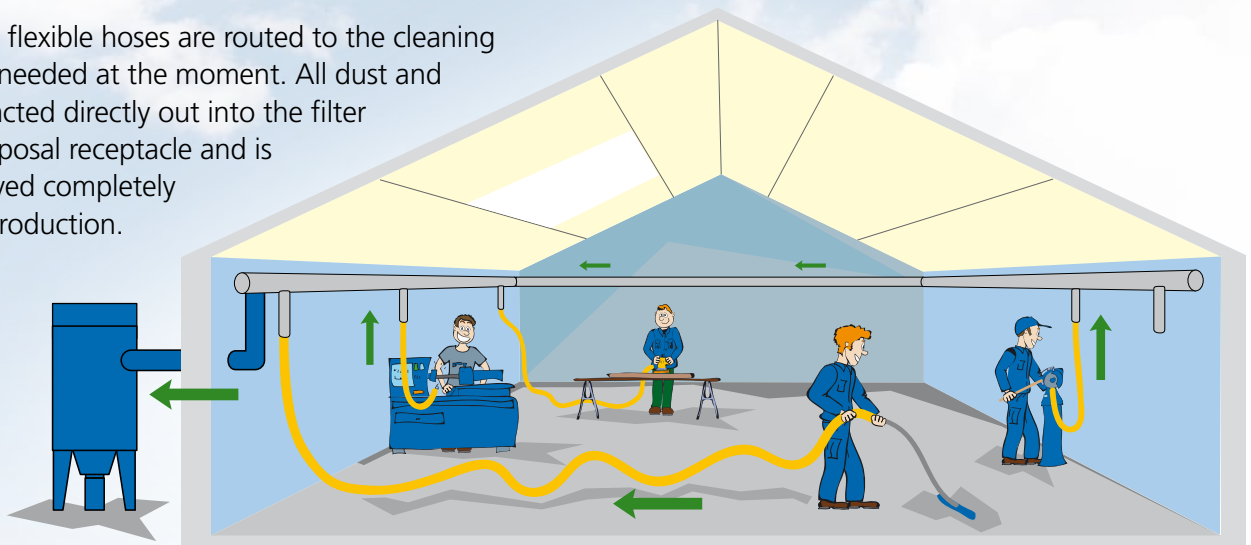
KLIMABLOCK® KNOW HOW IN AIR / FILTRATION

Central cleaning plants are the best and fastest method for keeping the company clean

In one and the same work process, the central cleaning plant extracts dust, dirt and chips from the company.

The suction station is typically placed outside the building. A solid piping system is established between the suction station and the strategic connection points in the rooms.

From here, flexible hoses are routed to the cleaning job that is needed at the moment. All dust and dirt is extracted directly out into the filter / waste disposal receptacle and is thus removed completely from the production.



Save time and money

With a central cleaning plant, the company will save precious time for cleaning and the system contributes to:

- Longer service life for machines and equipment
- Lower service and maintenance costs
- More job satisfaction and comfort for employees
- Higher efficiency on the workplace
- Higher production and product quality



Cleaning of floors
 Cleaning under work tables
 Cleaning under roller conveyors
 Cleaning between tables, shelves, etc.
 Always in just one work process.



Cleaning of production equipment such as drilling machines, lathes, millers, saws, moulding machines, grinders, etc. It is easy to remove the waste directly at the source – eventually as it occurs.



Also in connection with hand tools and the small jobs, it is easy and fast to establish an extraction which effectively removes dust and chips. When it easy – it will get done.

Labour Inspectorate Requirements

The central cleaning plant enables you to meet the increased requirements of the Danish Labour Inspectorate.

Working environment adviser Henrik Gregersen at the Occupational Health Service for Thy, Mors and Salling has many years experience in the industry. He says:

“Using broom and compressed-air gun for cleaning machines and production areas is behind the times. This way of cleaning raises dust in the air and causes considerable nuisance and health hazards for the employees. With a central cleaning system, dust and dirt is mainly removed

at the source. This makes it easier for the company to keep the dust level with an acceptable limit. Such a solution gives a better indoor climate and contributes to more job satisfaction – and probably also to less sickness absence for the employees.”



The light and flexible hose reaches far – you can easily get into every corner.



The plant starts automatically when the hose is attached – and stops immediately when the hose is detached.



All equipment is constructed to be simple and logical so that it is easy to operate for everybody.

Product description

The high-vacuum suction station consists of a belt-driven two-step HTV fan, driven by an electric motor. Fan and motors are placed in a weather resistant, sound-proof safety cabinet. Delivered with sound sluice and jet hood.

Applications

The high-vacuum suction station has been developed for removal, at high air velocity and low air volume, of airborne dust and gases from the place where e.g. welding smoke is formed.

Other examples of application are extraction of grinding dust and the use as a vacuum cleaning plant for industrial cleaning etc.

Technical data:

Plant		HTH 10	HTH 20	HTH 28	HTH 35	HTH 40
Max capacity	m ³ /h	1,000	2,000	2,800	3,500	4,000
Max static vacuum	Pa	17,000	20,000	19,000	19,000	22,000
Fan	rpm	5,524	5,233	4,390	4,390	4,736
Power	kW	11	22	30	37	45
Sound pressure level Laeq	dB(A)	75	75	76.5	77	78
Weight	kg	310	440	625	685	750
Motor voltage	V	3x400	3x400	3x400	3x400	3x400
Motor, 50 Hz	rpm	2,920	2,930	2,945	2,945	2,960
Overall dimensions L x W x H*		1.5x0.8x1.9	1.7x0.9x2.0	2.1x1.1x1.9	2.1x1.1x1.9	2.1x1.1x1.9
Connections, inlet		ø160	ø160	ø250	ø250	ø250
Connections, sound sluice outlet		ø250	ø250	ø315	ø315	ø315
Ordering number		20 35 10 00	20 35 20 00	20 35 28 00	20 35 35 00	20 35 40 00

* incl. jet hood

Various plant examples:



Electrical panel:

The various plants can be delivered with a complete control cabinet, which makes it easy for a local electrician to fit the electrical connection. We also offer the complete solution including electrical connection.



Pump station:

Two pcs. 1200X4 ATEX version, constructed for the HTH40 suction station, complete with frequency converter in order to optimise energy savings.



1000X1:

Air flow, m ³ /h	1,000 / 1,500	Number of cartridges	1
Polyester/paper area, m ²	20 / 35	Dust container, litres	25
Dimensions, HxWxD, mm	1,850 / 500 / 750	Inlet/outlet diameter, mm	150 / 150
Weight including cartridges, kg	175	Power supply, V/Hz/A	230/50/6
Pressure loss over filter, Pa	1,000 – 1,500	Max. vacuum, Pa	25,000



1200X4:

Air flow, m ³ /h	3,000 / 9,000	Number of cartridges	4
Polyester/paper area, m ²	65 / 185	Dust container, litres	50
Dimensions, HxWxD, mm	2,250 / 1,200 / 1,650	Inlet/outlet diameter, mm	400 / 400
Weight including cartridges, kg	625	Power supply, V/Hz/A	230/50/6
Pressure loss over filter, Pa	1,000 – 1,800	Max. vacuum, Pa	25,000

Individual solutions

We install any solution – right from the small and simple plants to the largest and most advanced plants. However, a common feature is that each plant is projected according to the individual wishes and needs of your company.

All industrial companies have the need

High-vacuum extraction is used in all kinds of companies.

Klimablock ApS is an engineering and trading company designing, projecting, and installing complete solutions within all kinds of central dust extraction and filtering.

We develop and supply the original Klimablock products.

