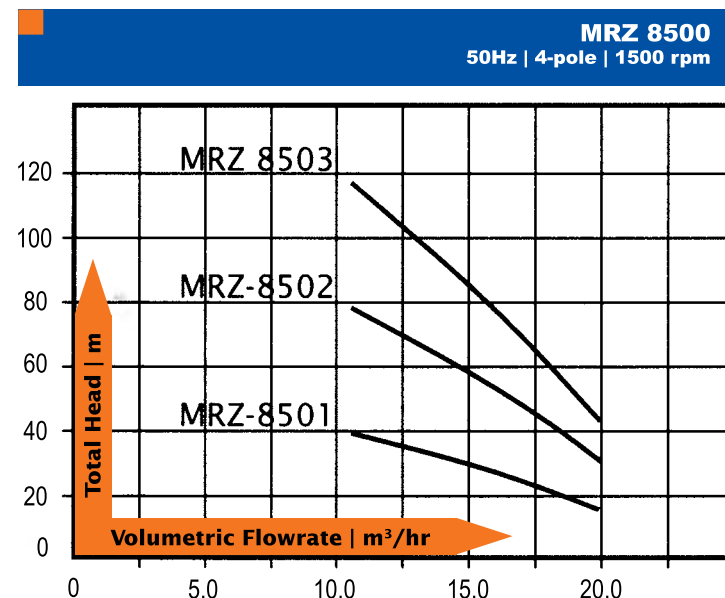
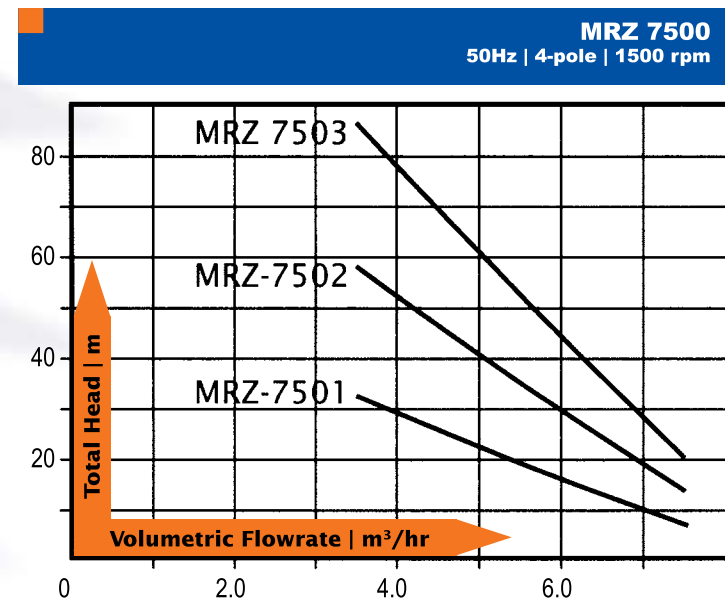
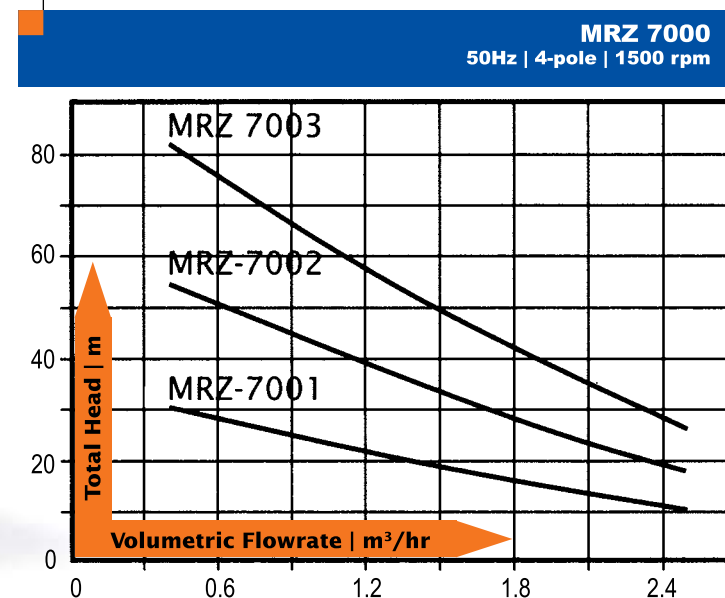


Performance Curves

Test water temperature of 20°C



MRZ

Multistage Side Channel Pump



© | Copyrights Reserved

General

MONOFLO 'Marinz' is a range of side channel pumps developed for various needs in liquid handling. They are horizontal, segmental multistage type construction, with open vane wheel ('star') type impeller. It is designed for relatively low flow, high head and in handling thin liquid and liquefied gas transfer.

