

MARCRAFT CUSTOM HVAC SYSTEMS
MANUFACTURES 7 OUTDOOR ROOFTOP UNITS
FOR DAIRY PROCESSING FACILITY

APPLICATION:.....Dairy Processing Facility

LOCATION:..... Michigan

CUSTOM HVAC SYSTEMS:..... 7 Outdoor Rooftop HVAC Systems

MARCRAFT TOTAL SOLUTION

The Dairy Processing Facility was in need of an HVAC system that had a completely washdown capable interior and components. MarCraft Custom HVAC Systems provided the customer with 7 AHUs of similar design but varying capacity, all with a stainless steel washdown interior.

NOTEWORTHY

 The customer creates ultra-filtered milk products using soft filters to concentrate the milk, making it higher in protein and calcium, while filtering out natural sugars.



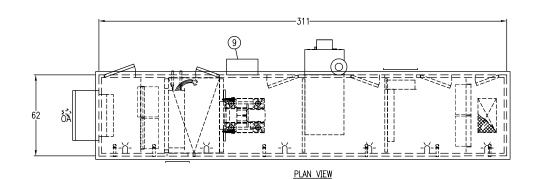


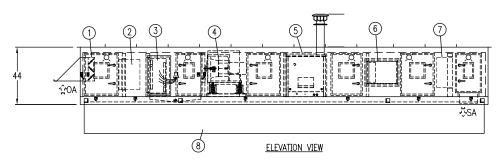
WASHDOWN CONSTRUCTION

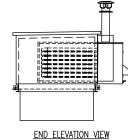
- · 316SS floorpans with 304SS walls & ceiling
- · Interior wall liners on inside of floor pan lip
- · Feather bends on interior liner seams
- · Floor drains in every compartment

SPECIFICATIONS

- · 7 Outdoor Rooftop HVAC Systems
- · 3-13,000 CFM Units
- · 1-11,600 CFM Unit
- · 1 2,400 CFM Unit
- · 1 2,700 Unit
- · 1 4,710 CFM Unit







- 1. OA Damper
- 2. Combination Filter Bank
- DX Cooling Coil Bank
- 4. Supply Fan Assembly
- 5. Indirect Fired Burner6. Electric Heat Coil
- Final Filter Bank
- Roof Curb
- Variable Frequency Drive

UNIT MATERIALS

- · 316SS floor pans (flood tested)
- · 304SS interior walls & ceilings
- Galvanized exterior coated with epoxy primer and 2 coats of MarCraft gray air-dry enamel
- · Brake-formed 12ga galvanized roof curbs



COMPONENTS

- Low leakage Tamco 1000-SW dampers for extra corrosion resistance
- · Clip-free filter frames in 304 stainless steel
- · DX cooling coils
- Direct-drive plenum fans (1 per AHU) with industrial epoxy coating and airflow measuring stations
- Indirect-fired heat with all air-side heat exchanger components made from 304SS
- · Washdown-duty electric heating coils
- · HEPA filters
- · Stainless steel walk grate over floor duct connections
- Factory-installed NEMA 3R VFD & power panel
- Single-point power connection with main unit disconnect

