AEROMIST



PULLEY DRIVEN
1000 PSI MISTING PUMP MANUAL

FOR MODELS

50099-HDE-LP, 50100-HDE-LP, 50101-HDE-LP,

50150-HDE-LP, 50151-HDE-LP, 50200-HDE-LP,

50201-HDE-LP

PULLEY DRIVEN MISTING PUMP SPECIFICATIONS



DIMENSIONS

24” L x 17" W x 13” H

WEIGHT

Up to 110 lbs.

FEATURES

- GP PUMP
- TEFC MOTOR
- 3/8" INLET SOLENOID VALVE
- LIQUID FILLED PRESSURE GAUGE
- POWDER COAT FINISH
- LOW PRESSURE SWITCH
- 6 FT POWER CORD
- INTERNALLY FAN COOLED
- RUBBER FEET
- SCALE X FILTER & 5 MICRON
- DRAIN VALVE

TECHNICAL SPECS

MAX DISCHARGE PRESSURE	1000 PSI
MOTOR OVERLOAD	AUTOMATIC
INLET PSI RANGE	30-60 PSI
MAX LIQUID TEMPERATURE	140° F
PRESSURE GAUGE	0-2000 PSI
SWITCH	PANEL SWITCH
OIL CAPACITY	14 OZ

Model	Flow GPM	Volts Input	Motor (HP)	Pump RPM	Motor Amps	Nozzle Cap. (.012)	MSRP
50099-HDE-LP	0.5	120-1	1.0	450	10.8	18	$2,799
50100-HDE-LP	1.0	120-1	1.0	518	10.8	36	$2,899
50101-HDE-LP	1.0	230-1	1.0	518	6.0	36	$3,099
50150-HDE-LP	1.5	120-1	1.5	736	14.0	54	$2,999
50151-HDE-LP	1.5	230-1	1.5	736	7.0	54	$2,999
50200-HDE-LP	2.0	120-1	1.5	940	14.0	72	$3,099
50201-HDE-LP	2.0	230-1	1.5	940	7.0	72	$3,099

