

Clculo De Ductos Para Aire Acondicionado Pdf

Alfred Fontanals García

Mecanica de Fluidos 6/e Robert L. Mott, 2006 CONTENIDO: La naturaleza de los fluidos y el estudio de su mecánica - Viscosidad de los fluidos - Medición de la presión - Fuerzas debidas a fluidos estáticos - Flotabilidad y estabilidad - El flujo de los fluidos y la ecuación de bernoulli - Ecuación general de la energía - Número de reynolds, flujo laminar, flujo turbulento y pérdidas de energía debido a la fricción - Perfiles de velocidad para secciones circulares y flujo en secciones no circulares - Pérdidas menores - Sistemas de tuberías en serie - Sistemas de tuberías en paralelo - Selección y aplicación de bombas - Flujo en canales abiertos - Medición del flujo - Fuerzas debido a los flujos en movimiento - Arrastre y sustentación - Ventiladores, sopladores, compresores y el flujo de los gases - Flujo de aire en ductos.

Manual de Aire Acondicionado y Calefaccion Nestor Pedro Quadri, 2013-08-03 CAPITULO I: Nociones sobre calor y temperatura Escala de temperatura Cantidad de calor Relacion del calor con el trabajo mecanico Cambios de estado, Calor sensible y calor latente Transmision del calor Conduccion Conveccion Radiacion Ejemplo de transmision de calor Metodo de calculo para la determinacion de coeficientes de transmision de calor Ejemplos de calculos CAPITULO II: Composicion del aire Propiedades fisicas del aire atmosferico Temperatura de punto de rocío Contenido de calor del aire humedo (entalpia) Volumen especifico Abaco psicrometrico Lectura del abaco psicrometrico Transformaciones de la condicion del aire Calentamiento del aire Calentamiento y humectacion del aire Enfriamiento del aire Condicion del aire de mezcla Condicion del aire de impulsión. Factor de calor sensible Caudal de aire a circular Proceso de seleccion de los equipos de aire acondicionado CAPITULO III. Confort termico Variables individuales Variables ambientales Condiciones de diseno interior Condiciones de diseno exterior Estudio de las cargas de acondicionamiento Calculo de las cargas de verano Clasificacion de las cargas de verano Cargas externas del local acondicionado Ganancia de calor a traves de paredes y techos Ganancia de calor a traves de vidrios Ganancia de calor sensible en conductos y ventilador equipo Cargas internas del local acondicionado Ganancia de calor de las personas Disipacion de calor por artefactos electricos Ganancia de calor total del local Cargas del sistema de aire acondicionado Aire exterior Otras cargas del sistema Carga total de refrigeracion Variabilidad de las cargas de aire acondicionado Ejemplo de calculo de las cargas de verano Calculo a las 15 horas Ganancia de calor interna Caudal de aire a impulsar al local Ganancia de calor del equipo por el aire exterior Ganancia de calor sensible total, Ganancia total de calor, Calculo a diversas horas del dia Datos para la seleccion del equipo Representacion del proceso con el abaco

psicrometrico Cargas de calefaccion Perdida de calor total por transmision Perdida de calor sensible por el aire exterior Ejemplo de calculo de las cargas de invierno Desarrollo del calculo Cargas totales y zonales CAPITULO V: Proyecto de conductos Codos Calculo de conductos de aire acondicionado Planteo del calculo de conductos Diametro de conducto equivalente Diseno del ventilador Ejemplo de calculo de conductos Conductos distribucion a volumen variable Calculo de conductos por sistemas de volumen variable Diseno de las compuertas Verificacion de la caida de presion Diseno de la compuerta del by-pass Distribucion del aire en los locales Calculo de rejillas de alimentacion Ejemplo de calculo Calculo de difusores de aire Calculo de rejillas de retorno e interconexion Dimensionamiento de filtros Dimensionamiento de persianas fijas y regulables CAPITULO VII: Formulario de calculo para equipos individuales y Split Instrucciones para el uso del formulario Metodo de los cubajes Seleccion de equipos individuales Seleccion de equipos separados split o multisplit Seleccion de equipos compactos de expansion directa Preseleccion del equipo Verificacion Ejemplo de seleccion de un equipo roof-top Seleccion de equipo de expansion indirecta Fan coil individuales Unidad enfriadora de agua CAPITULO VIII: Calefaccion por agua caliente Balance termico Perdidas de calor por transmision Perdida de calor por infiltracion Ejemplo de balance termico para calefaccion Condiciones del calculo Desarrollo del calculo Sistemas de calefaccion por agua caliente Calculo de calderas Tipos de calderas Calderas humotubulares presurizadas Calderas murales Calderas de pie bajo mesada Calculo de chimeneas de calefaccion Calculo de dispositivos de calentamiento Radiadores de calefaccion Calculo de radiadores Ejemplos de calculo Pisos radiantes Calculo Diseno del serpentín Ejemplo de calculo de un serpentín Calefaccion por

