

SMCI & SMCN SERIES

Horizontal Multistage End-Suction Pumps 50 Hz



INTRODUCTION

The Lubi **SMCI** and **SMCN** pumps are non-self priming, horizontal, multistage, centrifugal pumps.

Motor and pump are close coupled in a convenient and compact design for quick installation in limited space.

The pump is fitted with a maintenance-free, mechanical shaft seal.

The pumps have axial suction port and radial discharge port and are mounted on a base plate.

These pumps are available in two basic versions.

- **SMCI:** Pump casing, suction casing as well as all parts in contact with the pumped liquid are made of stainless steel AISI 304.
- **SMCN:** Pump casing, suction casing as well as all parts in contact with the pumped liquid are made of stainless steel AISI 316.

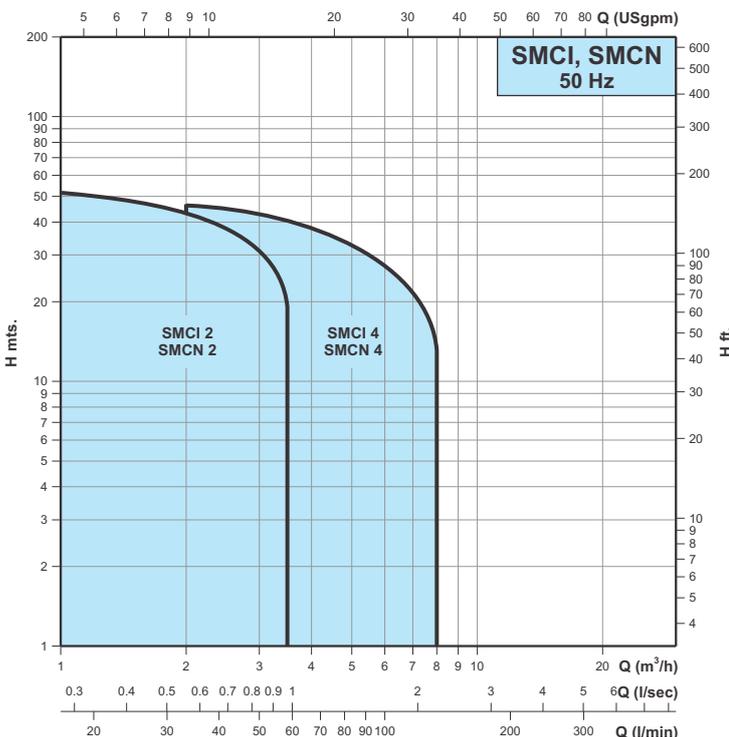
APPLICATIONS

The SMCI and SMCN pumps are designed for small domestic and industrial water supply systems.

Applications include

- Liquid transfer and circulation of liquids within light industry and farming
- Pressure boosting in single-pump and multi-pump booster systems
- Domestic water supply
- Cooling systems
- Air-conditioning systems
- Washing and cleaning systems
- Water treatment.

PERFORMANCE RANGE



FEATURES AND BENEFITS

- Compact design
- Reliable and robust construction
- Energy-optimised pumps
- Easy and simple installation
- User-friendly operation
- Low noise level
- Reliable water supply.

OPERATING CONDITIONS

Flow range : 0.5 - 8 m³/h
 Head range : Up to 48 metres
 Ambient temperature : Max. +55°C
 Liquid temperature range: 0°C to +90°C

The maximum operating pressure depends on the temperature of the pumped liquid, see the table below:

Pump type	Maximum operating pressure	
	1 Mpa (10 bar)	0.6 Mpa (6 bar)
	Temperature of the pumped liquid	
SMCI 2, SMCN 2	0°C to +40°C	+41°C to +90°C
SMCI 4, SMCN 4	0°C to +40°C	+41°C to +90°C

Min. inlet pressure : According to the NPSH curve + a safety margin of 1.0 metres.

Max. inlet pressure: Limited by the maximum operating pressure.

PUMP

The SMCI, SMCN pumps are non-self priming, horizontal, multistage, centrifugal pumps fitted with a mechanical shaft seal. The pumps have axial suction port and radial discharge port and are mounted on a base plate.

For pipe connections, see the table below:

Connections	SMCI 2, SMCN 2	SMCI 4, SMCN 4
Axial suction port	Rp 1	Rp 1¼
Radial discharge port	Rp 1	Rp 1
Drain hole, priming hole	Rp 3/8	Rp 3/8

MOTOR

The pump is fitted with a totally enclosed, fan-cooled, squirrel-cage induction motor.

Rated speed : 2900 rpm
 Enclosure class : IP 54
 Insulation class : F
 Standard voltages : 0.37 - 1.1 kW: 1 x 220-240 V
 0.37 - 1.1 kW: 3 x 380-415 V
 Supply frequency : 50 Hz

Single-phase motors have built-in thermal overload protection.

Three-phase motors must be connected to a motor starter according to local regulations.