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PUMP OVERVIEW

30375 INLET SOLENOID VALVE 30375-C

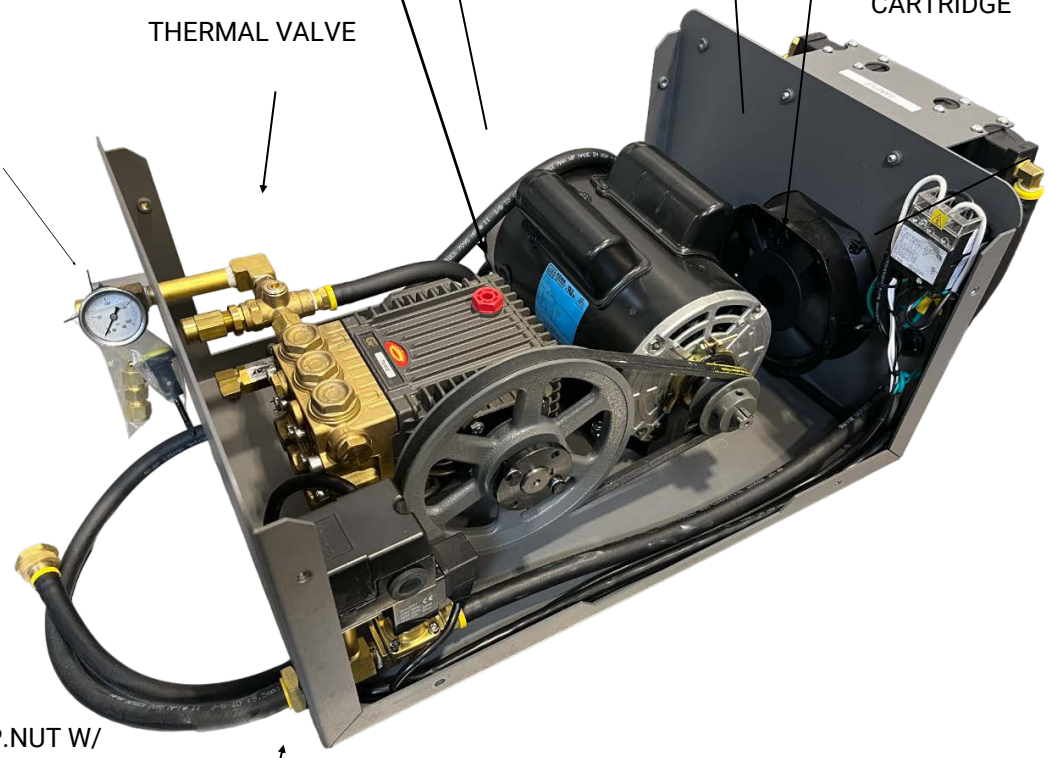
ENCLOSED FAN

SOLENOID PANEL SWITCH

31051-W ELECT. PULLEY MOTOR 1.5 HP

57003 WATER INLET FILTER HOUSING 57011 5 MICRON CARTRIDGE

THERMAL VALVE



57251 PRESSURE GAUGE

52623 COMP.NUT W/ SLEEVE **(WATER OUTLET to MIST LINE)**

33000 RUBBER FEET

26038 **(WATER INLET)** HOSE 3/8" ID Per ft. 26104 FEMALE GARDEN HOSE ADAPTER. 26042 HOSE SPLICER 3/8" TO EXTEND HOSE

GENERAL SAFETY PRECAUTIONS

⚠WARNING **CAN cause DEATH, SEVERE INJURY or substantial property damage.**

⚠CAUTION **CAN cause MINOR INJURY or property damage.**

GENERAL SAFETY PRECAUTIONS

Consequently, it is essential to comply with the instructions in this manual as well as local and national rules and safety regulations.

⚠WARNING **HAZARDOUS VOLTAGE.** Can cause serious injury or death. Disconnect power before servicing pump. Pump must be connected to a properly grounded circuit. Do not operate pump in wet conditions.

⚠WARNING **MOVING PARTS.** Pump may start automatically. Disconnect power, before servicing. Lockout/Tag out misting pump.

HOT SURFACES. Can cause serious injury. Do not touch. Allow to cool before servicing.

⚠WARNING **HIGH PRESSURE WATER.** Bypassing, modifying or removing safety/relief regulator valves can cause serious injury or death. Do not bypass, modify or remove safety/relief valves. If a leak should occur shut unit off before attempting to tighten any fittings or tube repairs. Do not change any pressure settings above maximum rating. Maximum pressure is 1000 PSI / 70 Bar

⚠CAUTION **RISK OF LEAKING or BURSTING.** Use only suitable tubing and fittings acceptable for pressure of not less than the maximum allowable working pressure of the pump. Remove water from lines and filter bowls during winter months to prevent freezing damage to pump or tubing.

⚠CAUTION **Install pump in a suitable place to prevent property damage in the event a leak should occur.**

⚠WARNING **Electrical installation and service should be performed by a qualified electrician who is familiar with all applicable local, state and federal laws and regulations.**

GENERAL. The motor rating, as shown on the motor nameplate, and the power supply must have compatible voltage, phase and hertz characteristics.

WIRE SIZE. The electrical wiring between the power supply and electric motor varies according to motor horsepower and other factors. Install adequately sized power leads to protect against exces-sive voltage drop during start-up. Refer to the National Electric Code (NEC) for information on se-lecting the proper wire size and securing electrical connections. If you connect additional electrical equipment to the same circuit, consider the total electrical load when selecting the proper wire size. **DO NOT UNDERSIZE WIRING. DO NOT USE EXTENSION CORDS.**

OPERATION

The Aeromist 1000 PSI Pump takes ordinary city water pressure, which is normally about 50-70 PSI, and "boosts" it up to 1000 PSI. The higher water pressure created by the pump enhances mist cooling and heat absorption in two ways. First, it produces a higher flow of water through the nozzle. More water being expelled from the nozzle means more cooling. Second, it creates a smaller finer mist droplet that allows the droplet to evaporate more quickly. Better evaporation means better cooling.

