



KLINGENBURG energy recovery



ORDERING A CLEANING - SECTOR

Regarding rotary-heat-exchangers a complete separation between SUPPLY-Air and EXHAUST-Air is not guaranted.

Therefore, the pressure potential adjacent <u>directly</u> at the rotor should be **fundamentally** higher in the supply-air-channel than the pressure potential in the exhaust-air-channel in order to avoid an overflow of the exhaust-air into the supply-air.

In order to avoid an additional transport from exhaust-air into supply-air, a CLEANING SECTOR can be assigned for under certain suppositions. It avoids the transport from exhaust-air into supply-air by means of rotation and the contamination of the supply-air. The necessary volume flow - taken from the supply air - is insignificantly higher than the exhaust-air quantity that would be transferred by means of rotation.

In order to secure the function of a cleaning-sector the choice of the corresponding pressure potentials is of **primary** meaning. The dependence of a cleaning-sector on the static pressure difference measured



directly at the rotary-heat-exchanger between FRESH-Air and EXTRACT-Air is listed in the following table.

Your A-No. : Our A-No. :	Static PRESSURE DIFFERENCE (Measured direct	betw. FRESH- a. EXTRACT-Air	Rated quant. : Rotor-No. :
p _{Fresh-air} minus p _{Euract-air} TYPE OF CLEANING SECTOR			Please check off
 < 0 Pa 0 - 200 Pa 200 - 500 Pa 500 - 800 Pa > 800 Pa > 1500 Pa 	Overflow of extract-air into fresh-air Effect of cleaning-sector not guaranted Big cleaning-sector Small cleaning-sector Scavenging-air quantity too high Very high differential pressure	=> No cleaning-sector => No cleaning-sector => 2 x 5,0° (10°) => 2 x 2,5° (5°) => No cleaning-sector => Double middle strut seal	

The knowledge of the ARRANGEMENT OF FANS is therefore only a first *approach* to the **probable** differential pressures. This knowledge does <u>NOT</u> release the project planer from the investigation necessary for the type of cleaning-sector for the differential pressure explained above.



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