Several features of Marinz characterised this unique pump. Mainly,

- Self-priming capability.
- Capability to handle gas-entrained liquid (that does not contain any solid matters or abrasives admixtures); hence eliminating possible air or vapor locked that can occur in other pump design.
- Ability to handle liquids near to boiling point.



▲
Typical Marinz's open-type, 'star' design impeller

Design Features

CASINGS | The pump casing is divided into sections perpendicular to the shaft axis. The radial fits of the vertically split sections gives ease in disassembly & reassembly of pumps during maintenance. External tie-rods holds together the suction & discharge casings, the intermediate casings, and are sealed by means of gaskets.

The mounting feet are integrally cast on at the bottom of the suction casing for MRZ-7000 and MRZ-7500 models; while for model MRZ-8500, mounting feet are integrally cast on both the suction & delivery casings.

IMPELLERS | The impellers are open-type, 'star-shaped' design. Axial thrust forces are effectively balanced by 'balancing holes' on the impellers.

SHAFT | The particularly rigid stainless steel shaft ensures trouble-free operation at various load phases.

BEARINGS | At the drive end of the shaft, it is supported by a grease-lubricated deep grooved ball bearing, pre-packed with grease at the factory; while the other end is by sleeve bearing flushed by the liquid handled.

FLANGES | Counter-flanges are provided with female pipe threads.

Applications

Several features characterised this unique pump, which is why this versatile pump is used widely in industrial applications.

INDUSTRIAL | Hot & cold water circulation; pumping condensate & boiler feeding; machine cooling; process water and other manufacturing processes.

MARINE & SHIPBUILDING | General water supply and pressure boosting.

AGRICULTURAL & FARMING | Horticultural irrigation & sprinkler system; watering & drainage.

▼
Model 7000 & 7500 | Version with oval suction and discharge flange



monoflo



www.monoflopumps.com

As MONOFLO Pumps is constantly improved, we reserve the right to make specification changes without prior notice and without incurring liability.

© | Copyrights Reserved | Monoflo Pumps Pty Ltd

monoflo
MONOFLO PUMPS PTY LTD
180 Lonsdale Street, Melbourne Vic 3000, Australia

...engineering flow in our lives

For inquiries, services & spare parts

Sole Agent

Asiatic Engineering Pte Ltd
Head office
148-160 Owen Road Singapore 218945
T. +65 6291 8282 | F. +65 6296 9903
E. asiatic@asiaticgroup.com.sg
www.asiaticgroup.com.sg

