

# Pumps for nuclear power plants

## LUV® Nuclear Reactor coolant / reactor water clean-up pump



DN	40 - 600
Q [m³/h]	max. 7000
H [m]	max. 300
p [bar]	max. 320
T [°C]	max. +430

Higher values available upon request

**Design:** Vertical pump with integrated motor, single-entry, one to three stages. Suitable for very high inlet pressures and temperatures. Integrated wet winding motor to VDE. Product-lubricated bearings, no need for oil supply systems. Design to ASME Section 3, KTA, etc.

**Applications:** As reactor water clean-up pump RWCP in boiling water reactors, reactor coolant pump RCP in boiling water and pressurized water reactors, and as recirculation pump in test facilities.

Reference no. 1128.022

available in 50 Hz and 60 Hz

## RHM Pump for safety-related and auxiliary systems



DN	max. 150
Q [m³/h]	max. 300
H [m]	max. 2100
p [bar]	max. 220
T [°C]	max. +180
n [min⁻¹]	max. 8000

Higher values available upon request

**Design:** Horizontal, multistage barrel pull-out pump.

**Applications:** Core flooding, emergency cooling and residual heat removal systems RHRS, chemical and volume control systems CVCS, control rod drive systems CRDS, high- and medium-pressure safety injection systems HPSI / LPSI / MHSI / LHSI, emergency feed water systems EFWS, start-up and shutdown feed water systems SSS, high-pressure charging.

Reference no. 1666.021

available in 50 Hz and 60 Hz

## RVM Pump for safety-related and auxiliary systems



DN	max. 85
Q [m³/h]	max. 50
H [m]	max. 2000
p [bar]	max. 200
T [°C]	max. +100
n [min⁻¹]	max. 6000

Higher values available upon request

**Design:** Vertical, multistage barrel pull-out pump.

**Applications:** Core flooding, emergency cooling and residual heat removal systems RHRS, chemical and volume control systems CVCS, high- and medium-pressure safety injection systems HPSI / LPSI.

Reference no. 0166.021

available in 50 Hz and 60 Hz

## RHR Pump for safety-related and auxiliary systems



DN	max. 500
Q [m³/h]	max. 6000
H [m]	max. 190
p [bar]	max. 63
T [°C]	max. +200
n [min⁻¹]	max. 3600

**Design:** Horizontal annular casing pump with forged or cast pressure boundary and diffuser.

**Applications:** Core flooding, emergency cooling and residual heat removal systems RHRS, ancillary systems, acid feed system and low-pressure injection system LPSI, component cooling water system CCWS, essential service water system ESWS.

Reference no. 1662.021

available in 50 Hz and 60 Hz

## RVR Pump for safety-related and auxiliary systems



DN	max. 500
Q [m³/h]	max. 6000
H [m]	max. 190
p [bar]	max. 63
T [°C]	max. +200
n [min⁻¹]	max. 3600

**Design:** Vertical annular casing pump with forged or cast pressure boundary and diffuser.

**Applications:** Core flooding, emergency cooling and residual heat removal systems RHRS / RNS, ancillary systems, acid feed system and low-pressure injection system LPSI, component cooling water system CCWS, essential service water system ESWS.

Reference no. 1662.021

available in 50 Hz and 60 Hz