

Description

The ST50/30/10 immersed vertical pump range benefits from proven design features gained through over 60 years of experience and developments, and has been specially designed to handle the transfer of industrial and corrosive fluids with flowrates from 1 up to 5m³/h and with a total head of up to 7 meters.

The innovative design integrates an internal stainless steel structure overmolded with plastic (PP or PVDF) which eliminates weak shaft connections whatever the temperature or liquid nature.

The chemical duty motor, with integrated extended SS shaft, ensures a great alignment of the impeller, the unique hydraulic part (closed impeller + innovative diffusor) has been enhanced through numerical simulations to improve hydraulic performances in comparison to existing pumps.

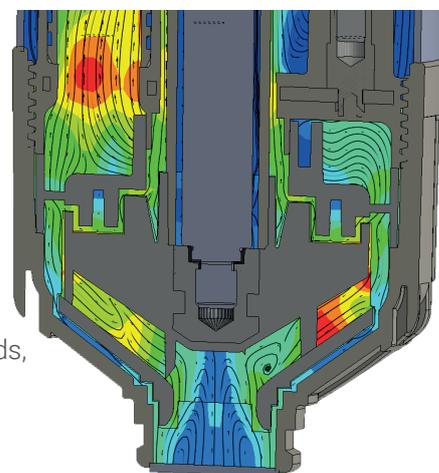
All those innovations allow the pump to reach incredible efficiency. All our pumps are individually tested in order to ensure proper operation and hydraulic performances.

Highlights

- High efficiency : 20% higher than the market average pumps
- Important energy savings
- Improves productivity through enhanced hydraulic performances
- Quiet and vibration free operation
- Ultracompact design
- Dry run possible without damage to the pump
- Robust and reliable
- High density version available on request (up to d=2m)

Typical applications

- Electroplating baths, rinse bath, acids, alkalis, chemically contaminated fluids, corrosive media and effluents
- Works in the bath only (a version that works outside of the tank is also available)



ST50

ST30 - ST10



VERTICAL PUMP

- Made of Polypropylene or PVDF, gaskets FPM or EPDM
- Will replace most OEM pumps
- Integrated return pipe, DN20 outlet, G1"1/4 nut
- Aluminum high efficiency motors with integrated extended stainless steel shaft
- No metal parts in contact with corrosive liquids (bolts and nuts included).
- Runs dry without damage to the pump

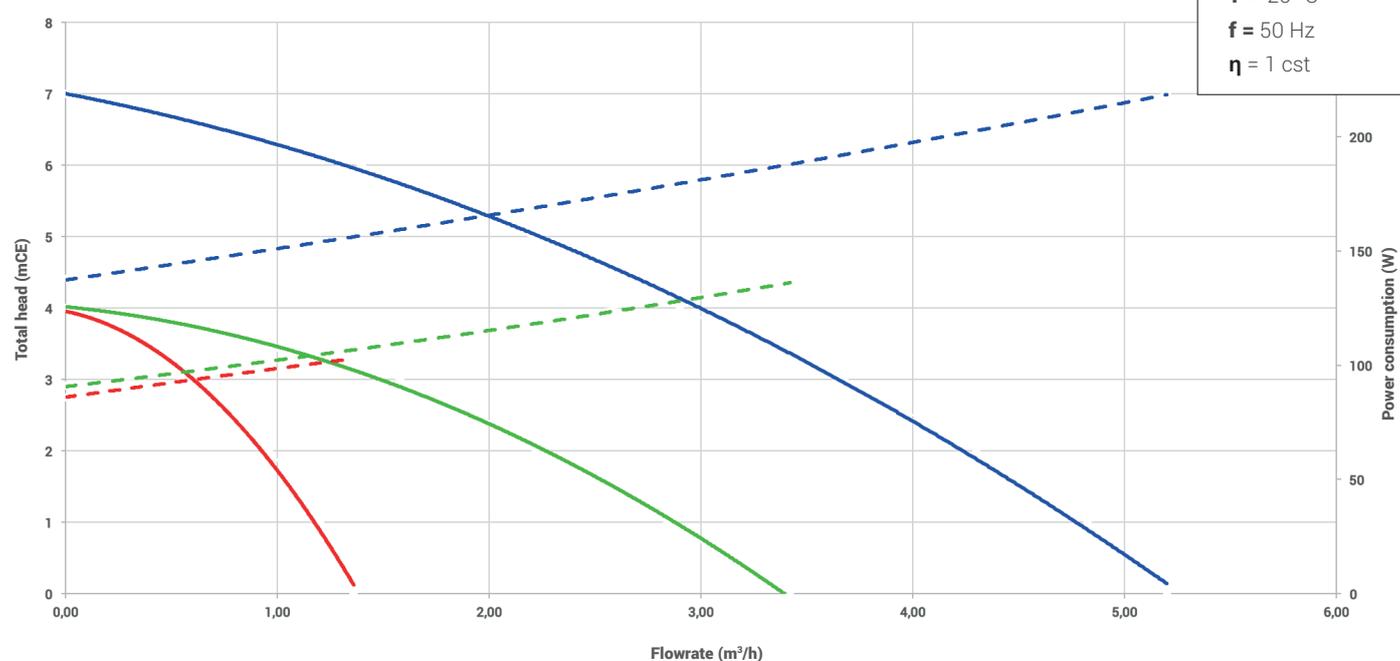


- Chemical duty motor, sealed with oversized bearings
- Internal stainless steel structure, overmolded with plastic
- Great stability whatever the temperature
- Quiet, vibration free
- Enclosed bottom impeller and integrated diffuser provides efficient flow performance at low horsepower
- Back impeller prevents liquid from rising in the column, even at maximum TDH
- Compact size 100 mm diameter volute case
- Strainer included

