# FILTER-LINETM <br> 4" MOISTURE SEPARATOR CELLS <br> With 2" Media Pack and 2" Collection Area 

AIR
FILTERS

## Description



The FILTER-LINE ${ }^{\text {TM }}$ Series MSC—Moisture Separator Cells are designed for those applications requiring reduction of oil mist, water mist, fog or droplets from outside air or recirculated air. MSC Cells are also useful in systems that allow saturated air to condense out, such as downstream of DX or chilled water coils and steam or mist humidifiers. Each 4" MSC Cell is fabricated to provide a 2" media pack and a 2" collection area. The media pack is an all aluminum combination of flat and pleated screen wire to produce a dense, effective, mist eliminating medium. MSC Cells are available in (2) types for use in built-up holding frame banks or side-access housings.

## Construction

16 GAUGE ALUMINIZED STEEL ENCLOSING FRAME Moisture Separator Cells are enclosed in a 16 gauge aluminized steel frame. Frames are notched and folded and secured by the use of a pop rivet tab. 16 gauge material ensures frame rigidity. 2" DEEP SEPARATION MEDIA PACK
MSC Cells are a 2-stage design. The air-entering side is a dense combination of flat and pleated screen wire that is 2 " deep. The air-leaving side is a 2 " deep collection area that allows drainage. INTERNAL DRAIN HOLES
Moisture Separator Cells are provided with (4) .50" diameter drain holes located in the enclosing frame. Air and mist are separated and the resulting collection drains through the internal drain holes.

ENCLOSING FRAME ALIGNMENT DIMPLES Moisture Separator Cells are supplied with frame alignment dimples which align the cell in a forward pitch from the rear. This assists in the vertical drainage and deters moisture carry over.

VERTICAL INSTALLATION LABEL
Moisture Separator Cells are clearly marked with an installation label which indicates the "TOP" of the cell. This guarantees proper installation and drainage of the MSC Cell.

2 TYPES OF MOISTURE SEPARATOR CELLS Moisture Separator Cells are available for built-up frame banks. Frame bank supports and drain system are field supplied. Cells for side-access housings are supplied with side sealing gaskets.

## Dimensional Data

| Series MSC - 4" Deep MOISTURE SEPARATOR CELLS R USE IN BUILT-UP FRAME BANKS |  |  |
| :---: | :---: | :---: |
| MODEL NUMBER | NOMINAL SIZE | $\begin{aligned} & \hline \text { ACTUAL } \\ & \text { SIZE } \end{aligned}$ |
| FLMSC41224 | $12 \times 24 \times 4$ | $113 / 8 \times 23$ 3/8 $37 / 8$ |
| FLMSC41620 | $16 \times 20 \times$ | $151 / 2 \times 191 / 2 \times 37 / 8$ |
| FLMSC41625 | $16 \times 25 \times 4$ | $151 / 2 \times 241 / 2 \times 37 / 8$ |
| FLMSC42020 | $20 \times 20 \times 4$ | $191 / 2 \times 191 / 2 \times 37 / 8$ |
| FLMSC42025 | $20 \times 25 \times 4$ | $191 / 2 \times 241 / 2 \times 37 / 8$ |
| FLMSC42412 | $24 \times 12 \times 4$ | $233 / 8 \times 113 / 8 \times 37 / 8$ |
| FLMSC42424 | $24 \times 24 \times 4$ | $233 / 8 \times 233 / 8 \times 37 / 8$ |


| SERIES MSC <br> MOISTURE SEPARATOR CELLS |  |  |
| :---: | :---: | :---: |
| FOR USE IN SIDE-ACCESS HOUSINGS |  |  |$|$

Performance Data

| Performance Data |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SERIES | INITIAL RESISTANCE |  |  |  |  |  |  |
|  | $\underset{\text { FPM }}{\substack{@ \\ \hline}}$ | $\begin{gathered} \hline \text { @ } 350 \\ \text { FPM } \end{gathered}$ | $\begin{gathered} \text { @ } 400 \\ \text { FPM } \end{gathered}$ | $\begin{gathered} \text { @ } 450 \\ \text { FPM } \end{gathered}$ | $\begin{gathered} \hline \text { @ } 500 \\ \text { FPM } \end{gathered}$ | $\begin{gathered} \text { @ } 950 \\ \text { FPM } \end{gathered}$ | $\begin{aligned} & \hline \text { @ } 600 \\ & \text { FPM } \\ & \hline \end{aligned}$ |
| MSC | . 08 | . 12 | . 17 | . 21 | 25 | 29 | . 34 |


| MSC - Efficiency versus Droplet Size |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MICRON SIZE OF DROPLETS versus Efficiency rating |  |  |  |  |  |  |  |  |  |  |
| 1.5 | 2.0 | 4.0 | 6.0 | 8.0 | 10.0 | 12.0 | 14.0 | 16.0 | 18.0 | 20.0 |
| 13\% | 25\% | 58\% | 76\% | 86\% | 91\% | 96\% | 97\% | 98\% | 99\% | 100\% |

## FL- FILTER-LINE ${ }^{T M}$

| MSC- | Moisture Separator Cell |
| :--- | :--- |
| G- | Side Sealing Gasket |
| 4- | Unit Depth |
| 24- | Unit Width |
| 24- | Unit Height |

Notes:

1. Moisture Separator Cells for use in side-access housings are supplied with side sealing gasket.
2. Please see ACCESS-LINE ${ }^{\text {TM }}$ Series information for Moisture Separator Housing (AL12MS) specifications.

E-Mail: askus@blcind.com

