

ENERGY
ENVIRONMENT
ECONOMY

WATER COOLED STEAM CONDENSERS



Wärtsilä develops, manufactures and distributes thermal desalination plants and water & air cooled condensers for example for decentralized power plants or maritime applications.

We offer an extensive service during start up, operation and maintenance with our experienced service team.

With our production facility in Germany we are able to provide customized solutions within a short delivery time and with tight quality control.

Wärtsilä Serck Como water cooled steam condensers (WCC) are used in a steam cycle to condense the steam after the turbine. They close the water steam cycle and also create a vacuum on the outlet of the turbine which increases the efficiency of the turbine.

Our WCC's are completely assembled on a steel frame, including all necessary accessories, which guarantees a trouble free and easy installation on your plant.

BENEFITS

- Completely assembled unit on a single steel frame
- Individually designed according to specific plant requirements
- Flow optimized

STANDARD FEATURES INCLUDE

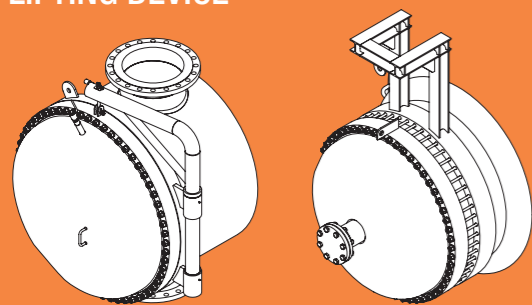
- Cabeling
- Pumps
- Level control for the condensate
- Evacuation