Guía de cálculo y diseño de conductos para ventilación y climatización Josep Ma Nacenta Anmella, 2012-06-10 El transporte de aire, tanto para aplicaciones de climatización como de ventilación o extracción, se realiza por conductos, que al igual que una red de tuberías, es necesario dimensionar adecuadamente. Por otra parte, es también necesario saber utilizar el material más idóneo para cada aplicación e incluso saber construir a medida el propio conducto. Las recientes normativas como el Código Técnico de la Edificación (CTE'2006) y el Reglamento de instalaciones térmicas en los edificios (RITE'2007), son cada vez más exigentes en tres aspectos referidos a los conductos: - El caudal necesario del aire y su calidad - El aislamiento térmico de los conductos de aire y - El nivel de contaminación acústica Esta guía está destinada a obtener de forma rápida y fiable las dimensiones de los conductos de aire, tanto para ventilación como climatización, y presenta la novedad de prescindir de los habituales gráficos de líneas utilizados para este fin.

Sobre el aire acondicionado y el cálculo de conductos Francisco Cardona Oliver, Francisco Cardona Greus, 1990

Fundamentos de aire acondicionado y refrigeración Eduardo Hernández Goríbar, 1997 Excelente libro de texto que expone los conceptos fundamentales de ambas materias, combinando la teoría con sus aplicaciones prácticas, a fin de que el estudiante se familiarice con los métodos y procedimientos que utiliza el ingeniero en el ejercicio de su profesión. Contenido:

Principios básicos. Características de la mezcla vapor-aire. Tablas y cartas psicométricas. Procesos psicométricos. Humidificación y deshumidificación. Cantidades y características de aire suministrado. Condiciones de comodidad.- Calefacción. Ventiladores y ductos. Equipo principal de refrigeración. Tomado de:
<http://www.noriega.com.mx/shop/item.asp?itemid=6992> .

Manual de aire acondicionado y calefacción Néstor Pedro Quadri,1999

Manual básico sobre técnicas para el cálculo de instalaciones de calefacción, refrigeración y aire acondicionado ,1988

Manual de diseño de calefacción, ventilación y aire acondicionado Nils R. Grimm,Robert C. Rosaler,1996

Manual de calculo de aire acondicionado y calefaccion Nestor Pedro Quadri,1987

Manual de Aire Acondicionado y Ventilación Industrial 2 Jorge Serrano,2013-05-02

Manual de Aire Acondicionado y Ventilación Industrial 1 Jorge Serrano,2013-04-22 El Manual de Aire Acondicionado, en sus 4 tomos pretende orientar el conocimiento de la aplicación y uso del Aire Acondicionado para las instalaciones térmicas de verano e invierno. Los conceptos físicos elementales se consideran ya adquiridos en la formación técnica del lector. En cuanto a la descripción de los componentes y equipos, se describen conceptualmente, profundizando en aquellos de mayor uso. La información contenida es de suma actualidad, y el análisis de carga térmica de verano está aplicado en relación a las últimas normas y datos de cálculo modificadas por I.R.A.M. en 2007 y según Normas ASHRAE. La experiencia profesional y pedagógica me ha permitido realizar por primera vez un desarrollo de cálculo de la carga térmica verano-invierno para la Argentina. Hasta ahora los sistemas de cálculo a disposición de los técnicos y profesionales contemplaban la aplicación de datos climáticos y de radiación solar para el hemisferio Norte y trasladados al hemisferio Sur por similitud. En el presente trabajo se han tomado los valores reales de temperatura y radiación de 118 estaciones meteorológicas de la Argentina y 30 estaciones de otros países. Se ha consultado toda la bibliografía disponible, y las últimas novedades técnicas introducidas en instalaciones térmicas. Como será del conocimiento del lector, de todos los componentes de la obra arquitectónica, (estructuras, fundaciones, cerramientos, carpinterías, solados, revestimientos, etc.), las instalaciones en general constituyen el rubro donde en los últimos años, se han incorporado mayores innovaciones tecnológicas, desde el perfeccionamiento en la fabricación sistemática y robotizada, hasta el uso de ordenadores para el cálculo y secuencia controlada de funcionamiento.

