



Products that perform...By people who care

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WeChat QR code



Mobile website QR code

Ver.: CAT_DMA_C-CU_02C
Replace : CAT_DMA_C-BR_01C



SINCE 1894...



DMA

Modular combined-type air handling unit

Air volume: 2000-132000m3/h

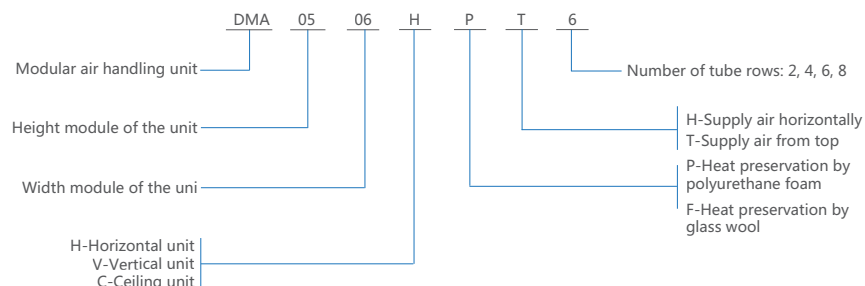
Central air-conditioning from DUNHAM-BUSH





Product Introduction

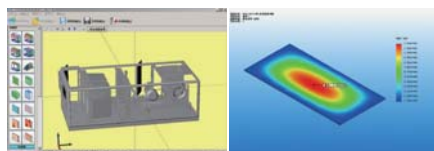
Introduction to the Unit Model



- DMA series combined-type air handling unit, on the basis of DUNHAM-BUSH's rich engineering and manufacturing experience, is a centralized air conditioning unit designed to realize temperature control and humidity control, purify air and improve air quality for various occasions, with such features as attractive appearance, compact structure, convenient installation and maintenance, good rigidity as a whole and low air leakage rate. With modular design, the unit is able to provide more than 30 functional sections such as filtering, cooling, heating, humidifying, reducing noise and heat recovery as per user's requirements, thus meeting demands for various occasions.
- This unit is widely used in such industrial sectors as power industry, chemical industry, machinery industry, electronics industry and pharmacy, in such public buildings as airport, subway, stadium, theater and cinema, museum, hotel and restaurant, office building and commercial real estate and in general comfortable air conditioning system.
- National standard GB/T 14294-2008 Combined-type Air Conditioning Unit shall apply to this product.

Professional Model Selection

- The model selecting software DMA-Selection with independent intellectual property rights is able to provide customers with various non-standard designs.
- The professional coil calculating software and analysis software for stress simulation ensure that this unit can meet performance requirements in various situations.



Modular Design

- High level of general utilization and standardization of parts, which takes 127mm as the Modular Value ("M" for short, and all M hereinafter refers to Modular Value), makes the unit dimension changing flexibly, thus meeting user's requirements as much as possible.
- The unit can be assembled and disassembled easily on site, which is especially applicable for transportation of large-scale unit and installation in occasions where space is limited; there are three installation ways, i.e. horizontal, vertical and ceiling suspended, to meet various installation requirements.

Calculating formulas for unit dimension:

Unit box of 1" thickness
 Height = Unit height module N1×127+50+100 (height of the base)
 Width = Unit width module N2×127+50
 Length = Unit length module N3×127+40

For example: Height module 05M—Unit height = 5×127+50+100 = 785
 Width module 06M—Unit width = 6×127+50 = 812
 Length module 04M—Unit length = 4×127+50 = 558

Unit box of 2" thickness
 Height = Unit height module N1×127+80+100 (height of the base)
 Width = Unit width module N2×127+80
 Length = Unit length module N3×127+80

For example: Height module 05M—Unit height = 5×127+80+100 = 815
 Width module 06M—Unit width = 6×127+80 = 842
 Length module 04M—Unit length = 4×127+80 = 588

Product Introduction

Diversified Structure

Good thermal insulation property

The unit box adopts double-layer "sandwich" structure of thickness of 25mm or 50mm, and outer plate of the box uses filmed color steel plate of high intensity, which is resistant to corrosion and scratches; inner plate of the box adopts high quality galvanized steel plate containing 45kg/m³ hard PU one-time closed cell foam material with heat conductivity factor K=0.0199W/m·°C, which is easily cleaned and sterilized.

Excellent gas tightness

The panels and frames are sealed by double layers with PE and PVC and internal connecting parts are sealed securely by means of sealing gasket with low air leakage rate and favorable insulation performance. Frames adopt aluminum alloy or shaped steel and all panels are flush jointed with nice appearance and excellent anti-corrosion performance.

Efficient heat transfer coil

The standard coil should consist of aluminum fins and copper tubes of 1/2 in. (12.7mm). The coil frames are made of thickened galvanized steel plate and the fins adopt corrugated shape without the disadvantage of accumulating dust as fins of shutter type. The unique air bleeding and discharge pipe design of the coil ensures that the coil can release gas at the highest point and discharge water at the lowest point so as to maintain the coil in its best heat transferring condition and to protect the coil from frost crack when shutting down in low temperature environment. The maximum operating pressure of standard coil should not exceed 1.6MPa.

Dry water pan

Every functional section required to discharge condensation water or water is equipped with a specially designed "dry water pan", eliminating the hidden dangers of poorly drainage or water accumulation inside the unit.

Humidifier

Common used humidifier are as follows:
 Electrode humidifier: this type of humidifier is able to generate clean vapor directly, controlled by microcomputer, adjusted by proportion or switch and applicable for occasions with manufacturability or of extreme comfort.
 Dry steam humidifier: this humidifier is able to humidify isothermally and is made of stainless steel with such features as good corrosion resistance, small size which makes it easy to install, clean vapor and high efficiency of humidifying; two types of electric and manual can be selected.
 Wet film humidifier: this humidifier could absorb water by means of wet film materials where the water in wet film will evaporate when the airflow goes through, thus playing the humidifying role. This humidifier may adopt direct draining water or circulating water.
 High pressure atomizing humidifier: the water will be pressurized by the booster water pump of this humidifier and be atomized into droplets, which will humidify the air by vaporization.

Electric heating

Such electrical heating elements with integrated frameworks are installed in the electric heating section as electrical heating wire and spiral radiating fins installed inside and outside the stainless steel pipes respectively, rendering the highest heat transfer efficiency of these elements. Wiring can be conducted by steps as per customer's demands to satisfy the control requirements in different heating power.
 Note: In case of control system made by customer is adopted, make sure that such items as the interlock between electric heating and fan, air supply/shortage protection, high-temperature protection control of electric heating section or alarms are equipped in the system. The control system can be supplied by DUNHAM-BUSH.

Multistage filtration

Filters as follows are installed in the air handling unit:

- 1) Plate filter (G3~G4, F5~F6)
- 2) Primary efficiency bag filter (G3~G4)
- 3) Medium efficiency bag filter (F5~F8)
- 4) Sub-high efficiency filter (F9, H10~H13)

Frame of the plate filter with patent technology adopts washable and dismountable aluminum alloy frame and the non-woven filter material can be replaced conveniently (non-woven filter material may be purchased by customer himself or supplied by DUNHAM-BUSH).

Electronic dedusting

Principle of the electronic dedusting is that the suspended particles in the air are positively charged by high-voltage electrostatic and absorbed by the dust collecting plate to achieve the purpose of efficient dedusting. At the same time, the air will generate plasma under high voltage to damage the cell nuclei of such microorganisms in the air as bacteria, virus or dust mite, thus preventing the reproduction and spread of bacteria and virus through central air conditioning system and putting cross infection.