There are many applications for the 1000 PSI Pump. Applications include patio cooling for homes and restaurants, greenhouses, humidification, dust control, odor control and many more.

Caution, Warning and Safety Instructions:

1. **Warning:** Before plugging in the unit for the first time, read the following section carefully. To reduce the risk of electric shock, plug in supplied grounded cord into a properly grounded receptacle. When servicing this unit, unplug power cord before attempting any service or repair.
2. **Outdoor use ONLY!** Not for indoor use.
3. **Install pump in a suitable place to prevent property damage, in the event that a leak should occur.**
4. Turn water off, and disconnect power to the unit when not in use for extended periods of time.
5. Do not place pump in damp or wet environments.
6. Feed system with potable cold water supply only. Do not connect pump to hot water supply.

Do not expose pump to freezing temperatures. When winterizing disconnect pump from power and water supply, and store in a dry safe place. Make sure all water is drained from the system to prevent damage in the event of a freeze.

INSTALLATION

1. Install pump above grade level on a pre-formed concrete pad (16" x 16"). This pump is non-submersible. Locate pump in a location where flooding and roof runoff does not occur to avoid water damage to the electric motor.
2. Verify water feed to pump location is potable cold water supply only.
3. Connect cold water feed to pump inlet and connect nylon tubing to pump outlet**. Important: Install 50 ft. or more of nylon tubing from the pump to the metal line to prevent line noise and vibration.**
4. Remove black shipping cap on the pump crankcase and install the red breather cap provided. Unit is pre-filled with oil and ready to operate. Oil should be half full on the sight glass when unit is off. Do not overfill.
5. Plug pump into a properly grounded receptacle. Do not use extension cords!
6. On new misting systems, flush lines before installing nozzles. The pump will not build pressure until all of the noz-zles are installed.
7. Do not exceed 1000 PSI and do NOT run the pump without water.

MAINTENANCE & PARTS

Change oil every 500 hours of operation or once a year. Use approved pump oil (57030) Proper oil level is half full on the sight gauge when the unit is off. Do not overfill. Oil capacity is 14 oz and Scale Ex. Change water filter cartridge annually or as needed. (57011/57011-ES) 5 Micron Cartridge. **Winter shutdown:**

Unplug pump power cord, shut off water supply, remove filter bowl and drain water. Drain water out of all lines using compressed air to prevent freeze damage.

57251 PRESSURE GAUGE 0-2000 PSI



31000 PANEL SWITCH 20 AMP



57030 GP PUMP OIL 21 oz.



30375 SOLENOID VALVE 3/8”

30375-C CORD with DIN CONNECTOR



66400K LOW WATER PRESSURE CUT-OUT SWITCH KIT





30215-CAT THERMAL PROTEC-TOR

54001 Drain Valve Kit





PUMP PARTS

GENERAL PUMP *A member of the Interpump Group*

TX Series "63"

Triplex Plunger Pump, Solid Shaft

FEATURES

- Flex coupling and bell housing available for direct drive
- Oversized bearings for long life
- New generation seal system for longer life
- Forged brass manifold



