## GLOBAL IFS ${ }^{\circledR}$

## Underfloor Air Distribution System

Perimeter Beam Terminal (PBT)


The Perimeter Beam Terminal (PBT) is a premium linear floor grille with integrated heating and cooling coil, designed for raised floor applications and ideal for perimeter ventilation. Using the PBT allows for conditioning of the perimeter zone without the use of an underfloor fan terminal.

Extruded aluminum bars provide crisp styling and exceptional strength. In addition to having various grille style options, these terminal units can be configured in either discrete or continuous applications.

The integrated cooling coil provides decoupled cooling at the perimeter, reducing perimeter zone dependence on plenum static and temperature reset.


## Energy Efficient Systems

The PBT assembly is rigorously tested and validated in an underfloor application.

The PBT series is tested in accordance with ASHRAE 70-2006.

Control enclosure is ETL certified.

## Modular Design

The PBT heater is an integral component of the System.
Plug-and-play wiring allows for increased flexibility and ease of installation.

Power and control signals are delivered to each unit via a single daisy chained cable, with up to six units in a series.

## Flexibility in Design

Hot water and electric coils available.
Options include various border styles, core configurations and constructions, fastening methods and directional vanes.

## PRODUCT APPLICATION

The PBT is especially suited to corridors and large windows where higher airflows and heating capacities are required. The PBT is recessed into the raised floor plenum and is designed to handle regular foot traffic. This makes them well suited for offices, lobbies, schools and universities with raised floor or trench systems along the perimeter. Due to its modular nature and ability to work with other VAV floor devices with Global IFS controllers, the PBT is also commonly used in conference rooms and offices where supplemental heat is necessary.

## 4-Pipe



## 2-Pipe



| PARTS LIST |  |
| :---: | :--- |
| ITEM | PART NAME |
| 1 | TOP COVER |
| 2 | MOTORIZED VAV DAMPER |
| 3 | 24 VAC ACTUATOR (OPT) |
| 4 | 2 PIPE WATER COIL |
| 5 | $5 / 8 "$ COPPER CONNECTION |
| 6 | DRAIN PIPE |
| 7 | REMOVABLE ENDCAP |
| 8 | PEDESTALS (ORDERED SEPARETELY) |

## Heating Airflow




| Rough Opening <br> $(L \times W)$ | Actual <br> Length |  | Dimensions <br> Width |
| :---: | :---: | :---: | :---: |
| $48^{\prime \prime} \times 12^{\prime \prime}$ | $47.875^{\prime \prime}(1216 \mathrm{~mm})$ | $11.875^{\prime \prime}(302 \mathrm{~mm})$ | Pedestal Bracket Qty <br> $($ Opt. $)$ |
| $72^{\prime \prime} \times 12^{\prime \prime}$ | $71.875^{\prime \prime}(1826 \mathrm{~mm})$ | $11.875^{\prime \prime}(302 \mathrm{~mm})$ | 2 |
| $96^{\prime \prime} \times 12^{\prime \prime}$ | $95.875^{\prime \prime}(2435 \mathrm{~mm})$ | $11.875^{\prime \prime}(302 \mathrm{~mm})$ | 3 |



| Rough Opening <br> $(L \times W)$ | Grille Size |
| :---: | :---: |
| $48^{\prime \prime} \times 12^{\prime \prime}(1219 \times 305 \mathrm{~mm})$ | $47^{3 / 4^{\prime \prime} \times 5^{3 / 4^{\prime \prime}}(1213 \times 146 \mathrm{~mm})}$ |
| $72^{\prime \prime} \times 12^{\prime \prime}(1829 \times 302 \mathrm{~mm})$ | $71^{3 / 4^{\prime \prime} \times 5^{3 / 4^{\prime \prime}}(1822 \times 146 \mathrm{~mm})}$ |
| $96^{\prime \prime} \times 12^{\prime \prime}(2438 \times 305 \mathrm{~mm})$ | $95^{3 / 4^{\prime \prime} \times 5^{3 / 4^{\prime \prime}}(2432 \times 146 \mathrm{~mm})}$ |

## PERIMETER ZONE



NOTES：
1．VARIABLEAIR VOLUME UNITS DAIIY CHAINED WITH M－CABLES
2．ALL CABLES USED IN PLENUM MUST MEET PLENUM RATING REQUIREMENTS
POWER SUPPLY MODULE（PSM）：
－PLUG AND PLAY BOARD FOR USE WITH ZONE CONTROLLERS BY OTHERS

SEPARATE SIGNALS FOR COOLING ONLY AND HEAT／COOL UNITS
－6－PIN MTA CONNECTOR，ACCEPTS COMMON OR UNIQUE $0-10$ VDC INPUT SIGNAL PER CONNECTOR
OPTIONS：
OPIONS： $50 V$ TRANSFORMER， 2 MTA CONNECTORS（MAX 10 DEVICES）
50VA TRANSFORMER， 2 MTA CONNECTORS（MAX 10 DEVICES
50 VA TRANSFORMER， 1 MTA CONNECTOR（MAX 10 DEVICES）
WIRING：
－PLACE PSM UNDER TILE NEAR CENTER OF ZONE．COORDINATE LOCATION AVOID PLACING UNDER FURNITURE －WIRE EACH PORT TO THE CLOSEST AVAILABLE UNIT，THEN
－WIRE EACH PORT TO THE CLISEST AVAILABLE UNIT
PROCEED WITH DAISY CHAINING ADDITIONAL UNITS
PERIMETER UNIT
ロPBT
PRNT
－PFT
POWER SUPPLY
－ 115 V
a 240 V
$\square 240 \mathrm{~V}$
$\square 277 \mathrm{~V}$

WIRE LEGEND

－ーーーーーー BY ELECTRICAL CONTRACTOR
－－MODULAR PLUG \＆PLAY CABLES （BY GIFS）

