

BIOENERGY INNOVATIONS



BURNERS AND BOILERS

KONEPAJA M. PAPPINEN LTD

BIOENERGY FORERUNNER

WHO WE ARE :

- FOUNDED 1981
- BIOENERGY COMPETENCY
- MANUFACTURING AND TESTING OF NOVEL PROTOTYPES
- EXTENSIVE PATENT PORTFOLIO

WHAT WE DO :

- PROTOTYPE DEVELOPMENT & INNOVATION
- PROBLEM SOLVING & CONSULTING
- CLEAN BIOENERGY TECHNOLOGIES & CHP
- WASTE ENERGY SOLUTIONS



WOOD PELLETS



ENERGY CONTENT 4,7 KWH/KG



ASH CONTENT 0,5 %



CO₂ NEUTRAL

COAL



ENERGY CONTENT 7 KWH/KG



ASH CONTENT 4 %

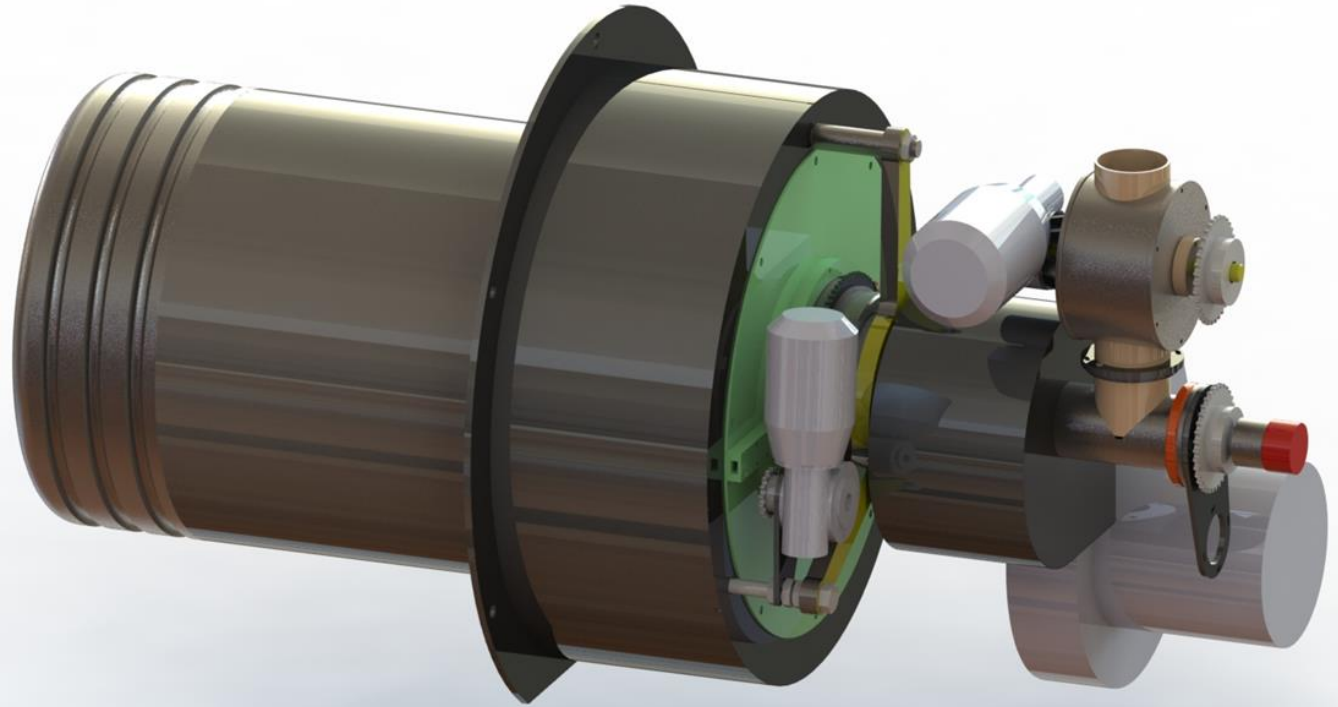


CO₂ AND SO₂ EMISSIONS





HylicFlame[®]



POWER RANGE 30 KW – 1 MW
EFFICIENCY COEFFICIENT 97 %



LOW EMISSIONS 17 – 60 PPM



PATENT GB 2494403
PATENT EP 2753878



HylicFlame[®]



