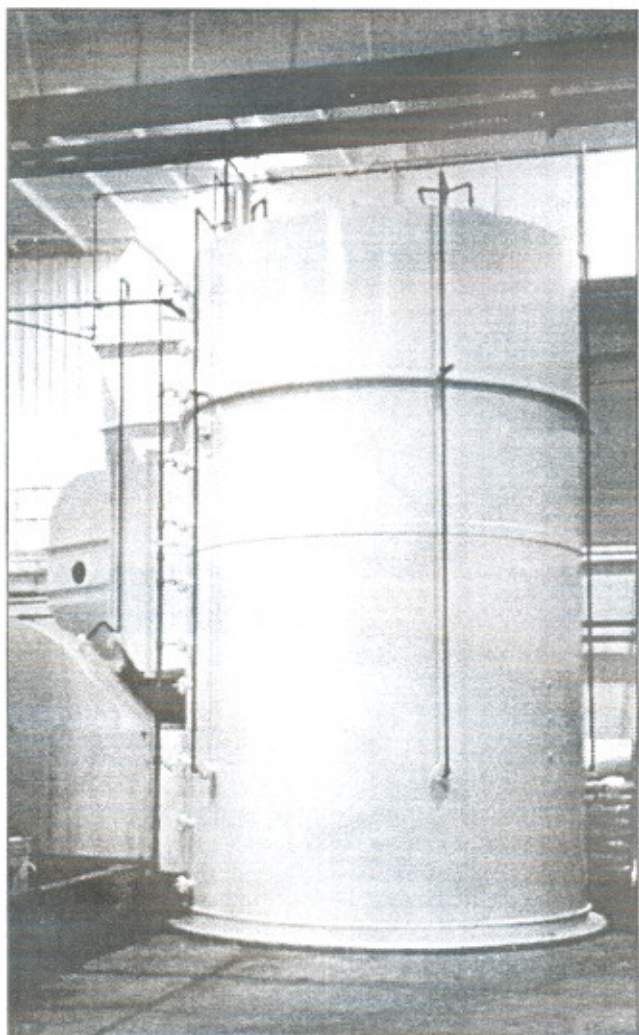
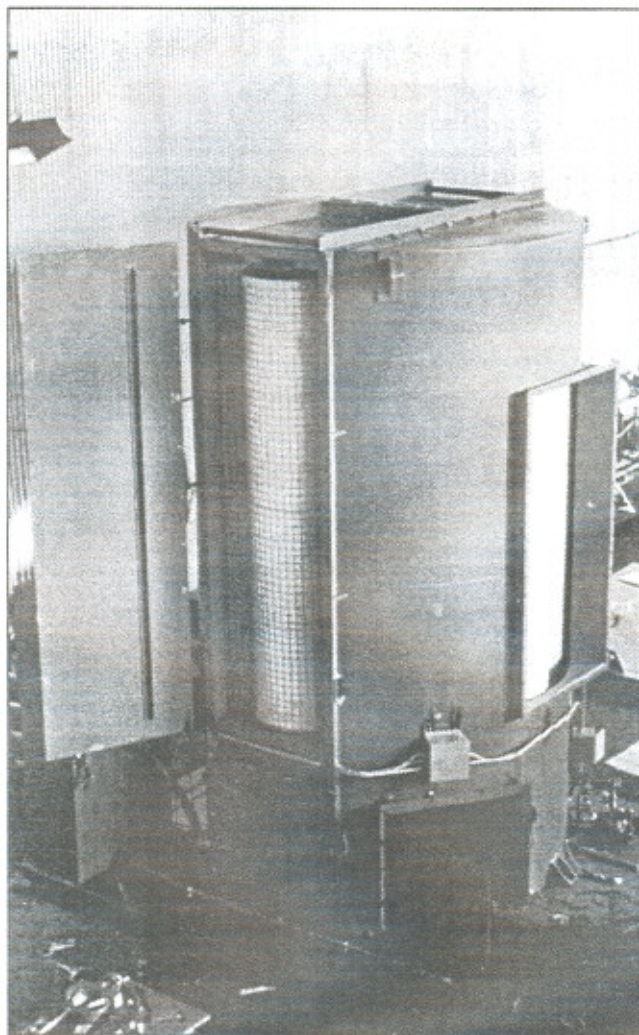


# **BUSCH** PPS/DBF

*High Efficiency Mist Eliminator for Rolling Mills*



## *For high efficiency control of sub-micron liquid particulate*

**T**he BUSCH PPS/DBF unit was developed specifically to meet the increasingly stringent VOC or PM-10 environmental regulations for metal rolling operations. The quantity and particle size of liquid mist generated from rolling mills are a function of many variables including coolant type, coolant flow rate, metal temperature, strip speeds and saturation dew point. Rolling mills have several mist generation mechanisms such as hydraulic pressure sprays and surface boiling followed by condensation. For this reason, size and character of liquid particulate vary greatly.