Activated carbon filtration

Chemical filter is able to eliminate such chemical pollutants in the air as peculiar smell, ammonia, sulfur dioxide and VOCs etc.

Purification by photocatalyst

Purification by photocatalyst refers to that such hazardous substances which have bad effect on human health as methanol, benzene series, VOC, ammonia, sulfur dioxide, carbon monoxide and nitrogen oxides and other substances are decomposed into carbon dioxide and water under the effect of photocatalysis, thus purifying the air.

Ozone generator

The ozone generator will generate ozone in the light of corona discharge principle of air and the ozone will, through its strong oxidation, oxidize the enzymes generated inside the bacteria or react directly with the bacteria and virus to damage their cell structures, thus purifying the air.



DB History



Dunham-Bush Group

In 1894, Dunham-bush company was established in Hartford of Connecticut, US. After more than 120 years of development, products and services of Dunham-bush have covered manufacturing of HVAC, industrial refrigerating and fluid cooling device, etc. and integrated control field of corresponding product systems. Meanwhile, its development research, manufacturing and sales service network also has spread over 100 countries and regions in North America, Europe, the Middle East and Asia-Pacific, etc.

Up to now, Dunham-bush has become one of the largest HVAC refrigeration equipment



1894

Established in Hartford of Connecticut, US and specialized in manufacturing of HVAC equipment.

1904

The first set of air-compression system was get offline formally.

1906

The second company was established.

1924

The first piston compressor was developed successfully.

1930

The first air-cooled AC was get offline.

1935

A plant was set up in UK to produce heating products.

1948

Dunham-bush was headquartered at Hartford, US.

1956

Committed to R&D and manufacturing of high-end products.

1965

First centrifugal chiller came onto the market.

1967

Screw compressor for refrigeration/cooling was developed successfully and patented.

1995

Dunham-bush Group set up Dunham-Bush Yantai Co., Ltd. jointly with Yantai Moon Group.

1996

Hartford Compressor Industrial Co., Ltd. was established in US.

1998

Dunham-bush established factory in Malaysia.

2008

Dunham-bush released new logo synchronously around the world.

2013

Compressor R&D Center in UK was put into service.

Now

Dunham-bush people are creating new brilliance.



Dunham-Bush China

In 1995, Dunham-bush China sets up R&D center and manufacturing plant in Yantai and its product line includes compressor, large-scale water chilling unit, heat pump unit, air-side heat-exchange product, DC inverter multi-connected unit, small-scale commercial air conditioning unit, LT refrigerating unit and cooling tower, etc.; its fast and quick pre-scale technical support and after-sale service network covers 46 major cities and regions in China. Adhering to technical accumulation and manufacturing experiences over one hundred years, Dunham-bush China will be committed to continuous technical innovation and perfection unceasingly, in order to provide Chinese customers with the most stable and reliable air-conditioning and refrigerating equipment, as well as environmentally friendly computer



Product Introduction

Fan section

One or more centrifugal fans may be selected in accordance with the requirements of air volume and pressure. Blades of the fan may adopt forward inclined, backward inclined or wing type and the volute and reinforcing parts are made of galvanized steel. The fans have been through dynamic and static balance test before leaving factory and transmission of the fans is achieved by multiple anti-static V-belts.

Motor of the fan adopts three-phase asynchronous motor of complete close structure and power supply of the motor is 380V/50HZ, IP grade IP55 and insulation grade F. The motor is installed on a sliding track connected with a rigid structure with an adjustable seat. The fan and motor are fixed on the same base with a shock mount, and the spring damper is equipped with muffler pad and regulating bolts.

Air outlet of the fan connects with the air supply outlet of the unit by means of a flexible duct, which further reduces the vibration of the unit. Access door in the fan sector makes it possible to inspect the belts, belt wheels and other internal components and parts.

Note: As per customer's requirements, fan of non-volute, direct connection or with single inlet may be selected; motor of double-speed, three-speed, variable frequency or high efficiency are optional.

Access door

The access door is divided into hinge type and quick-release type, and can be easily open by rotating the door lock. Sealing strips installed on the door frame secure the air tightness of the box. There are two types of door, i.e. inward opening and outward opening in accordance with the user's requirements and positive/negative pressure.

Intelligent Control

Automatic control items may be added to the unit according to user's requirements to achieve such control, protection and communication functions as air supply/return temperature control, humidity control, anti-freezing control, filter blocking control, interlock control between fresh air valve and fan, energy-saving control of indoor and outdoor temperature difference compensation and building automation and control. On the basis of actual condition of the unit, automatic control is divided into three categories: constant frequency cabinet, variable frequency cabinet and PLC/DDC control.

Start and stop cabinet control has following functions:

1. Function of local emergency stop, start, stop, run and fault;
2. Local remote function: the cabinet can receive building information to start or stop in remote mode (by passive or active dry contact);
3. Remote run function and fault indication function (by passive or active dry contact);
4. Air valve interlock function;
5. Humidifier interlock function;
6. Alarm function for dirty or blocked filter.

Variable frequency cabinet control has following functions:

1. Function of local emergency stop, start, stop, run and fault and frequency regulating;
2. Local remote function: the cabinet can receive building information to start or stop in remote mode (by passive or active dry contact);
3. Remote run function and fault indication function (by passive or active dry contact);
4. Air valve interlock function;
5. Humidifier interlock function;
6. Alarm function for dirty or blocked filter.

PLC/DDC

1. 1. Function of local emergency stop, start, stop, run and fault and frequency regulating;
2. Local remote function: the cabinet can receive building information to start or stop in remote mode (by passive or active dry contact);
3. Remote run function and fault indication function (by passive or active dry contact);
4. Various alarm functions;
5. Air valve interlock function;
6. Air volume regulating function;
7. Air pressure regulating function;
8. Cooling capacity regulating function;
9. Heating capacity regulating function;
10. Dehumidification capacity regulating function;
11. Humidification capacity regulating function;
12. Energy saving regulating function;
13. Operating status inquiry function;
14. Alarm status and failure records inquiry function;
15. Parameters setting function;
16. Sensor calibration function;
17. Real-time clock function;
18. Password protection function;
19. Auto starting and shutdown function;
20. Building communication function.



Quick Model Selection



Quick model selection table

Unit model	Air volume of unit (m³/h)				
	Face velocity of air (m/s)				
	2.0	2.5	2.75	3.0	3.5
0506	1949	2436	2679	2923	3410
0508	2852	3564	3921	4277	4990
0608	3660	4574	5032	5489	6404
0610	4808	6010	6611	7212	8414
0710	5877	7346	8081	8815	10285
0810	6946	8683	9551	10419	12156
0812	8610	10762	11838	12914	15066
0814	10273	12841	14125	15409	17977
1012	11136	13920	15312	16704	19488
1212	13758	17197	18916	20636	24075
1214	16442	20553	22608	24663	28774
1216	19127	23909	26300	28691	33472
1218	21812	27265	29992	32718	38171
1220	24497	30621	33683	36745	42869
1224	29867	37333	41067	44800	52267
1622	37359	46699	51369	56038	65378
1624	41074	51342	56476	61610	71878
1824	46728	58410	64251	70092	81774
2024	52391	65489	72038	78587	91684
2226	63289	79111	87022	94934	110756
2428	75209	94011	103412	112813	131615

Note: Unit model should be determined according to the "Unit model selection method".



