## KC Trading B.V.

#### **Key Benefits**

- For use in ATEX Zone 2 environments such as: Oil&Gas, Chemical, Pharmaceutical, etc.
- · Based on the most capable reeferunit in international container shipping: the Thermo King Magnum Plus.
- Able to maintain -40°C box temperature @ +50°C ambient temperature
- · High efficiency, low power usage allowing cost savings.
- · Intuitive operation, user-friendly, efficient visualization of
- High precision of temperature control, upto +/- 0.25°C





#### Best of both Worlds: Ex-Machinery's Magnum Plus for use in ATEX Zone 2

"Thermo King Magnum-Plus reefer units are already preferred by many end-users in the Oil&Gas, Pharmaceutical, Chemical and Marine industry. They are widely accepted as the most powerful, reliable and efficient reefer units currently on the market and are now also available for safe use in hazardous areas prone to Gas or Dust explosive atmospheres. The Ex-M Magnum-Plus offers temperature control with high precision, upto +/- 0.25°C. Combined with the broad setpoint range of -40° upto +30°C, this ensures your goods and substances remain in optimal condition.

The Ex-M Magnum-Plus offers all state-of-the-art functionality found in Thermo King's original product, including the famed easy and intuitive operation. The status of the reefer unit, indicated by smiley faces on the display, can still be viewed at a glance even though the display is now locked behind an impact-proof door."

### Why should I choose the Ex-M Thermo King Magnum Plus?

- All Magnum Plus functionality has been preserved in the Hazardous Area Design
- Leadtime 5-8 weeks; international shipping
- Thermo King approves and collaborates with Ex-Machinery and K.C. Trading to offer the Zone 2 solution

## **Explosion Safety Specifications (ATEX)**

EU Directive	2014/34/EU (ATEX114)
ATEX marking gas (inside reefer)	II 3G Ex h ec nA nR IIB T2/T3 GC
ATEX marking gas (outside reefer)	II 3G Ex h ec nA nR IIB T2/T3 GC
Applied standards	EN 60079-0, EN 60079-15, EN 60079-31, EN 80079-36, EN 80079-37









## KC Trading B.V.



Easy operation with Smiley interface, safely locked behing impact proof door.



Impact proof door, double lock.



Explosion proof compressor relais box – Ex nR

## System net cooling capacity - Full cool

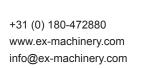
#### Magnum+ Model - Air Cooled Condensing\*

<del>-</del>				
	460/230V, 3 Phase, 60 Hz Power			
Return air to evaporator coil inlet	Net Cooling Capacity		Power Consumption	
	60 Hz Capacity B/hr	60 Hz Capacity kW	60 Hz Power kW	
21.1 C (70 F)	56,700	16.603	11.55	
1.7 C (35 F)	40,945	11.990	11.03	
-17.8 C (0 F)	24,785	7.258	7.57	
-29 C (-20 F)	17,215	5.041	6.6	
-35 C (-31 F)	14,000	4.104	6.03	

Control Circuit Voltage	29 VAC @ 60 Hz	
Weight (net) Magnum+ Base Unit	380 Kg (875 lb.)	
Setpoint range	-40.0 to +30.0 C (-31.0 to +86.0 F)	

<sup>\*</sup> System net cooling capacity with a 38°C (100 F) ambient air temperature and R-404A













### **EU Declaration of Conformity** ATEX DIRECTIVE 2014/34/EU



No. EX-M23ATEX2403X.EU

The product:

Model:

Zone 2 Explosion Proof Container Refrigeration Unit EX-M MP4000+

Consisting of:

Compressor, Evaporator fans, Condensor fan, Defrost heater with controller, Control cabinet with

components and temperature sensors

EX-M MP4000+

Markings affixed: ( ( (Ex)

II 3G Ex ec h nA nR IIB T2/T3 Gc

The manufacturer:

Ex-Machinery Explosion Proof Equipment B.V., Tinstraat 33, 2984 AN, Ridderkerk, The Netherlands

This declaration of conformity is issued under the sole responsibility of the manufacturer

The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

ATEX DIRECTIVE 2014/34/EU: "Concerning equipment and protective systems intended for use in potentially explosive atmospheres"

References to the relevant harmonized standards:

The following harmonized standards are applied in relation to which conformity is declared:

EN 60079-0:2018 EN 60079-15:2010 EN 60079-7: 2015 EN ISO 80079-36:2016 EN ISO 80079-37:2016

Additional information considered relevant to this declaration:

(X) Specific conditions of use are specified in the accompanying user manual of the product

Signed for and on behalf of

Ex-Machinery

Ridderkerk, 20-03-2023

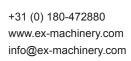
Managing Director

Explosion Proof Equipment B.V. G.A. van Tienhoven, M.Sc. E0933, 2984 AN Ridderkerk

The Netherlands

THIS DECLARATION IS NOT A WARRANTY DESCRIPTION STRUCTURE MEANING OF THE LAW CONCERNING PRODUCT LIABILITY, THE SAFETY INSTRUCTIONS GIVEN IN THE INSTALLATION MANUAL MUST BE OBSERVED. THE APPARATUS SHALL ONLY BE OPERATED UNDER THE CONDITIONS AS DESCRIBED IN THE USER MANUAL











V2 | 10-2023

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Notes	







