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ENERGIES

ENERGY FOR
NEW SOLUTIONS

KASTT CODING



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Ordering code for KASTT heat exchanger

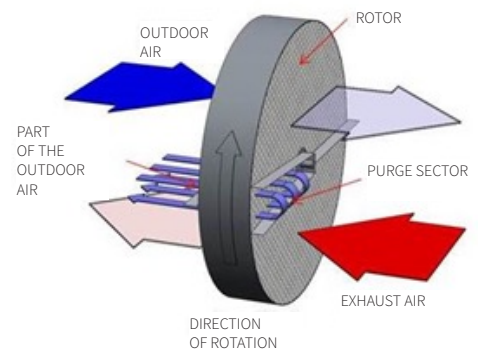
XXXX/XXXX - X - X - XX - X X - XX - XXXX - XX - X	
<p>Name (type; designation)</p>	<p>Sealing type F – Contactless K – Contact L – Special</p>
<p>Rotor diameter (mm)</p>	<p>Casing design B – Sheet metal M – Assembled M2 – Assembled TB2 W – Welded</p>
<p>Rotor type T – Condensation E – Enthalpy S – Sorption P – Epoxy EP – Enthalpic epoxy SP – Sorption epoxy</p>	<p>Environment 1 – Standard 3 – With explosive hazard 4 – Low temperatures down to -40° 6 – Higher demands (aggressive)</p>
<p>Rotor C – One-piece D – Divided DS – Divided-Smart System</p>	<p>Wave height 1,9 – height 1,9 mm 1,6 – height 1,6 mm 1,4 – height 1,4 mm 1,4H – height 1,4 mm H-wave type</p>
<p>Installation position H – Horizontal V – Vertical</p>	<p>RHE motor E – Motor for potentially explosive atmospheres – Zone 2 (ex) G – AC motor without regulation (G3 – 3 x 230 V, G4 – 3 x 400 V) K – Stepper motor (K - IBC, K2 - OJ)</p>
<p>Code example: UNI30/760-T-1-C-V3-G-1,6-B-K</p>	<p>Purge sector location (in combination with motor position, direction and position of air streams) 0 – Above each other/without purge sector 1-4 – Above each other 5-8 – Side-by-Side 9 – Side by side/without purge sector</p>

PURGE SECTOR

- Minimizes contamination of the supply air with pollutants from the exhaust air caused by the rotation of the heat exchanger rotor – the so-called carry-over effect.
- The purge sector forms a shortcut between the supply and exhaust ducts, which allows part of the supply air to flow back into the contaminated exhaust air.

The use and size of the purge sector is given by:

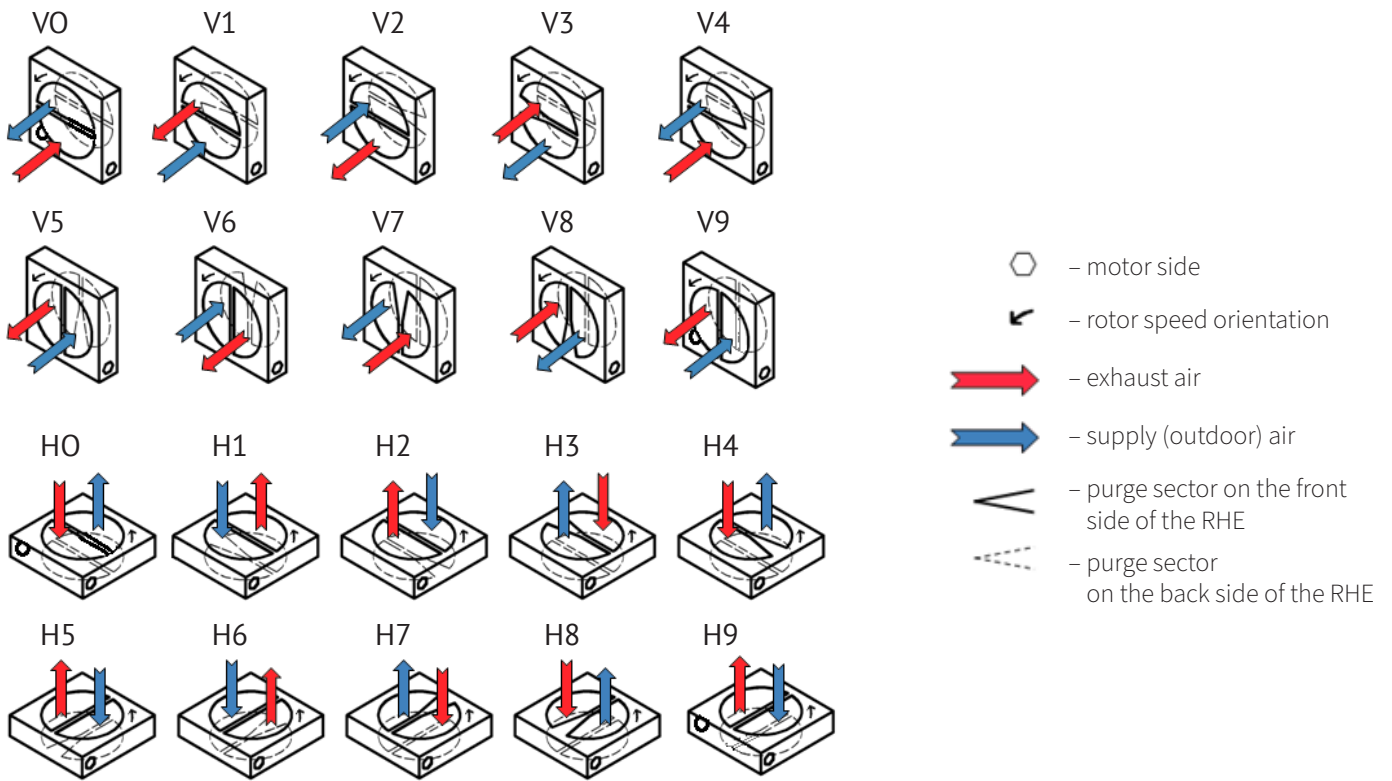
- The position of the fans and the magnitude of their static pressure
- Rotor speed
- Inlet air speed
- Wave height and rotor type, or rotor pressure drop



