



## 17" Purged Enclosed Computer for Class 1 Div 1 Environments



The VT750ESC is a NEMA 4X HMI system designed to meet Class 1, Div 1 protection. The purge system uses an automatic pressure switch to automatically trigger alarms in case of pressure loss.

### Durable

The VT750ESC can easily handle the punishment of harsh computing environments. They are proven tough in real world applications such as industrial production areas, outdoor kiosks and public terminals.

The VT750ESC chassis has no external vents, so nothing can get under its skin, including dust, dirt, moisture, oil, chemicals or other harsh contaminants.

A hard-anodized aluminum heat exchanger and internal heat management system keep it cool in environments where ambient temperatures approach 50°C -- without using outside air.

### Easy Access

VT750ESC is designed with easy maintenance and up-upgrades in mind. A latched panel provides simple access to this NEMA 4X HMI system. With its moderate weight and dimensions, VT750ESC enables flexible mounting options.

## FEATURES

- ◆ Designed to Meet Class 1 Division 1
- ◆ Purged pressure switch
- ◆ NEMA 4x sealed enclosure
- ◆ Water proof and dust proof
- ◆ Stainless steel construction
- ◆ Easy latch access
- ◆ Hard-anodized aluminum heat sink
- ◆ Closed loop thermal cooling for high heat environments
- ◆ Flexible mounting options
- ◆ Optional Non-Incendive Keyboard/Mouse

\*Supports all VESA standard video formats

## CONTACT

### HEADQUARTERS

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## SPECIFICATIONS

### Display

17", 1280 x 1024 SXGA

### Processor

1.73GHz Intel Pentium Core Duo (Dual-Core) Mobile Processor T2080

### BIOS

Award PnP 4MB Flash ROM BIOS

### O/S

Windows XP Professional (optional Windows XP Embedded)

### System Memory

SO-DIMM DDRII 667/533/400 2 GB

### Graphics

Integrated VGA Engine in chipset (Intel GMA 950)

### LAN

Integrated Intel Gigabit PCI Express LAN Chip

### Hard Drive

320 GB Fast Access Disk Drive

### Power Input

100-240VAC 1.5A 50/60 HZ

### Power Connector

Standard Power Inlet (IEC320 C14)

### Dimensions

20" W x 18" D x 11" H

### Expansion Slots

Mini PCI x 1

### DVD Drive (E-IDE / ATAPI)

DVD-R, DVD+R, DVD-RW, DVD+RW, DVD-R DL, DVD+R9, CD-R, CD-RW

### I/O Ports

1 Realtek ALC882 HD Audio CODEC

PS/2 Keyboard Connector x 1

PS/2 Mouse Connector x 1

AC Adapter Connector x 1

### (I/O ports continued)

DVI Port x 1

S-Video Out Port x 1

COM Port x 1

USB 2.0 Port x 4

1394 Port x 1

RJ45 LAN Port x 1

Line In / SPDIF In x 1

Speaker Out x 1

MIC In x 1

Center / Subwoofer x 1

Rear Surround / SPDIF Out x 1

Side Surround x 1

### Temperature

Operational: 5° - 55°C

### Construction

316 stainless steel

Anodized aluminum heat sink

10" handles

IP67 - NEMA 4X, waterproof and dustproof

*Enclosure Only:*

18" H x 20" W x 11" D

66 lb

*Purge Kit Only:*

20" (H) x 11" (W) x 10.5" (D), 38 lb

### OPTIONS:

Windows XP Embedded

**\*\*Purge System w/Pressure Switch Next Page\*\***

**www.vartechsystems.com**



**Purge System w/  
Pressure Switch**

This Rapid Exchange® purging system operates on a supply of compressed instrument air or inert gas. It regulates and monitors pressure within sealed (protected) enclosure(s), in order to prevent combustible dust accumulation or remove and prevent flammable gas or vapor accumulations. The system accomplishes four air exchanges and maintains a "safe" (0.25") pressure. The system includes an Electrical Power Control Unit (EPCU) that monitors system operation and controls enclosure power. All start-up requirements must be satisfied before the EPCU will energize power to the enclosure(s). These processes reduce the hazardous (classified) area rating within the enclosure(s), in accordance with the NEC - NFPA 70, Article 500, NFPA 496 and ISA 12.4.

## MATERIAL SPEC

### Regulator Body

Zinc w/ Enamel Finish

### Regulator Handle

Polycarbonate

### Enclosure Pressure Gauge

Alum. w/ Enamel Finish

### Tube Fittings

316 SS Forged Body

### Tubing

316 SS 1/4" .035 Welded

### System Nameplates

Silk screened Lexan® & SS

### Fastener Hardware

SS Screws & Bolts

### Mounting Plate

316 14 Ga #3 Brush SS

### EPCU Enclosed Body

Bead Blast Cast Alum.

### Enclosure Warning

### Nameplate

Silkscreened SS

Lexan® is a registered trademark of the General Electric Company.

## Specifications

### Weight

38lb

### Temp. Range

-20F to 120F

### Supply Pressure Range

5 - 120 psi

### Supply requirements

Clean air or inert gas

### Safe Pressure Setpoint

.25" / 1.0"

### Safe Pressure Flow Rate

0.1 - 3.5 SCFH - Enclosure integrity determines actual flow rate

### Safe Pressure Flow Rate

4 SCFM / 240 SCFH - With regulator set to 60 psi min. during exchange

### Exchange Time

As required - Time required to exchange 4 volumes within the enclosure(s), based on actual measured safe pressure flow rate or 5 minutes, whichever is greater

### System Supply Port

1/4" tube fitting

### Enclosure Supply Fitting

1/4" tube fitting

### Enclosure Reference Fitting

1/4" tube fitting

### EPCU Conduit Port Size

1/2" FPT

### EPCU Power Requirements

120 VAC 60Hz 10

### EPCU Power Consumption

500mA

### Dimensions

20" (H) x 11" (W) x 10.5" (D)  
Height & Width dimensions reflect mounting plate measurements. Depth dimensions reflects overall easurement of system, including components.

### Mounting

Side (L/R), Top or Bottom

## OPERATION

In accordance with system instructions, start-up requires air supply to be engaged and EPCU power to be energized. The system must perform an exchange cycle (determined by the safe pressure flow rate — 5 minutes minimum) before power can be energized. Loss of safe pressure causes the EPCU to de-energize power to the protected enclosure(s). The purge system includes an explosion proof differential pressure switch with form "C" contacts for audible of visual alarm systems.

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