
USER MANUAL

MODEL NUMBER:

GK2T24

AND RELATED UNITS

Doorway Central Station

English (Original Instructions)

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT



Read this manual completely and understand the machine before operating or servicing it.

- Read all instructions before installing or operating unit.
- Always wear appropriate personal protective equipment (PPE) when operating or servicing unit.
- Always follow all chemical safety precautions and handling instructions provided by the chemical manufacturer and Safety Data Sheet (SDS).
- If this unit is modified or serviced with parts not listed in this manual, the unit may not operate correctly.
- Do not exceed an incoming air pressure of 100 psi (7 bar).
- Do not exceed a fluid temperature of 100°F (37°C).
- Only use clean and dry air.
- Do not use an air lubricator before the unit.
- Never use unit if it is damaged or leaking.
- Disconnect unit from electrical power source and from the air and solution supply lines before servicing.

PROTECT THE ENVIRONMENT

Please dispose of packaging materials, old machine components, and hazardous fluids in an environmentally safe way according to local waste disposal regulations.



Always remember to recycle.

*Specifications and parts are subject to change without notice.

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REQUIREMENTS	
Compressed air requirements	40-80 psi (3-5 bar) with 3.5-8 cfm (99.1-226.5 l/min)
Liquid temperature range	40-100°F (4.4-37°C)
Electrical requirements	120 VAC at 60 Hz, 2 amps (GFCI protected outlet)
Operating voltage	24 VAC (Included adapter converts 120VAC to 24 VAC)
Central system requirements	Pre-mixed solution must be supplied by a properly sized header system at 2 gpm and 40 to 80 psi (3 to 5 bar).
Chemical compatibility	Chemical products used with this equipment must be formulated for this type of application and compatible with unit materials and pump seals. For more information on chemical compatibility, consult the manufacturer or MSDS for your product or contact our customer service department.

SPECIFICATIONS	
Power type	Compressed air and electricity
Chemical pickup type	Pre-mixed solution
Number of products unit can draw from	One product
Output volume	Approximately 15 gal/min (56 l/min)
Flow rate*	2 gal/min (7.6 l/min)
Pump seals	Santoprene, Viton, or Kalrez
Timer operation type	Repeat cycle
Coverage area**	5 ft. wide by 9 ft. long (1.5 m wide by 2.7 m long)
Number of nozzles	One control box can support up to two nozzle assemblies
Nozzle type	Single-line poly nozzle assembly (GK6T) (sold separately)
Distance from nozzles to control box	The combined distance between the control box and the nozzle(s) must equal 25 ft. (7.6 m) or less
Tubing/fitting sizes	Designed for use with 1/2 in. (12.7 mm) outside diameter tubing between control box and nozzle(s)

*Dilution rates and flow rates given are based on chemical with viscosity of water and factory air pressure settings.

**Foam pattern dimensions provided were measured with nozzle assemblies mounted 6 in. (15 cm) above the floor.

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Installation Instructions:

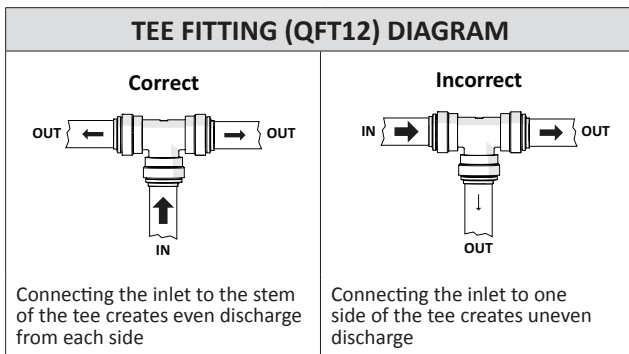
To Install Control Box:

1. Remove all components from packaging.
2. Select an area to mount the control box.
Note: The control box should be mounted to a vertical wall.
3. Attach the control box mounting feet to the back of the control box, using the four screws provided in the parts package.
4. Mount the control box to the wall using four of the screws and plastic anchors provided in the parts package.
Note: To drill holes for the plastic anchors, use a 5/16 inch drill bit.

To Install Nozzle Assembly (GK6T):

Note: Nozzle assembly is sold separately

1. Verify the control box has been installed.
2. Mount the nozzle assembly in the desired location, using the mounting brackets (SSLB 14) and two of the screws and plastic anchors provided in the parts package. Repeat as needed for multiple nozzles.
Note: To drill holes for the plastic anchors, use a 5/16 inch drill bit.
3. Run tubing from the outlet fitting on the control box to the inlet fitting on the nozzle assembly. For multiple nozzles, run the tubing from the control box into a tee fitting (QFT12), as shown in tee fitting diagram. Then, run tubing from the tee fitting to the nozzle assemblies.



To Connect Control Box to Header Supply Line:

1. After control box and nozzle assembly have been installed, connect compressed air line to air inlet fitting on control box.
2. Connect the pre-mixed solution header supply line to solution inlet quick fitting (QF1212), or remove quick fitting and connect solution supply line to threaded inlet fitting (SSA1412).
Note: The air and solution lines must be routed to the appropriate fittings (as labeled). Make sure to insert the tubing all the way into the push fittings to ensure proper connection.
A shut off valve must be installed between the header supply line and the control box, to provide the ability to deactivate the control box for maintenance.

