

## KIT COMPOSITION

for	BAHR'UNO	BAHR'12
	BAHR'3G	TRYPASS'
with	IMC	IML

### KIT HWL std high water level safety sensor

#### Kit Composition

- Nr. 1 electrode type sensor for high water level safety alarm



for	BAHR'UNO	BAHR'12	TRYPASS'
with	IMC	IML	

### KIT HWL

“Fail safe”, safety maximum water level switch,  
CE PED certified

#### Kit Composition

- Nr. 1 safety sensor 1/2” connection
- Nr. 1 sensor electrode in stainless steel
- Nr. 1 Safety regulator with self-diagnosis
- Electrical components



## KIT COMPOSITION

### KIT TDS 1

#### Salinity control group

for	BAHR'UNO	
with	IMC	IML

#### Kit Composition

Boiler water salinity control group through sensor for electrical water conductivity, made of:

- Conductivity sensor
- Flanged connecting pipe
- Gate valve
- Surface drain valve pneumatically actuated on high salinity/conductivity values
- Gasket
- Electrical kit with selectors and basic electronic regulator



### KIT TDS 2

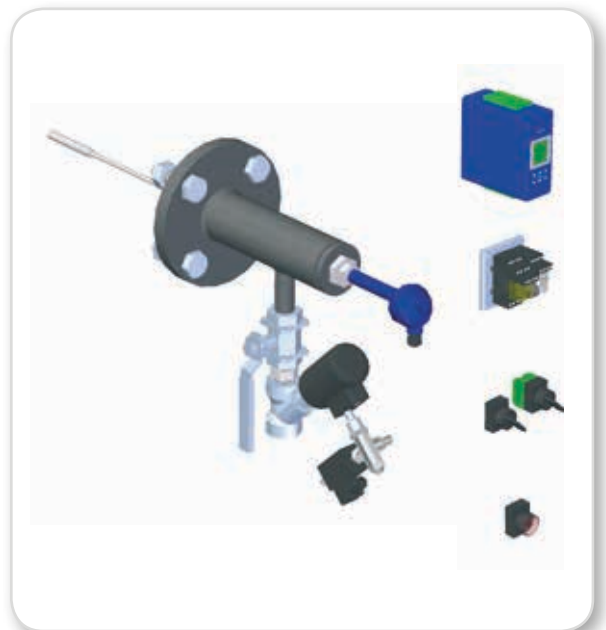
#### Salinity control group

for	BAHR'UNO	
with	IMC	IML

#### Kit Composition

Boiler water salinity control group through sensor for electrical water conductivity, made of:

- Self cleaning conductivity sensor with temperature compensation for measurement of TDS
- Flanged connecting pipe
- Gate valve
- Surface drain valve pneumatically actuated on high salinity/conductivity values
- Gasket
- Electrical kit with selectors and advanced electronic regulator



## KIT COMPOSITION

### KIT TDS 1

#### Salinity control group

for	BAHR'12	BAHR'3G	TRYPASS'
with	IMC		IML

#### Kit Composition

Boiler water salinity control group through sensor for electrical water conductivity, made of:

- Conductivity sensor
- Flanged connecting pipe
- Gate valve
- Surface drain valve pneumatically actuated on high salinity/conductivity values
- Gaskets
- Counterflange
- Electrical kit with selectors and basic electronic regulator



### KIT TDS 2

#### Salinity control group

for	BAHR'12	BAHR'3G	TRYPASS'
with	IMC		IML

#### Kit Composition

Boiler water salinity control group through sensor for electrical water conductivity, made of:

- Self cleaning conductivity sensor with temperature compensation for measurement of TDS
- Flanged connecting pipe
- Gate valve
- Surface drain valve pneumatically actuated on high salinity/conductivity values
- Gaskets
- Counterflange
- Electrical kit with selectors and advanced electronic regulator



## KIT COMPOSITION

### KIT BLOW DOWN

#### Boiler bottom automatic drain group

for	BAHR'UNO
with	IMC

Kit composition

Automatic drain group, controlled by timer cycles with desliming function, made of:

- 90° gate valve
- Fast opening pneumatic valve
- Gaskets
- Counterflange
- Electrical kit (for IMC\*)

