

Fan NCF 120/25, 60Hz, 3ph

Centrifugal fan for industrial process ventilation



Nederman NCF 120/25 is a centrifugal fan designed for use in all types of industrial process and ventilation systems, mounted indoor as well as outdoor. The fan is equipped with vibration absorbers as standard.

Accessories

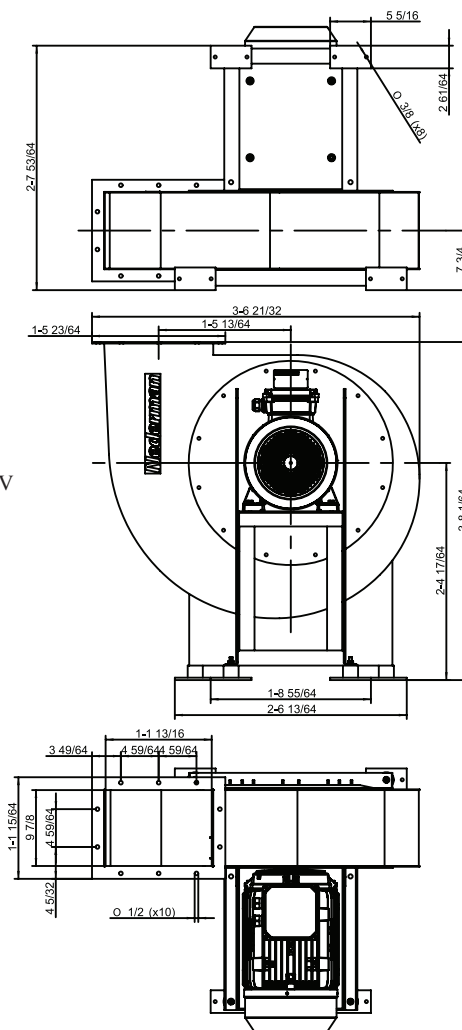
- In and outlet adapters
- Guard nets for in and outlet adapters
- Fan Starters
- Fan Inverters

See separate information

Part no 14522528, 208V
Part no 14523428, 230/460V
Part no 14524328, 575V

Technical specification

Capacity:	1375 - 6855 cfm
Total pressure:	21.1 - 6.8 in w.g.
Motor power:	20 hp
Speed:	3550 rpm
Voltage:	208V/3ph, 230/460V/3ph, 575V/3ph
Frequency:	60 Hz
Current at rated voltage:	52.0A at 208V, 46.8A at 230V, 23.4A at 460V, 19.4A at 575V
Degree of protection:	IP 55
Weight:	511 lbs
Impeller:	Backward curved blades
General material:	Sheet metal steel
Construction:	On the outside the fan scroll is joined to the standing fan sides by folded seams. The inside is intermittently welded.
Color:	Grey, RAL 7045
Surface treatment:	Anodic electro coating
Pre coat:	Epoxy, 0.8 mil
Top coat:	2 component acrylic, 1.2 mil
Max dust concentration:	0.0874 grain/ft ³
Max particle size:	400 mil
Applied directives:	2006/42/CE Machine Directive 2006/95/EC Low Voltage Directive (LVD) 2004/108/EC Electromagnetic compatibility (EMC)



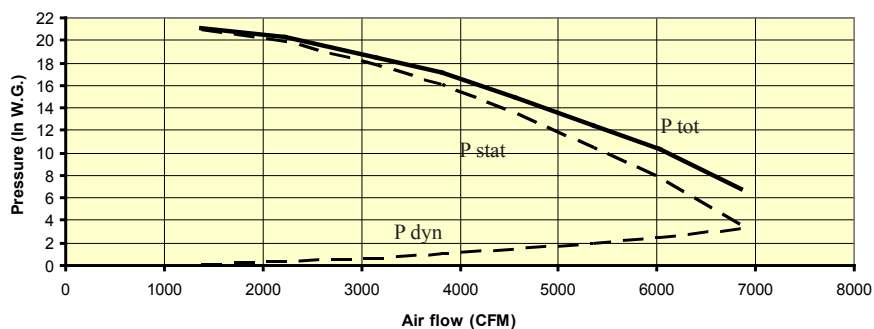
AB PH NEDERMAN & CO certifies that the Fan NCF 120/25 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211, AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Duct inlet diameter 15 3/4 in
Duct outlet diameter 15 3/4 in

