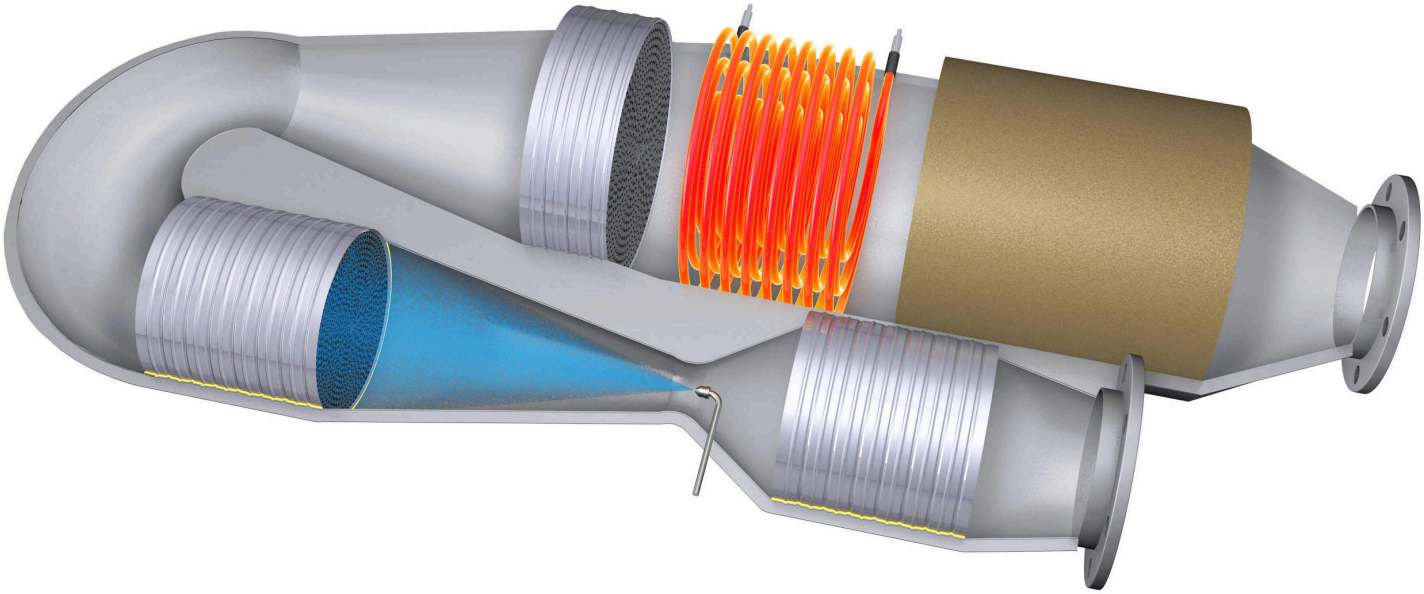
CATARSIS®

SOLUTION no POLLUTION



ESC-test reductions

CO and HC = 99.5-100%, NOx = 94-98%, PM = 99.9%

In comparison with laminar systems

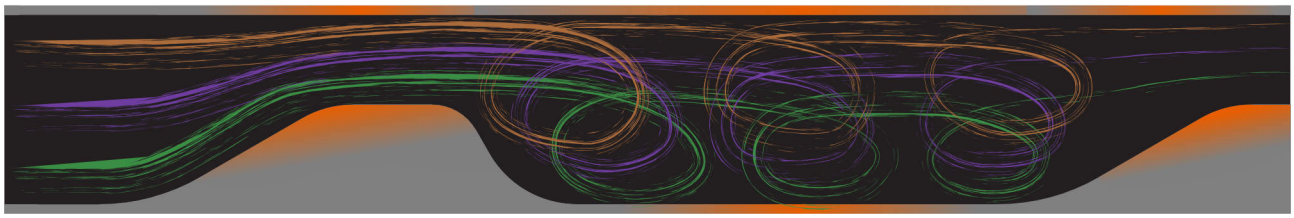
DOC: 50% less volume and 60% less Pt-loading.
SCR: 60% less volume and V-coating.
ASC: 50% less volume and Pt-loading.

Catalyst production

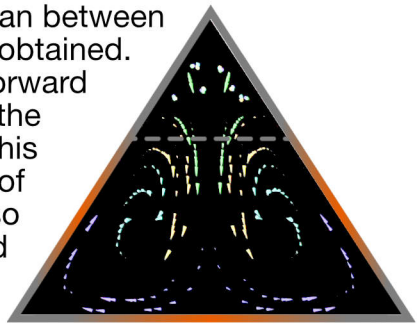
Key-ready production line and proven technology.
Ø100 mm = 1 min, Ø300 = 2.6 min, Ø600 = 8 min

ECO flow
Expanding, Circulating, well Organized flow

3x faster mass transfer and 5x more efficient.



The cross section area over the bumps is 4-5 times less than between the bumps. Over the bumps a high gas velocity is thereby obtained. When the gas flow reaches the end of the bump, it flows forward at the high speed in the upper part of the triangle peak. In the lower portion it expands and the speed is decelerated. In this way a rotation is created. When the rotation has lost most of its energy, the next bump comes. But the flow expands also laterally, whereby two counter-rotating screws are obtained along the canal. The result is a very effective flow of high heat and mass transfer rate and low pressure drop.



So far, there have been two types of flows in the current channel types, laminar or turbulent. The textbook says, ” A fluid can flow either laminar, i.e. rectilinear or turbulent i.e.disordered”. The definition and the theoretical basis for these flows were set up in the late 1800s. The laminar flow is dominant in both heat exchangers and catalysts. The turbulent has been used only in special cases because of its relatively high pressure drop.