To Calibrate Foam Station:

3. Make sure the power switch (TS2, TS2PLATE and TSBT12) is in the "OFF" position, plug the unit into a GFCI protected 120 VAC outlet.
4. To activate unit, turn the power switch ON. The unit will begin cycling through the on time and off time intervals set on the timer, beginning with the on time.
5. Ensure the needle valve (NV14Y), located inside control box, is completely open by turning knob counter-clockwise.
6. Ensure air pressure is set for desired foam quality. To adjust air pressure:
 - a. While unit is running and discharging product, pull up and turn the air regulator (R16) adjustment knob until the air gauge (AG100) reads 10 psi (0.68 bar).
 - b. Slowly increase air pressure by turning the air regulator adjustment knob until desired foam quality is achieved.
7. To deactivate the unit, turn the power switch OFF.
8. Set the timer for the desired on time and off time, as described in the timer adjustment instructions.

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TIMER ADJUSTMENT INSTRUCTIONS

The TR24DS is an adjustable repeat cycle timer with the ON time operating first. ON and OFF times can range from 1 second to 511 minutes.

To set the timer:

- Starting with the ON time, move the top dip switch to the left for SEC (seconds) or to the right for MIN (minutes) to select the desired time interval.
- The next 9 dip switches will be used to control the total active time. To the left is inactive and to the right is active. Combine the numbers next to the active dip switches to achieve the desired time.
- Repeat the above steps for the OFF time setting.

Operation Instructions:

- Verify that the unit is connected to compressed air and chemical line, and timer is set and plugged into GFCI protected 120 VAC outlet.
- To activate unit, turn the power switch (TS2, TS2PLATE and TSBT12) ON. The unit will begin cycling through the on time and off time intervals set on the timer, beginning with the on time.
- To deactivate the unit, turn the power switch OFF.

Maintenance Instructions:

To keep the unit operating properly, periodically perform the following maintenance procedures:

Note: Before performing any maintenance, ensure that the unit has been turned OFF, unplugged from the electrical power source, and disconnected from the air and solution supply.

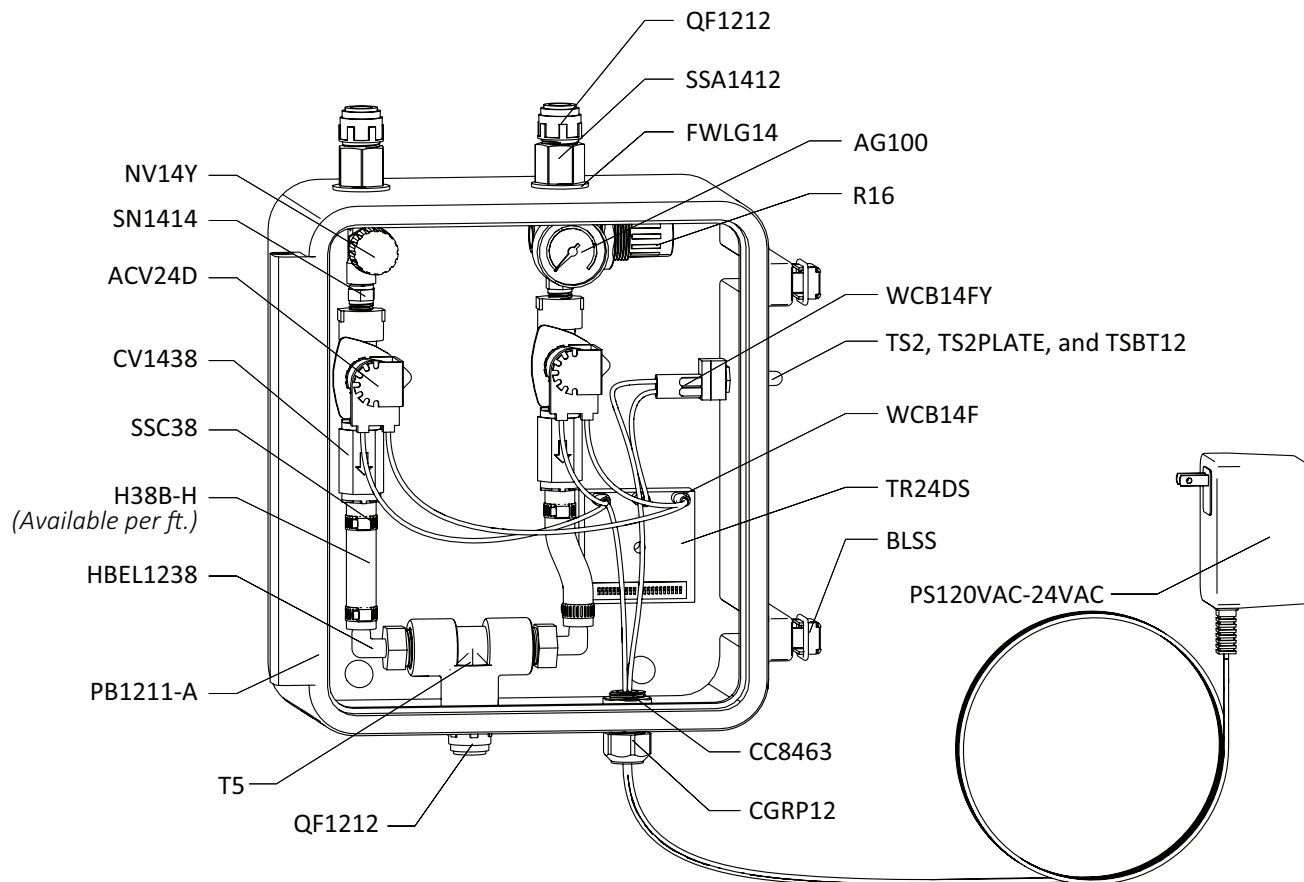
- Inspect all hoses and tubings for leaks or excessive wear. Make sure all hose clamps and push-fittings are in good condition and properly secured.