Quick Model Selection

Functional sections and their dimensions

Length Module of functional sections

Serial No.	Sections (code)	Sketch	Length module (M)	Remarks
1	Mixing section (SA)		0506-1212.....4M 1214-1224.....5M 1622-2024.....7M 2226-2428.....8M	Can be equipped only with air duct connecting flange without air valve.
2	Mixing filter section (SB)		0506-1212.....6M 1214-1224.....7M 1622-2024.....9M 2226-2428.....10M	Can be equipped only with air duct connecting flange without air valve.
3	Primary efficiency plate filter section (SC)		2M	This section shall be combined with other functional sections into the integrated transport section.
4	Bag filter section (SD)		4M	A blank section is suggested before this section if it used for purifying the air conditioning.
5	Primary and medium efficiency filter section (SE)		5M	A blank section is suggested before this section if it used for purifying the air conditioning.
6	Cooling coil section (SF)		5M 6M 7M	A wet film humidifier less than 100mm of thickness or 2 rows of hot water/vapor coils may be added behind the Row 4 or 6 coil. A wet film humidifier less than 150mm of thickness or 2 rows of hot water/vapor coils may be added behind coils which is equal to or less than Row 8. A wet film humidifier less than 200mm of thickness may still be added to Row 8 coil after adding 2 rows of hot water/vapor coil.
7	Hot water coil section (SG)		3M	(1) This section shall be combined with other functional sections into the integrated transport section. (2) If put the hot water coil inside the cooling coil section, the hot water coil will not occupy another length of 3M. (3) Hot water coil should be more than 4 rows.
8	Vapor coil section (SH)		3M	(1) This section shall be combined with other functional sections into the integrated transport section. (2) If install the hot water coil inside the cooling coil section, the hot water coil will not occupy another length of 3M. (3) Hot water coil should be more than 2 rows.
9	Electric heating section (SI)		3M-5M	Length of this section is determined by detailed heating power.
10	Wet film humidifying section (SJ)		3M (thickness of wet film less than 100mm)	If installed inside the cooling coil section, this section will not occupy any length.

Quick Model Selection



11	Dry vapor humidifying section (SK)		5M 3M	Behind this section is a blank section or the fan section.
12	High pressure atomizing humidifying section (SL)		5M 3M	Length of this section is 3M if this section is adjacent to the backward position of cooling coil section and shares the same set of water baffle with the cooling coil.
13	Fan section (SM)		Length of this section is determined by detailed heating power.	
14	Diffusion section (SN)		0506-1212.....4M 1214-1224.....5M 1622-2024.....7M 2226-2428.....8M	If other functional sections are set at air supply backward position of the fan section, a diffuser plate should be installed on the outlet of fan section.
15	Intermediate section (SO)		4M-8M	Used for daily maintenance. Space of this section is selectable as per user's requirements.
16	Noise reduction section (SP)		5M 10M	Noise reduction by 10~15dB(A) Noise reduction by 15~20dB(A)
17	Air exhaust section (SQ)		0506-1212.....8M 1214-1224.....10M 1622-2024.....14M 2226-2428.....16M	
18	Secondary air return section (SR)		0506-1212.....4M 1214-1224.....5M 1622-2024.....7M 2226-2428.....8M	Can be equipped only with air duct connecting flange without air valve.
19	Air intake section Air outlet section (ST)		0506-1212.....4M 1214-1224.....5M 1622-2024.....7M 2226-2428.....8M 3M	(1) Air inlet and outlet should be set on the top direction; (2) This section can be equipped only with air duct connecting flange without air valve. (1) Air inlet and outlet should be set on the top direction; (2) This section can be equipped only with air duct connecting flange without air valve.
20	Runner heat recovery section (SU)		4M or 5M	Length of this section is 5M if diameter of the runner is more than 2000mm.
21	Cross-flow heat recovery section (SV)			Length of this section is determined by the selected model of heat recovery equipment.



Quick Model Selection

Unit model selecting methods

Determination of unit model

1. Determine the unit model by taking the unit air volume as the major parameter;
2. The max. air velocity of cooling coil with water baffle shall be 3.7m/s;
3. The heating coil has no water baffle and max. face air velocity of the coil is 4m/s;
4. The allowable max. face air velocity for the filter shall be 3.5m/s;
5. The allowable max. face air velocity for wet film humidifier shall not exceed 3.5m/s;
6. Maximum model of the vertical unit is DMA1824 (i.e. both the upper and lower units are DMA1824);
7. Width of the vertical unit upper part is identical with the unit width and its height is changeable according to different functional sections; width of the horizontal unit side part is the same as the unit width and its height is changeable according to different functional sections;
8. The face velocity of air going through the runner is between 2.0 to 5.0 m/s and the max. face velocity can be 5.5m/s, if permissible.

Determination of number of rows for cooling and heating coils

1. Determine by means of referring to parameter table according to cooling or heating volume.
2. The cooling volume of unit with non-standard air volume may be calculated by model selection software.

Determination of other sections

Determine other sections as per user's requirements.

Unit usage

Check if each valve of waterway and air passage of the unit is in its normal operating status prior to running the unit every time.
Inspect and regulate the connection, operation and transmission conditions for fan, motor and other moving parts periodically.

Rinse the primary efficiency filter with clean water or detergent according to the degree of dirt, frequency of which should be determined by the using environment.
Replace the medium efficiency filter when the resistance reaching twice than the initial resistance.

If the unit is out of operation in winter, the water inside the coil shall be drained; if the unit shuts down temporarily after operating in winter, the water inside coil should be kept flowing and fresh air valve should be shut down to prevent coil freezing. Drain the water inside coil if shut down the unit for a long time.

The cool and hot water should both adopt clean softened water. Remove the water incrustation inside the coil by chemical method and the dirt on the fin surface by compressed air or water every two years.

Determination of system total pressure

The system total pressure refers to the windage resistance of each functional section identified according to the selected section plus the excess pressure outside the fan as user required, which is also called fan total pressure.
Fan total pressure = excess pressure outside fan + windage resistance of each section or part.

Model selection of fan

The fan can be selected by means of fan model selecting program or fan curve in accordance with the known air volume and fan total pressure, and the rated power of motor can be determined by adding 5-20% of above values. (Or refer directly to the parameter table for fan model selection)
Several fan specifications may be optional for the same air volume and air pressure, and if the fan section dimension is permissible, select the fan with large size as much as possible to achieve high efficiency and low noise of the fan and low power of the supporting motor.

Model selection of heat recovery equipment

1. Select heat recovery parts in reasonable face velocity of air according to the user's new air return volume;
2. Vertical and horizontal structure unit can be selected according to the user's installation space;
3. The cross-flow heat recovery equipment has simple structure and safe operating condition, but it has certain limitations when used under large air volume.

Section combination

Based on their function requirements and the principle of most compact and least cost, users should combine sections according to the above combining rules reasonably and fill out the codes of the integrated transport sections in corresponding order as required.

Make sure that the steam valve on the vapor coil is closed before shutting down the fan.

Make sure that the steam valve on the vapor humidifier is closed before shutting down the fan.

The fan must be started first when starting the unit, and after three minutes (adjustable) start the coil water supply (steam) valve or electric heating device or humidifier; shut down the coil water supply (steam) valve or electric heating device or humidifier first when shutting down the unit and after three minutes (adjustable), shut down the fan. High temperature protection of electric heating device should be connected to its control circuit in series.

The unit is not allowable to be installed at place with altitude more than 1000m, and if exceeds, please give notice during ordering.