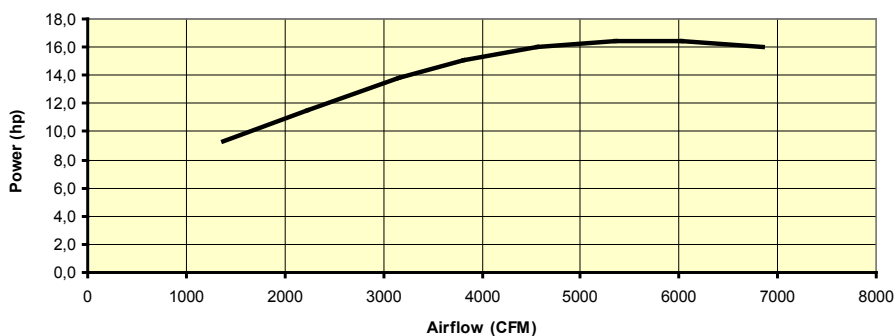
WARNING!

Risk of fire or explosion! The fan must not be used in an environment with danger of explosion or for transport of inflammable or explosive gases.

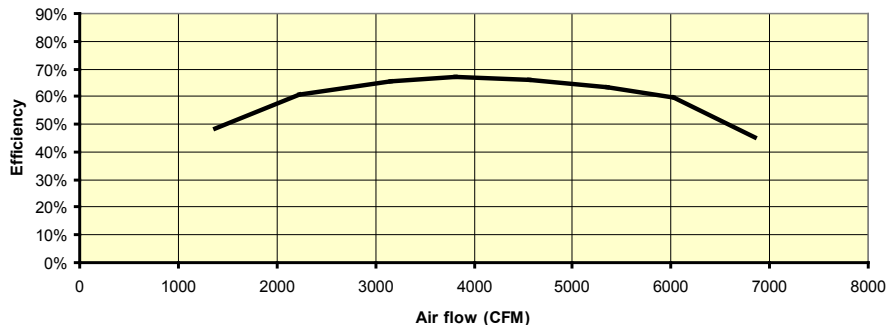
Fan diagram



Shaft Power

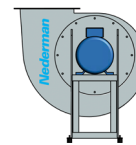


Efficiency



Outlet directions

RD 0° Standard

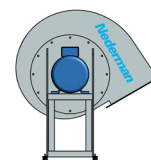


Outlet directions possible to position before installation

RD 30°



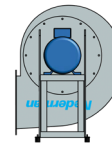
RD 150°



RD 60°



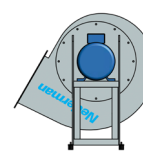
RD 270°



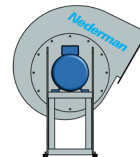
RD 90°



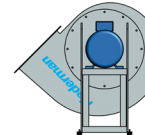
RD 300°



RD 120°



RD 330°



Impeller speed: 3550 rpm

Test method per ANSI/AMCA Standard 210-99, figure 12 set up.

Power rating (BHP) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

Values shown are for inlet Lwi sound power levels for Installation Type B: free inlet, ducted outlet.

The sound power level ratings shown are in decibels, referred to 10^{-12} watts, calculated per AMCA International Standard 301.

Lwmi (Sound power level measured at the open inlet of the fan)									unit of measure dB			
Center frequency (Hz)									Operation point			
									pressure (in.wg)	flow (cfm)	rotation speed (r.p.m)	number
63	125	250	500	1000	2000	4000	8000					
103	96	97	102	100	98	94	90	0,00	7582	3571		1
100	92	98	98	96	93	90	85	9,50	5682	3570		2
102	92	93	93	91	90	88	83	16,26	3833	3573		3
101	94	96	95	92	91	89	83	20,50	1915	3578		4