\*to be combined with KIT TDS 2

### KIT BLOW DOWN

#### Boiler bottom automatic drain group

for	BAHR'UNO
with	IML

Kit composition

Automatic drain group, controlled by timer cycles with desliming function, made of:

- 90° gate valve
- Fast opening pneumatic valve
- Gaskets
- Counterflange
- Electrical kit (for IML)

### KIT BLOW DOWN

#### Boiler bottom automatic drain group

for	BAHR'12	BAHR'3G	TRYPASS'
with	IMC		

Kit composition

Automatic drain group, controlled by timer cycles with desliming function, made of:

- 90° gate valve
- Fast opening pneumatic valve
- Gaskets
- Counterflange
- Electrical kit (for IMC\*)

\*to be combined with KIT TDS 2

### KIT BLOW DOWN

#### Boiler bottom automatic drain group

for	BAHR'12	BAHR'3G	TRYPASS'
with	IML		

Kit composition

Automatic drain group, controlled by timer cycles with desliming function, made of:

- 90° gate valve
- Fast opening pneumatic valve
- Gaskets
- Counterflange
- Electrical kit (for IML)



## KIT COMPOSITION

for	BAHR'UNO		
with	BASIC	IMC	IML

### KIT 2<sup>nd</sup> PUMP

#### Kit second boiler water feeding pump

##### Kit composition

- A 2<sup>nd</sup> three phase 400V / 50 Hz motor pump
- Basement with vibration-damping feet
- Check valve
- Gate valve
- Fitting pipe



for	BAHR'12	BAHR'3G	TRYPASS'
with	BASIC	IMC	IML

### KIT 2<sup>nd</sup> PUMP

#### Kit second boiler water feeding pump

##### Kit composition

- A 2<sup>nd</sup> three phase 400V / 50 Hz motor pump
- Basement with vibration-damping feet
- Check valve
- Gate valve
- Fitting pipe
- Gaskets
- Counterflange for feeding water connection



## KIT COMPOSITION

for	BAHR'UNO	
with	IMC	IML

**KIT EC (gas) / KIT EC (light oil)****Economizer kit****Efficiency increase: +3%**

## Kit composition

- Exchange battery with carbon steel finned pipes
- Modulating valve
- Transformation piping
- Thermometer



for	BAHR'12	BAHR'3G
with	IMC	IML

**KIT EC (gas) / KIT EC (light oil)****Economizer kit<sup>(1)</sup>****Efficiency increase: +4%**

## Kit composition

- Exchange battery with carbon steel finned pipes
- Modulating valve (Inverter as per model 2000)
- Transformation piping
- Thermometer

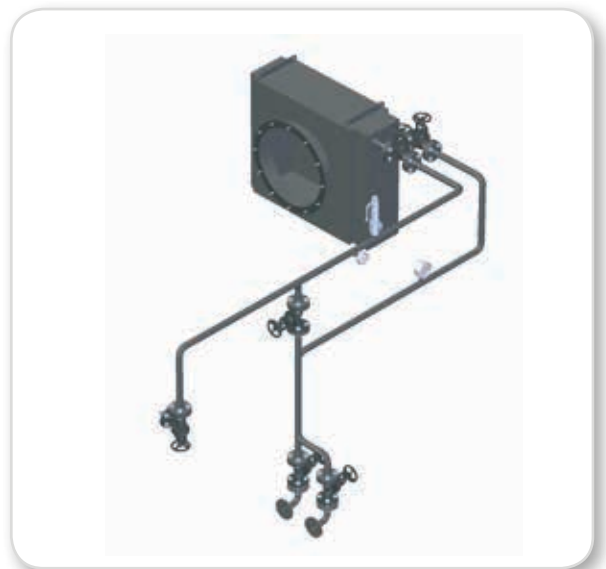
(1) Inverter as per model 2000

for	TRYPASS'	
with	IMC	IML

**KIT EC (gas) / KIT EC (light oil)****External economizer kit****Efficiency increase: +5%**

## Kit composition

- Exchange battery with carbon steel finned pipes
- Kit Inverter (IML) / Kit Modul V (IMC)
- Transformation piping
- Thermometer