Air supply temperature of the unit should not exceed 70°C, and if exceeds, please give notice during ordering so that high temperature motor and other parts can be adopted.

Quick Model Selection

Description of functional section model selection

1. The minimize length module of a section which can constitute a transport section by itself should be 4M, and sections less than 4M should form a transport section with other functional section.
2. With view to the limits of transport dimension, the length, width and height of a transport section is as follows:
Height must be equal to or less than 20M and length and width is allowable to be equal to or more than 16M-28M only in one direction, that is to say that when the length is more than or equal to 16M, the width must be less than or equal to 16M. The unit exceeds the above dimension limits should be disassembled for transport. In case of the height is 20M and air valves or inlet flanges are installed on the unit top, these parts should be disassembled for transport; similarly, if one of the width and length is more than 16M and the other is 16M where horizontal air valves or inlet flanges are installed, these parts should be disassembled for transport as well.
3. The primary efficiency plate filter section must be combined with other sections into a transport section.
4. Installation of primary efficiency plate filter, primary efficiency bag filter and medium efficiency bag filter may adopt side pulling method or front installation method.
If front installation is adopted, such space which is used for maintenance by the operators as mixing section, intermediate section, diffuser section or air intake section should be left in front of the filter. If there is no maintenance space, it's better to install the filter by side pulling method. It is suggested that the medium efficiency filter used for purify the air conditioner should be installed by front method.

5. In case of that the bag filter section, coil section or noise deduction section is installed on the air supply backward position of the fan, a diffuser section should be installed between them and the fan section.
6. The pre-heating coil section must be combined with other sections into a transport section.
7. Wet film humidifier can be installed together with the cooling coil section and the length of section remains the same.
8. High pressure atomizing humidifier section together with the cooling coil section can constitute a transport section and shares the same water baffle.
9. The air intake side, not the air supply side of the fan section can form a transport section with other sections.
10. The outlet fresh air section must be disassembled into two separate sections during transport.
11. Determination rules for the left and right direction of the unit coil inlet/outlet, access door and motor and other parts:
Determine the directions of water inlet/outlet tube and access door along with the air flow going direction, i.e. hand on the right is the right hand and on the left left hand.
12. Setting rules for left and right direction of standard unit parts:
a) the coil water inlet/outlet has the same direction with the condensation water pan;
b) the direction of humidifier water inlet and air inlet and the installation direction of control box are the same with the coil water inlet/outlet.
c) in case of fan and motor are installed horizontally, the motor is installed on the side of coil water inlet/outlet.
13. Max. air volume handled by the runner-type heat recovery unit.

Unit model	Max. air volume handled by vertical runner-type heat recovery unit (m³/h)				Max. air volume handled by horizontal runner-type heat recovery unit (m³/h)			
	2.0m/s	3.0m/s	4.0m/s	5.0m/s	2.0m/s	3.0m/s	4.0m/s	5.0m/s
0506	695	1043	1390	1738				
0508	1788	2683	3577	4471				
0608	1788	2683	3577	4471	695	1043	1390	1738
0610	2801	4201	5602	7002	695	1043	1390	1738
0710	2801	4201	5602	7002	1003	1505	2006	2508
0810	2801	4201	5602	7002	1788	2683	3577	4471
0812	4040	6060	8080	10100	1788	2683	3577	4471
0814	6326	9490	12653	15816	1788	2683	3577	4471
1012	4040	6060	8080	10100	2801	4201	5602	7002
1212	4040	6060	8080	10100	4040	6060	8080	10100
1214	6326	9490	12653	15816	4040	6060	8080	10100
1216	9126	13689	18252	22815	4040	6060	8080	10100
1218	11278	16918	22557	28196	4040	6060	8080	10100
1220	13659	20489	27318	34148	4040	6060	8080	10100
1224	19108	28663	38217	47771	4040	6060	8080	10100
1622	16270	24404	32538	40673	9126	13689	18252	22815
1624	19108	28663	38217	47771	9126	13689	18252	22815
1824	19108	28663	38217	47771	11278	16918	22557	28196
2024					13659	20489	27318	34148
2226					16270	24404	32538	40673
2428					19108	28663	38217	47771

