





MH100S14 INSTANT-PRIME® PUMP



I PUMP SPECIFICATIONS

Pump End: GSPS MCL-C4414T Pump Size: 4x4 inches (100x100 mm) Max Flow: 1650 US GPM (375 m³/h) Max Head: 425 feet (130 m)

Solids Size: 3 inches (76 mm)

Mechanical Seal: Single mechanical seal 2.5"

Lip Seals: CR type, single lip, Buna-N (Bearing & SAE

Cover) and Viton(Stuffing box)

Non-Drive End Bearing: Single row ball bearing 6316 Drive End Bearing: Duplex angular contact bearing 7316 Air/Water Chamber: Steel material and designed to separate air and water before entering into vacuum pump suction hose.

Discharge Non Return Valve: Swing type, cast iron with

Buna-N disc (Viton optional) Gasket: Aramid Fiber w/ EPDM

O Ring: Buna-N

VACUUM ASSISTED PRIMING SYSTEM

INSTANT-PRIME® SYSTEM: Patent Pending self priming pumps are equipped with the most powerful priming system and P-S-P mechnism. Instant-Prime® pump sets a benchmark of vacuum assisted priming pumps in the industry.

VACUUM PUMP DATA*: Air Capacity: 112CFM Vacuum: -26inHg(9m)

* at engine speed 2200 rpm

PUMP FEATURES

ECO Friendly Vacuum Priming System

GSPS pump's EVP self priming system has extraordinary features like large air process capability, high vacuum, low operation temperature, maintenance free, oil and mechanical seal free etc.

2 P-S-P Auto Switch System (Prime-Sleep-Prime)

EVP system will be switched to sleep status automatically once priming was finished. When it is used for general purpose application, EVP system only operates for a few seconds for priming, which makes it almost unnecessary for daily maintenance or changing spare parts within its life cycle.

3 Dry Running Protection System

Instant-Prime® pumps offer three types of dry running seal options: oil reservoir lubricated mechanical seal, air cushion protected mechanical seal and grease lubricated lip seals configurations. Either of them can secure the pump run dry for a long time.

Cooling System**

A pressurized cooling flush water is introduced from centrifugal pump into vacuum pump's water jacket and then flows back to centrifugal pump. This cooling system cools the vacuum pump quickly and brings most of the heat out of the vacuum pump's cavity, and makes its rotor has an extraordinary long life.

Easy Maintenance Structure

It is very convenient to remove the vacuum pump's cover from its non-drive end, and slides can be easily pulled out for inspection or replacement. It is also easy to access to the centrifugal pump's impeller, wear ring or mechanical seal for inspection or maintenance without removing diesel engine or pump's frame since the centrifugal pump's suction cover can be fully opened.

6 All-In-One Pump Applications

EVP Priming system's powerful function makes Instant-Prime® pumps can be used in almost all aspects of fluid industry, including well point dewatering. Buy one pump and get all your jobs covered.

ENGINE SPECIFICATIONS

Engine Model: DEUTZ TCD3.6L4

Rated Power At Speed: 122HP @ 2300RPM

Engine Type: Water-cooled 4-Cylinder inline engine

turbocharging and cooled, external exhaust gas

recirculation.

Displacement: 220 Cu.In. (3.6 Liters)

EPA Tier: Tier 4 Final/Stage V

Fuel Tank: 98 U.S. Gallons (370 Liters) Full Load Operating Time:16.3Hours

Starter: 12 Volts Electric

Control Panel: Murphy, Controls Inc, Deepsea, Kensho, Lofa

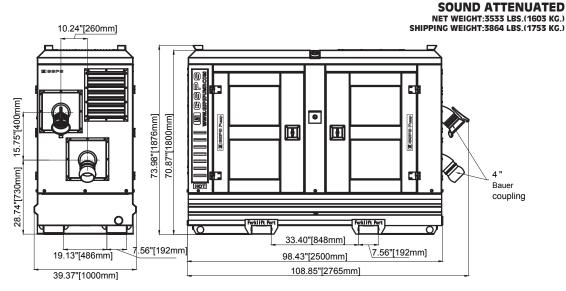
PUMP MATERIAL OF CONSTRUCTION

Main Parts	Standard (code:38)	Optional 1 (code:58)	Optional 2 (code:88)	Optional 3 (code:98)
Impeller	CA6NMSS	CA6NMSS	26% High Chrome	CD4MCu
Shaft	17-4PH	17-4PH	17-4PH	17-4PH
Wear Ring	Gray Iron	Gray Iron	Carbon Steel	316SS
Suction Cover	Gray Iron	Ductile Iron	26% High Chrome	CD4MCu
Volute	Gray Iron	Ductile Iron	26% High Chrome	CD4MCu
Stuffing Box	Gray Iron	Ductile Iron	26% High Chrome	CD4MCu
Adaptor	Ductile Iron	Ductile Iron	Ductile Iron	Ductile Iron

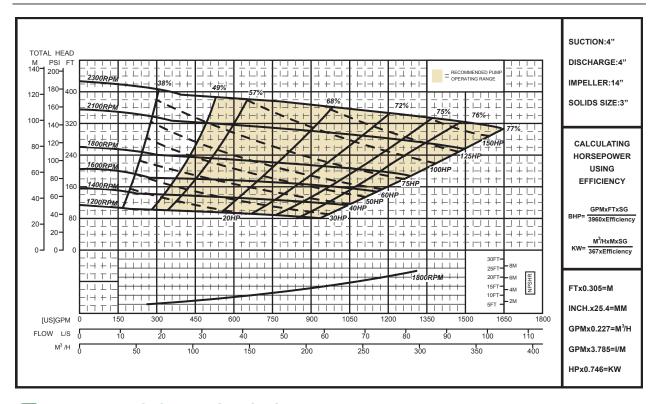




^{**} cooling system is only needed for well point dewatering application.



MH100S14 INSTANT-PRIME® PUMP PERFORMANCE CURVE



PUMP DESIGNATION SYSTEM

Pump Type

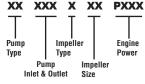
LH:Low Head Pump MH:Medium Head Pump HH:High Head Pump

Pump Inlet & Outlet

LH:Pump Outlet Size(mm) MH:Pump Outlet Size(mm) HH:Pump Intlet Size(mm)

Impeller Type S:Solids Handling

C:Clear Water



Impeller Size:Inch

Engine Power:hp

XX

Pump Material

38:Standard 58:Optional 1 88:Optional 2 98:Optional 3

MXX XX X XX XX Seal Priming Priming Type System Pump Seal Cooling Material Material

Seal Type

MO:Mech.Seal Oil Lub(Standard) MA:Mech.Seal Air Cushion LG:Lip Seal Grease Lub

Priming System

V1:Venturi V2:Diaphram Pump(NA) V3:EVP(Standard)

Cooling

XX

Package

Type

Seal Material

2:TC/SiC

3:TC/TC

4:NBR

5.Viton

1:SiC/SiC(Standard)

WC:With Cooling System NC:No Cooling System

Package Type

SO:Skid Open TO:Trailer Open SE:Skid Enclosed TE:Trailer Enclosed SP:Skid Push Bar GN:Goose Neck



