# Active Pulsation Dampeners

## *CF-X HT Model*

### ⅜", ¾" and 1" Pulsation Dampener Data Sheet

Fully automatic operation with self adjusting speed & pressure control.
*For improved flow, accuracy & surge control in metering, dosing, blending, mixing, spraying, filling or important process applications.*
*Reduces liquid pulsation, liquid surge, foaming & splashing.*
*Helps to protect the Pump, Pipes, Fittings and Process Machinery from problems caused by pulsation, vibration, thermal expansion, hydraulic shock, water-hammer & cavitation.*



**CF-X25HT**
3/4" PTFE Dampener

| HT Pulsation Dampener Specifications | | | |
|---|---|---|---|
| **Model / Material** | **CF-X10HT** | **CF-X25HT** | **CF-X40HT** |
| **Liquid Port** | Rc 3/8 [NPT 3/8] | Rc 3/4 [NPT 3/4] | Rc 1 [NPT 1] |
| **Operating Pressure** *1 | 0 - 0.5 MPa [0 - 70 psi] | 0 - 0.7 MPa [0 - 100 psi] | |
| **Max. Discharge Pressure** | 0.5 MPa [70 psi] | 0.7 MPa [100 psi] | |
| **Max. Air Consumption** | 20 l/min (ANR) [0.70 SCFM] | | |
| **Max. Solid Size** | 1 mm or less | 3 mm or less | |
| **Ambient Temp. Range** | 0 - 70°C [32 - 158°F] | | |
| **Liquid Temp. Range** | 0 - 80°C [32 - 176°F] | | |

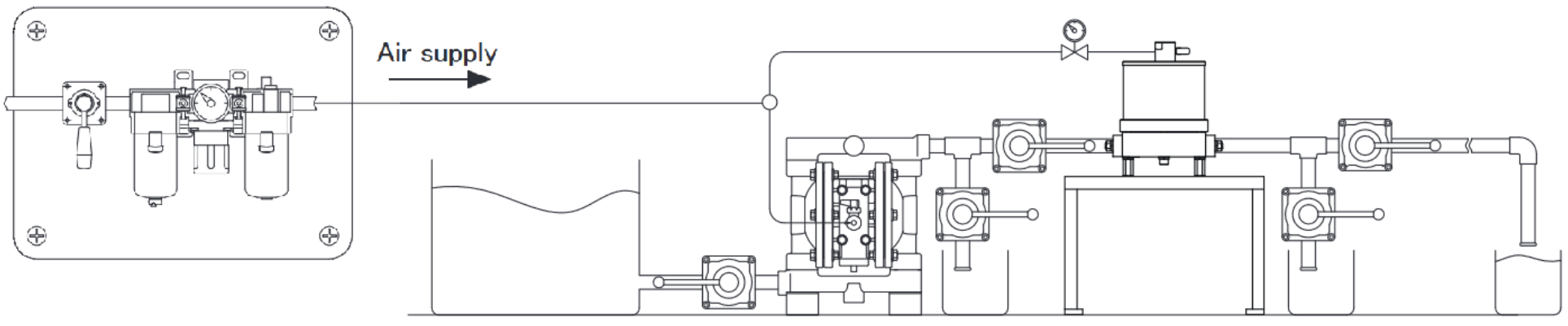
*1 Max. applied air pressure of the plastic dampener depends on the liquid temperature.
*The quality of compressed air should satisfy the Quality Classes 2 - 3 – 2 of "JIS B8392-1:2000 General Compressed Air".
(Maximum diameter of a particle: 1 µm, Maximum pressure dew-point: -20°C, Maximum oil content: 0.1 mg/m3)

## Wetted Materials Of Construction

| CF-X .. HT | 10HT | 25HT | 40HT |
|---|---|---|---|
| **Dampener wetted Parts** | PTFE | | |
| **Diaphragm** | PTFE | | |
| **O-ring** | PTFE | | |
| **Center Disk** | SUS304 | SUS316 | |
| **Weight** | 4.3kg [9.5 lbs] | 12.0kg [26.5 lbs] | 29.0kg [63.9 lbs] |