a Wärtsilä product

WÄRTSILÄ

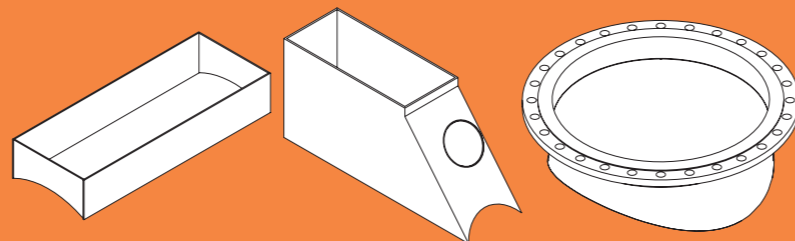
LIFTING DEVICE



Rotable

Fixed

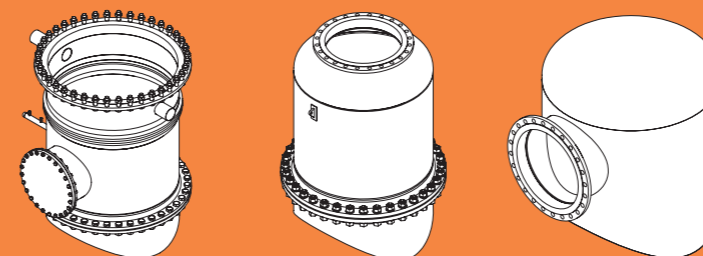
TURBINE CONNECTION



Rectangular design for direct connection to steam pipe

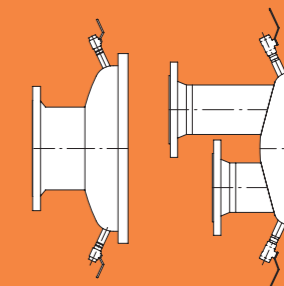
Flanged connection

DUMP TUBE

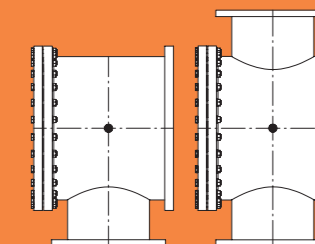


Dump tube for turbine bypass operation

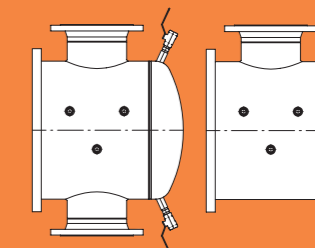
WATER CHAMBERS



Axial

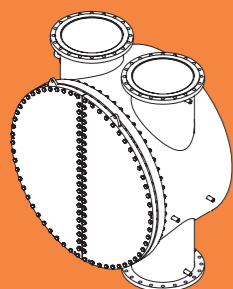


Radial with head plate



Radial with welded head

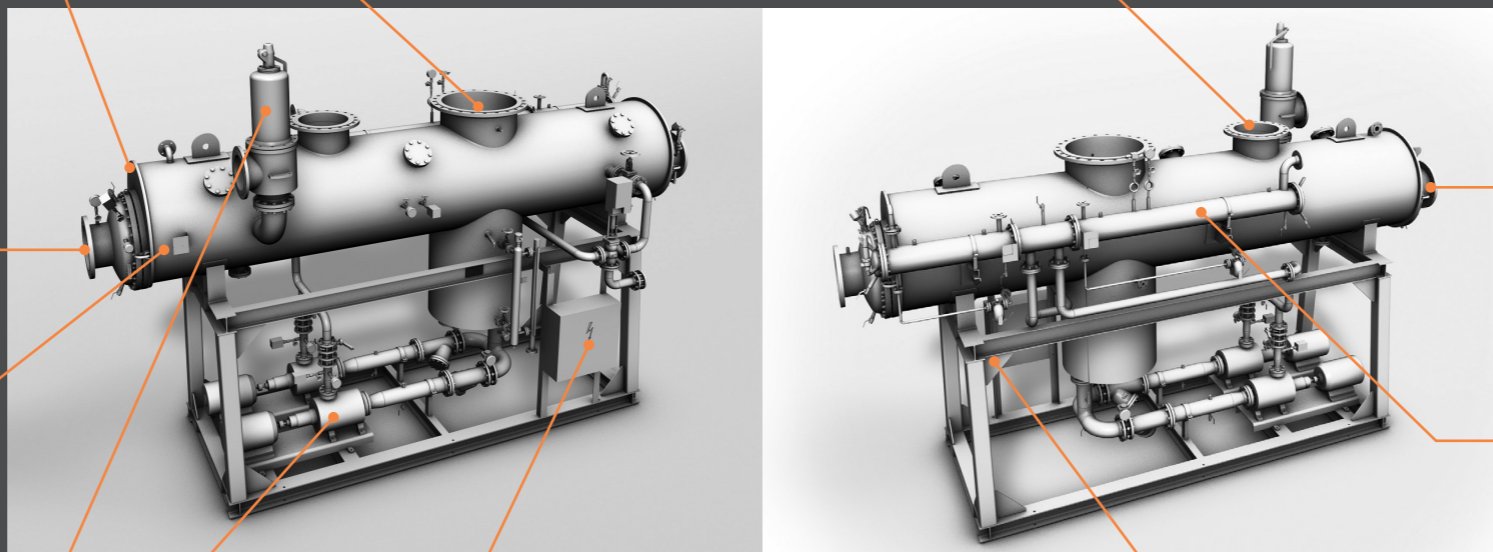
DIVIDED WATER BOXES



For continuous operation during maintenance

INSULATION/HEATING

Insulation and heating of the complete unit or sensitive parts for application in very cold environment including selection of suitable materials.



SAFETY DEVICE

- Safety Valve
- Rupture Disc

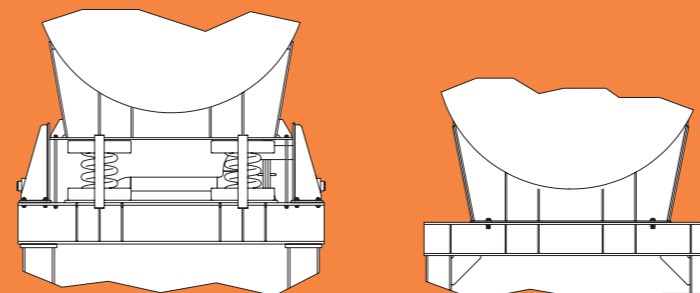
PUMPS

- Conventional
- Frequency Controlled
- Redundancy
 - 2 X 100% or
 - 3 X 50%

CONTROL CABINET

- Including control panel
 - or with junction box for connection to main control room
 - or without cabinet

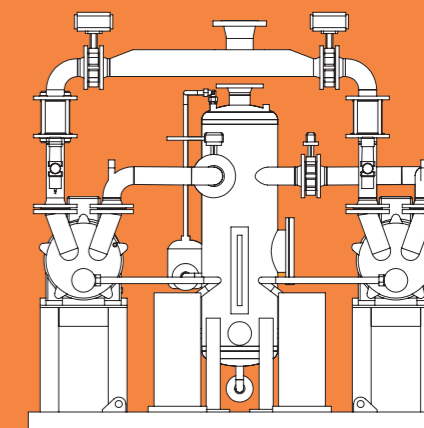
MOUNTING



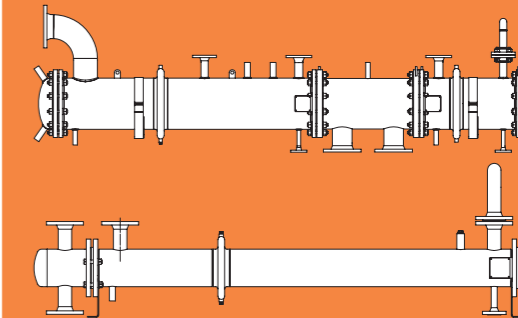
Spring Mounting

Fixed Mounting
Loose and fixed end

EVACUATION SYSTEMS



Water Ring Pump



Steam condenser for ejector
1-stage/2-stage with condensate or with water from main cooling system

APPROVALS

- ISO 9001
- TR (Russia)
- ISO 14001
- OHSAS 18001

DESIGN CODE

- AD 2000
- PED 97/23 CE
- DIN EN 13445

THIRD PARTY INSPECTION

- GL
- DNV
- TÜV
- TR (Russia)
- LR
- BV

PIPE MATERIALS

- Stainless steel
- CuZn
- Carbon steel
- CuNi
- Titan

SHELL MATERIALS

- Steel
- CuNi
- Stainless steel
- CuAL

TECHNICAL DATA

- Max. steam flow: 150 t/h
- Max. diameter: 3000mm
- Max. length: 12000mm



SERVICE

Wärtsilä Serck Como employ our own service team that are able to assist you with the installation of the unit or provide after sales service such as repair and maintenance. We use state of the art technology to analyse the condition of the WCC such as:

- Eddy current test EN 473
- Thermal imaging camera



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