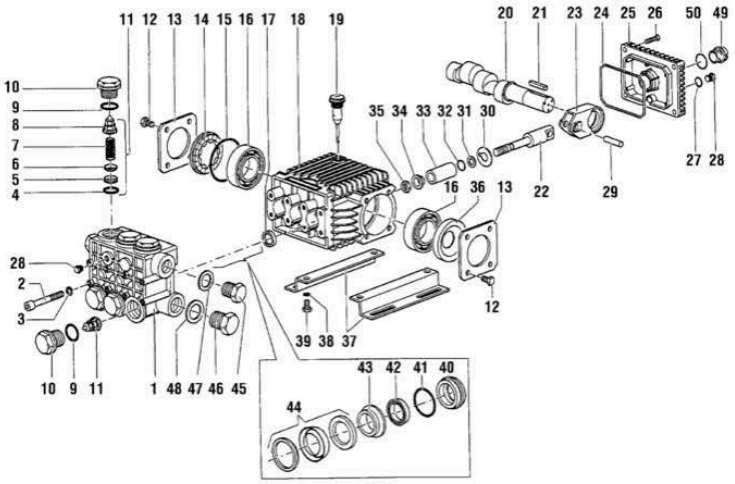
SPECIFICATIONS

Pump Model	TX1810S17	TX1812S17	TX1512S17	TX1506S34	TX1508S34	TX1510S34
Maximum Volume	3.2 GPM	3.8 GPM	2.6 GPM	2.6 GPM	3.0 GPM	4.0 GPM
Maximum Discharge Pressure	2500 PSI		3000 PSI			
Horsepower	4.2 EBHP	5.2 EBHP	5.3 EBHP	5.3 EBHP	6.2 EBHP	8.2 EBHP
Maximum Pump Speed	1750 RPM			3400 RPM		
Maximum Inlet Pressure	125 PSI					
Minimum Inlet Pressure	3 Ft. Water / 2.6 in. Hg.			Flooded		
Plunger Bore (in / mm)	.709 in / 18 mm		.591 in / 15 mm			
Plunger Stroke (in / mm)	.394 in / 10 mm	.472 in / 12 mm		.256 in./6.5 mm	.315 in / 8 mm	.394 in / 10mm
Oil Capacity	14.0 oz					
Maximum Fluid Temperature	165ºF					
Inlet Port Thread	1/2 - 14 BSPP-F					
Discharge Port Thread	3/8 - 19 BSPP-F					
Shaft Diameter	.945 in / 24 mm					
Weight	19 lbs					
Dimensions	8.4 x 8.3 x 4.8 in					

PUMP PARTS

TX Series "63"

GENERAL PUMP *A member of the Interpump Group*



PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY.
1.	63120041	Manifold, 15 mm	1
	63120341	Manifold, 18 mm	1
2.	99319200	Screw, M8 x 65	8
3.	96701400	Lockwasher, M8.4	8
4.	90384100	O-ring	6
5.	36200366	Valve Seat	6
6.	36200176	Valve Plate	6
7.	94737600	Spring	6
8.	36202551	Valve Cage	6
9.	90384700	O-ring	6
10.	98222600	Valve Cap	6
11.	36711501	Valve Assembly	6
12.	99180700	Screw, M6 x 10	8
13.	50150074	Bearing Cover	2
14.	44211801	Oil Level Indicator	1
15.	90409700	O-ring	1
16.	91832900	Ball Bearing	2
17.	90159500	Oil Seal	3
18.	63010022	Crankcase	1
19.	98210300	Oil Dip Stick	1

ITEM	PART NO.	DESCRIPTION	KIT NO.	QTY.
	63020865	Crankshaft, 8 mm		1
20.	63021265	Crankshaft, 10 mm		1
	63021665	Crankshaft, 12mm		1
21.	91489200	Key		1
22.	63050066	Plunger Guide		3
23.	63030022	Connecting Rod		3
24.	90392000	O-ring, Cover		1
25.	63160022	Rear Crankcase Cover		1
26.	99183700	Screw, M6 x 14		4
27.	701013	O-ring		1
28.	98204100	Plug, 1/4" G		2
29.	97733500	Connecting Rod Pin		3
30.	96707500	Flinger Washer		3
31.	660024	Anti-extrusion Ring		3
32.	701009	O-ring		3
33.	52040009	Ceramic Plunger, 15mm		3
	44040109	Ceramic Plunger, 18mm		3
34.	44211570	Bushing		3
35.	92221600	Nut, M8		3

