



PQSC TECH Bulletins are published by the PQSC of Lubrication Systems Company for the purpose of disseminating information within the LSC organization. PQSC TECH Bulletins are used to inform LSC personnel and Agents of issues that effect the operation, application and use of LSC products and services. The information herein has been approved for dissemination within the LSC organization by the PQSC. This information is considered Company Proprietary and is not to be given to a non-LSC party without the written approval of the PQSC Chair Person

Subject: Proper Use And Application Of ThermoJet® Oil Purification Units In Hazardous Areas.

ThermoJet Oil Purifiers have the ability to remove both dissolved water and light hydrocarbon gasses. However because of the safety issues associated with removing hydrocarbon gasses, the ThermoJet Models G-3000, G-3500, G-4000 and G-5000 require the use of a inert gas as the motive gas for vapor transfer. The most common and most readily available inert gas used is dry nitrogen. The reason for using nitrogen is for safety. When the gas separates from the oil, the gas “evaporates” into the nitrogen. The nitrogen carries the gas away to a flare or other safe disposition. Since the dry nitrogen contains no oxygen, the mixture is not explosive, and suitable for venting into most plant flare header networks.

DO NOT Use ThermoJet® Dewatering Unit In Degassing Applications

A ThermoJet® Model I-2000, H-2000, H-2000, H2500, I-4000, H4000 or H-4500 should NEVER be used in any application where the oil is suspect to be or is known to be contaminated with dissolved hydrocarbon gas of any type. When the gas evaporates into the incoming air from the atmosphere, a potentially hazardous and explosive environment may be created. The Model H series of ThermoJet® Oil Purifiers are designed for use only in applications where water and solid particulates are the only contaminates.

Sales and Service personnel should understand the proper use and application of both de-watering and de-gassing applications. When misuse by a customer is discovered, the customer is to be advised that a potential hazardous and dangerous situation exists, and that operation should immediately cease. All incidents should be reported to Keith Macaluso, ThermoJet Sales Manager. Under no circumstances are Model “I” or Model “H” ThermoJet® Oil Purifiers to be sold or rented to any customer where the application is known to contain explosive hydrocarbon gases.

In an effort to increase user awareness, and promote safe operation, we have developed several labels to be applied to ThermoJet® Oil Purifiers.

Three labels are for application to Models G-3000, G-3500, G-4000 and G-5000.

1) The following label is to be applied to the exterior front door of model G-3000, G-3500, G-4000 and G-5000 ThermoJet® Oil Purifiers (P/N 77750208):



WARNING:
When purifying lube oils containing flammable or explosive gasses or vapors, dry gas supply must be Nitrogen or other inert gas. **DO NOT** use compressed air or other oxygen containing gas mixtures. **EXPLOSION HAZARD** exists if connected to compressed air or other oxygen containing gas when flammable or explosive gasses or vapors are present.

ADVERTIR:
Cuándo purificar aceites de lubricante conteniendo gasses o vapores inflamables o explosivos, secan el suministro de gas debe ser Nitrógeno u otro gas inerte. No use aire comprimido ni otro oxígeno mezclas de gas que contienen. El **PELIGRO** de la **EXPLOSION** existe si conectó al aire comprimido u otro oxígeno que contienen asfixia con gas cuándo gasses o vapores inflamables o explosivos son presentes.

P/N 77750208
REV 0
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2) The following label is to be located adjacent to the nitrogen connection on all Model G-3000, G-3500, G-4000 and G-5000 ThermoJet® Oil Purifiers (Label P/N 77750209):



**Use Nitrogen or other inert gas supply only
Max Inlet Pressure
150 PSI / 10.3 bar**

**Use Nitrógeno u otro suministro inerte de gas
Cala sólo Máx Presiona
150 PSI/10.3 bar**

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3) The following instruction label is to be located adjacent to the jet mixer / pressure regulator in all Model G-3000, G-3500, G-4000 and G-5000 ThermoJet® Oil Purifiers (Label P/N 77750210):



IMPORTANT:

Open the nitrogen supply line and set the pressure regulator to 15 PSIG. Adjust the needle valve so that the pressure reading on the compound pressure gauge is zero PSIG.

IMPORTANTE: Abre la línea del suministro de nitrógeno y conjunto el regulador de la presión a 15 PSIG. Ajuste la válvula de la aguja para que la presión que lean en el calibrador compuesto de la presión son cero PSIG.

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One label is for application to all Model G-3000, G-3500, G-4000 and G-5000.

1) The following label is to be applied to the exterior front door of Model I-2000, H-2000, H-2000, H2500, I-4000, H4000 or H-4500 ThermoJet® Oil Purifiers (Label P/N 77750211):



WARNING:

This machine is designed for removing water and solid contamination only. **DO NOT** use this apparatus for purifying lube oils contaminated with flammable or explosive gasses.

EXPLOSION HAZARD exists if used for degassing applications where flammable or explosive gasses are present in the lube oil.

ADVERTIR:

Esta máquina se diseña para quitar agua y contaminación sólida sólo. **No use este aparato para purificar aceites de lubricante contaminados con gasses inflamable ni explosivo.**

El PELIGRO de la EXPLOSION existe si usó para las aplicaciones de degassing donde gasses inflamable o explosivo son presentes en el aceite de lubricante.

P/N 77750211
REV 0
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All labels are self adhesive vinyl and are for application directly onto the ThermoJet® cabinet. Prior to application, the adhering surface should be clean and free of oil and grease.

Labels are available at no charge for application to ThermoJet® Oil Purifiers already in service. Specify the Label Part Numbers when requesting labels. Service and Maintenance Personnel should check to ensure that all labels are present and properly applied during any routine or callout service.

Charlie Ehlert
Dir. Quality Control and New Product Development
PQSC Chairman