

Vent Master Installation Instructions

for Nabertherm Front and Top Loaders

First, identify your kiln. Follow **Section A** if you have a **top-loading kiln** (loaded from the top, with a removable exhaust stack held to the side by two screws). Follow **Section B** (next page) if you have a **front-loading / chamber kiln** (a door on the front, and an exhaust opening on the top). The Operating and Part List pages apply to both.

SECTION A

Top-Loading Kilns



1) Remove the existing Nabertherm exhaust stack by taking out the two screws that hold the stack to the side of the kiln.

The exhaust stack is the short chimney that lets firing fumes escape. You are simply unbolting it so the Vent Master stack can take its place.



2) Using the two screws from step 1, install the new Vent Master exhaust stack.

This is the taller black stack supplied in the kit. It bolts on exactly where the old one was and gives the extraction hose something to connect to. The small holes in its side let fresh air mix in to cool the exhaust.



3) Secure one end of the black hose to the bottom of the exhaust stack using one of the 5 cm clamps.

The black hose is high-temperature ducting. The clamp is a metal band you tighten with a screwdriver so the hose can't slip off the hot stack.



4) Secure the other end of the hose to one of the intake ports of the blower assembly using a 5 cm clamp.

The blower is the motorised fan that pulls the fumes away. Its intake ports are the openings it sucks air in through — clamp the hose to one of them.



5) Mount the Vent Master blower on the wall, up above the kiln — not on the floor (see photo). The black hose runs up from the kiln's exhaust stack to the blower, and the blower's own exhaust connects to a 10 cm diameter duct that is vented to the outside and meets local building codes.

Wall-mounting above the kiln keeps the unit clear of the work area and lets the hose run upward, so the hot fumes rise naturally toward the blower and out through the duct. The duct is the pipe that carries the fumes out of the room, keeping the workshop air clean and safe.

Vent Master Installation Instructions

for Nabertherm Front and Top Loaders

SECTION B

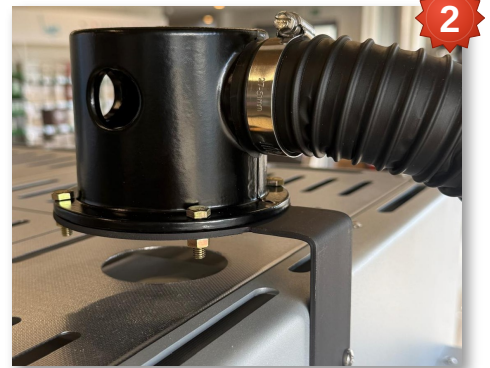
Front-Loading / Chamber Kilns (up to 300 litres)

Front-loading (chamber) kilns do not have a removable side exhaust stack — they vent through an **exhaust air opening on the top of the kiln**. For these kilns the Vent Master kit includes a **special black collection cup and an L-shaped mounting bracket** (shown below) that fit over the opening. Everything after the cup — the hose, the blower and the outside duct — is the same as Section A.

1

Locate the exhaust air opening on the top of the kiln.

On front-loading chamber kilns up to 300 litres the hot air and firing fumes leave the chamber through a round opening on the top surface, rather than through a side stack. This opening is where the collection cup mounts.

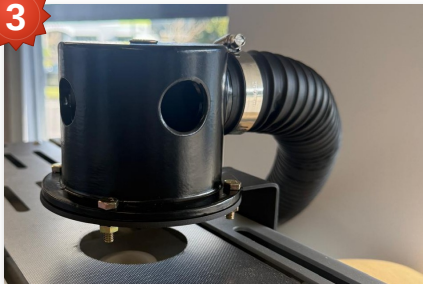


2

Fit the supplied bracket and collection cup over the opening.

The front-loader kit includes a black steel collection cup and an L-shaped mounting bracket. The bracket hooks over the edge of the kiln top and holds the cup centred and secure directly over the exhaust opening — so the cup can't move and you don't need to drill or modify the kiln.

3



Fresh air mixes in through the cup's side openings.

As the kiln's hot exhaust rises into the collection cup, fresh room air is drawn in through the open holes in the side of the cup and mixes with it. This does two jobs: it cools the exhaust so it won't damage the hose or blower, and it dilutes the fumes so they are captured and removed more safely.

Connect the black high-temperature hose — cup outlet to a blower intake port — using the 5 cm clamps.

One clamp holds the hose onto the cup's outlet, the other onto the blower intake. The clamps are metal bands tightened with a screwdriver. The hose carries the cooled, diluted exhaust from the cup to the blower.



4

5



Mount the blower on the wall, above the kiln vent, and duct it to the outside.

The blower must be mounted on the wall, up above the kiln's exhaust vent — not on the floor. Because hot air rises, sitting the blower above the vent lets the fumes flow upward into it naturally. Its outlet connects to a 10 cm diameter duct that is vented outside and meets local building codes. The blower is what actually pulls the fumes through the hose and pushes them outdoors.

Operating Your Vent Master

1) Turn the blower switch on.

2) Fire the kiln per the owner's manual.

To shorten the length of time it takes to cool the kiln, the damper adjustment on the bottom of the kiln should be in the full-open position after the kiln has reached peak temperature.

(The damper is the small sliding vent that controls how much air moves through the chamber. Opening it fully after peak temperature lets the kiln cool faster.)

Optional: The provided plastic cap can be used to cover the second intake tube if it is not being used to vent a second kiln.

(The blower has two intake ports so it can serve two kilns. If you only run one, capping the spare port keeps all the suction working on your kiln.)



Part List

For Top-Loading Kilns — Section A



A – Blower assembly with switch and plugset for New Zealand

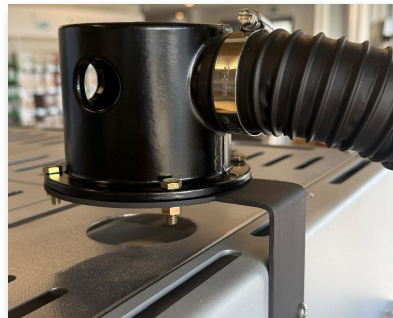
B – 4 foot high-temperature hose

C – Exhaust tube (the Vent Master stack that replaces the kiln's own exhaust stack)

D – (2) 5 cm clamps

E – Plastic cap

For Front-Loading / Chamber Kilns — Section B



A – Blower assembly with switch and plugset for New Zealand

B – 4 foot high-temperature hose

C – Collection cup with custom-made top-mounted bracket (fits over the kiln's top exhaust opening — replaces the exhaust tube)

D – (2) 5 cm clamps

E – Plastic cap