

# Facuum

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| <b>Project</b>       | Facuum  |
| <b>Description</b>   | Building a small vacuum cleaner from old computer fans! |
| <b>Status</b>        | Planning  |
| <b>Contact</b>       | <a href="#">metalgamer</a>                              |
| <b>Participants:</b> |   |

## Fans

We use the San Ace 40 fans, taken from an old server we've got. They have a proprietary 12 pin connector. After further inspection, we found out, that they are actually 4 3-pin Fans.

Here are the pinouts:

| <b>Fan 1</b>               | <b>Fan 2</b>                     | <b>Fan 3</b>              | <b>Fan 4</b>                    |
|----------------------------|----------------------------------|---------------------------|---------------------------------|
| Red: +3V                   | Red/White: +3V                   | Orange: +3V               | Orange/White: +3V               |
| Black: Ground              | Black/White: Ground              | Grey: Ground              | Grey/White: Ground              |
| Yellow: Tachometric Signal | Yellow/White: Tachometric Signal | Brown: Tachometric Signal | Brown/White: Tachometric Signal |

Sadly, these fans are not reversible, but there is a pin not connected on the PCB, maybe by soldering the +V wire to that pin, we can reverse the fan.

The voltage mentioned in the table, is the minimum voltage needed to start the fan. The maximum voltage is +23V after that, the fan start to lower their speed.

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