Quickstart VKT

This document is an abbreviated version of the full user manual.

For more information reference is made to this manual, see the information between brackets [ ].

Safety

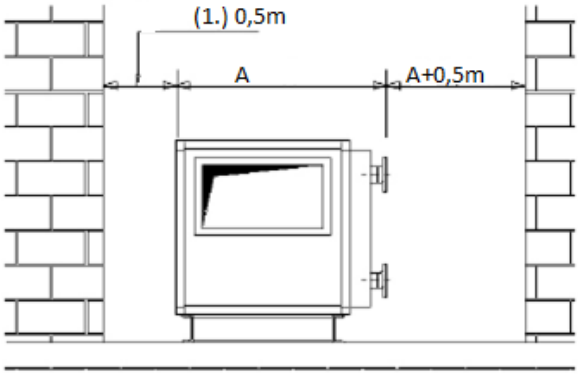
NOTE: The main switch must be locked in the zero-position (off) if work is being carried out on the unit.

The unit is intended to only operate with all air ducts, air suction and blowing hoods correctly assembled.

Do not look into the blower hood of an operating unit. In the air flow (dust) particles can be powerfully blown out (risk of damage to the eyes).

Delivery, transport and installation

The base and positioning must be such that there is sufficient space for control and servicing activities around the unit. It must be ensured that the work can take place in all safety. A clear space of at least 1.5 m-wide is needed for this. Clear space is also required for unimpeded air supply and discharge.



The base must be such that the unit can be positioned perfectly level, the load is sufficiently borne and vibration transfer is minimised. For further information see [4.1.3]

For transport on the site you must ensure that the transport and hoisting instructions [4.2.2] are followed.

With storage longer than 3 months see [4.3]

Setup 1 part [4.4.1]

- Mark the place where the unit is to be positioned.
- Mark the support points (see air handling unit drawing).
- Determine the highest (support) point. Then fill until the air handling unit is perfectly level.

Setup multiple parts [4.4.2.]

- See “setup 1 part” points
- Provide part seams with (supplied) sealing tape.
- Apply panel locks and counterlocks.
- When placing the functional parts next to each other

(Cont.) setup multiple parts [4.4.2.]

the electrical connectors, if present, must be brought through the recess provided.

- Connect frame with the supplied connecting angles, chipboard screws, bolts and nuts.
- Connect counterlocks with TORX 50 bits.
- Bring through and connect the connectors in the electrical cabinet (if present).

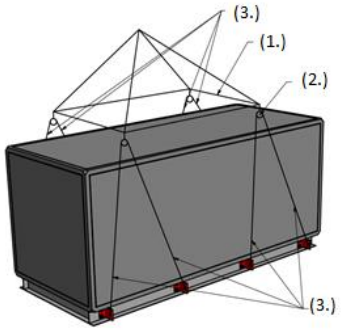
Electrical connection

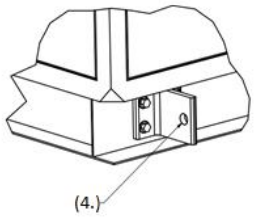
The fusing value must be equal to or lower than the unit’s shared circuit breakers.
In the OC Verhulst air treatment unit there are cable glands under the door of the electrical cabinet to bring the power cable and the external signal cables through. For the fusing value see DIN57100 or [4.4.4.1].

The start command, external safety devices, failure messages and temperature sensors (supplied) must be connected to the appropriate terminals. See the electrical diagram for this.

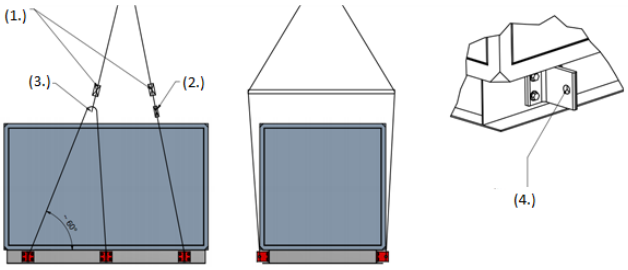
Hoisting instructions

NOTE: The following hoisting instruction drawings are indicative. All hoisting actions will have to be assessed by the hoisting company to do the work. No rights can be derived from these instructions.

