(800) 325-1303



MARCRAFT CUSTOM HVAC SYSTEMS PROVIDES 2 AIR HANDLING UNITS FOR BABY CARE PRODUCT FACTORY

APPLICATION:..... Baby Care Products Factory LOCATION:..... Pennsylvania

CUSTOM HVAC SYSTEMS:..... TWO OUTDOOR ROOFTOP AHUS

MARCRAFT TOTAL SOLUTION

MarCraft provided two Outdoor rooftop systems that were identical, but mirrored. These units are some of the largest systems that MarCraft has built. The facility is a factory making baby care products, such as diapers, as well as makes paper towels and toilet paper.

NOTEWORTHY

- The AHUs made for this factory are identical, but mirrored.
- The units are some of the largest units that Marcraft has made.



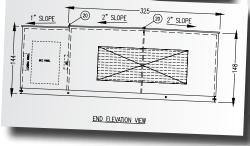


HVAC SYSTEMS SPECIFICS:

CONSTRUCTION

- Factory installed chilled water system of stainless steel Victaulic construction. Includes 3-way control/ bypass valve, redundant strainer system, balance and isolation valves, thermometers, and pressure gauges.
- Factory installed steam piping system. Includes control valves, block and bleed isolation valves, strainers, and traps.
- Factory installed enthalpy based temperature and humidification control system

PIPE CHASE LAYOUT AAAAA PIPE CHASE ELEVATION



SPECIFICATIONS

- (2) Outdoor rooftop AHU's with vestibule.
- 125,000 cfm each
- Motor Control Center with VFD's PLAN VIEW 20 (8 (10 (20) FIGHT **VERALI** 53.5 SECT. 2 ELEVATION VIEW SECT. 3 Acoustic Target Panels (Fan Section Only) OA Hood Assembly Cooling Coil Bank Vestibule Ventilation Damper 14. 21. Min OA Damper Re-Heat Steam Heating Coil Bank 8 15. Variable Frequency Drive Air Mixing Columns Control Panel 22 Supply Air Damper 16. Supply Air Companion Flange Humidifie 17. Motor Control Center Panel 23. 10 24. Baghouse Air companion flange **Baghouse Air Damper** 11. Fan Inlet Damper 18. Pipe Chase OA Mist Eliminator Media 25. Return air companion flange Combination Filter Bank 12 Supply Fan Assembly 19.

20.

Safety Tie Off Point

UNIT MATERIALS

Pre-Heat VIFB Heating Coil Bank

2A

2B

3. 4.

OA Damper

RA Dampe

- Perimeter members C12 x 20.7 Structural Steel
- Cross Members C6 x 8.2 w/ C12 x 20.7 full height as required

13.

Component Removal Beam

- Under Liner 22 GA. Galvanized
- Insulation Polyurethane spray foam system, 4in thick, (R6.5/in)
- Floor Pan 3/16in Aluminum tread-plate floor pan
- Exterior Finish Mill finish aluminum w/ Marcraft grey painting base
- Exterior 0.050 embossed aluminum
- Interior 0.080 aluminum
- Panel size 4in thick, max 16in wide

AIRSTREAM COMPONENTS

- OA Hoods with cleanable prefilter
- Filters (Pre and Final)
- Preheat VIFB steam heating coils
- Mixing section for OA/RA/Recycled Air with integral air mixing columns

- Insulation 4in R-13 polyurethane spray foam system, (R6.5/in)
- Exterior Fasteners Stainless Steel
- Interior Fasteners Stainless Steel
- Exterior Sealant Co-Polymer Adhesive sealant
- Interior sealant Co-polymer adhesive sealant
- Interior safe-off walls Aluminum w/ SST CW coil and humidifier safe off
- 1/4in thermal break Entire unit
- Perforated liner Perforated 22 GA 304 Stainless Steel (Supply Fan Section Only)
- Perforated area insulation 1in 1.5# un-faced insulation w/4-MIL Polyethylene sub-liner
- Chilled water cooling coils
- Reheat steam heating coils
- Humidifier
- Supply Fans (4 per unit) with inlet isolation dampers