VERTICAL PUMP

Features	ST10	ST10 PVDF	ST30	ST30 PVDF	ST50	ST50 PVDF
Assembly	In tank					
Electrical motor	integrated					
Motor supply - V	230 - 400 V / 3ph (50 Hz) Also available : 230V / 1ph (50 Hz) and 110V / 1ph (50 or 60 Hz)					
Duty	S1					
Max. ambient temperature - °C	50					
Max. relative humidity - %	95					
Frequency - Hz	50					
Rotation speed - rpm	3 000					
Frame size - mm	63					
Protection class	IP55					
Insulation class	F					
Type	V1					
Power - kW	0,09	0,12	0,12	0,18	0,18	0,25
Max flowrate - m³/h	1,3	1,3	3,5	3,5	5	5
Max total head - mWC	4	4	4	4	7	7
Max temperature - °C	80	110	80	110	80	110
Density	<1.4	< 1,7	<1.4	< 1,7	<1.3	< 1,7
Gaskets	EPDM or FPM	FPM	EPDM or FPM	FPM	EPDM or FPM	FPM

Comparison between flowrate / pressure and consumption



Légende

- Flowrate / Pressure ST50 (3ph)
- — ST50 consumption (3ph)
- Flowrate / Pressure ST30 (3ph)
- — ST30 consumption (3ph)
- Flowrate / Pressure ST10 (3ph)
- — ST10 consumption (3ph)

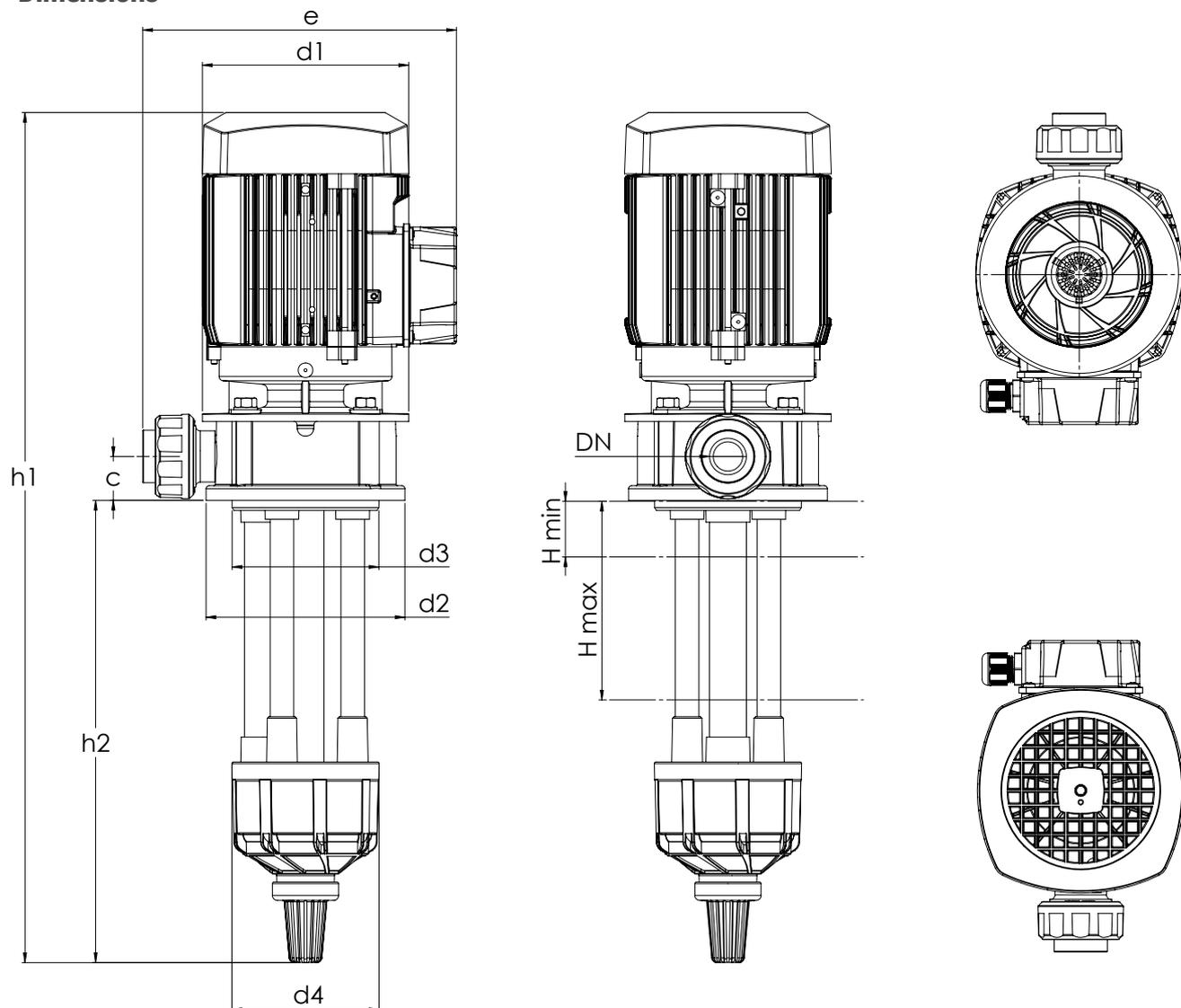
ST50

ST30 - ST10



VERTICAL PUMP

Dimensions



	h1	h2	d1	d2	d3	d4	DN	c	e
ST50	581	316	140	135	99,6	100	20	30	215,5
ST30	575	310	140	135	99,6	100	20	30	215,5
ST10	534	310	140	135	99,6	100	20	30	202,5

	H min (water level under flange min)	H max (water level under flange max)
ST50	40	110
ST30	40	130
ST10	30	150