## KIT COMPOSITION

for	BAHR'UNO
with	IMC

### KIT MODUL V

#### Water level modulation

##### Kit composition

- Tank and level capacitive sensor
- Solenoid valve for flow rate adjustment
- Connection piping
- Electrical kit for IMC



for	BAHR'UNO
with	IML

### KIT MODUL V

#### Water level modulation

##### Kit composition

- Tank and level capacitive sensor
- Solenoid valve for flow rate adjustment
- Connection piping



## KIT COMPOSITION

for BAHR'12 BAHR'3G TRYPASS'  
with IMC

### KIT MODUL V

#### Water level modulation

Kit composition

- Tank and level capacitive sensor
- Pneumatic valve for flow rate adjustment
- Connection piping
- Electrical kit for IMC



for BAHR'12 BAHR'3G TRYPASS'  
with IML

### KIT MODUL V

#### Water level modulation

Kit composition

- Tank and level capacitive sensor
- Pneumatic valve for flow rate adjustment
- Connection piping



for BAHR'12 BAHR'3G TRYPASS'  
with IML

### KIT MODUL INVERTER

#### Water level modulation

Kit composition

- Additional inverter board panel





## KIT COMPOSITION

### KIT SAMPLE COOLER

for BAHR'12 BAHR'3G TRYPASS'

#### Water samples cooling group

Samples of boiler water need to be analysed on a regular basis to check if its values are within correct parameters.

Bad water quality is a major cause of boiler damages.

Sample cooler is necessary to take samples safely cooling them down; it suppresses flash steam also, ensuring accurate samples.

The cooler consists of a stainless steel coil, through which the sample flows, and a stainless steel body, through which cooling water flows in the opposite direction.

#### Kit composition

The cooler is composed by the following parts:

- Stainless steel cooler
- Sample inlet valve
- Cooling water inlet valve
- Connection piping

for	BAHR'12	TRYPASS'
with	IMC	IML



### KIT DRY RUN PROTECTION

#### Protection against dry operation of the water pump

#### Kit composition for one pump

- Nr. 1 Pressure switch and fitting
- Electrical kit for IMC/IML

#### Kit composition for two pumps

- Nr. 2 Pressure switches and fittings
- Electrical kit for IMC/IML

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with	IMC	IML

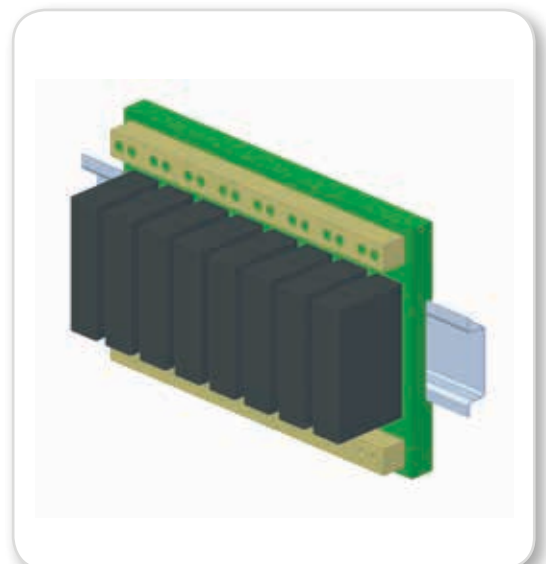


### KIT REMOTE ALARM

#### Alarms remotation

#### Kit composition

- Relay PCB with wiring harness interface



## KIT COMPOSITION

for	BAHR'UNO	BAHR'12
	BAHR'3G	TRYPASS'
with	IMC	

### KIT SIGNAL TOWER

Kit composition

- Luminous signalling tower



for	BAHR'UNO	BAHR'12
	BAHR'3G	TRYPASS'
with	IML	

### KIT REMOTE WEB CONTROL 3G

Kit composition

- Ethernet Router - 4 ports / modem 3G
- Antenna
- Connecting cables for touch-screen and PLC



for	BAHR'UNO	BAHR'12
	BAHR'3G	TRYPASS'
with	IML	

### KIT REMOTE WEB CONTROL ADSL

Kit composition

- Ethernet Router - 4 ports / modem ADSL
- Connecting cables for touch-screen and PLC