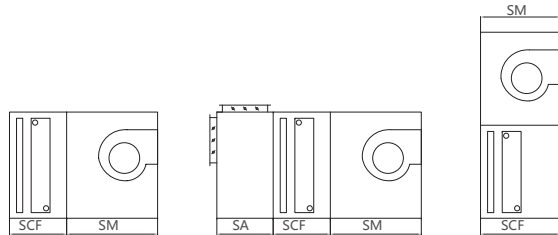


Quick Model Selection

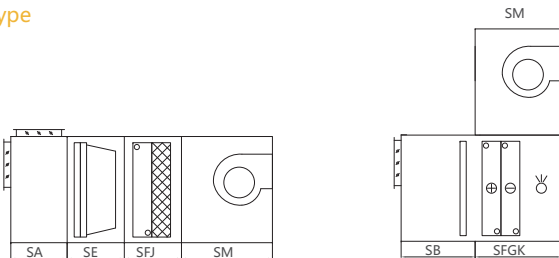


Examples of typical functional section model selection

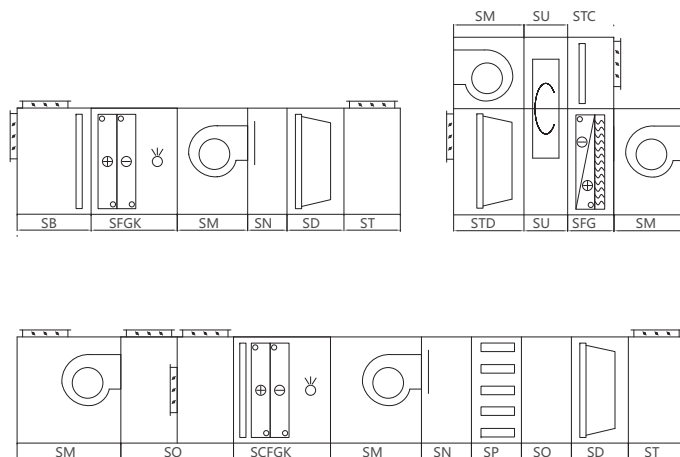
⚙ Economic type



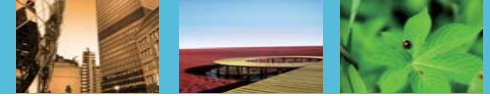
⚙ Comfortable type



⚙ Technical type



Detailed Parameter



Unit cooling and heating parameter table

Unit model	Air volume (m ³ /h)	Air conditioning working condition cooling											
		4 R				6 R				8 R			
		Total cooling capacity (kW)	Sensible cooling capacity (kW)	Water flow (l/s)	Water resistance (kPa)	Total cooling capacity (kW)	Sensible cooling capacity (kW)	Water flow (l/s)	Water resistance (kPa)	Total cooling capacity (kW)	Sensible cooling capacity (kW)	Water flow (l/s)	Water resistance (kPa)
0506	2436	11.5	9.5	0.55	2.4	15.9	11.7	0.76	4.5	17.8	12.6	0.86	3.3
0508	3564	19.1	14.8	0.92	7.2	25.4	18.0	1.22	12.6	28.4	19.4	1.36	9.0
0608	4574	24.3	19.0	1.16	6.9	32.6	23.1	1.56	12.6	36.4	24.9	1.75	9.6
0610	6010	34.4	25.8	1.65	14.7	45.0	31.2	2.16	25.7	50.1	33.7	2.40	19.2
0710	7346	42.5	31.8	2.04	16.5	55.0	38.1	2.64	26.0	61.3	41.1	2.94	19.8
0810	8683	49.9	37.4	2.39	15.9	64.9	45.0	3.11	26.3	72.4	48.6	3.47	20.7
0812	10762	64.7	47.6	3.10	28.1	83.0	56.8	3.98	46.1	92.3	61.5	4.43	35.6
0814	12841	79.7	57.8	3.82	45.2	101.2	68.8	4.85	72.7	112.3	74.3	5.38	55.3
1012	13920	83.3	61.4	3.99	28.4	106.8	73.3	5.12	45.2	118.9	79.3	5.70	36.2
1212	17197	102.3	75.6	4.91	27.8	131.9	90.4	6.32	46.1	146.9	98.0	7.04	37.7
1214	20553	126.5	92.0	6.06	44.6	161.2	109.7	7.73	72.7	179.2	118.6	8.58	58.6
1216	23909	151.9	109.2	7.28	67.6	185.3	126.8	8.88	56.5	206.5	137.3	9.90	48.5
1218	27265	164.7	120.9	7.89	38.0	202.3	140.7	9.70	35.9	237.9	157.3	11.40	65.8
1220	30621	188.9	137.4	9.05	51.5	231.4	159.8	11.09	47.9	258.7	173.3	12.40	36.8
1224	37333	208.2	158.8	9.98	20.4	290.0	198.2	13.89	77.8	323.1	214.3	15.48	59.2
1622	46699	251.3	194.7	12.10	14.1	355.6	244.9	17.04	56.2	397.5	265.1	19.05	43.1
1624	51342	283.6	216.8	13.59	18.0	395.8	271.2	18.96	71.2	441.8	293.5	21.16	54.4
1824	58410	323.2	246.8	15.49	19.2	450.8	308.6	21.60	74.5	503.0	334.0	24.10	56.8
2024	65489	362.6	276.8	17.37	20.1	505.8	346.1	24.23	76.9	564.3	375.1	27.04	58.9
2226	79111	448.1	338.8	21.47	25.8	582.0	406.4	23.23	63.1 *	688.3	455.5	32.98	74.2
2428	94011	542.3	406.1	25.98	32.3	699.5	485.8	27.93	78.4 *	784.9	527.1	31.33	60.4 *

Note: Air conditioning working condition: air intake; dry bulb temperature: 27°C; wet bulb temperature: 19.5°C; inlet water temperature: 7°C; water temperature increase: 5°C. (* refers to the controlled water resistance and the water temperature rises over 5°C)



Detailed Parameter

Fresh air working condition cooling													
Unit model	Air volume (m ³ /h)	4 R				6 R				8 R			
		Total cooling capacity (kW)	Sensible cooling capacity (kW)	Water flow (l/s)	Water resistance (kPa)	Total cooling capacity (kW)	Sensible cooling capacity (kW)	Water flow (l/s)	Water resistance (kPa)	Total cooling capacity (kW)	Sensible cooling capacity (kW)	Water flow (l/s)	Water resistance (kPa)
0506	2436	30.7	13.5	1.47	13.5	40.0	17.1	1.92	22.5	44.0	18.7	2.20	16.2
0508	3564	48.8	21.1	2.35	36.2	61.6	26.1	2.95	57.4	67.4	28.5	3.24	40.4
0608	4574	62.3	26.9	2.99	35.0	79.0	33.5	3.79	58.0	86.6	36.6	4.15	42.8
0610	6010	85.6	36.8	4.11	70.3	103.4	43.9	4.96	54.7	113.8	48.2	5.46	44.6
0710	7346	98.0	42.5	4.70	29.0	126.4	53.6	6.06	58.3	139.2	59.0	6.67	49.1
0810	8683	115.8	50.2	5.55	31.1	149.4	63.4	7.17	61.6	164.7	69.7	7.89	52.9
0812	10762	149.4	64.4	7.16	53.5	181.3	77.2	8.69	49.2	200.0	84.8	9.58	37.4
0814	12841	160.1	70.5	7.67	20.7	221.1	93.8	10.60	75.1	243.2	102.9	11.65	56.2
1012	13920	192.0	82.9	9.20	56.5	233.3	99.2	11.18	54.4	257.6	109.1	12.35	41.3
1212	17197	237.2	102.2	11.37	60.1	288.2	122.6	13.81	59.2	318.3	134.8	15.25	44.9
1214	20553	254.3	112.1	12.19	25.8	330.1	142.1	15.82	37.1	388.0	164.2	18.59	67.3
1216	23909	308.2	134.5	14.77	37.7	391.7	168.3	18.77	51.5	430.9	183.7	20.64	46.4
1218	27265	362.3	157.2	17.36	51.8	454.8	195.0	21.79	69.1	498.1	211.9	23.87	60.1
1220	30621	416.4	180.0	19.95	68.8	517.9	221.2	24.81	89.7	563.7	240.2	27.01	75.1
1224	37333	497.7	216.1	19.87	71.2*	598.3	256.5	22.24	68.2*	672.7	286.6	26.86	84.6*
1622	46699	640.1	276.0	30.67	75.7	742.6	320.1	35.58	75.7	845.6	360.1	40.51	75.7
1624	51342	677.1	294.1	27.03	61.9*	788.0	340.0	31.46	61.6*	902.4	384.3	36.02	61.9*
1824	58410	771.5	335.4	30.80	65.8*	895.2	387.4	35.74	64.6*	1025.6	437.4	40.94	65.8*
2024	65489	866.1	376.1	34.57	69.1*	1005.3	434.3	40.13	67.0*	1151.3	490.9	45.96	69.1*
2226	79111	1063.7	460.9	42.46	88.5*	1230.1	531.4	49.11	86.1 *	1401.4	597.1	55.94	88.5*
2428	94011	1217.0	530.6	41.64	75.4*	1470.6	634.4	54.43	73.0*	1666.1	710.3	59.57	75.4 *

Note:

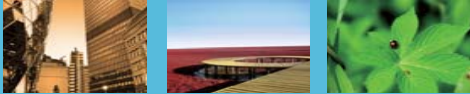
1. Fresh air working condition: air intake; dry bulb temperature: 35°C; wet bulb temperature: 28°C; inlet water temperature: 7°C; water temperature increase: 5°C. (* refers to the controlled water resistance and the water temperature rises over 5°C)
2. In fresh air working condition, DMA1214~DMA2428 model units may be manufactured into two coils of 2R+4R and 4R+4R according to the requirements of water resistance and flow velocity, if the user needs 6R or 8R coil.
3. 2R+4R coil and 4R+4R coil are two independent coils, which are distributed in parallel along with the air supply direction. If the 6R coil is used, air supply will go through from the 2R coil to the 4R coil. The former coil's outlet air temperature parameter is at the same time the latter coil's inlet air temperature parameter.

