

CUTTING-EDGE

INDUSTRIAL AIR HANDLING

Custom-made Air Handling Units



AHU STEAM



AHU AIR CONDITIONING

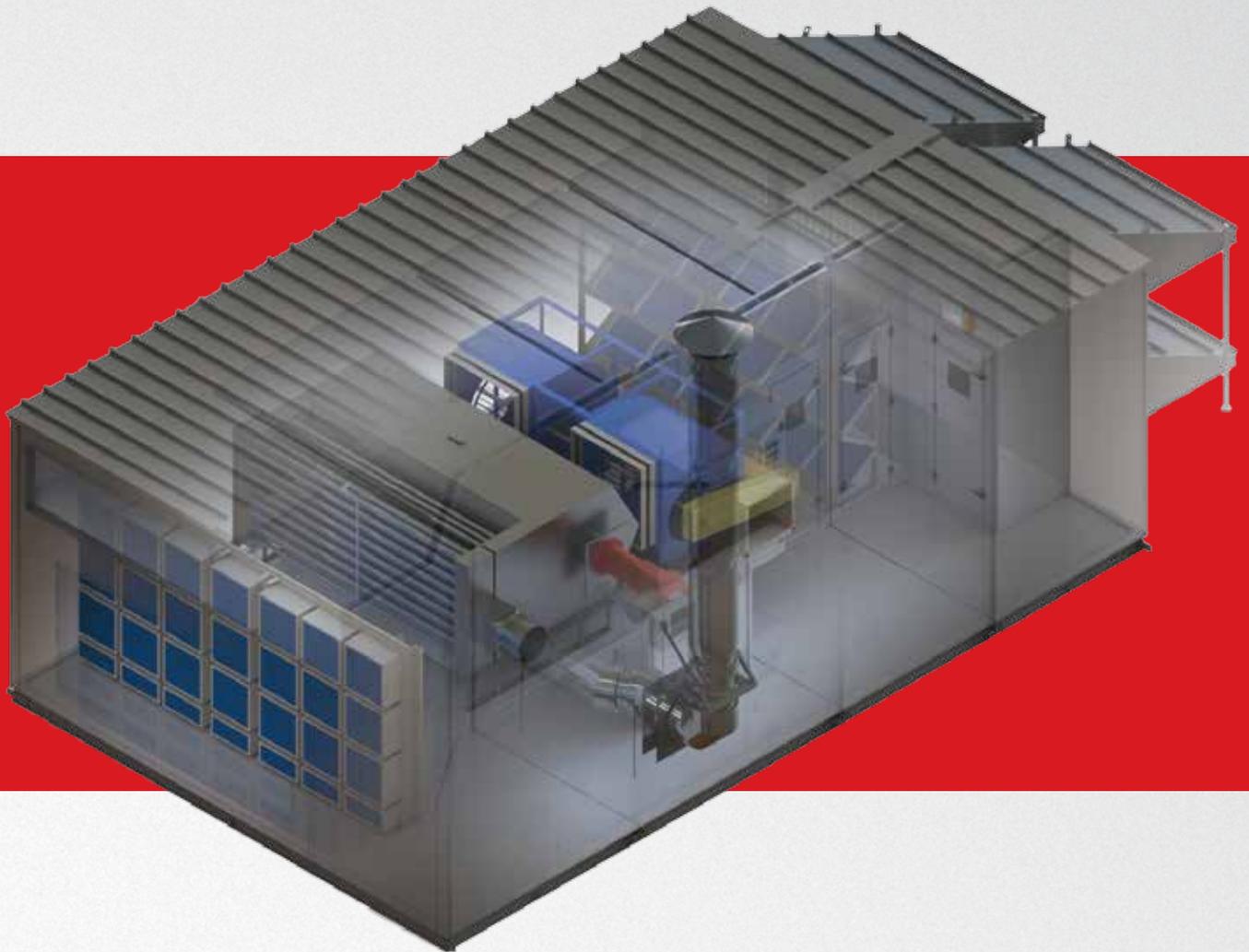


AHU RECOVERY



OPTIONS


BOUSQUET
Technologies



INDUSTRIAL AIR

BOUSQUET TECHNOLOGIES SPECIALIZES IN MANUFACTURING INDUSTRIAL AIR HANDLING UNITS. WITH OVER 60 YEARS' EXPERIENCE, WE CAN PROPOSE A SOLUTION FOR ALL YOUR NEEDS, WHETHER IT BE FOR COOLING, HEATING, FILTRATION, HEAT RECOVERY, OR SYSTEM CONTROLS.