ITEM	PART NO.	DESCRIPTION	KIT NO.	QTY.
36.	90164100	Oil Seal		1
37.	50200074	Rail		2
38.	96701600	Lockwasher, M8		4
39.	99303700	Screw, M8 x 16		4
40.	63080070	Seal Retn'r, 15mm	162,166	3
	63080170	Seal Retn'r, 18mm	163,167	3
41.	90360800	O-ring	166,167	3
42.	90260800	Seal, LP,15mm	160,166	3
	90265000	Seal, LP,18mm	161,167	3
43.	63216070	Int. Ring,15mm	164,166	3
	63216170	Int. Ring,18mm	165,167	3
44.	90261200	Packing Assy,15mm	160,166	3
	90265400	Packing Assy,18mm	161,167	3
45.	98210000	Plug, 3/8" G		1
46.	98217600	Plug, 1/2" G		1
47.	96738000	Washer, M17.5		1
48.	96751400	Washer, M21.5		1
49.	63210051	Oil Level Indicator		1
50.	90405100	O-ring		1

REPAIR KITS

KIT NO.	K123	K124	K159	K160 or K161	K162 or K163	K164 or K165	K166 or K167
ITEM NO's INCLUDED IN KIT	4, 5, 6, 7, 8 (11)	9, 10	17	42, 44	40	43	40, 41, 42, 43, 44
NUMBER OF ASSEMBLIES IN KIT	6	6	3	3	3	3	1
NUMBER OF CYLINDERS KIT WILL SERVICE	3	3	3	3	3	3	1

TORQUE SPECS*

Pos.	Ft/lb	Nm
2	14.7	20
10	95.9	130
12	7.3	10
26	7.3	10
28	14.7	20
35	11.0	15
39	14.7	20
45	29.4	40
46	29.4	40

* Decrease torque by 20% if threads are lubricated

WARNING: High Pressure Systems require a primary pressure regulating device (i.e. regulator, unloader) and a secondary pressure relief device (i.e. pop-off valve, relief valve). Failure to install such relief devices properly could result in personal injury or damage to pump or property. GP does not assume any liability or responsibility for the operation of the user's high pressure system.

WARNING: This product can expose you to chemicals including lead, which is know to the state of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

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Ref 300195 Rev. J
07-22

GENERAL PUMP

AEROMIST

WARRANTY

Warranty and Statement

Aeromist warrants to its customers that Aeromist products, excluding nozzles, to be free of defects in materials and workmanship for a period of (3) years from the date of purchase to the original purchaser. With customers proof of receipt Aeromist will fix or replace the defective part or parts. Aeromist reserves the right to inspect the defective part or parts prior to replacement. Aeromist will not be responsible for consequential or incidental cost or damage caused by the product failure. Aeromist liability under this warranty is limited solely to the replacement or repair of defective parts.

Neither thiswarrant nor any implied warrantyappliesto damage or harm caused by any or all of the following:

1. Freight damage
2. Damage cause from freezing, fire,natural disaster, improper installation, chemicals, unusual characteristics of water supply.
3. Damage caused by parts, accessories,or components not obtained from or approved by Aeromist.
4. Damage due to misapplication and/or misuse.
5. Normal wear of moving parts or components affected by moving parts

The liability of Aeromist under the foregoing warranty is limited to the repair or replacement at the discretion of Aeromist. The return of the entire pump or other product to Aeromist factory must be within the warranty period, at the sole expense of the purchaser. Upon examination the returned product will be deemed to have been defective in material or workmanship.

Aeromist expressly warrants its pumps and other products as above stated. There are no other express warranties. Any implied warranties including implied warranty of merchantability or of fitness for a particular purpose are limited in duration to three years from the date of purchase by the original purchaser except in states that do not allow time limitations on implied warranties. There is no implied warranty of fitness for a particular purpose or merchantability when this product is put to an industrial, commercial or rental use.

No person including any dealer or representative of Aeromist is authorized to make any representation or war-ranty concerning Aeromist products on behalf of Aeromist or to assume for Aeromist the obligations contained in the warranty. Aeromist reserves the right to install the same upon its existing products or products then in process or manufacture. This warranty gives you specific legal rights, and you may also have other rights, whichvary from state to state.

CCI-ARM, Inc. DBA Aeromist

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REVISED AUGUST 2024