Detailed Parameter



Air conditioning working condition heating							
Unit model	Air volume (m ³ /h)	2 R			4 R		
		Quantity of heat (kW)	Water flow (l/s)	Water resistance (kPa)	Quantity of heat (kW)	Water flow (l/s)	Water resistance (kPa)
0506	2436	15.0	0.37	1.2	24.5	0.60	2.1
0508	3564	23.4	0.57	3.3	37.2	0.91	5.4
0608	4574	30.1	0.74	3.3	47.7	1.16	5.1
0610	6010	41.0	1.00	6.6	64.0	1.56	9.9
0710	7346	50.1	1.22	6.9	78.5	1.91	11.1
0810	8683	59.2	1.44	7.5	92.6	2.25	10.8
0812	10762	75.1	1.82	12.3	116.4	2.83	18.0
0814	12841	90.9	2.21	18.6	140.1	3.40	27.8
1012	13920	97.4	2.37	13.2	151.0	3.67	18.6
1212	17197	120.3	2.93	13.5	186.3	4.52	18.0
1214	20553	146.0	3.54	20.7	224.6	5.45	27.5
1216	23909	171.6	4.17	29.3	263.0	6.39	40.1
1218	27265	197.4	4.79	39.8	301.5	7.32	55.3
1220	30621	223.1	5.42	52.7	340.0	8.25	73.9
1224	37333	274.7	6.67	84.3	411.5	9.99	48.8
1622	46699	336.8	8.18	63.7	507.2	12.31	37.1
1624	51342	356.5	8.66	13.5	559.9	13.59	47.0
1824	58410	406.2	9.87	13.8	637.7	15.48	47.9
2024	65489	456.1	11.07	14.1	715.7	17.37	48.5
2226	79111	555.4	13.48	17.7	868.1	21.07	60.7
2428	94011	664.6	16.13	21.9	1035.3	25.13	74.5

Note: Freshing air working condition: air intake; dry bulb temperature: 15°C; water inlet temperature: 60°C; water outlet temperature: 50°C.

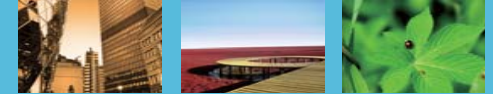


Detailed Parameter

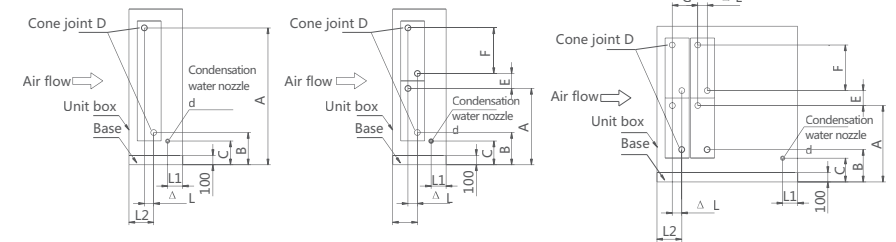
Air conditioning working condition heating							
Unit model	Air volume (m ³ /h)	2 R			4 R		
		Quantity of heat (kW)	Water flow (l/s)	Water resistance (kPa)	Quantity of heat (kW)	Water flow (l/s)	Water resistance (kPa)
0506	2436	23.4	0.57	2.7	37.0	0.90	4.5
0508	3564	36.0	0.87	6.6	55.6	1.35	10.8
0608	4574	46.2	1.13	7.2	71.3	1.73	10.2
0610	6010	62.3	1.52	13.8	95.1	2.31	19.8
0710	7346	76.2	1.85	14.7	116.5	2.83	21.6
0810	8683	90.0	2.19	15.3	137.5	3.34	21.3
0812	10762	113.4	2.75	25.2	172.1	4.19	35.3
0814	12841	136.9	3.33	38.0	206.8	5.02	54.1
1012	13920	147.3	3.58	26.9	223.3	5.42	36.2
1212	17197	182.0	4.42	28.1	275.6	6.69	35.3
1214	20553	218.4	5.30	41.6	330.0	8.01	53.3
1216	23909	257.6	6.26	59.8	382.2	9.28	33.2
1218	27265	282.6	6.86	14.1	436.5	10.60	44.9
1220	30621	320.3	7.78	18.6	492.4	11.95	59.2
1224	37333	396.1	9.62	29.6	588.9	14.29	25.2
1622	46699	486.5	11.81	22.2	748.1	18.16	73.3
1624	51342	538.1	13.06	27.5	803.5	19.50	22.5
1824	58410	613.3	14.89	28.4	915.2	22.20	23.7
2024	65489	688.5	16.71	29.3	1027.0	24.93	24.6
2226	79111	836.8	20.31	36.8	1246.9	30.26	30.8
2428	94011	1000.1	24.28	45.2	1488.1	36.11	37.7

Note: Air conditioning working condition: air intake; dry bulb temperature: -4°C; water inlet temperature: 60°C; water outlet temperature: 50°C.

Detailed Parameter



Unit connecting dimension Coil connecting dimension



Note: As for the unit of 2R+4R, G should be 197; as for unit of 4R+4R, G should be 176.

In fresh air working condition, DMA1214~DMA2428 model units may be manufactured into two coils of 2R+4R and 4R+4R according to the requirements of water resistance and flow velocity, if the user needs 6R or 8R coiler.

2R+4R coiler and 4R+4R coiler are two independent coils, which are distributed in parallel along with the air supply direction. If the 6R coiler is used, air supply will go through from the 2R coiler to the 4R coiler. The former coiler's outlet air temperature parameter is at the same time the latter coiler's inlet air temperature parameter.

Single-layer coiler dimension table

Unit model	A*	C*	d	2R					4R					6R					8R				
				D	B*	L1*	L2*	ΔL	D	B*	L1*	L2*	ΔL	D	B*	L1*	L2*	ΔL	D	B*	L1*	L2*	ΔL
0506	640	195	φ42	R1 _{1/2}	270	107	203	60.5	R2	276	107	232	82.5	R2	276	107	287	137.5	R2	276	107	341.5	192
0508	640	195	φ42	R1 _{1/2}	270	107	203	60.5	R2	276	107	232	82.5	R2	276	107	287	137.5	R2	276	107	341.5	192
0608	767	195	φ42	R1 _{1/2}	270	107	203	60.5	R2	276	107	232	82.5	R2	276	107	287	137.5	R2	276	107	341.5	192
0610	767	195	φ42	R1 _{1/2}	270	107	203	60.5	R2	276	107	232	82.5	R2	276	107	287	137.5	R2	276	107	341.5	192
0710	894	195	φ42	R1 _{1/2}	270	107	203	60.5	R2	276	107	232	82.5	R2	276	107	287	137.5	R2	276	107	341.5	192
0810	1021	195	φ42	R1 _{1/2}	270	107	203	60.5	R2	276	107	232	82.5	R2	276	107	287	137.5	R2	276	107	341.5	192
0812	1021	195	φ42	R1 _{1/2}	270	107	203	60.5	R2	276	107	232	82.5	R2	276	107	287	137.5	R2	276	107	341.5	192
0814	1021	195	φ42	R1 _{1/2}	270	107	203	60.5	R2	276	107	232	82.5	R2	276	107	287	137.5	R2	276	107	341.5	192
1012	1275	195	φ42	R2	276	107	208.5	70.5	R2 _{1/2}	284	107	232	82.5	R2 _{1/2}	284	107	287	137.5	R2 _{1/2}	284	107	341.5	192
1212	1259	195	φ42	R2	276	107	208.5	70.5	R2 _{1/2}	284	107	232	82.5	R2 _{1/2}	284	107	287	137.5	R2 _{1/2}	284	107	341.5	192
1214	1259	195	φ42	R2	276	107	208.5	70.5	R2 _{1/2}	284	107	232	82.5	R2 _{1/2}	284	107	287	137.5	R2 _{1/2}	284	107	341.5	192
1216	1259	195	φ42	R2	276	107	208.5	70.5	R2 _{1/2}	284	107	232	82.5	R2 _{1/2}	284	107	287	137.5	R2 _{1/2}	284	107	341.5	192
1218	1259	195	φ42	R2	276	107	208.5	70.5	R3	290.5	107	238.5	89	R3	290.5	107	287	137.5	R3	290.5	107	341.5	192
1220	1259	195	φ42	R2	276	107	208.5	70.5	R3	290.5	107	238.5	89	R3	290.5	107	287	137.5	R3	290.5	107	341.5	192
1224	1259	195	φ42	R2	276	107	208.5	70.5	R3	290.5	107	238.5	89	R3	290.5	107	287	137.5	R3	290.5	107	341.5	192

