



**E D U R - Pumpenfabrik
Eduard Redlien GmbH & Co. KG**

Pump Manufacturer since 1927

EDUR Applications - Examples



Aquaculture – NUB(L)



- Use NUB/L GBz
- All-Bronze
- Seawater
- Oyster Farming
- "Sylter Royal"

Seaship Operation Cooling Water – LUB(L)



9 EDUR Cooling Water Pumps
LUBL 100 G162V - Motor 21,3 kW
LUBL 40 C110 - Motor 1,75 kW

MS Europa 2



Seaship Operation Boiler Plant – NHE LBU



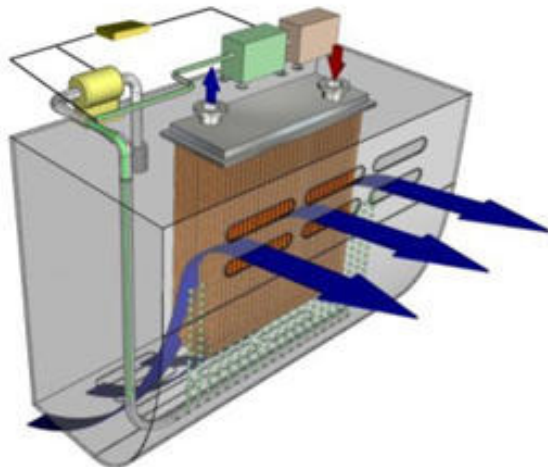
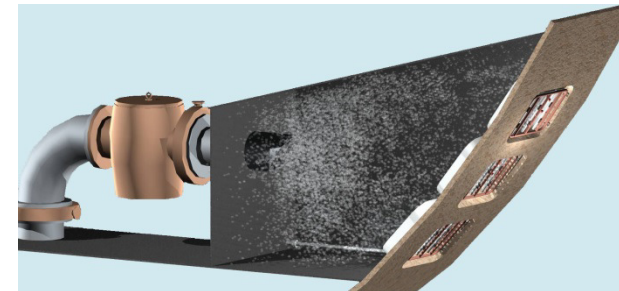
3 pieces type NHE 1005 E160L Boiler Feed Water +110°C
84 kW | 60 Hz | Anti-condensation Heater | BV Classification

Multiphase Flotation Cruise Ships - LBU



- „Oasis of the Seas“
- Green Ship Technology
- Wastewater Treatment
- Dissolved Air Flotation
- LBUX 602 E162L

Multiphase Technique Cooling Water – Use of Ozone



- BioFoulControl
- Model LBU 402 C120L
- Material Super Duplex
- Ozone Generator
- EC 7th Framework Programme



Multiphase Technique Aquaculture – Use of Ozone



- RAZone
- Types PBU
- Material Stainless Steel
- Ozone Generator
- EC 7th Framework Programme



Multiphase Flotation Oil Industry - LBU



- East China Sea Oilfield
- Off-Shore Plattform



Multiphase Flotation Oil Industry - LBU



- Daqing (formerly Taching) Oilfield
- Largest Oilfield in China
- Discovered 1959
- Reserves 3,6 bn. barrel



Bio Fuels Plants – LBU LBM



ROSSI Bio Fuel

15 pieces EDUR Pumps

LBU 401 C120L / II2GBT3

LBM 402 C120L / II2GBT3



Emergency Water Supply – SUB SU



Emergency Water Supply
THW (German Federal Agency
for Technical Relief)

Booster Systems – VBU LBU



- Municipal Water Supply
- VBU vertical types
- High-rise buildings
approx. 140m height



- Industry Water Supply
- LBU horizontal types
- Booster Systems

Municipal Water Works - VBU



- Municipal Water Supply
- 4 pieces VBU 602 E145L
- Motor 11 KW
- Vertical type
- Parallel operation

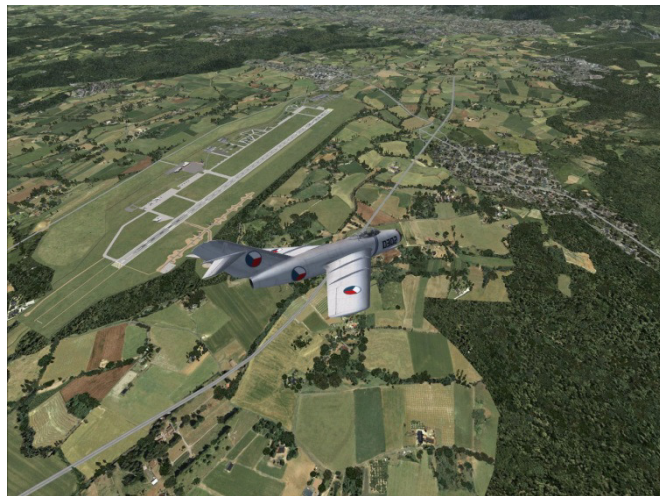
Municipal District Heating – NU LBU



- Municipal District Heating Systems
- Multistage Centrifugal Pumps
- Types NU 1002 G170V
- Types LBU 402 A142L
- Secondary circuits (heat transfer)
- Hot water +68°C (max. +80°C)

Air Fields Fueling - SU

- Air Field Fueling Military Airport (Air Force)
- Competitors Dickow, Sigma, Victor
- Pump Types S - GGG 40.3 - ATEX II2GCT4
1 SU 501C120L
3 SU 601D160L
3 SU 702E160L
2 SU 702G180V