THANKS TO OUR SOLID RELATIONSHIPS WITH WELL-ESTABLISHED SERVICE PROVIDERS AND COMPONENT SUPPLIERS, WE CAN OFFER YOU TOPNOTCH SOLUTIONS.



AHU FOR A MINE IN NORTHERN CANADA

THIS UNIT WAS DESIGNED TO MEET THE NEEDS OF A CLIENT OPERATING AN IRON MINE IN A NORTHERN CLIMATE. THE STEAM COILS FEATURE THREE CONTROL STAGES AND A REGULATION SYSTEM TO PREVENT DAMAGE DUE TO FREEZING. EACH COMPONENT WAS CAREFULLY SELECTED TO PERFORM IN THIS PARTICULAR ENVIRONMENT. OUR EXPERTS DESIGNED, INSTALLED, AND TESTED THIS UNIT'S AUTOMATION IN THE FACTORY.



Temperature sensors, smoke detector, and controls are integrated to meet the client's standards and requirements.



The 3 coils installed in series are controlled to prevent freezing at -60°C by modulating the capacity of the 3rd coil while the first two are controlled with on-off valves.



The touch screen integrated in the control box allows the operator to view the status of the unit.



DWDI blower with epoxy-coated aerodynamic blades and removable bearings to facilitate inspection and prolong operating life.

Removable stainless steel belt guard, and anticorrosion lubrication extensions and flexible stainless steel joints.



The motors and fans are mounted on a vibration-resistant base equipped with industrial, earthquake-resistant springs.

The handles on this unit are chrome-plated to resist corrosion.

The windows in the doors can be framed in aluminum or stainless steel and are double glazed to prevent condensation.

The floor is made of aluminum diamond plates.

AHU FOR ELECTRICAL ROOM IN A VERY CORROSIVE ENVIRONMENT

BOUSQUET TECHNOLOGIES AIR HANDLING UNITS CAN BE DESIGNED FOR MANY TYPES OF INDUSTRIAL APPLICATIONS. BELOW IS A COOLING AND FILTRATION UNIT FOR AN ELECTRICAL ROOM IN THE EXTREMELY CORROSIVE ENVIRONMENT OF A POTASH MINE. IT IS BUILT ENTIRELY WITHOUT ALUMINUM USING 316 STAINLESS STEEL AND STRUCTURAL STEEL THAT IS PAINTED ACCORDING TO A STRICT PAINT STANDARD REQUIRED FOR THIS TYPE OF ENVIRONMENT.



3 directional drip tray floor providing positive drainage for environments requiring frequent, intensive cleaning.

162267-M0440
13802
D72043-AIR HANDLING UNIT-UNIT
BOUSQUET TECHNOLOGIES
31526-110923
BC-1000
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Name plate in 316 stainless steel that is easy to read even in dusty environments.



Manual control panels with NEMA 4x lights and switches.



Floor drain with removable stainless steel plug to permit unit washing.



Marine light with sealed anti-corrosion wiring.



NEMA 4x light switches and 30A receptacle.



Filter pressure indicator and transmitter.



Individual grease nipples identified for each roller bearing.



External handle in reinforced corrosion-resistant plastic with 304 stainless steel inside handle.