Double-layer coiler dimension table

Unit model	A*	C*	d	2R					6R					8R					8R												
				D	B*	L1*	L2*	ΔL	D	B*	L1*	L2*	ΔL	D	B*	L1*	L2*	ΔL	D	B*	L1*	L2*	ΔL	ΔL	ΔL						
1622	1084	195	φ42	R2 _{1/2}	284	153	800	107	225	82.5	R2 _{1/2}	284	153	800	107	232	82.5	R2 _{1/2}	284	153	800	107	287	1375	R2 _{1/2}	284	153	800	107	341.5	192
1624	1084	195	φ42	R2 _{1/2}	284	153	800	107	225	82.5	R2 _{1/2}	284	153	800	107	232	82.5	R2 _{1/2}	284	153	800	107	287	1375	R2 _{1/2}	284	153	800	107	341.5	192
1824	1211	195	φ42	R2 _{1/2}	284	153	927	107	225	82.5	R2 _{1/2}	284	153	927	107	232	82.5	R2 _{1/2}	284	153	927	107	287	1375	R2 _{1/2}	284	153	927	107	341.5	192
2024	1338	195	φ42	R2 _{1/2}	284	153	1054	107	225	82.5	R3	290.5	159.5	1048	107	238.5	89	R3	290.5	159.5	1048	107	287	1375	R3	290.5	159.5	1048	107	341.5	192
2226	1465	195	φ42	R2 _{1/2}	284	153	1181	107	225	82.5	R3	290.5	159.5	1175	107	238.5	89	R3	290.5	159.5	1175	107	287	1375	R3	290.5	159.5	1175	107	341.5	192
2428	1592	195	φ42	R2 _{1/2}	284	153	1308	107	225	82.5	R3	290.5	159.5	1302	107	238.5	89	R3	290.5	159.5	1302	107	287	1375	R3	290.5	159.5	1302	107	341.5	192

Note: Dimensions with * are applicable to the unit with box thickness of 1"; as for the unit with box thickness of 2", the above dimensions should be increased by about 10-30mm.



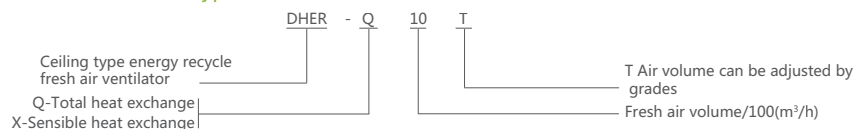
Energy Recycle

Ceiling type energy recycle fresh air ventilator

According to the time demands, DUNHAM-BUSH has developed advanced and professional air conditioning energy recycling products by introducing international latest indoor environment concept and combining advanced technology at home and abroad, so as to creating energy saving, environment friendly and healthy living environment as much as possible.



Introductions of unit type



For example: DHER-Q50 refers to ceiling type energy recycle fresh air ventilator of overall heating type with fresh air volume of 5000m³/h (not adjustable)

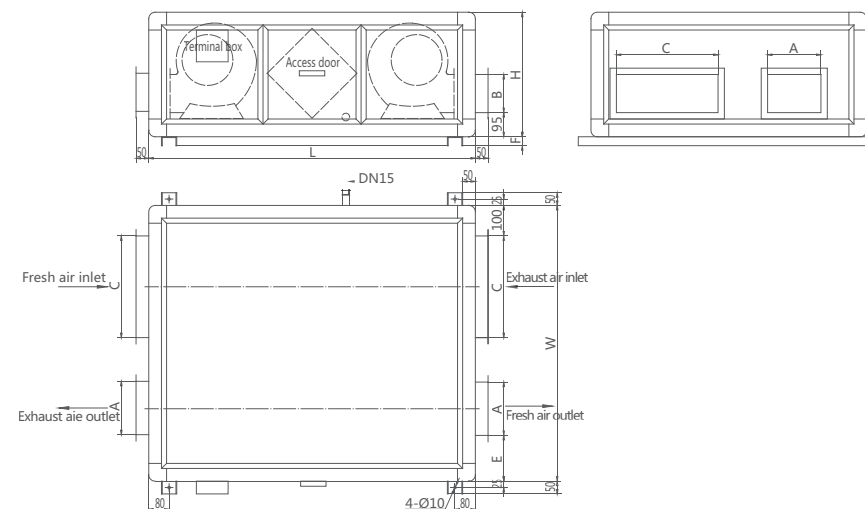
Performance parameter table

Unit model	Fresh air volume m³/h		Excess pressure outside Pa		Enthalpy recovery efficiency/%				Temperature recovery efficiency %		Noise dB(A)		Rated voltage	Rated power	Rated current	Net
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	V	kW	A	kg
DHER-Q10T DHER-X10T DHER-Q10 DHER-X10	1000	750	150	80	63	68	70	73	70	73	52	48	380	2×0.2	2×0.63	70 76
DHER-Q13T DHER-X13T	1300	900	150	90	63	69	70	74	71	73	54	49	380	2×0.2	2×0.65	85 90
DHER-Q16T DHER-X16T	1600	1000	150	100	62	67	69	71	70	75	55	51	380	2×0.25	2×0.8	100 106
DHER-Q20T DHER-X20T	2000	1200	170	122	64	69	70	74	71	74	57	54	380	2×0.45	2×1.2	140 150
DHER-Q26T DHER-X26T	2600	1800	200	125	63	67	69	71	70	72	58	54	380	2×0.55	2×1.35	160 172
DHER-Q30T DHER-X30T	3000	2000	200	138	62	65	69	72	71	73	59	55	380	2×0.75	2×1.8	180 193
DHER-Q40 DHER-X40	4000	4000	220	220	62	62	69	69	70	70	62	62	380	2×0.9	2×2.3	200 212
DHER-Q50 DHER-X50	5000	5000	260	260	61	61	64	64	70	70	65	65	380	2×1.5	2×3.3	220 285
DHER-Q60 DHER-X60	6000	6000	260	260	61	61	68	68			66	66	380	2×1.8	2×3.9	270 285

Energy Recycle



Unit outline drawing



Note: Sensible heat type unit is equipped with condensation water pipe (DN15) and overall heat type unit is not.

