

Now In Production

August 8th 2005



Washington State Penitentiary, Walla Walla, WA

One(1) Custom New Rooftop Unit 115 ton with two Screw compressors.

Representative : PRO AIR INC. 13833 209th Avenue NE . Woodinville, WA 98072

Bruce Henderson, Susanne Henderson, Phone 425-881-8800

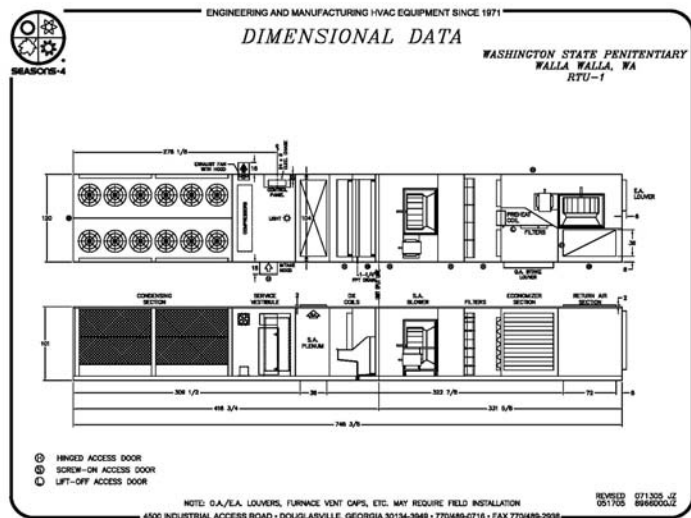
In the United States, technical and environmental requirements for designing HVAC systems that serve penitentiaries are almost the same as for schools or office buildings. Other parts of the world have significantly different regulations for justice facilities.

Minimum outside air for most areas is 15 cfm per person, supply air design is approximately 6 air change per hour, occupied temperature is 72 to 78 deg F, humidity range is from 30% to 50% RH and minimum filtration is from 8 to 11 MERV.

Access to mechanical equipment and controls must be kept secure from inmates (and some schools from students) at all times.

Mr. Bruce Henderson, Seasons-4's Washington State representative, had an interesting story about this job, and this is his story.

" In December 2003 I was contacted by the head of maintenance of a large maximum security prison. He was working on providing about 125 tons of cooling in a single zone VAV unit to an inmate activity center and could not get what consultants had designed into his budget. He was given our name by a Johnson Controls rep. who had done several successful projects



4500 Industrial Access Road Douglasville, GA 770-489-0716 P ; 770-489-2938 F ; www.seasons4.net

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“ with us through Johnson’s performance contracting division. The engineer had specified a custom slab mount outdoor top discharge AHU, with CW/HW coils, separate outside air path with HW pre-heat coil and a remote air cooled screw compressor chiller. This unit also required to meet a sound criteria, special filter section, factory test certified cabinet air leakage requirements and access only from one side.

I suggested we look at this with a Seasons-4 custom air cooled unit with screw compressors. Based on Seasons-4’s reputation for quality and my explanation of what we could do for him, he told us to get him a preliminary design and a cost. With that in hand and his budget, he told us to contact his consultant and work out any issues they might have, but to keep to our concept and pricing. After a couple of minor changes, the engineered seemed pleased. As this was a state job, it had to go to bid – Seasons-4, Mammoth, Haakon, Trane and Mcquay were other named Manufactures.

Because the job was specified on Seasons-4, other manufactures had a difficult time with the spec. and as they say..... the rest is history “.



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The unit is 748-3/8" long, 120" wide and 101" tall so it must be split for shipping.

Seasons-4 engineering has designed the unit so all the refrigeration piping will stay attached after the unit is split.

115 ton of cooling.

Airflow 34,130 CFM ; 8,800 CFM of outside air.

Walk in service vestibule with aluminum diamond tread plate floor.

Two Copeland Screw compressors.

Outside air pre-heat hot water coil.

Airflow monitor station.

Moisture eliminators at the outside air intake.

Airfoil SWSI supply and return blowers, top discharge and top return.

Premium efficiency motors.

Variable Frequency drives on supply and return blowers.

DDC temperature control system.



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