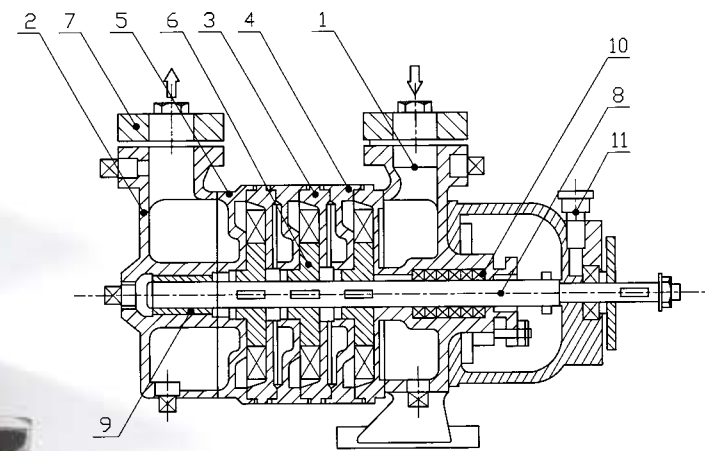
Branch office

8 Tuas Avenue 1 Singapore 639495
T. +65 6862 3030 | F. +65 6862 4551

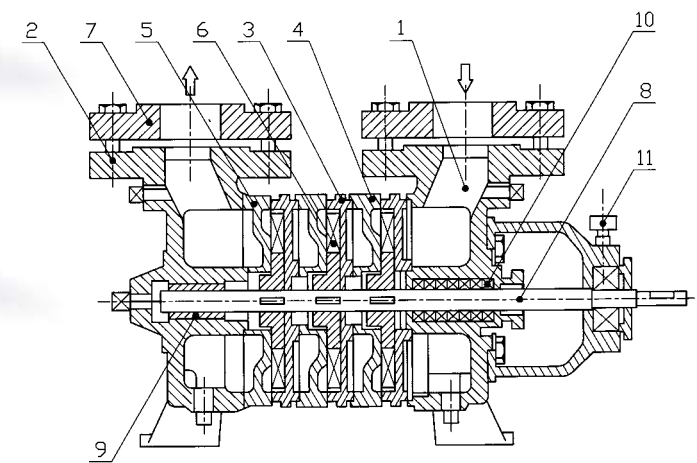
“Marinz...
the industries’
choice.”