***Note: US FED STD 209E Cleanroom Standards Class 1000, equivalent to ISO6***

## Installation Layout Sample

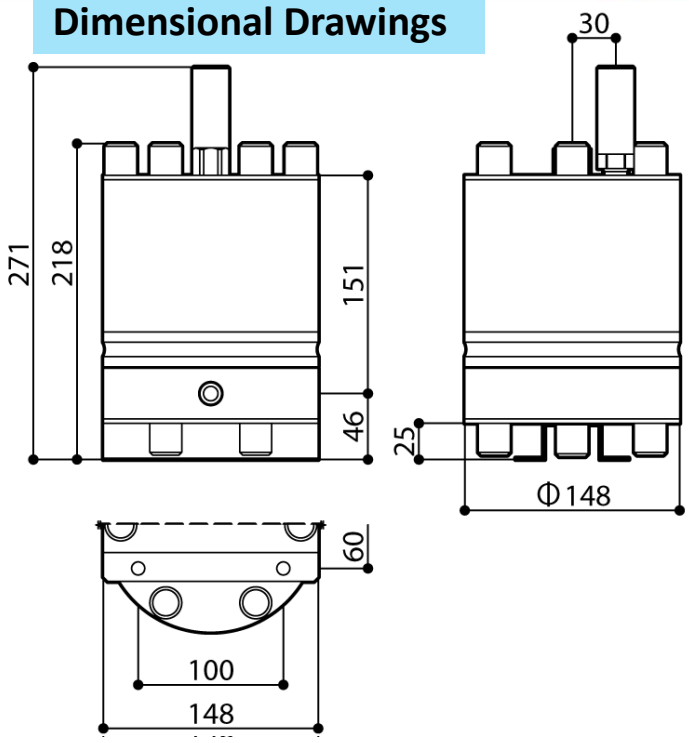


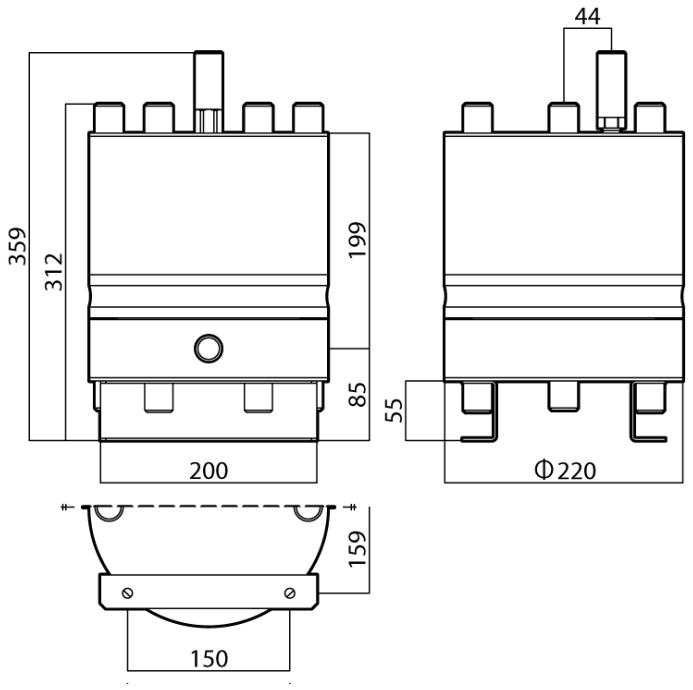

*Install the dampener within 1 m from pump discharge port.
*Required minimum pump discharge pressure of 0.1 MPa to make the dampener efficiency.
*Set the supply air pressure to the reference level of "pump discharge pressure x 1.1" by using the regulator connected to the dampener and make a fine adjustment in the range of ± 0.05 MPa while checking the pulsation as required.