BURNING TEMPERATURE +950 – 1200 C°



NO NEED TO CLEAN THE BURNING CHAMBER

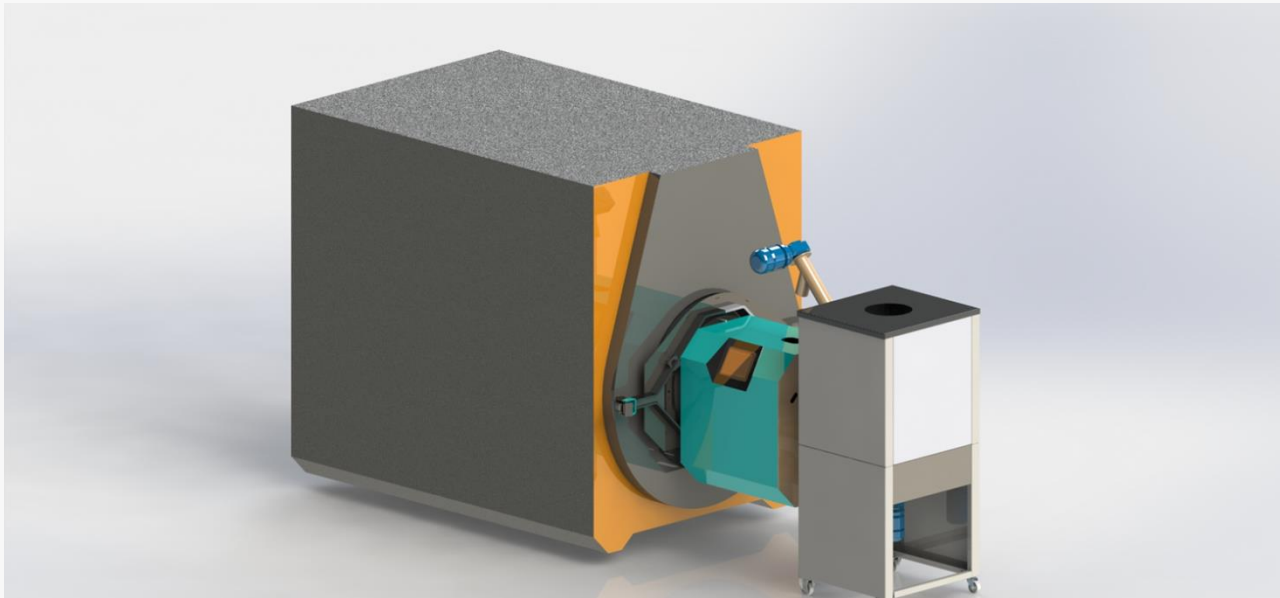


CLEAN CONVECTION SURFACES



HYLIC STEAM BOILER

FUELED BY WOOD PELLET



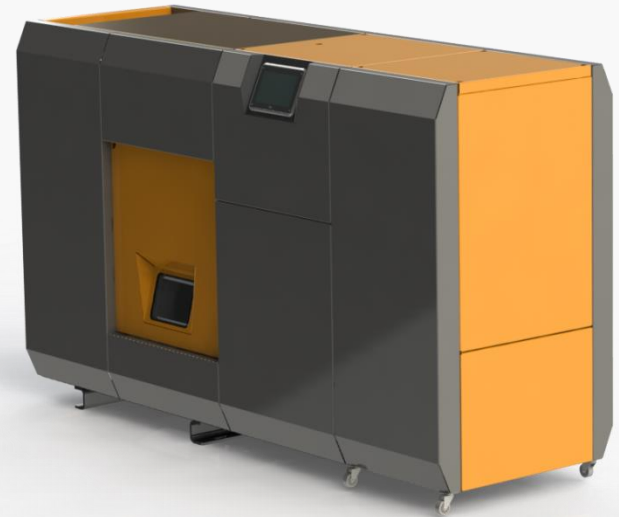
STEAM BOILER PRESSURE 10 BAR



UNDER TESTING : 1 MW
STEAM BOILERS
10 BAR

HYLIC HOT WATER BOILER

NEW CONSTRUCTION - POWER RANGE 50 KW – 1 MW



FIRE TUBE – FIRE PIPE
BOILER



TEMPERATURE MAX +120 C°



BOILER PRESSURE 1,5 - 4 BAR

HYLIC HOUSE



MOVABLE POWER UNIT CONTAINER



VARIOUS SIZES
UNDER
DEVELOPMENT



COMBUSTION GAS
CLEANING TECHNOLOGY
UNDER DEVELOPMENT

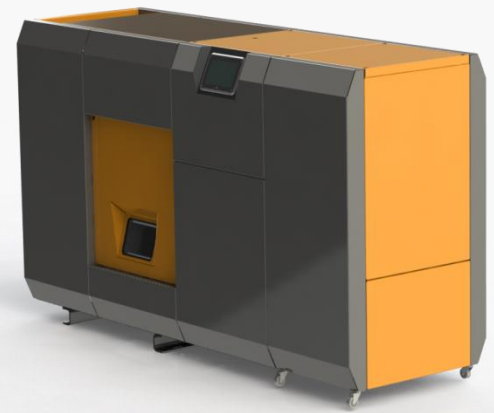
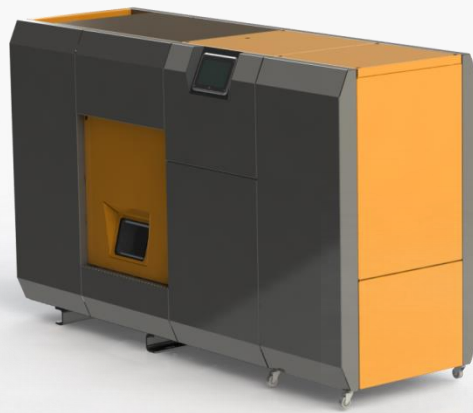
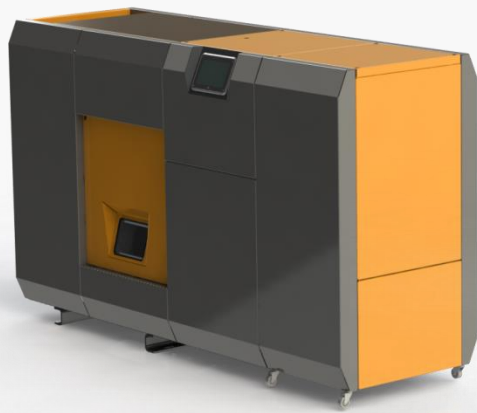


SALO, FINLAND

HYLICFLAME 1MW PELLETBURNER



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