Unit overall dimension

Unit model	L	W	H	A	B	C	E	F
DHER-Q10T/Q10 DHER-X10T/X10	1200	800	440 480	220	120	240	105	25
DHER-Q13T/Q13 DHER-X13T/X13	1200	970	440 480	220	120	340	145	25
DHER-Q16T/Q16 DHER-X16T/X16	1200	1085	440 480	260	120	400	155	25
DHER-Q20T/Q20 DHER-X20T/X20	1285	1085	490 530	290	150	400	140	25
DHER-Q26T/Q26 DHER-X26T/X26	1285	1285	490 530	320	150	500	175	25
DHER-Q30T/Q30 DHER-X30T/X30	1400	1285	570 610	330	150	500	170	25
DHER-Q40 DHER-X40	1400	1600	570 610	410	150	600	210	35
DHER-Q50 DHER-X50	1650	1600	695 735	380	200	600	225	35
DHER-Q60 DHER-X60	1650	1800	695 735	460	200	700	235	35

Energy Recycle

Energy Recycle

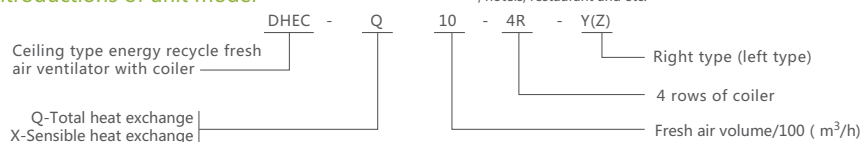
Ceiling type energy recycle fresh air ventilator with coiler

Based on the market demands and the company's principle "Keep advancing and moving, never stopping", DUNHAM-BUSH has developed on the basis of the original type, the ceiling type energy recycle fresh air ventilator with coiler, which can ventilate, refrigerate and heating.

Unit features

Convenient installation: Installed in the suspended ceiling without taking up any space in room, or influencing the indoor decoration.
Simple operation: The control box can be remote controlled in random position.
Various usages: Equipped with cooling and heating coiler so that the unit can ventilate, refrigerate and heat.
Extensive application: The unit can be used in computer houses, meeting rooms, cinemas, theater, markets, shops, hotels, restaurant and etc.

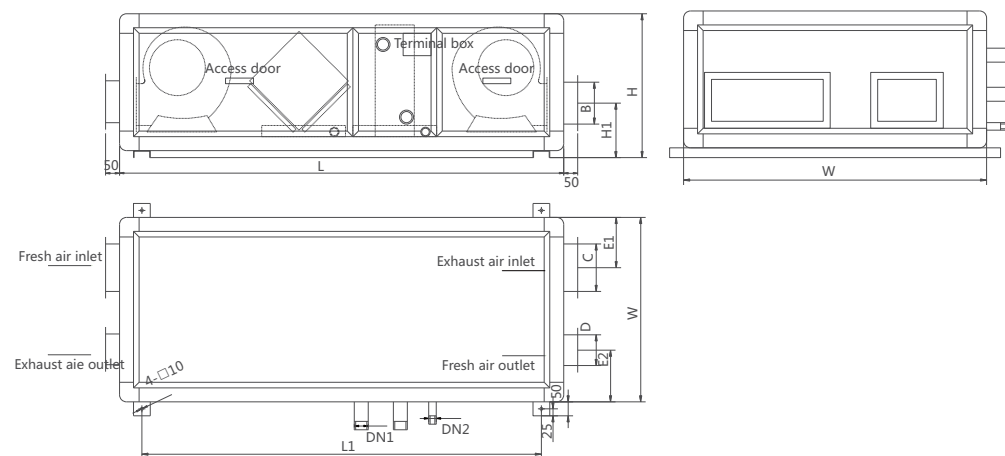
Introductions of unit model



Performance parameter table

Unit model	Fresh air volume m³/h	Refrigerating capacity kW	Quantity of heat kW	Excess pressure outside Pa	Enthalpy recovery efficiency%		Temperature recovery efficiency %	Noise dB(A)	Rated voltage V	Rated power kW	Rated current A	Net kg
					Summer	Winter						
DHEC-Q10-4R	1000	12.6	18.5	150	64	69	70	52	380	2*0.2	2*0.63	96
DHEC-X10-4R												100
DHEC-Q13-4R	1300	16.5	25.0	150	65	68	71	54	380	2*0.25	2*0.7	112
DHEC-X13-4R												116
DHEC-Q16-4R	1600	20.5	30.0	150	62	69	70	55	380	2*0.3	2*0.82	126
DHEC-X16-4R												131
DHEC-Q20-4R	2000	25.5	28.5	150	63	69	70	57	380	2*0.45	2*1.2	147
DHEC-X20-4R												152
DHEC-Q26-4R	2600	33.5	38.0	150	62	67	72	58	380	2*0.55	2*1.4	170
DHEC-X26-4R												175
DHEC-Q30-4R	3000	38.0	42.5	260	61	65	70	59	380	2*0.75	2*1.8	195
DHEC-X30-4R												201
DHEC-Q40-4R	4000	51.5	58.0	260	62	69	70	62	380	2*0.9	2*2.3	228
DHEC-X40-4R												235
DHEC-Q50-4R	5000	62.0	69.0	260	61	64	70	65	380	2*1.5	2*3.3	280
DHEC-X50-4R												288
DHEC-Q60-4R	6000	71.0	79.0	260	61	68	70	66	380	2*1.8	2*3.9	310
DHEC-X60-4R												318
DHEC-Q10-6R	1000	16.2	24.1	110	64	69	70	52	380	2*0.2	2*0.63	99
DHEC-X10-6R												102
DHEC-Q13-6R	1300	20.5	30.6	110	65	68	71	54	380	2*0.25	2*0.7	115
DHEC-X13-6R												118
DHEC-Q16-6R	1600	25.5	35.2	110	62	69	70	55	380	2*0.3	2*0.82	129
DHEC-X16-6R												133
DHEC-Q20-6R	2000	32.5	37.5	110	63	69	70	57	380	2*0.45	2*1.2	151
DHEC-X20-6R												155
DHEC-Q26-6R	2600	41.5	46.5	110	62	67	72	58	380	2*0.55	2*1.4	174
DHEC-X26-6R												180
DHEC-Q30-6R	3000	48.0	54.2	220	61	65	70	59	380	2*0.75	2*1.8	200
DHEC-X30-6R												205
DHEC-Q40-6R	4000	67.1	76.5	220	62	69	70	62	380	2*0.9	2*2.3	236
DHEC-X40-6R												242
DHEC-Q50-6R	5000	84.5	96.5	220	61	64	70	65	380	2*1.5	2*3.3	290
DHEC-X50-6R												296
DHEC-Q60-6R	6000	100.0	112.0	220	61	68	70	66	380	2*1.8	2*3.9	320
DHEC-X60-6R												328

Unit outline drawing



Note: This is the right type unit's schematic diagram. (Facing the entrance of fresh air, the left type unit's coiler inlet/outlet is on the left, and the right type unit's coiler inlet / outlet is on the right.)

Unit overall dimension

Unit model	L	W	H	A	B	C	E	F	DN1	DN2
DHEC-Q10	1500	920	440	220	120	240	105	25	32	20
DHEC-X10			480							
DHEC-Q13	1500	1130	440	220	120	340	145	25	32	20
DHEC-X13			480							
DHEC-Q16	1500	1300	440	260	120	400	155	25	32	20
DHEC-X16			480							
DHEC-Q20	1585	1370	490	290	150	400	140	25	32	20
DHEC-X20			530							
DHEC-Q26	1585	1620	490	320	150	450	175	25	32	20
DHEC-X26			530							
DHEC-Q30	1700	1620	570	330	150	500	170	25	32	20
DHEC-X30			610							
DHEC-Q40	1700	1950	570	410	150	545	210	35	40	25
DHEC-X40			610							
DHEC-Q50	1950	1950	695	380	200	565	225	35	40	25
DHEC-X50			735							
DHEC-Q60	1950	2205	695	460	200	600	235	35	40	25
DHEC-X60			735							