Troubleshooting Instructions:

- If foam sputters out of the fan tip:
 - Verify foam station is calibrated correctly. Reference installation instructions "To Calibrate Foam Station".
 - More chemical may need to be added to solution in order to create thick foam.
- If only liquid or only air discharges out the fan tip:
 - Verify the needle valve and air regulator to ensure one of them is not closed. Adjust needle valve and air regulator as stated in Operation Instructions.
 - Verify all the wiring is securely connected.
 - A solenoid valve may need to be replaced.
- If no liquid discharges out of the fan tip:
 - Verify there is adequate liquid being supplied to the control box.

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CONTROL BOX ASSEMBLY



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ITEM NUMBER	DESCRIPTION
ACV24D	SOLENOID VALVE, 24VAC N/C - POLY PRO.
AG100	1.5 INCH DRY MODEL 20 DUAL SCALE GAUGE
B10321.25	10-32 X 1 1/4 PHIL TRUSS MACH 18-8
CC8463	1/2in NPT BLACK LOCKNUT
CGRP12	CORD GRIP 1/2 INCH
CV1438	PVC CHECK VALVE 1/4 MPT X 3/8 BARB - SS SPRING
FWLG14	.569 ID X 1.28 OD X .08 THICK FLAT WASHER SS 18-8
H38B-H	3/8 INCH BLUE GOODYEAR HORIZON HOSE - Available per ft.
HBEL1238	HOSE BARB ELBOW 1/2 X 3/8
NV14Y	FLOW CONTROL VALVE - INCLUDES BLACK KNOB
<i>NV14Y-HNDL</i>	BLACK KNOB FOR NEEDLE VALVE - 2839-1/4
P18	POLY PLUG 1/8 MPT HEX HEAD
PB1211-A	POLY BOX ASSEMBLY 12 X 11 X 6 WITH GASKET - LATCH - MOUNTING HARDWARE
<i>BH142015</i>	BUTTON HEAD SOCKET CAP - 1/4 - 20 x 1.5 STAINLESS STEEL
<i>BKSS</i>	BOX KEEPER STAINLESS STEEL
<i>BLSS</i>	Stainless Steel Latch
<i>PB1211-GSKT</i>	3/32 INCH THICK GSKT WITH PSA
<i>PB1211-P</i>	GRAY POLY BOX 12 X 11 X 6
<i>PBFT-SS</i>	POLY BOX SS FOOT
<i>PL1211-P</i>	12X11 INCH POLYETHYLENE LID
<i>RIVSS-18-4</i>	1/8 Stainless Rivet/Stainless Mandrel - Length .400 - Grip Range (.188 - .250)
<i>S142058-VS</i>	1/4-20 X 5/8 PHIL TRUSS MACHINE SCREW 18-8 W/#516 VIBRASEAL ORANGE PATCH
<i>WMS14</i>	14 X 1 1/4 HEX W/H SMS SLOTT, S/S
<i>WMS14A</i>	5/16 X 1 1/2 STRAIGHT PLASTIC ANCHOR

ITEM NUMBER	DESCRIPTION
PS120VAC-24VAC	PLUG-IN VOLTAGE TRANSFORMER, 120 VAC INPUT, 24VAC OUPUT
QF1212	MALE CON. 1/2in TUBE X 1/2in MPT - POLYPROPYLENE
QFT12	UNION TEE 1/2in TUBE - POLYPROPYLENE
R16	PB21649-N500 W/6 BAR SPRING
SN1414	STAINLESS 1/4MPT X 1/4MPT NIPPLE
SSA1412	SS304 MALE/FEMALE ADAPTER 1/4 NPT X 1/2 NPT
SSC38	WORM GEAR CLAMP, S/S (.25-.63)
T5	1/2 POLY TEE
TR24DS	DIGI-SET REPEAT CYCLE TIMER - 24 VAC
TS2	TOGGLE SWITCH SPST
TS2PLATE	ON/OFF SWITCH PLATE
TSBT12	TOGGLE SWITCH BOOT
WCB14F	14-16 - 1/4 FEM INSULATED CONNECTOR
WCB14FY	10-12 - 1/4in FEMALE INSULATED CONNECTOR