The main influence on the correct function of the purge sector is the location and pressure ratio of the fans in the HVAC unit. The most suitable position of the rotary heat exchanger in the HVAC unit is the suction side of both the supply and exhaust fans and the countercurrent flow.

The recommended pressure difference between the supply and exhaust ducts of the HVAC unit is 50 Pa-800 Pa. Overpressure must never occur in the discharge part of the rotor compared to its supply part.

Position of purge sector and RHE motor

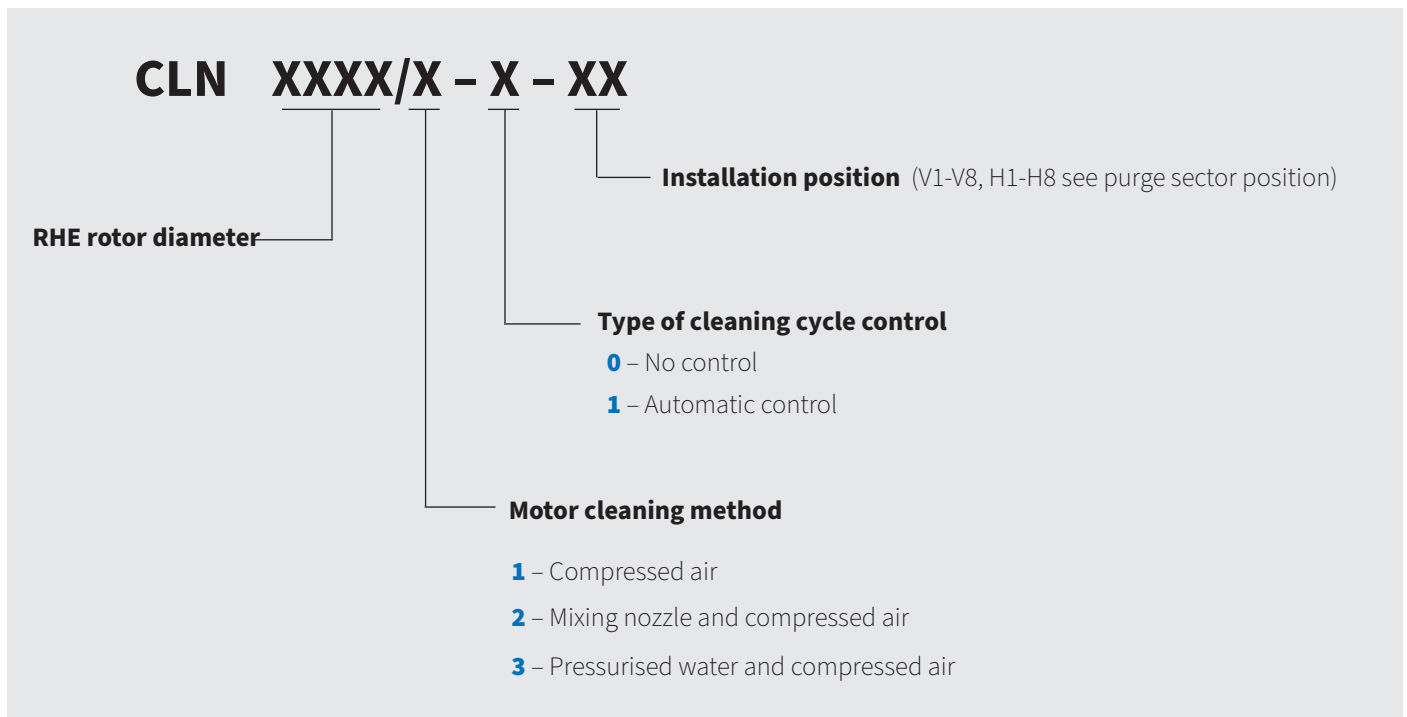


Recommended location of fans and pressure ratios in the air handling unit

$\Delta P = P_{\text{supply}} - P_{\text{extract}}$ (Pa)	(0 Pa) < 50 Pa	50–800 Pa	> 800 Pa
	The purge sector is not recommended	2 x 2,5°	The purge sector is not recommended
	The purge sector is not recommended	2 x 2,5°	The purge sector is not recommended