Description

MRZ 7000 | 7500

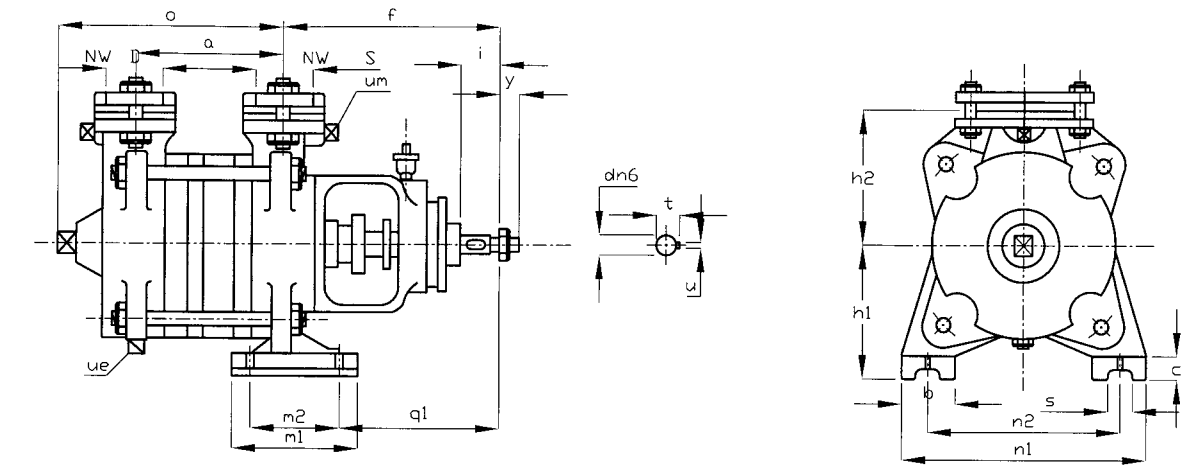


MRZ 8500

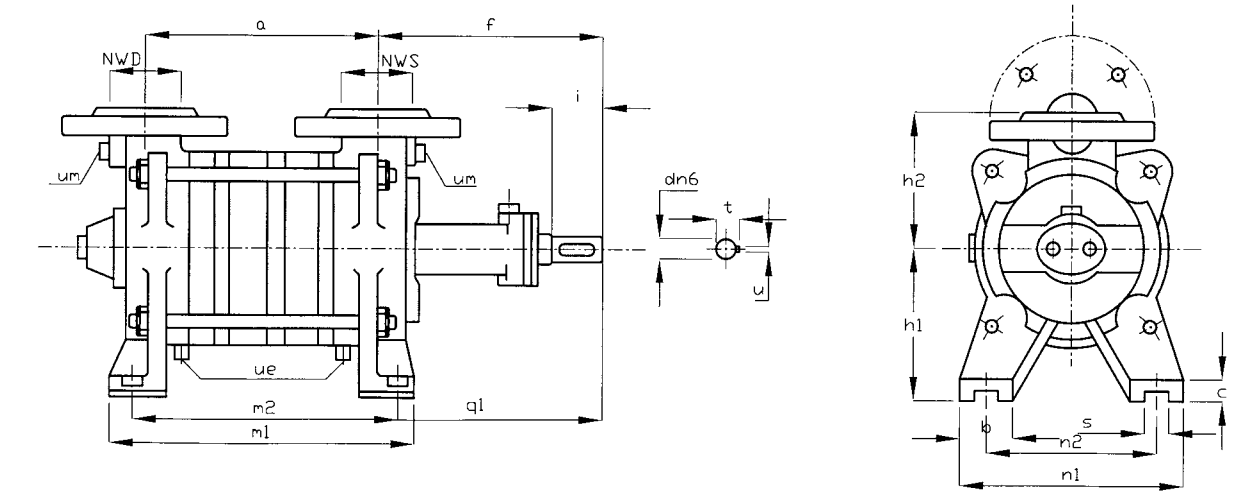


Dimensions

MRZ 7000 | 7500



MRZ 8500



Operating limits & data

Liquid handled	Clean water; gas-entrained liquid; or slightly-aggressive liquid (compatible to pump material of construction), that does not contain any solid matters or abrasives admixtures. Typical liquid handled includes distillate, fuel oil, boiler feed water, lubricants, hydrocarbons, seawater...
Working pressure	12 bar (12 kg/cm ²)
Flowrate	0.5 to 20 m ³ /hr (500 to 20,000 LPH)
Discharge head	6 to 115 metres (0.6 to 11.5 bar)
Operating temperature	Range from 0 to 100°C
Operating speed	Nominal operating speed up to 1,500 r.p.m. at 50Hz (1,800 r.p.m at 60Hz)
Viscosity	0.3 to 230 mPas
Gas content	Up to 50%
Flanges	Model 7000 & 7500 Oval flanges with BSP female pipe thread Model 8500 Round flanges

Material of construction

Item no.	Part Description	Material
1	Suction casing	Cast iron GG25 AS 1830/T260 BS 1452Gr260
2	Discharge casing	Cast iron GG25 AS 1830/T260 BS 1452Gr260
3, 4, 5	Intermediate casings	Cast iron GG25 AS 1830/T260 BS 1452Gr260
6	Impellers	High tensile brass
8	Shaft	Stainless steel AISI 410
9	Bearing bush	Bronze
10	Shaft seal	Threaded graphite cotton
11	Grease cap	Mild steel

Pump models	Stages	Connection		Dimensions																Motor kW	Wt kg		
		NW _o	NW _s	f	h1	n2	b	c	m1	m2	n1	n2	s	d	i	t	u	y	q1			a	o
7001	01	1"	1"	140	90	90	36	12	86	50	156	120	13	12	21	15	4	14	122	78	118	0.4	10
7002	02	1"	1"	140	90	90	36	12	86	50	156	120	13	12	21	15	4	14	122	112	152	0.75	11
7003	03	1"	1"	140	90	90	36	12	86	50	156	120	13	12	21	15	4	14	122	146	186	1.1	13
7501	01	1.5"	1.5"	154	112	112	36	15	106	70	196	160	13	16	27	18	5	16	104	83	140	1.1	14
7502	02	1.5"	1.5"	154	112	112	36	15	106	70	196	160	13	16	27	18	5	16	104	123	180	2.2	17
7503	03	1.5"	1.5"	154	112	112	36	15	106	70	196	160	13	16	27	18	5	16	104	163	220	3.0	21
8501	01	50	50	217	150	140	47	20	220	185	218	160	13	24	50	27	7	-	210	170	-	3.7	36
8502	02	50	50	217	150	140	47	20	295	260	218	160	13	24	50	27	7	-	210	245	-	7.5	46
8503	03	50	50	217	150	140	47	20	370	335	218	160	13	24	50	27	7	-	210	320	-	11.0	55

Remarks | Above dimensions are for reference only. Dimension of actual pumps may deviate slightly.

Dimensions in millimetres (mm)