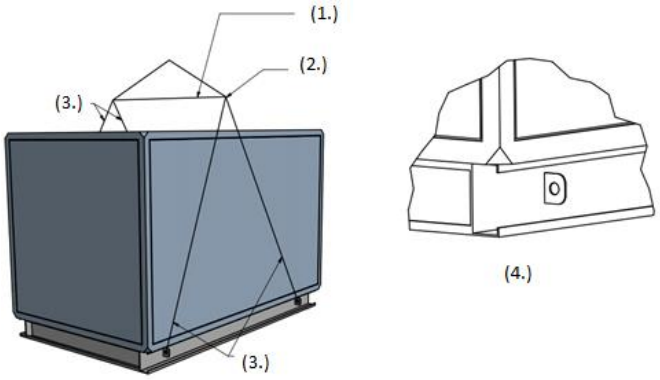




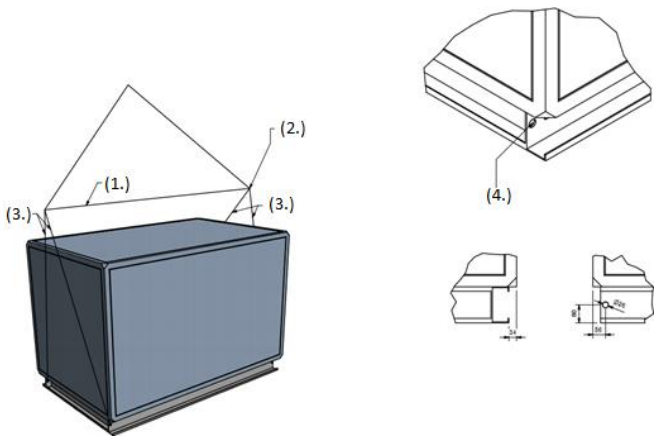
Key	
1	The arm (qty. 2) length depends on the unit (on average 30 cm wider than the unit) Arm (qty. 2) along the length of the unit
2	Roll closure (qty. 4) application to obtain even distribution
3	Hoisting belt
4	Hole (qty. 8) Ø26 for H M16 connection delivery third parties according to DIN918



Key	
1	Arm (qty. 2)
2	Chain hoist (qty. 2)
3	Roll closure (qty. 2) or equivalent
4	Hole (qty. 6) Ø26 for H M16 connection delivery third parties according to DIN918



Key	
1	The arm length depends on the unit (on average 30 cm wider than the unit)
2	Fixed connection (spread must be equilateral)
3	Hoisting belt
4	Note: Protective plates (not drawn) are supplied with the unit



Key	
1	The arm length depends on the unit (on average 30 cm wider than the unit)
2	Fixed connection (spread must be equilateral)
3	Hoisting belt
4	Hole (qty. 6) Ø26 for H M16 connection delivery third parties according to DIN 918

Check-list

Check	Control
	A venting device must be fitted at the highest point of the water circuit pipework.
	Condensation water removal must be connected using the supplied underpressure or overpressure siphons.
	The supply voltage, the start command, the external safety devices and any error message systems must be connected according to the electrical diagram to the appropriate terminals in the electrical cabinet.
	The supplied recorders, etc. must be installed and connected in conformity with the electrical diagram.
	The unit is intended to operate with connected supply and return ducts and with installed blower and suction hood (grate).
	All components including the housing must be earthed and connected according to NEN EN 60204-I.

Check-list for bringing into use

Check	Control
	Connect the power supply to the main switch as shown on the appended electrical diagram.
	Flush the piping system by operating the pump(s) for a short while. Then clean the filters in the installation.
	Check whether air suction and blowing can take place unimpeded.
	Check whether the correct supply voltage is present.
	After the connection of the ducts and any pipework and the filling of the installation check whether the unit is still perfectly level.
	Water circuits: Check that the hot water/cold water circuit is sufficiently filled. The valves for the water pumps must be open. Check whether there is air in the water system and vent the air if necessary. The water pumps must now be started. Check whether the pump in the water circuit has the correct direction of rotation and that the flow direction of the water is correct. (It is recommended to indicate both the direction of rotation of the pump and the flow direction in the pipe with arrows.)
	Integrated cooling: Check that the oil level in the scroll compressors is between ½ and ¾ in the sight glass. Check that the pressure in the coolant circuit corresponds with the pressure of the relative coolant at ambient temperature. Check that the pressure, suction and liquid valves in the coolant circuit are open.

Full manual

You can find the full manual at https://www.orangeclimate.com/nl/ocverhulst/downloads or make contact using the details below.

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