

## 2 General

### 2.1 Description of the pump

The CombiLine B is a built-in circulation pump constructed with a lantern piece and a standard IEC electric motor with flange. That means that the medium to be pumped will not get into the electric motor. The pump is provided with a mechanical seal with bellows mounted on the stub shaft which is mounted directly on the motor shaft. The CombiLine B has been designed as a monobloc pump which means that pump, lantern piece and electric motor have been assembled to form one compact unit. Suction and delivery flange are in-line, so the pump can easily be built into straight pipes without a foundation being required. The pump can also be mounted with the suction bend placed on a foundation by means of the special support device. The CombiLine is available in a 1450 and a 2900 rpm version (at 50 Hz). The flanges are according to DIN 2633 PN16 or DIN 2631 PN6.

### 2.2 Typification

Pumps of the CombiLine B family are available in a number of types. The most important characteristics of a pump are mentioned in the typification.

Example:

#### **CLB 65-200 G1 90L 1450 min<sup>-1</sup> 400/695V 50 Hz**

<b>CLB</b>	= pump family (CombiLine Bloc).
<b>65</b>	= diameter suction and delivery connection in mm
<b>200</b>	= nominal impeller diameter in mm
<b>G1</b>	= material: G1: pumpcasing cast iron / impeller cast iron G2: pumpcasing cast iron / impeller bronze B2: pumpcasing bronze / impeller bronze
<b>90L</b>	= IEC electric motor size
<b>1450 min<sup>-1</sup></b>	= speed
<b>400/695V</b>	= voltage of the electric motor
<b>50 Hz</b>	= mains frequency

### 2.3 Applications

CombiLine B is a built-in circulation pump that can be used in the following areas:

- greenhouses
- hot and cold-water systems
- cooling-water systems
- utility building
- industrial installations