ECO flow **is a brand new** flow that is neither laminar nor turbulent. There is an **Expanding, Circulating** and **well-Organised** flow, which in any point has a defined flow rate and direction.

The very high efficiency of ECO flow is the largest development step in the gas flow technology of current catalysts and heat exchangers.

More information

Click the buttons for more information (requires Internet access).

ECO flow | Catarsis | ESC test Lund

EURO 7 | Cost | 99.5%, 4 times less

Production Info | Production Video | Metal

Nilcon Engineering's licencees of Ecocat Metal Substrates

Together 30% of the global market of metal substrates

Ecocat India VICAT Group

Ecocat India

- Coated DPF (Pt), (Pt/Pd)
- CNG catalysts (Pt, Pd, Rh
- Urea hydrolysis catalysts

Dinex Group

Dinex Group

Today, the Dinex Group operates through 16 companies and employs over 1,400 people worldwide. The Dinex Groupis present in 14 countries with production and sales facilities in Denmark, UK, Germany, Latvia, USA, Turkey, Russia and China. Additionally, the Dinex Group has sales companies in Spain, Italy, France, Germany, UK, Poland and Serbia.

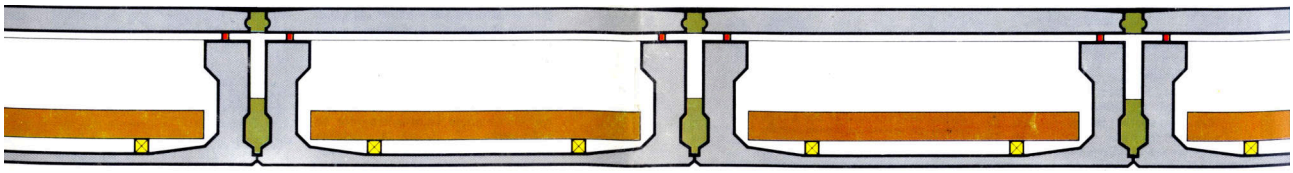
Coated Ecocat Substrates for DOC-SCR-Oxicat-TWC-ASC-VOC

Ecocat Italia

Ecocat Italia

Ecocat Italia: domani sciopero e presidio sotto ...
cisl-liguria.it

Nilcon ENGINEERING AB Prefab System

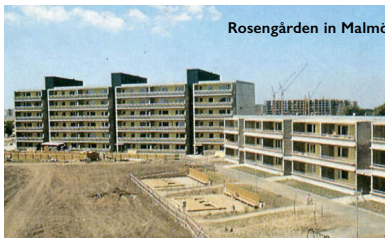


Buildings with Nilcon Prefab System

Öxnehaga, Husquarna, 2000 flats

Klaraberg, Hisingen, 2000 flats

S:a Valsätra-Gottsunda, Uppsala, 2600 flats



Rosengården i Malmö. 2000 flats

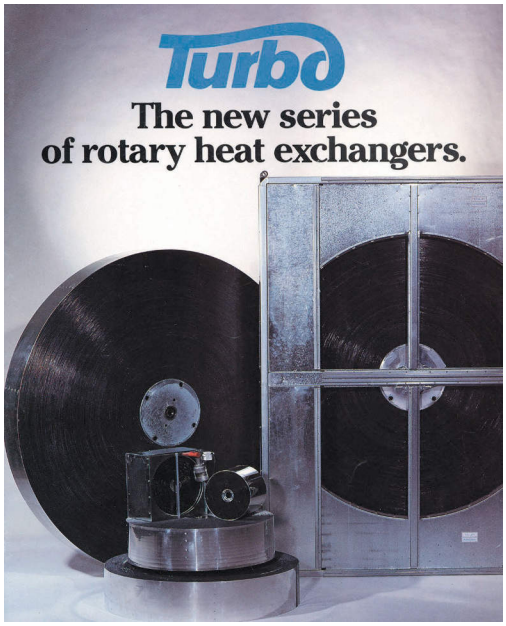
Ten large factories in Europe and one in USA.

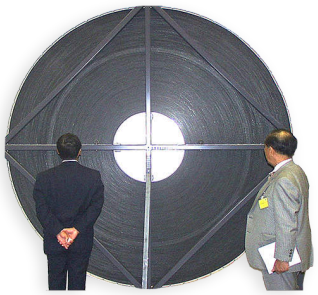
During the 70s, the largest producer of concrete prefab houses, offices, schools and industries in Europe.

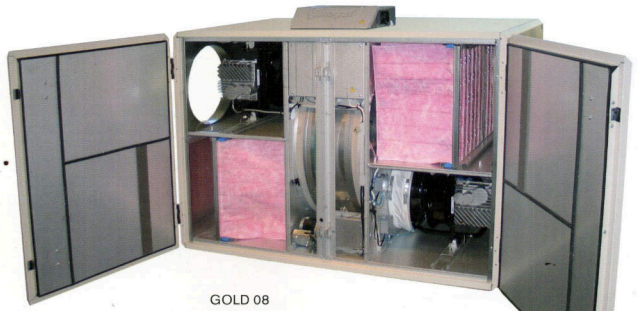
Swegon Rotary heat exchangers

Swegon

Current sales/year € 550 million. In 95% of the air handling units there are Nilcons Heat Recovery Units since 1982.







Nilcon Vane Borer

Info on Goog

Nilcon Vane Borer is an international standard for in situ testing of clay strength and deformation properties.