Handbook of air conditioning system design Carrier,2009-01 Esta obra es una guía práctica para el proyecto de los sistemas de acondicionamiento de aire, preparada por una de las más importantes firmas mundiales en este campo y destinada al uso de ingenieros proyectistas y consultores. La información contenida en estas páginas es objetiva, útil, probada en la práctica y simplificada. Se dan instrucciones para cada fase del proceso del proyecto, desde el cálculo de carga hasta la selección del sistema, incluyendo todo el proceso de ingeniería. La disposición del índice y el formato adoptados permiten consultarla cómodamente y utilizarla como puente entre los libros de acondicionamiento de aire y los catálogos de

los fabricantes. Provee de datos prácticos a los ingenieros proyectistas especializados (incluso aquellos que poseen la mínima experiencia), capacitándolos para llegar rápidamente a las soluciones óptimas de los problemas que se les plantean. El libro presenta técnicas de diseño de sistemas que garantizan la calidad en sus aplicaciones y que reducen al mínimo el mantenimiento y las reparaciones subsiguientes. Este manual es fruto de más de 50 años de incesantes ensayos e ininterrumpidos perfeccionamientos que constituyen la experiencia acumulada por la organización CARRIER. Los datos y métodos han sido extensamente probados en servicio y son absolutamente fiables. La impresión a dos colores no solamente hace más atractiva la presentación sinó que también se ha utilizado funcionalmente para simplificar la extracción de datos contenido en los gráficos y tablas. Un avance importante para el proyecto es el concepto de 'almacenamiento de calor' en el cálculo de cargas de acondicionamiento de aire. Este material, completamente inédito, ofrece un método práctico, basado en las investigaciones de Carrier, que será de gran utilidad para los proyectistas. El libro presenta en primer lugar, datos y ejemplos que pueden servir de guía al ingeniero en el anteproyecto y cálculo de las cargas de refrigeración y calefacción, e incluye un capítulo de aplicación para pasar certeramente del cálculo a la selección del equipo. A continuación se presentan los datos para el diseño práctico y la instalación del equipo de acondicionamiento, conductos y componentes de la distribución del aire y sistemas normales de acondicionamiento. Luego, el libro explica la aplicación y la selección de refrigerantes, salmueras y aceites utilizados en los sistemas de acondicionamiento. Se exponen los fundamentos teóricos indispensables para que el ingeniero pueda solventar sin dificultad los problemas derivados del agua en los sistemas de acondicionamiento del aire, así como sus causas y efectos, incluyendo algunas de las prácticas más usuales para aminorar el efecto de los depósitos y la corrosión. Se facilitan datos prácticos para la selección y la aplicación de los equipos de climatización y de refrigeración en sistemas normales de acondicionamiento de aire y para la selección y aplicación del equipo auxiliar utilizado en estos sistemas. Es pues, una obra exhaustiva, solvente y guía segura para cada fase del proyecto de sistemas de acondicionamiento de aire. Basada en la experiencia de una de las firmas más avanzadas y de mayor prestigio en la materia, este manual ha sido editado para satisfacer en todos sus detalles al ingeniero que asume la responsabilidad del pro

Cálculo de conductos de aire Alfred Fontanals García, 1997

Sistemas de aire acondicionado y cálculo de cargas Gabriel Barceló Rico Avello, 1969

Manual de aire acondicionado y calefacción Nestor Pedro Quadri, 2005-09

Sistemas de aire acondicionado y cálculo de cargas Gabriel Barceló Rico-Avelló, Gabriel Barceló, 1969

Desarrollo de método gráfico para cálculo de caídas de presión en ductos Frida Violeta Guadalupe Pérez Rojas, 1981

Climatización Rafael Ruiz Mansilla, 2004

Residential Duct Systems Hank Rutkowski,2011

Análisis de métodos de cálculo de sistemas de calefacción y aire acondicionado Eduardo Núñez S,Universidad de Concepción. Facultad de Ingeniería Departamento de Ingeniería Mecánica,1994

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 ml beaker or container 1 12 collect approximately 150 ml of
 boiling water from the urn or kettle in a plastic measuring
 jug provided and immediately add to the beaker or container
 holding the four test tubes note the boiling water acts as a
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