	The purge sector is not recommended	2 x 2,5°	The purge sector is not recommended
	The purge sector cannot be used	The purge sector cannot be used	The purge sector cannot be used

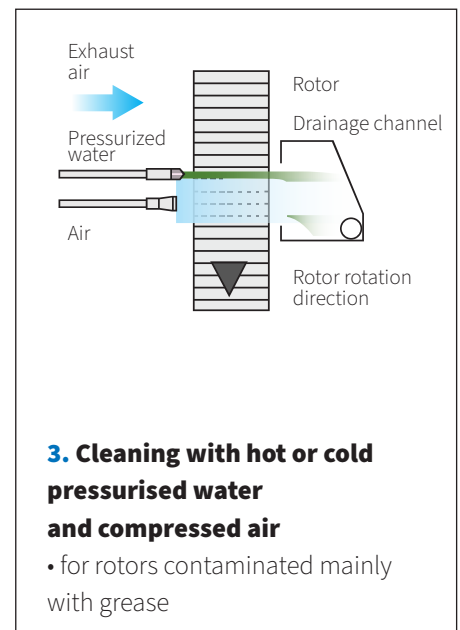
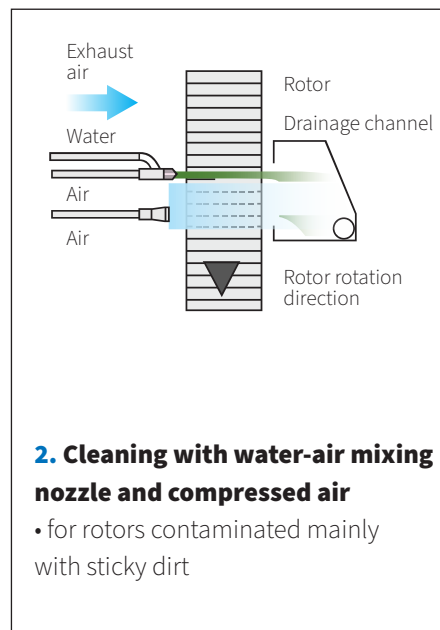
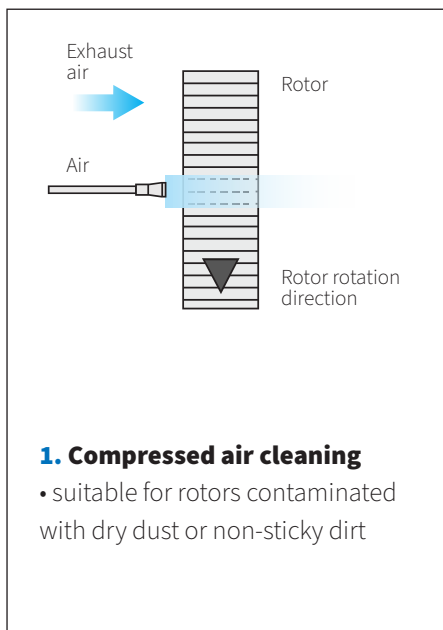
Rotor cleaning equipment

The cleaning equipment enables cleaning of the rotor during normal operation of the RHE and thus the entire air handling system. Full automation of the entire cleaning solution can also be advantageously used.



Rotor cleaning methods

Depending on the type of contamination, the appropriate type of cleaning must be selected. Compressed air is used in the second and third method of cleaning to dry the rotor after rinsing with water.



The design solution must always be adapted to the specific application according to the heat exchanger design.



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