

# T1Flo Vented Enclosure with Fan Type 1, 28.00x24.00x12.75, Gray, Steel

## CATALOG NUMBER

**T1F80LP**



T1Flo Vented Enclosure with Fan, Type 1, have a thermostatically controlled forced-air ventilation system for the removal of heat. Ideal for control systems in HVAC or industrial environments that have a combination of heat-sensitive electronics with high heat producing components such as (VFD) drives, inverters, PLCs and non-hardened processors.

## INDUSTRY STANDARDS

UL 508A Listed; Type 1; File No. E61997

cUL Listed per CSA C22.2 No. 94; Type 1; File No. E61997

NEMA/EEMAC Type 1

IEC 60529, IP20

## FEATURES

Lift-off Hinged Door

Active cooling ventilation system with factory installed, thermostatically controlled fan (115 VAC) and filter

Terminal block power connection for fan

Washable expanded metal filter

Slotted quarter-turn latch

Collar studs for mounting optional panel

Grounding provision on door and body

Mounting holes on back of enclosure

Accepts optional mounting foot kit

Door gasket

## PRODUCT ATTRIBUTES

Article Number: 17368

Height: 28in

Width: 24in

Depth: 12.75in

Material: Mild Steel

Finish: Powder Coated

Color: Gray

Color Code: ANSI 61

Thickness: 14ga

System CFM: 80ft<sup>3</sup>/min

Suggested Horsepower: 3HP

Fan Quantity: 1

Fan Size: 4in

Weight: 72lb

## ADDITIONAL PRODUCT DETAILS

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### Required Airflow

The following equation is used to calculate the airflow required in a forced-air system to remove heat and maintain enclosure temperature a given amount above the ambient temperature.

$$\text{CFM} = \text{WT} \times 3.16 / \text{Tint} - \text{Tamb}$$

$$\text{CFM} = \text{Required airflow (ft.}^3 \text{ / min.)}$$

$$\text{WT} = \text{Total heat dissipated in enclosure (watts)}$$

$$\text{Tamb} = \text{Ambient or external Temperature (degrees F)}$$

$$\text{Tint} = \text{Desired internal Temperature (degrees F)}$$

Assumptions: Specific values and physical sizes must be verified. Typical motor efficiency is 91 percent; typical drive efficiency is 97 percent.

## WARNING

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nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.



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