Liquefied Petrol Gas Transport – NHU LBE



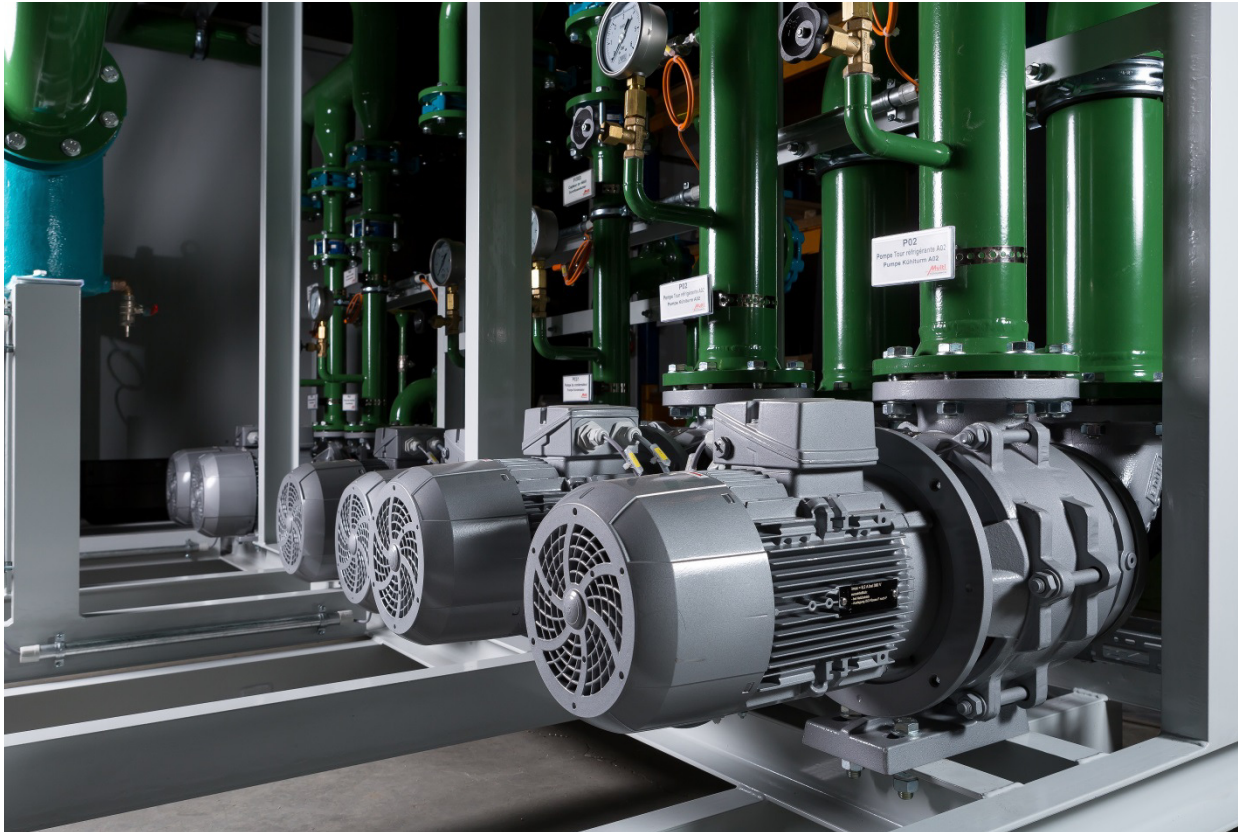
- LPG-System (50 tanks each 175 m³)
- Delivery by waggons
- Loading of tank trucks and ships
- NHU 1003 G165L II2GCT3/ 20,0KW
- 65 m³/h - 100 m (approx. 5,5 bar)
- LPG DIN 51622 (density 0,56 kg/dm³)

Absorption Chillers Plants – LBM NHM

- Ammonia/water absorption chillers enable cooling outlet temperatures as low as -28°C . Mainly waste heat is needed which accumulates during an industrial process or through electricity generation by means of a gas motor or gas turbine.
- Typical fields of application are food and beverage industry (e.g. fruit and vegetable storage, freezing or cooling storage facilities, breweries, dairies, industrial bakeries and butcheries), the chemical industry as well as distribution centers.



Cooling Industry – SUBL SUBS



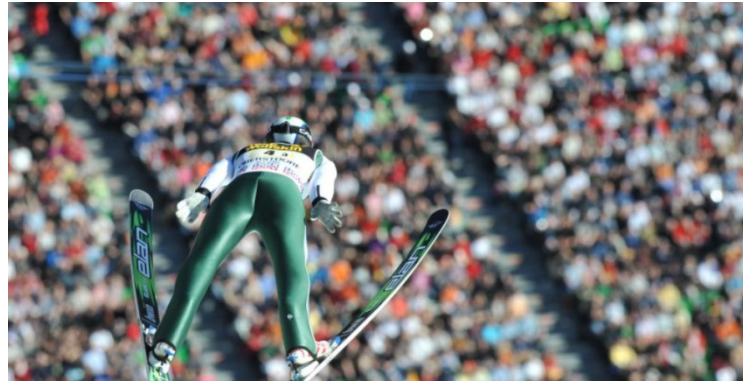
- SUBL 600 / SUBS 700
- Selfpriming EDUR Centrifugal Pumps
- Cooling Water Pumps
- Foam Plastic Production in Algeria

Ground Freezing Systems NUB NHE



- NUBXL 700 / NHEX 1004
- EDUR Brine Pumps
- Freeze Shafts in Perm/Russia

Cooling Technology – „No Pump No Jump“



- Water/Propylen Glycol 55/45
- LBU 405 A120L / 7,5 KW
- Oberstdorf Ski Jump Competition

