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Chiller in the sky

Press Release

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Trane Chillers establish world record

When work started for Burj Dubai, it was destined to be the tallest building of the world with a height of over 700 meters or equivalent to half a mile. It was also believed that this building would hold the world record in all four categories as recognised by the Council on Tall Buildings and Urban Habitat - in terms of highest structure, roof, antenna and occupied floor. In 2009 on its final leg of completion, its present height is already over 780 meters (*Source: Emaar Properties PJSC, developer of the tower*) and rising. With over 160 floors it has already surpassed all records of being the world tallest building and the world tallest free standing structure.

TRANE has also achieved a significant milestone and a unique distinction. At over 639 meters, on its 159th floor Trane has two Scroll CCUN Chillers (54 RT each). In addition, there are two Scroll CGAN Chillers (30 RT each) on the 155th floor. Both the CCUN & CGAN chillers are required to provide back-up cooling for the communications floors. As this is the highest building in the world and these chillers are located almost on the top floor, surely this must qualify them as the 'highest chillers in the world'? Not surprisingly, the project soon became known by the Dubai Trane Sales Office as the Chiller in the Sky.

Farook Wahab, lead Sales Engineer, explained that "The two Scroll CCUN Chillers are connected to two Frigabohn condensers which are equipped with high static fans (100 pascals). The extreme elevation meant that small corrections were required to both capacity and power. To blend with their surroundings, the units are finished with a factory applied stone grey paint (RAL 7030). Trane also provided an RTAD Air Cooled Screw chiller as a back-up for the main IT and communication rooms in the basement area. All the chillers were supplied with a Blygold coating on the condenser coils. A 5-year extended warranty is in force with an annual inspection.

Emaar Properties confirmed that Trane was selected based on proven performance and the capability to provide equipment that would operate within the limited available space. After sales service and spare parts commitment were also required for these critical applications.

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