A multiplicity of coolants and rolling methods mandate the use of multiple stages to achieve the lowest mainte-

nance and highest possible collection efficiency. The PPS/DBF Unit employs cleanable media, disposable media or a combination of both.

The PPS/DBF eliminator mechanically removes and drains liquid particulate using several mechanisms. Mists are removed by inertial impaction, direct interception and Brownian capture depending on the droplet diameter and liquid density. The PPS/DBF Unit provides removal of liquid particulate down to 0.3 micron. When vapor phase emission control is not required, the PPS/DBF mist eliminator offers maximum collection efficiency and lowest opacity.

## DESIGN AND CONSTRUCTION

The PPS/DBF Unit is custom designed to suit each system requirement. Capacity, Unit arrangement and dimensions, number of eliminator stages, location and sizes of duct connections and materials of construction can be varied to assure proper installation and operation.

Construction of the PPS/DBF Unit includes heavy structural base, sloped steel floor plate with multiple drain ports, reinforced housing and inspection and maintenance access panels. Critical welds are kerosene and chalk tested to detect pinhole leaks. If lighting is present, electrical wiring is in rigid, liquid-tight conduit in accordance with the plant's electrical standards.

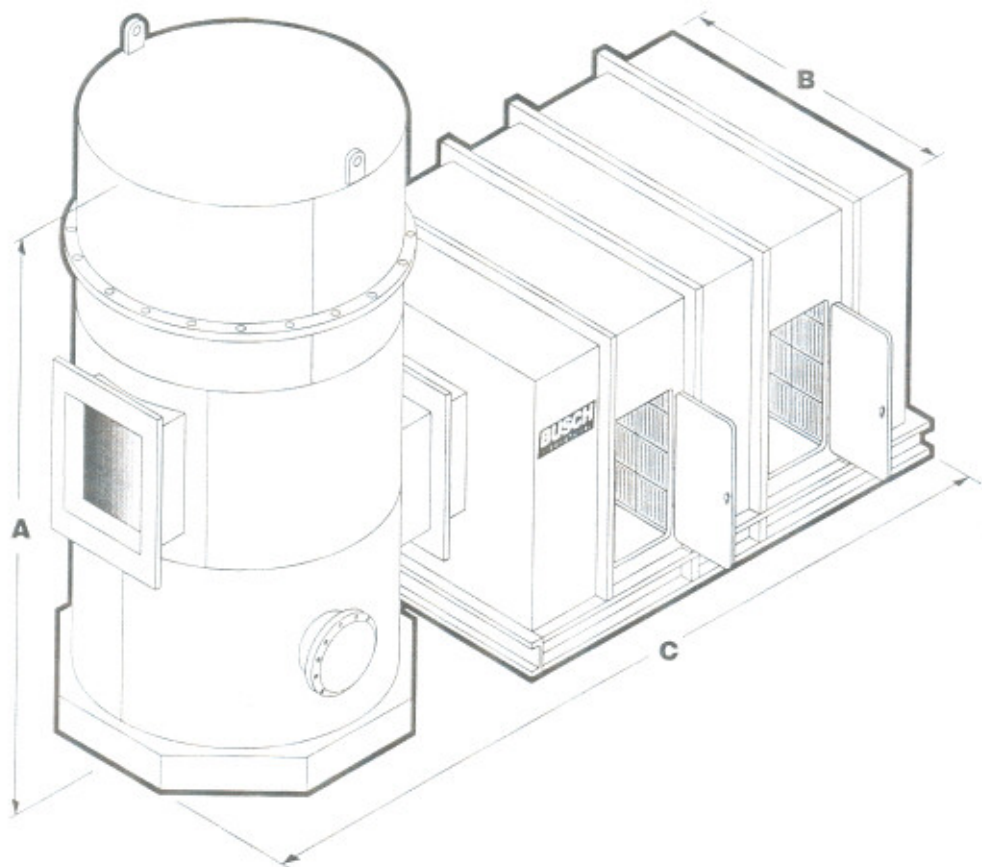
**BUSCH**  
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DIVISION OF BUSCH CO.

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## DIMENSIONAL DATA

SCFM	A	B	C
10,000	12'-0"	7'-0"	25'-0"
20,000	13'-0"	10'-0"	28'-0"
30,000	16'-0"	10'-0"	28'-0"
40,000	20'-0"	12'-0"	28'-0"
50,000	20'-0"	14'-0"	30'-0"
60,000	21'-0"	14'-0"	30'-0"

Other sizes are available.



## ACCESSORIES AND OPTIONS

- Support steel and platforms
- Duct and transitions
- Condensing coils
- Drainage units
- Alternate paint systems
- Special gasket material
- Volume control and/or CO<sub>2</sub> containment dampers