***For more information about TC-X Pumps please contact:*** sales@iwaki.de
***WWW.IWAKI.DE***

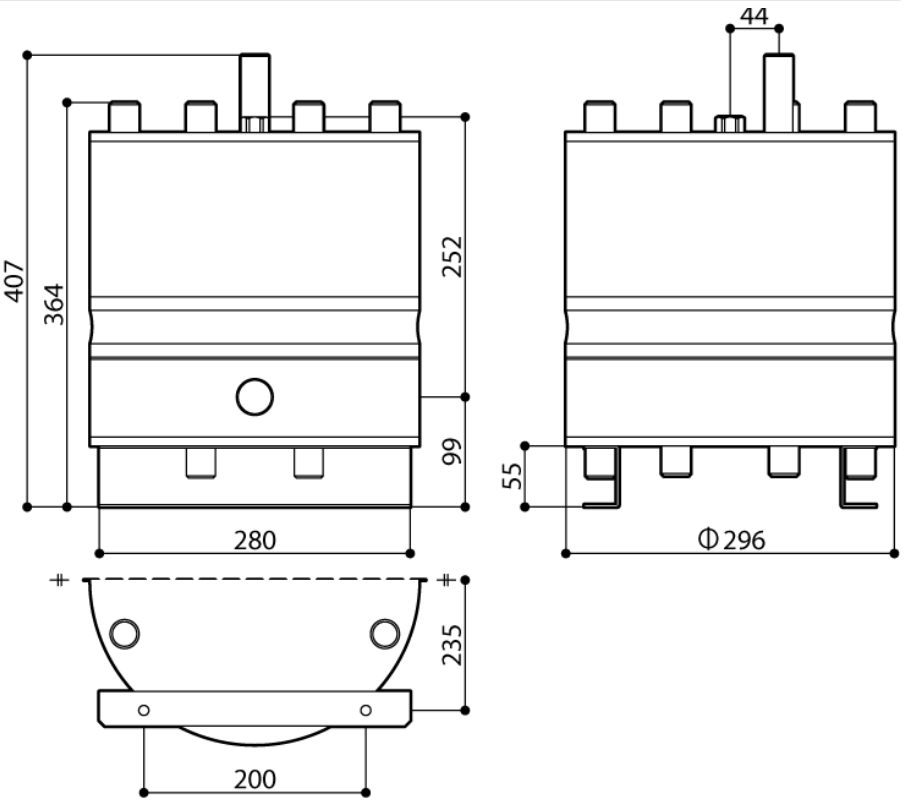
# Active Pulsation Dampeners

## Dimensional Drawings




### 10HT [10HTN]




### 25HT [25HTN]



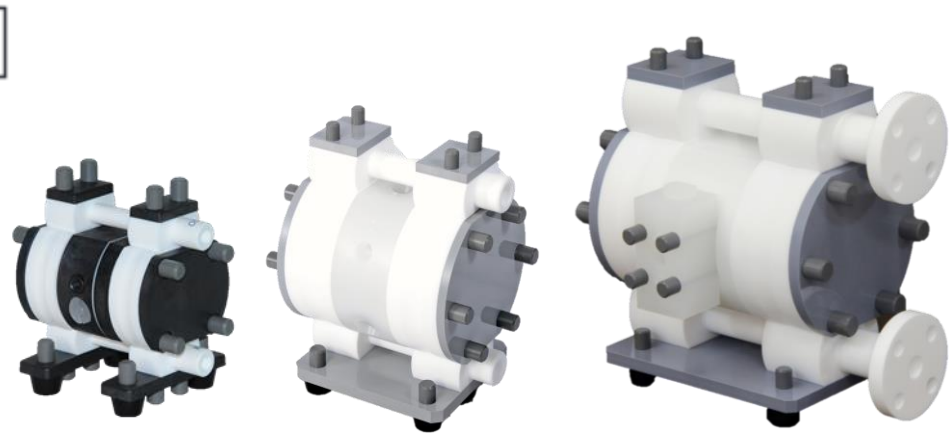
**CF-X10HT**
⅜" PTFE Dampener

### 40HT [40HTN]

## Applicable Pumps



***TT models*** *Standard PTFE*



***HT models*** *High-purity PTFE, Clean-room Class 1000*

## AODD Pump Capabilities

| | | |
|---|---|---|
| Self Priming | Variable Discharge Pressures | Inherently Safe Design |
| Run Dry | Transfer Liquid Slurries | Portable & Easy to Use |
| Run up to Dead Head | Transfer Large Sized Solids | Transfer Viscous Fluids |
| Variable Flow Rates | Handle Abrasives | Frequent Start Stop Operation |
| Shear Sensitivity | Transfer Chemicals | Powered by Compressed Air |

CE LoopedC

Ex II2G ExhIIBT5Gb「0°C<Ta<70°C」
II2D ExhIIIBT100°CDb「0°C<Ta<70°C」

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