AHU FOR HEAT RECOVERY IN A PAINT BOOTH

BOUSQUET MANUFACTURES HEAT RECOVERY UNITS TAILORED TO NUMEROUS HVAC APPLICATIONS SUCH AS RECOVERING HEAT FROM LOW TEMPERATURE PROCESSES OR EXHAUST AIR FROM ROOMS. WE USE PLATE, ROTARY, RUN AROUND LOOPS, OR HEAT PIPE HEAT EXCHANGERS, ALL OF WHICH CAN BE PROTECTED WITH A RUST-RESISTANT COATING OR EVEN MADE FROM STAINLESS STEEL.

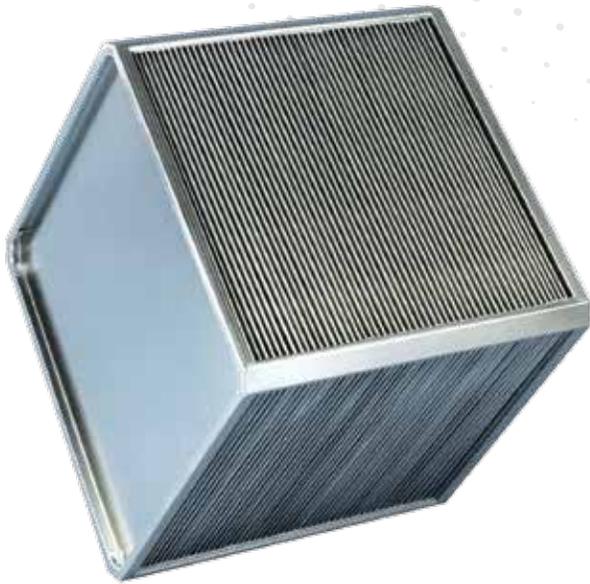


NEMA 4X stainless steel or NEMA 7 and 9 spark-proof damper motor enclosure.



Control box:

- ~ BACnet controller
- ~ Digital pressure gauge
- ~ Low voltage
- ~ High voltage
- ~ Temperature control
- ~ Freeze control
- ~ Heating element
- ~ VFD for the motor



Aluminum or stainless steel plate heat exchanger whose geometry can be tailored to specific uses. For corrosive environments, it can be coated with epoxy paint or constructed of stainless steel. Modules are available in 10 sizes and can be combined to provide capacities ranging from 500 to 60,000 CFM or more. Variable plate spacing provides unmatched flexibility in design.



SWSI aluminum blower with arrangement 9 fabricated to meet AMCA A or B spark resistance



The double-walled doors can vary in size to provide access to each section as needed.

- ~ Stainless steel hinges
- ~ Bulb type seals
- ~ Quick-action ventlock handles



Welded structure procedure is approved by the Canadian Welding Bureau. Doors are painted according to environmental requirements and to the client's specifications.



OTHER POSSIBILITIES



MUSHROOM HOOD TO PREVENT SNOW INFILTRATION.

MULTIPLE VENTILATORS FOR REDUNDANCY OR TO REDUCE THE LENGTH AND HEIGHT OF THE UNITS.



SERVICE VESTIBULE INCLUDING HEATING, VENTILATION, ELECTRICITY, LIGHTING, CONTROLS, PLUMBING, ETC.

EXPLOSION-RESISTANT CONTROL PANEL ASSEMBLED WITH MULTIPLE COMPONENTS FOR DEMANDING ENVIRONMENTS.



HEATING OPTIONS



Industrial drum and tube heat exchanger made with 316L, 304L, or 409HP stainless steel, depending on application.

Modulating pressurized gas burner with capacities of 400 to 6,500 MBH and very high modulation ratios of 20:1 to 40:1.



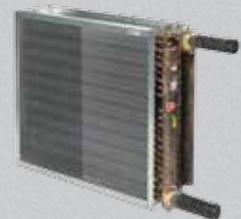
Pressurized oil burner with optional servomotor to modulate air and gas flows.

Open or tubular-type electric coil rated for up to 1,000 kW with modulated or multi-stage control.



Direct-fired burner with 100 to 12,000 MBH capacity, modulation ratios of 25:1 to 100:1, with the option of variable air volumes ranging from 25% to 100%

Glycol or steam heating coil for industrial applications. Can be protected with an anti-corrosion coating or constructed of stainless steel.





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