SECTIONAL DRAWING & MATERIALS

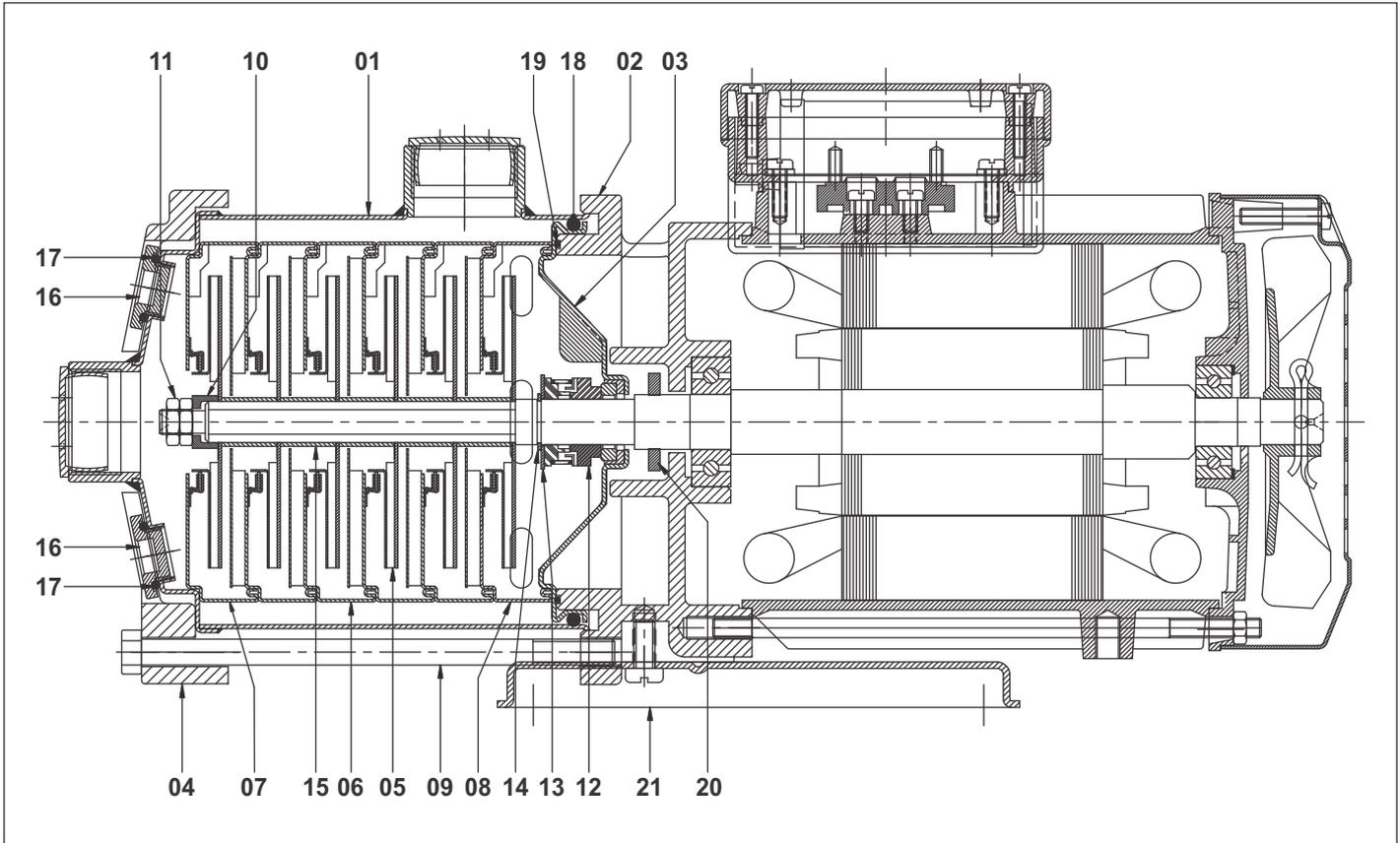


Fig. 1 SMCI, SMCN 2 and 4 pump

Materials

Pos.	Component	Material	
		SMCI	SMCN
1	Pump casing	Stainless steel AISI 304	Stainless steel AISI 316
2	Adaptor	Cast iron ASTM 30B	Cast iron ASTM 30B
3	Casing cover	Stainless steel AISI 304	Stainless steel AISI 316
4	Cover	Cast iron ASTM 30B	Cast iron ASTM 30B
5	Impeller	Stainless steel AISI 304	Stainless steel AISI 316
6	Bowl	Stainless steel AISI 304	Stainless steel AISI 316
7	Bowl without vane	Stainless steel AISI 304	Stainless steel AISI 316
8	Bowl (Sloted)	Stainless steel AISI 304	Stainless steel AISI 316
9	Hex bolt	Stainless steel AISI 304	Stainless steel AISI 304
10	Impeller lock bush	Stainless steel AISI 304	Stainless steel AISI 316
11	Hex nut	Stainless steel AISI 304	Stainless steel AISI 316
12	Mechanical Seal	Carbon/Ceramic/NBR	Carbon/Ceramic/NBR
13	Seal Washer	Stainless steel AISI 304	Stainless steel AISI 316
14	External Circlip	Stainless steel AISI 316	Stainless steel AISI 316
15	Impeller support bush	Stainless steel AISI 304	Stainless steel AISI 316
16	3/8" BSP Plug	Stainless steel AISI 304	Stainless steel AISI 316
17	Plug O-Ring	NBR	NBR
18	Pump Casing O-Ring	NBR	NBR
19	Casing Cover O-Ring	NBR	NBR
20	Water Thrower	NBR	NBR
21	Base Plate	Steel	Steel

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Product Improvement is a continuous process at 'LUBI'. The data given in this publication is therefore subject to revision.

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