



Welcome

You now own an ALDES Energy Recovery Ventilator. ALDES grants you for your purchase. We strongly suggest reading and following this service manual to maximize the lifetime of your unit.

The Lxx000i unit is well suited to improve air quality in your building. The sensible energy contained in the exhaust air is recovered by a plate designed for your specific need. The controls and components are chosen for their reliability and their efficiency. The entire unit is ETL certified and AHRI listed.

Installation

WARNING

This unit has moving parts as well as high voltage components. All interventions as to be done by qualified persons in order to avoid serious injuries.

LOCATION

The unit has to be located at an accessible and secure place letting enough space for maintenance operations. Also, the unit air intake has to be far enough from sources of contamination as chimneys or exhaust air ducts as well as stale air exhaust.

DRAINS

The unit comes with a male connector of 1 inch NPT for water evacuation. Flexible or rigid pipes can be used. To ensure a good water flow, the unit has to be installed horizontally.

ELECTRIC WIRING

WARNING

Always disconnect power supply before servicing.

The electric wiring must be made by a qualified electrician in accordance with local electrical and safety standards. The electric diagram is given in appendix. The informations for the controls and the operation of this unit are given in the operation section of this manual.

DUCTS

Air ducts should be installed by a qualified contractor in accordance with local code.

LOW PROFILE SERIES

LE2000i, LH2000i, LE3000i, LH3000i,

HEAT & ENERGY
RECOVERY VENTILATORS

IOM



READ AND SAVE THESE INSTRUCTIONS

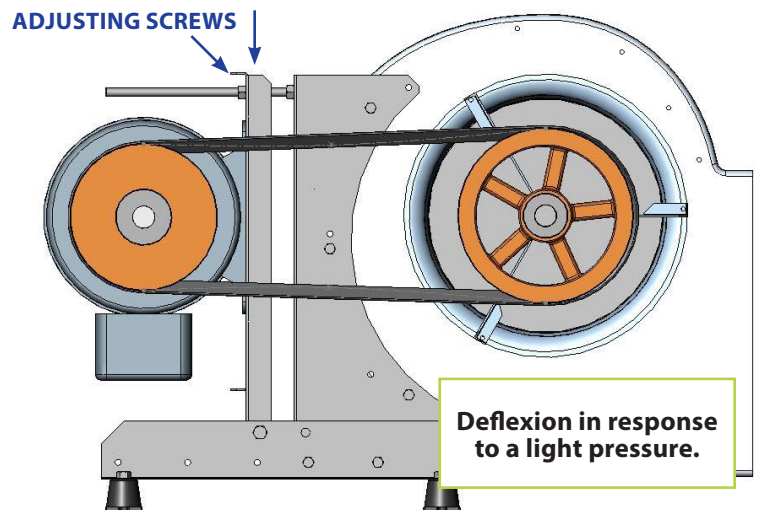
WARNING

Always disconnect power supply before servicing.

Installation *continued*

BLOWERS

In order to avoid unusual wear of moving pieces, adjust belt tension at minimum value to avoid slipping. The following illustration shows the deflection of the belt in response to a light pressure on it. This deflexion should be approximately 1/2 inch. Belt tension is adjusted by the position of adjusting screws as illustrated below.



Operation

Before starting the unit, make sure that all the components are in place and well fixed.

When power is on, a short delay will occur before blowers start.

The fresh air and exhaust airflows should be calibrated and balanced in accordance to your specific need. This operation should be made by a qualified contractor. The airflow of each blower is adjusted by a variable pulley.

This unit has an occupancy control dry contact available that can be activated using terminals 5 and 6 . Closing that contact allows the unit to be started (occupied mode). Opening it will de-activate the unit (unoccupied mode). The criteria of that mode can be related to a period of time, a temperature, humidity, etc. When not used, this contact should be permanently closed.

The unit operates in two modes: on or off. The activation of these modes is made by a dry contact at low voltage (24VAC) between terminals 3 and 4 (start signal). When this contact is closed, the unit is in the «on» mode. When the contact is open, the unit is in the «off» mode. The criteria of that mode can be related to a period of time, a temperature, a humidity, etc.

Maintenance

WARNING

Always disconnect power supply before servicing.

EVERY 3 MONTHS

- Verify filter condition. Change them when needed.
- Verify belt condition and tension. Adjust or change them if needed.
- Verify fan condition. Clean blades when needed.
- Verify coil condition. Clean the surface when needed.

EVERY 12 MONTHS

- Verify the general inside of the unit. It can be cleaned with water and soap.
- Vacuum both entrance faces of the cores. Clean plates with pressurized warm water if needed.